MASTER DEVELOPMENT DRAINAGE PLAN UPDATE
INTERQUEST SOUTH

DRAINAGE BASIN SUMMARY

BASIN (label)	TOTAL BASIN AREA (acres)	TOTAL BASIN AREA (sq mi)	WEIGHTED CN	TOTAL LAG TIME (hours)	TOTAL Tc (hours)	Q 2 Yr. (cfs)	Q 5 Yr. (cfs)	Q 10 Yr. (cfs)	Q 25 Yr. (cfs)	Q 50 Yr. (cfs)	Q 100 Yr. (cfs)
028	32.2	0.0503	60.0	0.1700	0.2833	0.25	4.42	9.72	20.10	28.39	37.46
O1	19.2	0.0300	67.8	0.0800	0.1333	4.73	12.73	19.08	29.65	37.17	45.16
B1	15.1	0.0236	68.0	0.1200	0.2100	2.95	8.42	12.92	20.51	26.11	32.02
B2	62.7	0.0980	75.0	0.1140	0.1900	33.20	65.46	89.55	128.36	155.06	184.43
B3	40.0	0.0625	60.0	0.1300	0.2200	31.11	54.19	71.14	97.89	116.35	135.15
B5	11.4	0.0178	69.8	0.2028	0.3381	2.31	6.04	9.10	14.37	18.20	22.25
B6	18.4	0.0288	61.0	0.2112	0.3520	0.21	2.67	5.54	11.14	15.58	20.47
B7	17.8	0.0278	67.5	0.2055	0.3427	2.49	7.37	11.92	19.51	25.14	31.13
B9	4.1	0.0064	68.0	0.0798	0.1331	6.22	9.25	11.31	14.42	16.50	18.59
A1	56.9	0.0889	66.2	0.2876	0.4793	3.94	14.97	25.19	43.78	57.91	73.28
A2	108.0	0.1688	63.0	0.3153	0.5256	2.72	16.85	31.66	60.16	82.61	107.29
A3	25.0	0.0391	79.9	0.1298	0.2164	19.83	34.56	48.24	62.06	73.64	85.49
A4	4.0	0.0063	74.5	0.1910	0.3183	1.66	3.38	4.72	6.92	8.47	10.09
A5	6.7	0.0105	76.3	0.2209	0.3682	2.83	5.67	7.94	11.43	13.98	16.61
A6	14.7	0.0230	81.6	0.0954	0.1423	15.15	24.83	31.72	42.41	49.67	57.02
A7	25.1	0.0392	81.5	0.2209	0.3682	14.32	26.33	35.34	49.80	59.91	70.36
A8	24.7	0.0386	83.1	0.2998	0.4330	18.22	30.97	40.16	54.62	64.93	75.24
A9	27.5	0.0430	65.3	0.2076		26.01	40.67	51.68	69.34	81.26	93.39
A12	31.1	0.0486	61.0	0.2209	0.3682	0.35	4.38	9.09	18.32	25.61	33.67
C1	62.5	0.0977	61.0	0.3126	0.5209	0.87	6.74	14.07	28.80	40.69	53.92
A14	38.4	0.0600	61.0	0.2376	0.3959	53.05	80.73	99.62	129.18	148.88	168.68
E5	34.3	0.0536	61.0	0.2209	0.3682	0.38	4.53	9.49	19.29	26.99	35.43
VP-1	40.4	0.0631	88.0	0.1632	0.2720	1.19	1.92	2.43	3.24	3.78	4.33
E5	34.3	0.0536	61.0	0.2209	0.3682	1.27	2.07	2.63	3.49	4.06	4.68
E7	79.2	0.1238	61.0	0.2487	0.4145	2.65	4.30	5.47	7.27	8.46	9.74
IP-3	2.0	0.0031	82.6	0.1348	0.2247	1.91	3.16	4.04	5.40	6.34	7.28
IP-4	3.1	0.0048	82.6	0.1348	0.2247	2.97	4.89	6.26	8.37	9.82	11.28
EK1C	4.8	0.0075	88.0	0.0751	0.1252	7.34	10.89	13.30	16.94	19.39	21.84
EK1D	8.3	0.0130	88.0	0.1126	0.1877	11.58	17.95	22.04	28.27	32.47	36.68
EK1M	3.8	0.0059	88.0	0.0710	0.1183	5.84	8.65	10.56	13.48	15.40	17.35
EK1N	11.6	0.0181	88.0	0.1085	0.1808	16.62	25.22	30.94	39.72	45.59	51.47
EK1Q	23.8	0.0372	73.0	0.2681	0.4469	8.15	14.01	20.29	30.93	38.62	46.75
EK1R	20.2	0.0316	62.6	0.2181	0.3635	0.65	4.17	7.75	14.47	19.68	25.37
EK1S	6.2	0.0097	69.0	0.1931	0.3219	1.10	3.05	4.69	7.50	9.58	11.78
EK1T	13.5	0.0211	61.9	0.2298	0.3496	0.28	2.41	4.69	9.05	12.46	16.18
EK2H	39.3	0.0614	61.7	0.2431	0.4052	0.70	5.96	11.66	22.85	31.76	41.55

