

MDDP DRAINAGE BASIN COMPARISON																				
ORIGINAL MDDP ANALYSIS					REVISED ANALYSIS															
BASIN	AREA (ACRES)	WEIGHTED CN	TC (hours)	Q2 (CFS)	Q5 (CFS)	Q10 (CFS)	Q25 (CFS)	Q50 (CFS)	Q100 (CFS)	BASIN	REVISED PER	AREA (ACRES)	WEIGHTED CN	TC (hours)	Q2 (CFS)	Q5 (CFS)	Q10 (CFS)	Q25 (CFS)	Q50 (CFS)	Q100 (CFS)
OS2B	12.40	61.0	0.3774	0.14	1.71	3.56	7.19	10.05	13.24	OS2B	MDDP	12.40	61	0.6700	0.20	1.27	2.79	4.37	7.18	9.32
EX-A	10.50	61.0	0.2956	0.13	1.74	3.57	7.09	9.84	12.83	EX-A	RESERVE	10.60	85	0.4630	9.19	14.66	19.57	23.64	29.94	34.22
EX-B	7.10	79.8	0.1091	6.63	11.21	14.48	19.57	23.05	26.58	EX-B	MDDP	7.10	80	0.1080	7.00	11.66	15.85	19.34	24.73	28.39
EX-C1	0.27	85.7	0.0833	0.64	0.84	0.97	1.17	1.30	1.43	EX-C1	MDDP	0.27	86	0.0833	0.42	0.62	0.80	0.95	1.16	1.31
EX-C2	0.44	85.7	0.0833	0.88	1.22	1.44	1.78	2.00	2.22	EX-C2	MDDP	0.44	86	0.0833	0.68	1.01	1.31	1.54	1.90	2.14
PR-D	11.40	61.0	0.5317	0.12	1.21	2.53	5.17	7.30	9.69	PR-D	MDDP	11.40	61	0.5319	0.20	1.39	3.09	4.81	7.87	10.19
EX-G	1.00	98.0	0.0833	0.71	0.93	1.00	1.30	1.44	1.59	EX-G	MDDP	1.00	98	0.0833	2.46	3.20	3.82	4.31	5.04	5.53
EX-H	1.20	98.0	0.0833	1.70	2.23	2.58	3.11	3.46	3.81	EX-H	MDDP	1.20	98	0.0833	2.96	3.84	4.58	5.17	6.05	6.64
BS-1A	15.40	92.5	0.1575	29.77	41.52	49.34	61.02	68.77	76.49	BS-1A	FILING NO. 9	10.15	93	0.1580	20.53	28.41	35.00	40.27	48.15	53.39
BS-1B	14.30	92.5	0.1575	27.64	38.56	45.82	56.66	63.86	71.02	BS-1B	MDDP	14.30	93	0.1580	28.92	40.03	49.31	56.73	67.84	75.22
BS-1C	15.00	92.5	0.1390	29.31	40.76	48.37	59.72	67.25	74.76	BS-1C	THE FARM	14.80	93	0.2050	28.41	39.49	48.78	56.22	67.37	74.79

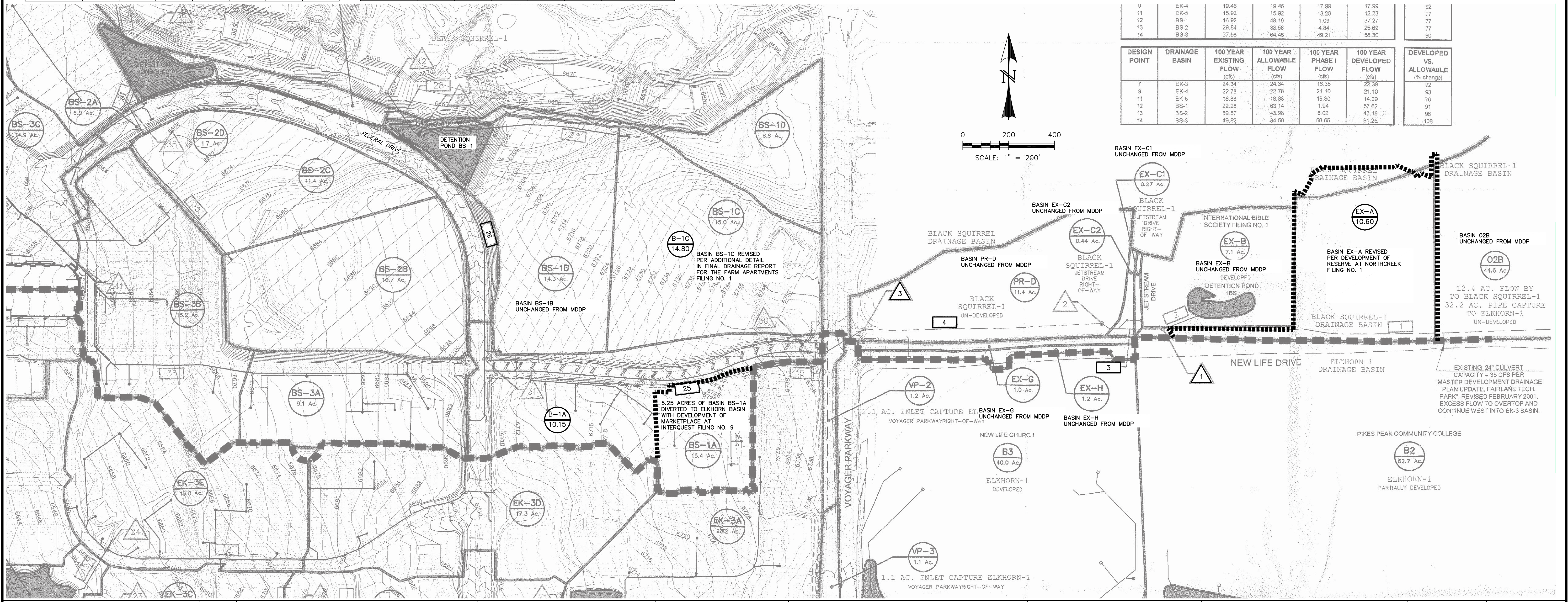
POND BS-1 COMPARISON				
VALUE COMPARISON	MDDP	FDR THE FARM	FDR RESERVE	ALLOWABLE
Q2 IN (CFS)	90.27	80.98	85.40	-
Q2 OUT (CFS)	0.95	2.27	2.21	2.15
Q2 ELEVATION	6672.61	6674.55	6674.29	-
Q5 IN (CFS)	126.40	125.91	122.35	-
Q5 OUT (CFS)	4.67	3.15	2.93	8.42
Q5 ELEVATION	6673.94	6675.94	6675.50	-
Q10 IN (CFS)	150.56	149.14	154.68	-
Q10 OUT (CFS)	9.00	8.49	5.81	17.34
Q10 ELEVATION	6674.43	6676.60	6676.46	-
Q25 IN (CFS)	-	203.00	181.22	-
Q25 OUT (CFS)	-	45.59	21.50	-
Q25 ELEVATION	-	6677.50	6676.66	-
Q50 IN (CFS)	213.15	216.42	221.90	-
Q50 OUT (CFS)	37.27	46.48	47.06	48.19
Q50 ELEVATION	6675.71	6677.76	6677.02	-
Q100 IN (CFS)	239.38	238.68	249.47	-
Q100 OUT (CFS)	57.62	47.89	48.69	63.10
Q100 ELEVATION	6676.16	6678.20	6677.55	-

