Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
BEAR CREEK DISTRICT									
BC1.1	BC1.2	100	101.0	400	42	101	40,560	14,196	54,756
BC1.3	BC1.4	192	176.4	700	48	116	80,990	28,347	109,337
BC1.5	BC1.6	291	319.2	400	60	152	60,840	21,294	82,134
BC1.7	BC1.8	50	82.1	1300	36	77	99,710	34,899	134,609
BC1.9	BC1.10	70	82.1	800	36	77	61,360	21,476	82,836
BC1.10	BC1.13	108	101.0	400	42	101	40,560	14,196	54,756
BC1.11	BC1.13	36	67.0	800	36	77	61,360	21,476	82,836
BC1.12	BC1.13	33	50.5	800	30	56	44,720	15,652	60,372
BC1.13	BC-P1.10	224	197.0	1300	54	139	180,830	63,291	244,121
BC1.15	BC1.16	37	58.3	1200	30	56	67,080	23,478	90,558
BC1.16	BC1.17	72	94.8	2100	36	77	161,070	56,375	217,445
BC1.17	BC-P1.11	522	610.0	500	CHAN	22	11,000	3,850	14,850
BC1.18	BC-P1.11	39	58.3	600	30	56	33,540	11,739	45,279
BC-P1.11	BC1.19	704	379.2	600	54	139	83,460	29,211	112,671
BC1.20	BC1.21	33	50.5	800	30	56	44,720	15,652	60,372
BC1.21	BC1.22	56	82.1	1200	36	77	92,040	32,214	124,254

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
BC1.22	BC-P1.12	99	142.8	700	42	101	70,980	24,843	95,823
BC-P1.12	BC1.19	160	49.3	500	30	56	27,950	9,783	37,733
BC1.19	BC1.23	864	430.0	900	CHAN	22	19,800	6,930	26,730
BC1.24	BC-P1.15	32	50.5	900	30	56	50,310	17,609	67,919
BC1.25	BC1.26	46	67.0	600	36	77	46,020	16,107	62,127
BC1.26	BC-P1.15	86	123.7	900	42	101	91,260	31,941	123,201
BC-P1.15	BC-P1.15b	156	123.7	400	42	101	40,560	14,196	54,756
BC1.28	BC1.30	44	67.0	600	36	77	46,020	16,107	62,127
BC1.29	BC1.30	45	67.0	300	36	77	23,010	8,054	31,064
BC1.30	BC1.31	111	123.7	1200	42	101	121,680	42,588	164,268
BC1.31	BC1.32	152	176.4	700	48	116	80,990	28,347	109,337
BC1.32	BC-P1.21	193	260.7	200	60	152	30,420	10,647	41,067
BC-P1.21	BADGER RUN	241	70.7	200	36	77	15,340	5,369	20,709
BC1.34	BC-P1.18	38	58.3	800	30	56	44,720	15,652	60,372
BC1.35	BC1.36	32	61.2	1300	30	56	72,670	25,435	98,105
BC1.36	BC1.38	70	94.8	700	36	77	53,690	18,792	72,482
BC1.37	BC1.38	33	65.2	1300	30	56	72,670	25,435	98,105

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
BC1.38	BC-P1.23	131	164.2	600	48	116	69,420	24,297	93,717
BC-P1.23	BC-P1.23b	149	90.0	200	36	77	15,340	5,369	20,709
BC-P1.23b	BADGER RUN	150	60.9	200	30	56	11,180	3,913	15,093
BC1.40	BC1.42	38	65.2	1500	30	56	83,850	29,348	113,198
BC1.41	BC1.42	36	64.1	600	30	56	33,600	11,760	45,360
BC1.42	BC1.43	60	101.0	700	42	101	70,980	24,843	95,823
BC1.43	BC1.44	106	209.0	600	54	139	83,460	29,211	112,671
BC1.44	BC-P1.24	115	270.0	900	CHAN	22	19,800	6,930	26,730
BC1.46	BC-P1.25	96	241.0	500	54	139	69,550	24,343	93,893
BC2.1	BC2.2	50	71.5	600	30	56	33,540	11,739	45,279
BC2.2	BC2.3	108	149.8	700	42	101	70,980	24,843	95,823
BC2.3	BC2.4	142	203.7	1000	48	116	115,700	40,495	156,195
BC2.4	BC-P2.8	191	241.3	1500	54	139	208,650	73,028	281,678
BC2.5	BC-P2.8	37	59.9	800	36	77	61,360	21,476	82,836
BC-P2.8	BEAR CREEK	301	175.6	200	48	116	23,140	8,099	31,239
BC2.7	BC-P2.7a	38	58.3	1100	30	56	61,600	21,560	83,160
BC-P2.7a	BC2.9	105	16.0	1500	18	23	35,100	12,285	47,385