DRAINAGE DESIGN POINTS SUMMARY

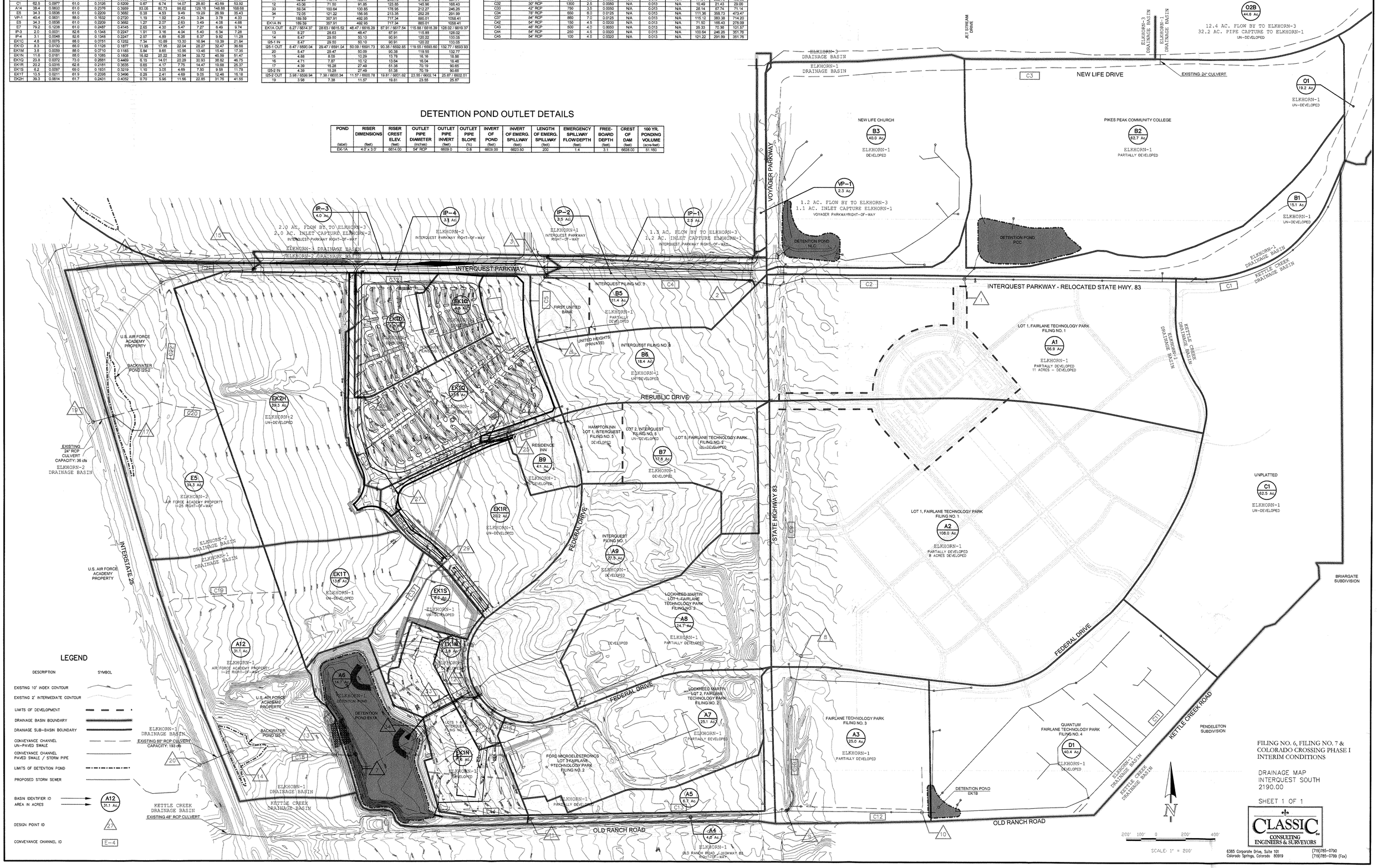
BASIN (label)	Q 2 Yr. Q (cfs) Ponding (ft)	Q 5 Yr. Q (cfs) Ponding (ft)	Q 10 Yr. Q (cfs) Ponding (ft)	Q 25 Yr. Q (cfs) Ponding (ft)	Q 50 Yr. Q (cfs) Ponding (ft)	Q 100 Yr. Q (cfs) Ponding (ft)
PCC IN	33.20	65.46	89.55	128.36	155.06	184.43
PCC OUT	14.72 / 6758.25	31.59 / 6759.71	39.19 / 6760.42	49.69 / 6761.47	56.38 / 6762.09	60.98 / 6762.40
1	17.26	39.67	53.49	72.12	85.86	98.98
NLC IN	31.11	54.19	71.14	97.89	116.35	135.15
NLC OUT	5.01 / 6737.27	11.97 / 6737.79	17.07 / 6738.38	23.49 / 6739.25	28.23 / 6739.71	28.62 / 6740.21
2	22.93	56.08	79.77	116.78	143.70	169.78
3	23.78	58.66	84.60	124.29	153.19	181.69
4	25.89	64.51	93.58	138.01	171.10	203.65
5	28.41	74.53	110.84	166.83	211.43	254.85
25	29.46	77.01	114.76	174.91	218.66	263.79
26	18.86	28.44	34.95	44.81	51.42	58.08
27	47.80	111.36	162.25	242.11	299.75	358.73
29	48.24	115.12	169.38	255.79	318.67	383.38
EK1B IN	63.05	80.73	99.82	129.16	148.88	168.68
EK1B OUT	42.25 / 6692.84	65.96 / 6693.83	79.23 / 6694.48	100.04 / 6695.50	112.94 / 6696.20	123.14 / 6696.88
10	42.29	68.34	87.64	122.15	148.01	171.89
8	5.41	28.74	52.84	98.75	134.89	174.40
9	58.70	102.56	146.44	233.23	300.33	368.62
11	62.20	110.74	156.47	246.73	316.26	387.77
12	43.06	71.59	91.85	123.85	145.96	168.43
33	59.04	100.64	120.85	175.95	212.27	246.26
34	72.05	121.22	156.95	213.35	252.28	291.99
7	189.59	397.91	492.95	717.34	885.01	1058.41
EK1A IN	189.59	397.91	492.95	717.34	885.01	1058.41
EK1A OUT	8.27 / 6614.37	28.63 / 6615.52	46.47 / 6616.29	87.91 / 6617.54	115.88 / 6618.39	128.02 / 6619.37
13	8.27	28.63	46.47	87.91	115.88	128.02
14	8.47	29.50	50.10	90.91	120.22	133.05
I25-1 IN	8.47	29.50	50.10	90.91	120.22	133.05
I25-1 OUT	8.47 / 6590.04	29.47 / 6591.04	50.09 / 6591.73	90.38 / 6592.85	119.55 / 6593.60	132.77 / 6593.93
20	8.47	29.47	50.09	90.38	119.55	132.77
15	4.68	8.05	10.29	13.78	16.18	18.58
16	4.71	7.87	10.12	13.64	16.04	18.48
17	4.39	16.28	27.49	51.38	70.19	90.85
I25-2 IN	4.39	16.28	27.49	51.38	70.19	90.85
I25-2 OUT	3.98 / 6599.94	7.38 / 6600.34	11.57 / 6600.78	19.81 / 6601.62	23.55 / 6602.14	25.87 / 6602.51
19	3.98	7.38	11.57	19.81	23.55	25.87