MDDP DESIGN POINT COMPARISON						
ORIGINAL MDDP ANALYSIS						
DESIGN POINT	Q2 (CFS)	Q5 (CFS)	Q10 (CFS)	Q25 (CFS)	Q50 (CFS)	Q100 (CFS)
1	1.94	4.18	7.07	-	18.32	24.00
3-36" PIPE	-	4.18	-	-	-	24.02
4-CHANNEL	-	4.33	-	-	-	23.87
3	3.30	5.58	9.69	-	25.52	33.57
25-48" PIPE	-	6.71	-	-	-	33.25
26-54" PIPE	-	47.59	-	-	-	95.38
BS-1 IN	90.27	126.40	150.56	-	213.15	239.38
BS-1 OUT	0.95	4.67	9.00	-	37.27	57.62

REVISED ANALYSIS						
DESIGN POINT	Q2 (CFS)	Q5 (CFS)	Q10 (CFS)	Q25 (CFS)	Q50 (CFS)	Q100 (CFS)
1	12.18	20.61	28.49	35.25	46.02	53.53
3-36" PIPE	-	21.9600	-	-	-	56.42
4-CHANNEL	-	21.4300	-	-	-	55.46
3	12.56	21.89	31.14	39.31	52.66	62.19
25-36" PIPE	-	21.8900	-	-	-	62.19
26-48" PIPE	-	45.4600	-	-	-	105.27
BS-1 IN	85.40	122.35	154.68	181.22	221.90	249.47
BS-1 OUT	2.21	2.93	5.81	21.50	47.06	48.69

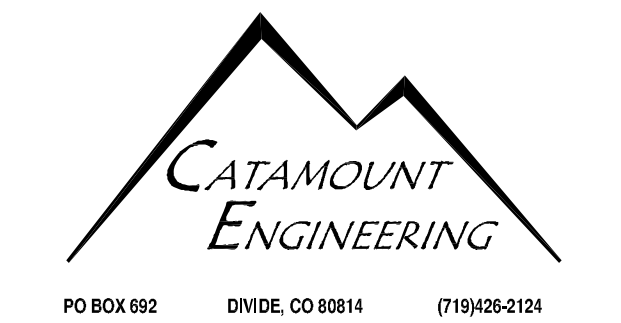
9	EK-4	19.46	19.46	17.99	17.59	92
11	EK-6	15.92	13.29	12.23	12.23	77
12	BS-1	16.92	48.19	1.03	37.27	77
13	BS-2	29.64	33.68	4.84	25.69	77
14	BS-3	37.58	64.46	49.21	58.30	80

DESIGN POINT	DRAINAGE BASIN	100 YEAR EXISTING FLOW (cfs)	100 YEAR ALLOWABLE FLOW (cfs)	100 YEAR PHASE I FLOW (cfs)	100 YEAR DEVELOPED FLOW (cfs)	DEVELOPED VS. ALLOWABLE (% change)
7	EK-3	24.34	24.34	18.35	22.39	92
9	EK-4	22.78	22.78	21.10	21.10	93
11	EK-6	18.89	18.88	15.30	14.29	76
12	BS-1	22.28	63.14	1.94	57.62	91
13	BS-2	39.57	43.98	6.02	43.18	98
14	BS-3	49.62	84.58	68.65	91.25	108



REV.	DESCRIPTION	DATE

PREPARED FOR:
CHALLENGER HOMES
 13530 NORTHGATE ESTATES DRIVE
 COLORADO SPRINGS, CO 80921
 (719) 598-5191



RESERVE AT NORTHCREEK		DESIGNED BY: DLM	DRAWN BY: DLM
MDDP COMPARISON		SCALE: 1"=200'	DATE: 6/13/17
		JOB NUMBER: 15-066	SHEET: 1 OF 1