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
BC2.8	BC-P2.6	44	82.1	1300	36	77	99,710	34,899	134,609
BC-P2.6	BC2.9	116	15.3	900	18	23	21,060	7,371	28,431
BC2.9	BC2.11	78	144.0	800	48	116	92,560	32,396	124,956
BC2.10	BC2.11	30	50.5	600	30	56	33,540	11,739	45,279
BC2.11	BC-P2.7	376	260.7	500	60	152	76,050	26,618	102,668
BC-P2.7	BEAR CREEK	437	175.4	300	42	101	30,420	10,647	41,067
BC1.12	BC1.13	40	59.9	600	36	77	46,020	16,107	62,127
BC1.13	BC-P2.12	62	90.3	800	42	101	81,120	28,392	109,512
BC1.14	BC1.15	38	58.3	800	30	56	44,720	15,652	60,372
BC1.15	BC-P2.12	47	67.0	300	36	77	23,010	8,054	31,064
BC-P2.12	BEAR CREEK	140	94.1	600	18	23	14,040	4,914	18,954
BC2.18	BC2.19	48	71.4	300	42	101	30,420	10,647	41,067
BC2.19	BC2.20	69	101.8	700	48	116	80,990	28,347	109,337
BC2.20	BC-P2.15	99	139.3	600	54	139	83,460	29,211	112,671
BC-P2.15	BEAR CREEK	138	94	200	18	23	4,680	1,638	6,318
BC-P2.16a	BC2.22	74	13.7	500	12	19	9,500	3,325	12,825
BC2.22	BC2.23	110	19.6	1200	21	42	50,400	17,640	68,040

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
BC2.23	BC2.24	150	27.9	1300	24	44	57,460	20,111	77,571
BC2.24	BC2.25	206	241.3	1000	54	139	139,100	48,685	187,785
BC2.25	BC-P2.16	325	319.3	400	60	152	60,840	21,294	82,134
BC-P2.16	BEAR CREEK	392	195.2	200	48	116	23,140	8,099	31,239

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
CASCADE CREEK DISTRICT									
CC1.1	CC1.2	52	71.5	1000	30	56	55,900	19,565	75,465
CC1.2	CC1.3	85	116.1	700	36	77	53,690	18,792	72,482
CC1.3	Cascade Creek	110	142.8	400	42	101	40,560	14,196	54,756
CC1.4	CC1.5	52	71.5	1100	30	56	61,490	21,522	83,012
CC1.5	Cascade Creek	95	116.1	1000	36	77	76,700	26,845	103,545
CC1.7	CC1.9	67	94.8	700	36	77	53,690	18,792	72,482
CC1.8	CC1.9	39	58.3	1200	30	56	67,080	23,478	90,558
CC1.9	CC-P1.4	95	203.7	1100	48	116	127,270	44,545	171,815
CC-P1.4	Cascade Creek	250	78.9	600	36	77	46,020	16,107	62,127
CC1.10	CC-P1.5a	52	71.5	900	30	56	50,310	17,609	67,919
CC-P1.5a	Cascade Creek	138	30.1	200	24	44	8,840	3,094	11,934
CC1.11	Cascade Creek	65	58.3	700	30	56	39,130	13,696	52,826
CC1.12	CC1.13	46	65.2	800	30	56	44,720	15,652	60,372
CC1.13	CC-P1.5b	68	94.8	500	36	77	38,350	13,423	51,773
CC-P1.5b	Cascade Creek	111	16.3	200	24	44	8,840	3,094	11,934