DRAINAGE CONVEYANCE SUMMARY

Conveyance Label	Type	Length ft.	Bottom Width ft.	Slope %	Side Slope H to 1	Manning's N value	Available Depth ft.	Q 5 Yr. cfs	Q 100 Yr. cfs	Q Capacity cfs
C1	36" RCP	2660	3.0	0.0200	N/A	0.013	N/A	10.55	42.54	94.32
C2	48" RCP	1375	4.0	0.0225	N/A	0.013	N/A	39.25	98.20	215.46
C3	GRASSLINED SWALE	3475	6.0	0.0230	3.0	0.035	2.000	1.57	24.70	168.57
C4	54" RCP	1870	4.5	0.0186	N/A	0.013	N/A	56.36	168.19	268.18
C5	54" RCP	450	4.5	0.0200	N/A	0.013	N/A	58.98	181.40	278.09
C6	54" RCP	550	4.5	0.0200	N/A	0.013	N/A	64.45	203.36	278.09
C7	60" RCP	600	5.0	0.0217	N/A	0.013	N/A	74.53	254.85	383.63
C9	GRASSLINED SWALE	1800	6.0	0.0167	3.0	0.035	3.000	12.35	67.91	365.58
C10	CONCRETE CHANNEL	1110	6.0	0.0050	1.5	0.015	5.000	28.06	172.86	1297.29
C11	42" RCP	2200	3.5	0.0177	N/A	0.013	N/A	6.37	52.96	133.85
C12	48" RCP	1050	4.0	0.0062	N/A	0.013	N/A	68.34	171.69	113.10
C13	CONCRETE CHANNEL	1750	6.0	0.0271	1.5	0.015	5.000	101.91	367.88	2191.56
C14	CONCRETE CHANNEL	800	6.0	0.0200	1.5	0.015	5.000	110.59	387.77	1882.71
C15	30" RCP	800	2.5	0.0188	N/A	0.013	N/A	30.97	75.24	56.24
C18	GRASS / RIPRAP SWALE	700	20.0	0.0257	2.0	0.035	3.000	28.62	128.01	934.14
C19	GRASSLINED SWALE	1850	10.0	0.0186	10.0	0.035	1.500	1.07	11.72	209.13
C20	GRASSLINED SWALE	750	10.0	0.0227	10.0	0.035	2.000	39.25	40.23	432.24
C21	30" RCP	650	2.5	0.0292	N/A	0.013	N/A	7.87	16.48	70.09
C22	GRASSLINED SWALE	1150	6.0	0.0182	2.0	0.035	1.500	6.96	17.58	80.50
C31	60" RCP	880	5.0	0.0306	N/A	0.013	N/A	77.01	263.79	455.66
C32	30" RCP	1300	2.5	0.0050	N/A	0.013	N/A	10.49	21.43	29.00
C33	42" RCP	750	3.5	0.0050	N/A	0.013	N/A	28.14	57.74	71.14
C34	78" RCP	650	8.0	0.0125	N/A	0.013	N/A	111.36	358.73	473.47
C37	84" RCP	880	7.0	0.0125	N/A	0.013	N/A	115.12	383.38	714.20
C42	54" RCP	150	4.5	0.0200	N/A	0.013	N/A	71.50	168.43	278.09
C43	48" RCP	500	4.0	0.0050	N/A	0.013	N/A	26.33	70.36	101.57
C44	54" RCP	250	4.5	0.0320	N/A	0.013	N/A	100.64	246.26	351.76
C45	54" RCP	100	4.5	0.0320	N/A	0.013	N/A	121.22	291.99	351.76

DETENTION POND OUTLET DETAILS

POND (label)	RISER DIMENSIONS (feet)	RISER CREST ELEV. (feet)	OUTLET PIPE DIAMETER (inches)	OUTLET PIPE INVERT (feet)	OUTLET PIPE SLOPE (%)	INVERT OF POND (feet)	INVERT OF EMERG. SPILLWAY (feet)	LENGTH OF EMERG. SPILLWAY (feet)	EMERGENCY SPILLWAY FLOW DEPTH (feet)	FREE-BOARD DEPTH (feet)	CREST OF DAM (feet)	100 YR. PONDING VOLUME (acre-feet)
EK-1A	4.0' x 3.0'	6614.00	54" RCP	6609.0	0.8	6609.00	6623.50	200	1.4	3.1	6628.00	51.162



FILING NO. 6, FILING NO. 7 & COLORADO CROSSING PHASE I INTERIM CONDITIONS

DRAINAGE MAP
INTERQUEST SOUTH
2190.00

SHEET 1 OF 1

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MASTER DEVELOPMENT DRAINAGE PLAN UPDATE
INTERQUEST SOUTH

DRAINAGE BASIN SUMMARY

BASIN (label)	TOTAL BASIN AREA (acres)	TOTAL BASIN AREA (sq mi)	WEIGHTED CN	TOTAL LAG TIME (hours)	TOTAL Tc (hours)	Q 2 Yr. (cfs)	Q 5 Yr. (cfs)	Q 10 Yr. (cfs)	Q 25 Yr. (cfs)	Q 50 Yr. (cfs)	Q 100 Yr. (cfs)
02B	32.2	0.0503	60.0	0.1700	0.2833	0.25	4.42	9.72	20.10	28.39	37.46
C1	19.2	0.0300	67.8	0.0800	0.1333	4.73	12.73	19.06	29.60	37.17	45.16
B1	15.1	0.0236	66.0	0.1260	0.2100	2.56	8.42	12.92	20.51	26.11	32.02
B2	62.7	0.0980	75.0	0.1140	0.1900	33.20	65.46	89.55	128.36	155.96	184.43
B3	40.0	0.0625	80.0	0.1380	0.2300	31.11	54.19	71.14	97.89	116.35	135.15
B5	11.4	0.0178	88.0	0.1285	0.2141	15.95	24.08	29.67	36.17	43.66	49.57
B6	18.4	0.0288	88.0	0.1368	0.2280	25.38	38.36	47.29	60.92	70.13	79.32
B7	17.8	0.0278	88.0	0.1312	0.2187	24.79	37.42	46.14	59.39	68.28	77.19
B9	4.1	0.0064	88.0	0.0798	0.1331	6.22	9.25	11.31	14.42	16.52	18.59
A1	56.9	0.0889	88.0	0.2132	0.3553	67.71	104.23	129.50	168.56	194.04	221.48
A2	108.0	0.1688	88.0	0.2410	0.4016	121.62	188.27	234.62	305.74	354.24	403.06
A3	25.0	0.0391	88.0	0.1298	0.2164	34.89	52.68	64.94	83.56	96.05	108.56
A4	4.0	0.0063	74.5	0.1910	0.3183	1.65	3.38	4.72	6.92	8.47	10.09
A5	13.4	0.0209	88.0	0.1465	0.2442	9.07	13.77	16.99	21.69	25.21	28.55
A6	14.7	0.0230	81.6	0.0954	0.1423	15.15	24.83	31.72	42.41	49.67	57.02
A7	18.8	0.0294	88.0	0.1465	0.2442	32.50	49.61	61.38	79.39	91.60	103.98
A8	24.7	0.0386	88.0	0.1854	0.3090	31.05	47.48	58.91	76.41	88.20	100.04
A9	27.5	0.0430	88.0	0.1632	0.2720	38.11	54.95	67.95	87.92	101.34	114.82
A12	31.1	0.0486	81.0	0.2209	0.3682	0.38	4.38	9.09	18.32	25.61	33.67
C1	62.5	0.0977	61.0	0.3126	0.5209	0.67	6.74	14.07	28.80	40.69	53.92
D1	40.4	0.0631	88.0	0.1632	0.2720	53.06	80.73	99.82	129.16	148.88	168.68
E5	34.3	0.0536	61.0	0.2209	0.3682	0.38	4.53	9.49	18.29	25.59	35.43
VP-1	1.1	0.0017	82.6	0.0960	0.1599	1.19	1.92	2.43	3.24	3.78	4.33
IP-1	1.2	0.0019	82.6	0.1043	0.1738	1.27	2.07	2.63	3.49	4.08	4.68
IP-2	2.5	0.0039	82.6	0.1043	0.1738	2.68	4.30	5.47	7.27	8.49	9.74
IP-3	2.0	0.0031	82.6	0.1348	0.2247	1.91	3.16	4.04	5.40	6.34	7.28
IP-4	3.1	0.0048	82.6	0.1348	0.2247	2.97	4.89	6.26	8.37	9.82	11.28
EK1A	3.6	0.0056	88.0	0.0768	0.1280	5.49	8.15	9.96	12.69	14.52	16.36
EK1B	7.7	0.0120	88.0	0.0860	0.1433	11.57	17.26	21.12	26.97	30.87	34.78
EK1C	4.8	0.0075	88.0	0.0751	0.1252	7.34	10.89	13.32	16.94	19.39	21.84
EK1D	8.3	0.0130	88.0	0.1126	0.1877	11.95	17.95	22.04	28.27	32.47	36.68
EK1E	12.4	0.0194	88.0	0.1110	0.1849	17.90	26.87	32.99	42.33	48.61	54.89
EK1F	5.5	0.0096	88.0	0.1076	0.1794	7.99	11.97	14.69	18.85	21.64	24.43
EK1G	4.6	0.0072	88.0	0.1110	0.1849	6.64	9.97	12.24	15.70	18.03	20.36
EK1H	10.9	0.0170	88.0	0.1198	0.1946	16.57	23.44	28.81	36.96	42.44	47.96
EK1I	5.9	0.0092	88.0	0.0751	0.1252	9.02	13.38	16.35	20.82	23.84	26.85
EK1J	2.2	0.0034	88.0	0.0626	0.1044	3.41	5.05	6.17	7.85	8.98	10.10
EK1K	4.6	0.0075	88.0	0.0860	0.1433	7.21	10.76	13.17	16.81	19.24	21.68
EK1L	7.0	0.0109	88.0	0.1018	0.1696	10.26	15.35	18.85	24.15	27.70	31.25
EK1M	3.5	0.0059	88.0	0.0710	0.1183	5.94	8.65	10.58	13.46	15.40	17.35
EK1N	11.6	0.0181	88.0	0.1085	0.1808	16.82	25.22	30.94	39.72	45.56	51.48
EK1O	1.5	0.0023	61.0	0.0600	0.1333	0.03	0.37	0.73	1.38	1.84	2.37
EK2A	11.1	0.0173	88.0	0.1226	0.2044	15.18	22.88	28.33	36.61	42.18	47.77
EK2B	5.4	0.0084	88.0	0.0893	0.1488	7.89	11.87	14.68	18.68	21.44	24.19
EK2C	10.2	0.0159	88.0	0.1160	0.1933	14.04	21.32	26.38	34.01	39.19	44.30
EK2D	7.6	0.0119	62.7	0.0960	0.1599	7.81	12.85	16.41	21.93	25.70	29.50
EK2E	2.6	0.0041	61.0	0.0626	0.1044	0.05	0.66	1.32	2.50	3.38	4.32

DRAINAGE DESIGN POINTS SUMMARY

DESIGN POINT (label)	Q 2 Yr. Q (cfs) Ponding (ft)	Q 5 Yr. Q (cfs) Ponding (ft)	Q 10 Yr. Q (cfs) Ponding (ft)	Q 25 Yr. Q (cfs) Ponding (ft)	Q 50 Yr. Q (cfs) Ponding (ft)	Q 100 Yr. Q (cfs) Ponding (ft)
POC IN	33.20	65.46	89.55	128.36	155.96	184.43
POC OUT	14.72 / 6758.25	31.59 / 6758.71	39.19 / 6760.42	49.69 / 6761.47	56.38 / 6762.09	63.98 / 6762.40
1	17.26	39.87	53.49	72.12	85.95	99.58
NLC IN	31.11	54.19	71.14	97.89	116.35	135.15
NLC OUT	5.01 / 6737.07	11.97 / 6737.79	17.07 / 6738.38	23.49 / 6739.25	28.23 / 6739.71	28.62 / 6740.21
2	22.93	56.08	79.77	116.78	143.70	169.78
3	23.78	58.66	84.60	124.29	153.19	181.69
4	33.16	75.51	108.17	158.81	190.29	224.99
5	80.46	145.19	196.31	270.88	322.33	374.62
25	101.47	175.09	232.90	318.34	378.03	438.38
26	19.09	28.65	35.15	46.04	51.70	58.36
27	138.07	229.97	300.21	400.43	476.68	549.99
28	14.60	21.93	26.92	34.50	39.59	44.71
29	168.12	274.98	355.43	476.09	557.67	640.97
30	176.36	287.13	370.18	465.38	560.22	667.00
31	179.25	291.36	375.35	502.80	588.68	676.51
32	17.34	25.96	31.83	40.80	46.80	52.81
8	188.05	291.03	362.79	472.64	547.45	622.87
EK1B IN	53.05	80.73	99.82	129.16	148.88	168.68
EK1B OUT	42.25 / 6692.54	65.96 / 6693.63	79.25 / 6694.46	100.04 / 6695.50	112.94 / 6696.20	123.14 / 6696.58
10	42.29	68.34	87.64	122.15	148.01	171.89
9	262.33	394.97	493.82	649.62	756.73	862.68
11	259.21	407.63	510.14	672.37	784.76	895.08
12	66.98	102.40	126.80	164.01	189.27	214.67
33	103.76	158.51	196.67	254.92	294.13	333.48
34	119.82	183.30	227.03	293.70	338.55	384.00
7	554.98	891.81	1132.27	1493.71	1744.62	1999.54
EK1A IN	554.86	891.81	1132.27	1493.71	1744.62	1999.54
EK1A OUT	36.38 / 6818.11	70.54 / 6817.71	105.68 / 6818.78	129.83 / 6820.87	144.48 / 6821.85	166.31 / 6823.00
13	36.38	70.54	105.68	129.83	144.48	166.31
14	36.62	71.40	107.20	135.57	147.26	169.67
I25-1 IN	36.62	71.40	107.20	135.57	147.26	169.67
I25-1 OUT	35.61 / 6591.29	71.12 / 6592.34	106.58 / 6593.27	126.73 / 6593.78	145.76 / 6594.25	168.05 / 6594.79
20	36.61	71.12	106.58	126.73	145.76	168.05
15	4.88	8.05	10.29	13.78	16.16	18.56
35	20.07	30.88	38.34	50.12	58.12	66.17
36	21.90	33.19	40.93	52.69	60.58	68.49
37	49.23	76.62	95.62	124.74	144.39	164.15
EK2A-IN	49.23	76.62	95.62	124.74	144.39	164.15
EK2A-OUT	0.57 / 6622.58	0.68 / 6623.55	0.74 / 6624.20	1.74 / 6624.79	4.43 / 6624.90	8.81 / 6625.04
38	0.57	0.68	0.74	1.74	4.43	8.81
17	0.93	5.27	10.47	20.60	28.53	37.35
I25-2 IN	0.93	5.27	10.47	20.60	28.53	37.35
I25-2 OUT	0.91 / 6599.41	4.47 / 6600.01	5.70 / 6600.15	8.91 / 6600.51	11.79 / 6600.80	16.11 / 6601.22
39	0.91	4.47	5.70	8.91	11.79	16.11