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
CC2.1	CC2.2	15	50.5	800	30	56	44,720	15,652	60,372
CC2.2	CC2.4	29	101.0	800	42	101	81,120	28,392	109,512
CC2.3	CC2.4	16	50.5	600	30	56	33,540	11,739	45,279
CC2.4	CC-P2.6a	78	260.7	1200	60	152	182,520	63,882	246,402
CC-P2.6a	CB-cascade Ck	162	94.2	200	36	77	15,340	5,369	20,709
CC2.5	CC2.6	15	50.5	600	30	56	33,540	11,739	45,279
CC2.6	CC-P2.6b	37	123.7	500	42	101	50,700	17,745	68,445
CC-P2.6b	CB-cascade Ck	63	31.0	200	24	44	8,840	3,094	11,934
CC2.8	CC2.9	78	89.9	1700	36	77	130,390	45,637	176,027
CC2.9	CC-P2.7	130	135.5	1100	42	101	111,540	39,039	150,579
CC-P2.7	CB-cascade Ck	482	263.6	100	60	152	15,210	5,324	20,534
CC2.10	CC2.11	28	42.0	300	30	56	16,770	5,870	22,640
CC2.11	CC2.12	37	71.4	500	42	101	50,700	17,745	68,445
CC2.12	CC-P2.7	72	101.8	1500	48	116	173,550	60,743	234,293
CC2.31	CC2.32	30	50.5	500	30	56	28,000	9,800	37,800
CC2.32	CC2.33	52	82.1	625	36	77	48,125	16,844	64,969

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
CC2.33	CC2.34	95	123.7	450	42	101	45,450	15,908	61,358
CC2.34	CC2.20	106	176.4	525	48	116	60,900	21,315	82,215
CC3.1	CC3.2	38	58.3	800	30	56	44,720	15,652	60,372
CC3.2	CC3.3	64	94.8	1100	36	77	84,370	29,530	113,900
CC3.4	CC3.6	37	58.3	600	30	56	33,540	11,739	45,279
CC3.5	CC3.6	38	58.3	1300	30	56	72,670	25,435	98,105
CC3.6	CHAN	125	241.3	150	54	139	20,865	7,303	28,168
CC3.7	CC3.8	45	65.2	600	30	56	33,540	11,739	45,279
CC3.8	CC3.9	104	123.7	800	36	77	61,360	21,476	82,836
CC3.9	CC3.10	172	241.3	150	54	139	20,865	7,303	28,168
CC3.12	CC3.14	39	58.3	500	30	56	27,950	9,783	37,733
CC3.13	CC3.14	39	58.3	500	30	56	27,950	9,783	37,733
CC3.14	CC3.15	95	142.8	1400	42	101	141,960	49,686	191,646
CC3.15	CC3.15a	125	144.0	1050	48	116	121,485	42,520	164,005
CC3.15a	CC-P3.4	140	174.0	800	54	139	111,200	38,920	150,120
CC-P3.4	CC3.16	177	33.8	1000	24	44	44,200	15,470	59,670

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
CC3.18	CC3.19	16	50.5	700	30	56	39,130	13,696	52,826
CC3.19	CC3.20	32	101.0	400	42	101	40,560	14,196	54,756
CC3.20	CC3.22	63	197.0	1000	54	139	139,100	48,685	187,785
CC3.21	CC3.22	18	58.3	600	30	56	33,540	11,739	45,279
CC3.22	CC3.23	98	278.6	400	54	139	55,640	19,474	75,114
CC3.23	CC3.27	118	292.4	700	CHAN	22	15,400	5,390	20,790
CC3.24	CHAN	16	50.5	500	30	56	27,950	9,783	37,733
CC3.25	CC3.26	16	50.5	600	30	56	33,540	11,739	45,279
CC3.26	CC3.27	28	82.1	400	36	77	30,680	10,738	41,418
CC3.27	CC-P3.6	320	292.4	1500	CHAN	22	33,000	11,550	44,550
CC4.1	CC4.2	96	99.1	1200	42	101	121,200	42,420	163,620
CC4.3	CC4.4	150	266.5	1700	54	139	236,300	82,705	319,005
CC4.32	CC-P4.2a	31	51.1	700	30	56	39,130	13,696	52,826