DRAINAGE CONVEYANCE SUMMARY

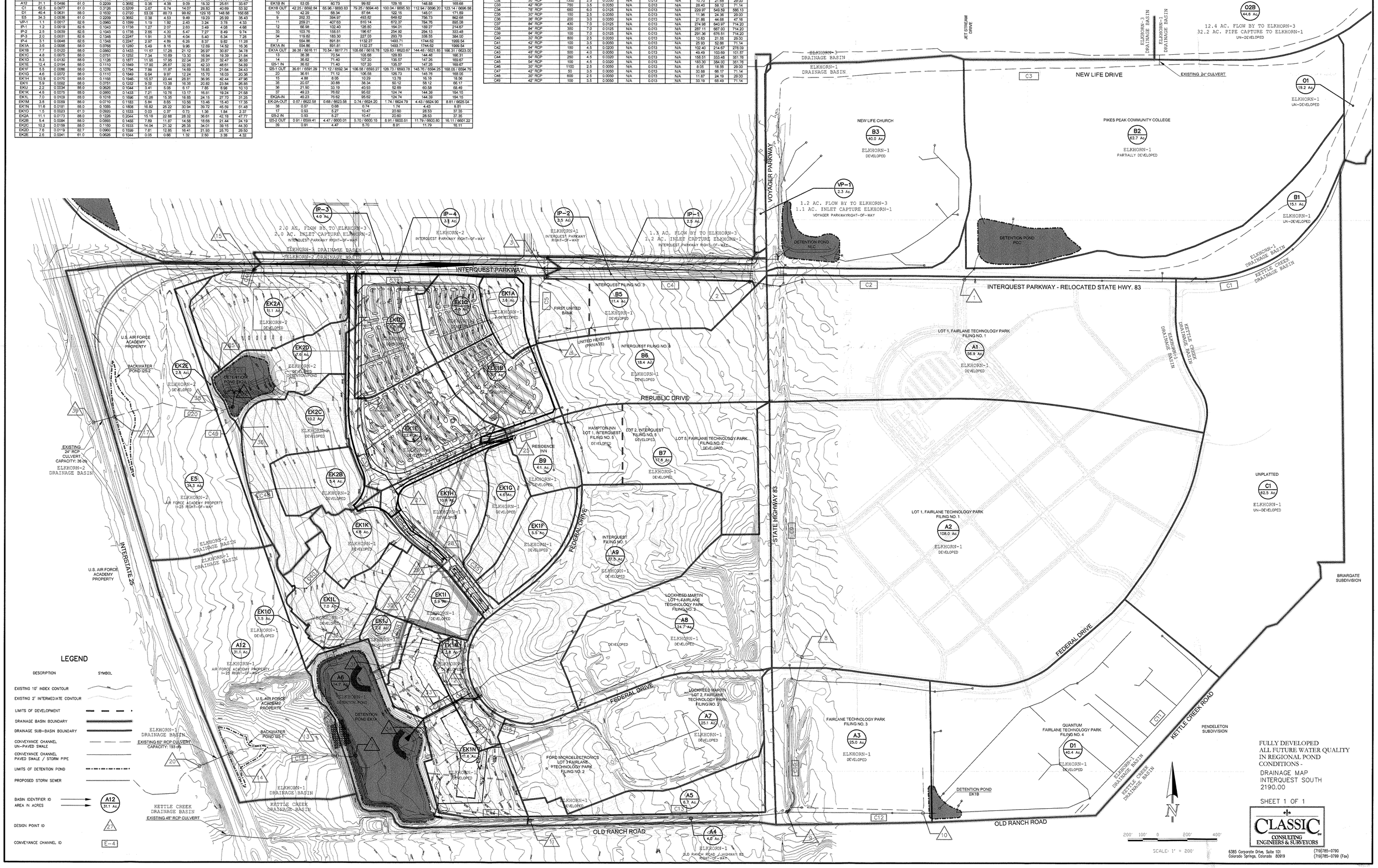
Conveyance Label	Type	Length ft.	Bottom Width ft.	Slope %	Side Slope H to 1	Manning's N value	Channel Depth ft.	Q 5 Yr. cfs	Q 100 Yr. cfs	Q Capacity cfs
C1	38" RCP	2650	3.0	0.0200	N/A	0.013	N/A	10.55	42.94	54.32
C2	48" RCP	1375	4.0	0.0225	N/A	0.013	N/A	39.25	98.20	215.45
C3	GRASSLINED SWALE	3475	5.0	0.0230	3.0	0.035	2.000	1.87	24.70	168.97
C4	54" RCP	1670	4.5	0.0186	N/A	0.013	N/A	55.36	168.19	298.18
C5	54" RCP	450	4.5	0.0200	N/A	0.013	N/A	58.66	181.40	278.09
C6	54" RCP	550	4.5	0.0200	N/A	0.013	N/A	75.51	224.69	278.09
C7	60" RCP	300	5.0	0.0217	N/A	0.013	N/A	145.19	374.62	383.63
C9	CONCRETE CHANNEL	1800	6.0	0.0167	1.5	0.150	5.000	102.76	219.81	1720.39
C10	CONCRETE CHANNEL	1100	6.0	0.0550	1.5	0.015	5.000	288.67	620.32	941.35
C11	42" RCP	2200	3.5	0.0177	N/A	0.013	N/A	8.37	52.66	133.85
C12	48" RCP	1050	4.0	0.0262	N/A	0.013	N/A	68.34	171.89	113.10
C13	CONCRETE CHANNEL	1750	6.0	0.0271	1.5	0.015	5.000	393.32	860.97	2191.56
C14	CONCRETE CHANNEL	600	6.0	0.0200	1.5	0.015	5.000	407.58	893.82	1882.71
C15	30" RCP	800	2.5	0.0250	N/A	0.013	N/A	47.48	100.04	94.85
C18	GRASS / RIPRAP SWALE	700	20.0	0.0257	2.0	0.035	3.000	70.53	166.30	934.14
C20	GRASSLINED SWALE	750	10.0	0.0227	10.0	0.035	2.000	0.68	6.81	432.24
C30	24" RCP	850	2.0	0.0050	N/A	0.013	N/A	8.06	16.29	16.00
C31	60" RCP	880	5.0	0.0306	N/A	0.013	N/A	175.09	438.38	455.56
C32	30" RCP	1300	2.5	0.0050	N/A	0.013	N/A	10.70	21.68	29.00
C33	42" RCP	750	3.5	0.0050	N/A	0.013	N/A	28.40	58.12	71.14
C34	78" RCP	650	6.0	0.0125	N/A	0.013	N/A	228.97	549.59	586.13
C35	30" RCP	150	2.5	0.0050	N/A	0.013	N/A	11.96	24.36	29.00
C36	36" RCP	230	3.0	0.0050	N/A	0.013	N/A	21.86	44.68	47.16
C37	84" RCP	400	7.0	0.0125	N/A	0.013	N/A	274.98	640.97	714.20
C38	84" RCP	350	7.0	0.0125	N/A	0.013	N/A	287.11	667.00	714.20
C39	84" RCP	100	7.0	0.0125	N/A	0.013	N/A	291.36	676.51	714.20
C40	30" RCP	800	2.5	0.0050	N/A	0.013	N/A	10.63	21.55	29.00
C41	42" RCP	100	3.5	0.0050	N/A	0.013	N/A	25.93	52.66	71.14
C42	54" RCP	150	4.5	0.0200	N/A	0.013	N/A	102.40	214.67	278.09
C43	48" RCP	500	4.0	0.0050	N/A	0.013	N/A	49.49	103.69	101.87
C44	54" RCP	250	4.5	0.0320	N/A	0.013	N/A	158.51	333.48	351.76
C45	54" RCP	100	4.5	0.0320	N/A	0.013	N/A	183.30	384.00	351.76
C46	30" RCP	1100	2.5	0.0050	N/A	0.013	N/A	8.05	18.56	29.00
C47	42" RCP	50	3.5	0.0050	N/A	0.013	N/A	30.88	66.17	71.14
C48	30" RCP	600	2.5	0.0050	N/A	0.013	N/A	11.87	24.19	29.00
C49	42" RCP	100	3.5	0.0050	N/A	0.013	N/A	33.19	68.49	71.14

WATER QUALITY SUMMARY

POND (label)	WQ BASIN AREA (acres)	WQ BASIN % Impervious	WQ VOLUME REQUIRED (acre-feet)	WQ PONDING ELEV. (feet)	WQ PONDING HEIGHT (feet)	# WQ ORIFICE COLUMNS (feet)	# WQ ORIFICE ROWS (feet)	WQ ORIFICE DIAMETER (inches)
EK1A	305.2	72.00	8.679	6614.0	5.0	3	15	1.500
EK2A	30.2	72.00	0.859	6621.3	2.3	2	7	1.000

DETENTION POND OUTLET DETAILS

POND (label)	RISER DIMENSIONS (feet)	RISER CREST ELEV. (feet)	OUTLET PIPE DIAMETER (inches)	OUTLET PIPE INVERT (feet)	OUTLET PIPE SLOPE (%)	INVERT OF POND (feet)	INVERT OF EMERG. SPILLWAY (feet)	LENGTH OF EMERG. SPILLWAY (feet)	EMERGENCY SPILLWAY FLOW DEPTH (feet)	FREE-BOARD DEPTH (feet)	CREST OF DAM (feet)	100 YR. PONDING VOLUME (acre-feet)
EK-1A	4.0' x 3.0'	6614.00	54" RCP	6609.0	0.6	6609.00	6623.50	275	1.8	2.0	6627.30	96.165
EK-2A	4.0' x 4.0'	6624.75	18" RCP	6619.0	1.0	6619.00	6625.00	55	1.0	2.0	6628.00	6.241



FULLY DEVELOPED
ALL FUTURE WATER QUALITY
IN REGIONAL POND
CONDITIONS -

DRAINAGE MAP
INTERQUEST SOUTH
2190.00

SHEET 1 OF 1

CLASSIC CONSULTING ENGINEERS & SURVEYORS
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Colorado Springs, Colorado 80919
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MASTER DEVELOPMENT DRAINAGE PLAN UPDATE
INTERQUEST SOUTH

DRAINAGE BASIN SUMMARY

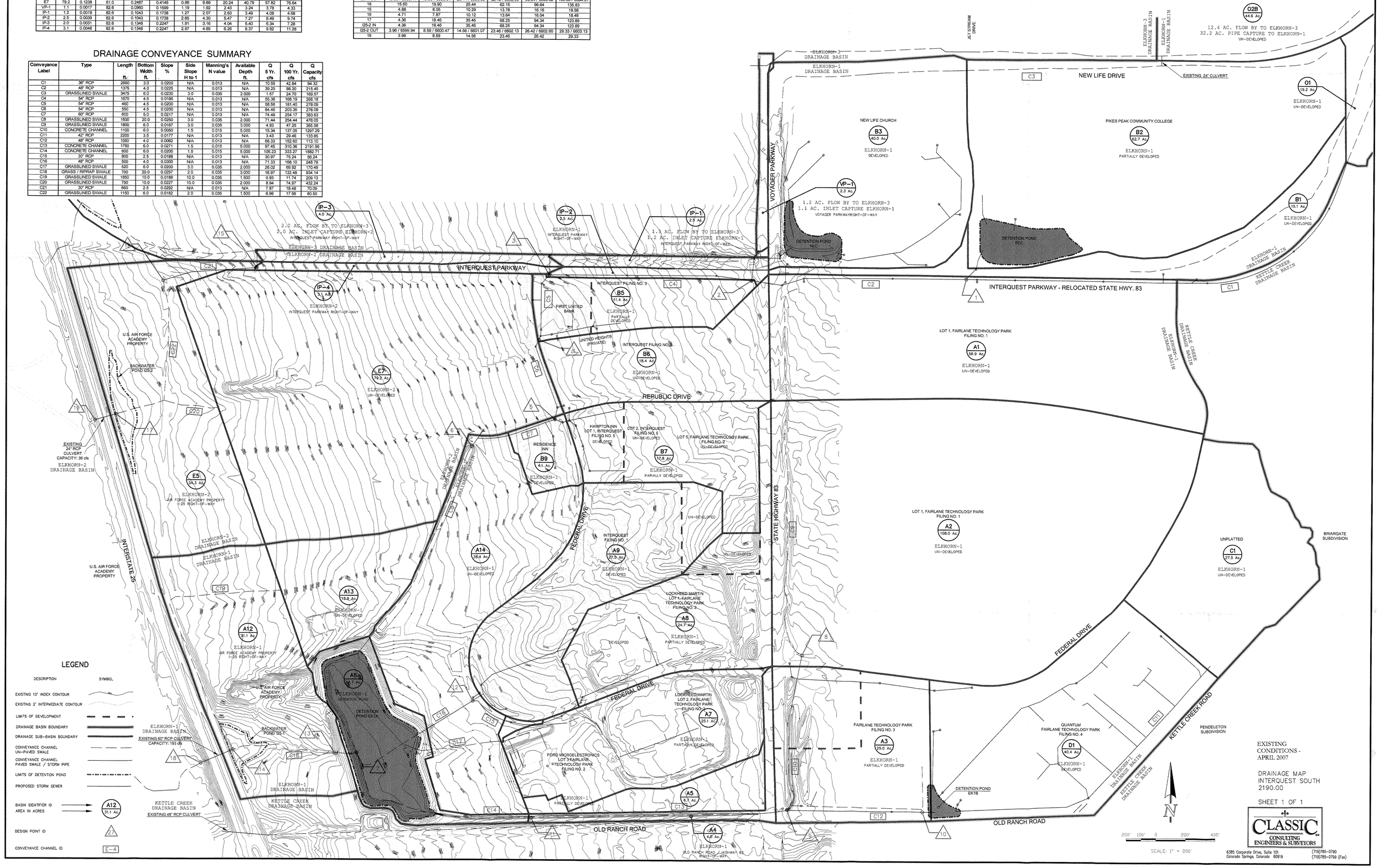
BASIN (label)	TOTAL BASIN AREA (acres)	TOTAL BASIN AREA (sq mi)	WEIGHTED CN	TOTAL LAG TIME (hours)	TOTAL Tc (hours)	Q 2 Yr. (cfs)	Q 5 Yr. (cfs)	Q 10 Yr. (cfs)	Q 25 Yr. (cfs)	Q 50 Yr. (cfs)	Q 100 Yr. (cfs)
02B	32.2	0.0503	60.0	0.1700	0.2833	0.25	4.42	9.72	20.10	28.39	37.48
O1	19.2	0.0300	67.8	0.0800	0.1333	4.73	12.73	19.06	29.60	37.17	45.16
B1	15.1	0.0236	68.0	0.1260	0.2100	2.95	8.42	12.92	20.51	28.11	32.02
B2	62.7	0.0980	75.0	0.1140	0.1900	33.20	65.46	89.55	128.36	155.96	184.43
B3	40.0	0.0625	80.0	0.1380	0.2300	31.11	54.19	71.14	97.89	116.35	135.15
B5	11.4	0.0178	69.8	0.2020	0.3381	2.31	6.04	9.10	14.37	18.20	22.25
B6	18.4	0.0288	61.0	0.2112	0.3520	0.21	2.67	5.54	11.14	15.58	20.47
B7	17.8	0.0278	67.5	0.2056	0.3427	2.49	7.57	11.92	19.51	25.14	31.13
B9	4.1	0.0064	88.0	0.0798	0.1331	6.22	9.25	11.31	14.42	16.50	18.59
A1	56.9	0.0889	61.0	0.2876	0.4793	0.61	6.55	13.65	27.90	39.29	52.06
A2	108.0	0.1688	61.0	0.3153	0.5256	1.15	11.58	24.15	49.44	69.84	92.62
A3	25.0	0.0391	79.9	0.1298	0.2164	19.83	34.56	45.24	62.06	73.64	85.49
A4	4.0	0.0063	74.5	0.1910	0.3183	1.68	3.38	4.72	6.92	8.47	10.09
A5	6.7	0.0105	64.6	0.2209	0.3682	2.83	5.67	7.84	11.43	13.98	16.61
A6	14.7	0.0230	81.6	0.0854	0.1423	15.15	24.83	31.72	42.41	49.67	57.02
A7	25.1	0.0392	81.5	0.2209	0.3682	14.32	28.33	35.34	49.80	59.91	70.38
A8	24.7	0.0386	83.1	0.2598	0.4330	18.22	30.97	40.16	54.82	64.93	75.24
A9	27.5	0.0430	85.3	0.2376	0.3959	25.01	40.67	51.88	69.34	81.26	93.39
A12	31.1	0.0486	61.0	0.2209	0.3682	0.35	4.38	9.09	18.32	25.61	33.67
A13	13.9	0.0217	61.0	0.1820	0.3033	0.17	2.28	4.64	9.24	12.82	16.77
A14	38.4	0.0600	61.0	0.2376	0.3959	0.42	5.12	10.64	21.54	30.18	39.60
C1	27.5	0.0430	61.0	0.2056	0.3496	0.31	4.02	8.32	16.72	23.39	30.71
D1	40.4	0.0631	88.0	0.1632	0.2720	53.05	80.73	99.82	129.16	148.88	168.68
E5	34.3	0.0536	61.0	0.2209	0.3682	0.38	4.53	9.49	19.29	26.99	35.43
E7	79.2	0.1238	61.0	0.2487	0.4145	0.88	9.69	20.24	40.79	57.82	76.04
VP-1	1.1	0.0017	82.6	0.0960	0.1599	1.19	1.92	2.43	3.24	3.78	4.33
IP-1	1.2	0.0019	82.6	0.1043	0.1738	1.27	2.07	2.63	3.49	4.08	4.68
IP-2	2.5	0.0039	82.6	0.1743	0.1738	2.65	4.30	5.47	7.27	8.49	9.74
IP-3	2.0	0.0031	82.6	0.1348	0.2247	1.91	3.16	4.04	5.40	6.34	7.28
IP-4	3.1	0.0048	82.6	0.1348	0.2247	2.97	4.89	6.26	8.37	9.82	11.28

DRAINAGE DESIGN POINTS SUMMARY

Design Point (label)	Q 2 Yr. Q (cfs) Ponding (ft)	Q 5 Yr. Q (cfs) Ponding (ft)	Q 10 Yr. Q (cfs) Ponding (ft)	Q 25 Yr. Q (cfs) Ponding (ft)	Q 50 Yr. Q (cfs) Ponding (ft)	Q 100 Yr. Q (cfs) Ponding (ft)
PCC IN	33.20	65.46	89.55	128.36	155.96	184.43
PCC OUT	14.72 / 6758.26	31.59 / 6759.71	39.19 / 6760.42	49.69 / 6761.47	56.38 / 6762.09	60.98 / 6762.40
1	17.26	39.67	53.49	72.12	85.95	98.98
NLC IN	31.11	54.19	71.14	97.89	116.35	135.15
NLC OUT	5.01 / 6737.07	11.97 / 6737.79	17.07 / 6738.38	23.49 / 6739.25	26.23 / 6739.71	28.62 / 6740.21
2	22.93	56.08	79.77	116.78	143.70	169.78
3	23.78	58.66	84.80	124.25	153.19	181.69
4	25.89	64.51	93.58	138.51	171.10	203.65
5	28.41	74.53	110.84	168.83	211.43	254.85
6	29.33	76.61	114300.00	174.03	217.80	262.29
EK1B IN	53.05	80.73	99.82	129.16	148.88	168.68
EK1B OUT	42.25 / 6692.84	65.96 / 6693.83	79.25 / 6694.46	100.04 / 6695.50	112.94 / 6696.20	123.14 / 6696.88
10	42.30	68.33	85.89	115.27	138.02	152.60
8	1.61	15.82	34.40	72.53	103.60	138.56
9	58.52	98.35	131.38	199.90	254.15	311.03
11	61.97	106.44	142.98	215.92	273.19	333.29
12	43.06	71.50	91.85	123.85	145.96	168.43
7	142.52	279.60	393.16	587.34	730.63	878.03
EK1A IN	142.52	279.60	393.16	587.34	730.63	878.03
EK1A OUT	15.27 / 6613.35	18.97 / 6614.97	24.55 / 6616.04	59.83 / 6617.04	94.08 / 6617.69	132.49 / 6618.32
13	15.27	18.97	24.55	59.83	94.08	132.49
14	15.61	19.92	26.53	62.30	97.45	137.18
I25-1 IN	15.61	19.92	26.53	62.30	97.45	137.18
I25-1 OUT	15.60 / 6590.44	19.90 / 6590.64	25.44 / 6590.88	62.15 / 6592.09	96.64 / 6593.02	135.83 / 6594.01
18	15.60	19.90	25.44	62.15	96.64	135.83
15	4.88	8.05	10.29	13.78	16.16	18.56
16	4.71	7.87	10.12	13.64	16.04	18.48
17	4.36	18.46	35.45	68.25	94.34	123.89
I25-2 IN	4.36	18.46	35.46	68.25	94.34	123.89
I25-2 OUT	3.96 / 6599.94	8.59 / 6600.47	14.56 / 6601.07	23.46 / 6602.13	26.42 / 6602.60	29.33 / 6603.13
19	3.96	8.59	14.56	23.46	26.42	29.33

DRAINAGE CONVEYANCE SUMMARY

Conveyance Label	Type	Length ft.	Bottom Width ft.	Slope %	Side Slope H to 1	Manning's N value	Available Depth ft.	Q 5 Yr. cfs	Q 100 Yr. cfs	Q Capacity cfs
C1	36" RCP	2650	3.0	0.0200	N/A	0.013	N/A	10.55	42.84	94.32
C2	48" RCP	1375	4.0	0.0225	N/A	0.013	N/A	39.25	98.20	215.45
C3	GRASSLINED SWALE	3475	6.0	0.0230	3.0	0.035	2.000	1.57	24.70	169.57
C4	54" RCP	1670	4.5	0.0186	N/A	0.013	N/A	56.36	168.19	268.18
C5	54" RCP	450	4.5	0.0200	N/A	0.013	N/A	58.56	181.40	278.09
C6	54" RCP	550	4.5	0.0200	N/A	0.013	N/A	64.46	203.36	278.09
C7	60" RCP	600	5.0	0.0217	N/A	0.013	N/A	74.49	254.17	383.63
C8	GRASSLINED SWALE	1600	20.0	0.0250	3.0	0.035	2.000	71.44	254.44	476.05
C9	GRASSLINED SWALE	1800	6.0	0.0167	3.0	0.035	3.000	4.93	47.25	365.58
C10	CONCRETE CHANNEL	1100	6.0	0.0050	1.5	0.015	5.000	15.34	137.05	1297.29
C11	42" RCP	2200	3.5	0.0177	N/A	0.013	N/A	3.43	29.48	133.85
C12	48" RCP	1050	4.0	0.0062	N/A	0.013	N/A	68.33	152.60	113.10
C13	CONCRETE CHANNEL	1750	6.0	0.0271	1.5	0.015	5.000	97.45	310.36	2191.56
C14	CONCRETE CHANNEL	600	6.0	0.0200	1.5	0.015	5.000	106.23	333.27	1882.71
C15	30" RCP	800	2.5	0.0188	N/A	0.013	N/A	30.97	75.24	56.24
C16	48" RCP	500	4.0	0.0300	N/A	0.013	N/A	71.33	168.10	248.78
C17	GRASSLINED SWALE	520	6.0	0.0200	3.0	0.035	2.000	26.02	69.92	170.49
C18	GRASS / RIPRAP SWALE	700	20.0	0.0257	2.0	0.035	3.000	16.97	132.48	934.14
C19	GRASSLINED SWALE	1850	10.0	0.0189	10.0	0.035	1.500	0.93	11.74	209.13
C20	GRASSLINED SWALE	750	10.0	0.0227	10.0	0.035	2.000	8.94	74.97	432.24
C21	30" RCP	650	2.5	0.0292	N/A	0.013	N/A	7.87	18.48	70.09
C22	GRASSLINED SWALE	1150	6.0	0.0182	2.0	0.035	1.500	6.96	17.56	80.50



EXISTING CONDITIONS - APRIL 2007

DRAINAGE MAP
INTERQUEST SOUTH
2190.00

SHEET 1 OF 1

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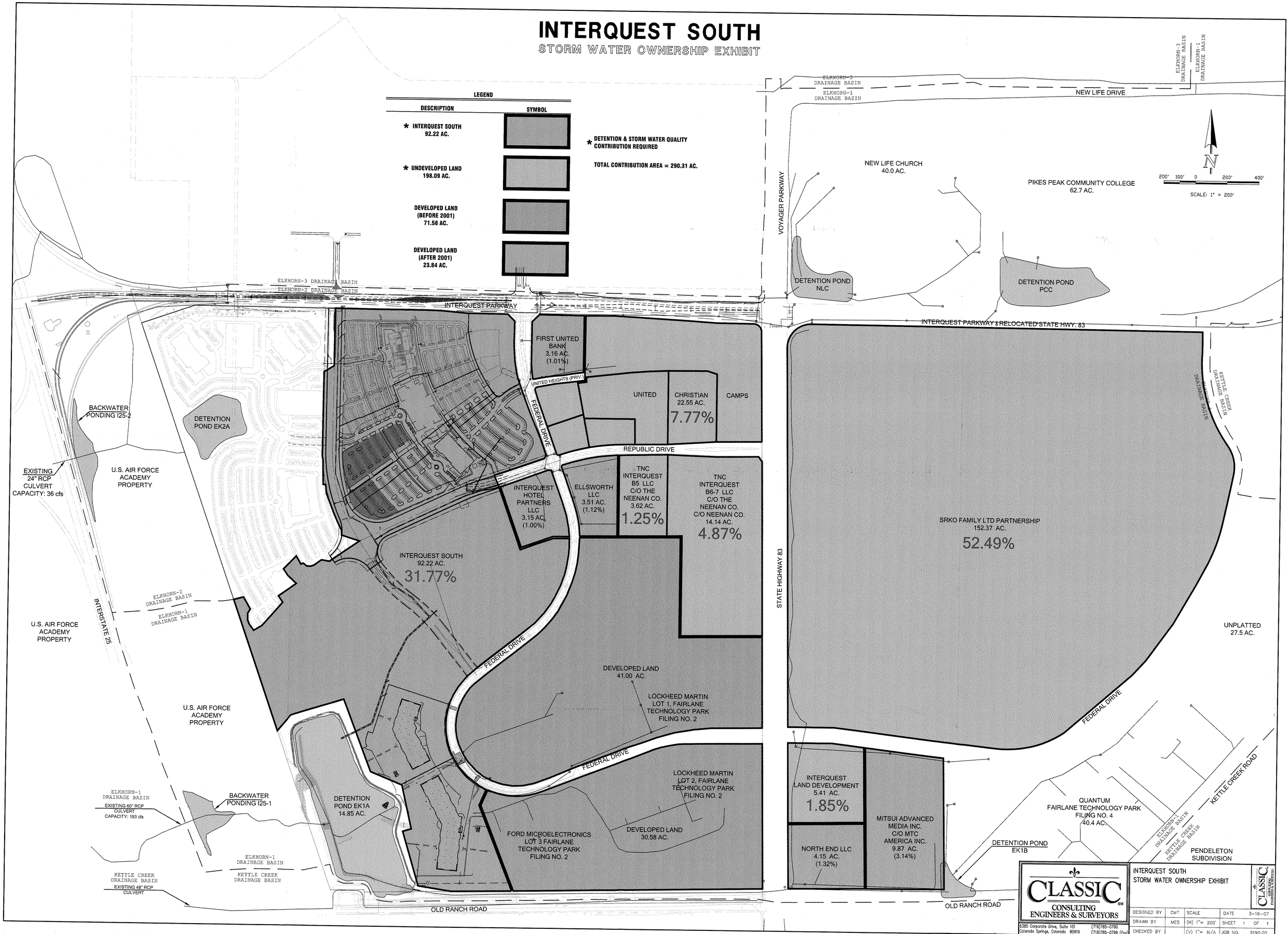
INTERQUEST SOUTH

STORM WATER OWNERSHIP EXHIBIT