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
HADLEY VALLEY DISTRICT									
HV1.1	HV1.2	39	69	650	30	56	36,335	12,717	49,052
HV1.3	HV1.4	66	116.1	675	36	77	51,773	18,120	69,893
HV1.5	HV1.7	47	69	650	30	56	36,335	12,717	49,052
HV1.6	HV1.7	50	71.5	650	30	56	36,335	12,717	49,052
HV1.7	HV-P1.5	126	159.6	1200	42	101	121,680	42,588	164,268
HV1.8	HV1.9	31	58.3	575	30	56	32,143	11,250	43,392
HV1.12	HV-P1.5	29	65.2	875	30	56	48,913	17,119	66,032
HV1.13	HV1.14	66	94.8	1000	36	77	76,700	26,845	103,545
HV1.14	HV-P1.5	88	123.7	650	42	101	65,910	23,069	88,979
HV1.17	HV1.18	22	41.3	700	30	56	39,130	13,696	52,826
HV1.18	HV1.19	42	94.8	550	36	77	42,185	14,765	56,950
HV1.24	HV1.25	42	65.2	700	30	56	39,130	13,696	52,826
HV1.25	HV1.26	75	99.4	1000	36	77	76,700	26,845	103,545
HV1.28	HV-P1.6a	39	65.2	575	30	56	32,143	11,250	43,392
HV1.30	HV-P1.6b	48	71.5	800	30	56	44,720	15,652	60,372

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
HV1.32	HV1.33	45	65.2	450	30	56	25,155	8,804	33,959
HV1.33	HV1.34	61	105.9	500	36	77	38,350	13,423	51,773
HV1.35	HV1.36	30	55.3	400	30	56	22,360	7,826	30,186
HV1.37	HV1.38	89	123.7	650	42	101	65,910	23,069	88,979
HV1.38	HV1.41	131	159.6	500	42	101	50,700	17,745	68,445
HV1.39	HV1.40	53	71.5	500	30	56	27,950	9,783	37,733
HV1.40	HV1.41	68	94.8	650	36	77	49,855	17,449	67,304
HV1.41	HV-P1.7a	240	292.2	400	54	139	55,640	19,474	75,114
HV1.43	HV1.44	50	71.5	800	30	56	44,720	15,652	60,372
HV1.47	HV1.48	32	50.5	400	30	56	22,360	7,826	30,186
HV1.48	HV1.49	60	82.1	600	36	77	46,020	16,107	62,127
HV1.49	HV-P1.8a	100	123.7	450	42	101	45,630	15,971	61,601
HV1.50	HV-P1.8b	33	52.2	425	30	56	23,758	8,315	32,073
HV1.51	HV1.52	37	65.2	500	30	56	27,950	9,783	37,733
HV1.52	HV1.57	56	80.1	1200	36	77	92,400	32,340	124,740
HV1.55	HV1.56	36	67.8	550	30	56	30,745	10,761	41,506

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
HV1.56	HV1.57	48	99.4	475	36	77	36,433	12,751	49,184
HV1.57	HV-P1.11	149	149.8	1100	CHAN	40	44,000	15,400	59,400
HV1.59	HV1.60	31	50.5	900	30	56	50,310	17,609	67,919
HV1.60	HV-P1.13	53	73.4	500	36	77	38,350	13,423	51,773

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
KINGS RUN DISTRICT									
KR1.1	KR1.3	39	58.3	1100	30	56	61,490	21,522	83,012
KR1.2	KR1.3	38	58.3	925	30	56	51,708	18,098	69,805
KR1.3	KR-P1.3	97	132.2	275	42	101	27,885	9,760	37,645
KR1.4	KR1.5	36	55.3	725	30	56	40,528	14,185	54,712
KR1.5	KR1.6	66	89.9	600	36	77	46,020	16,107	62,127
KR1.7	KR1.8	43	65.2	725	30	56	40,528	14,185	54,712
KR1.8	KR-P1.5	76	99.4	650	36	77	49,855	17,449	67,304
KR1.9	KR1.10	30	50.5	650	30	56	36,335	12,717	49,052
KR1.10	KR-P1.6	60	82.1	700	36	77	53,690	18,792	72,482
KR-P1.10	KR1.13	67	16.1	900	18	23	21,060	7,371	28,431
KR1.13	KR1.15	42	94.8	1200	36	77	92,040	32,214	124,254
KR1.14	KR-P1.11	43	63.9	1125	30	56	62,888	22,011	84,898
KR1.15	KR-P1.11	69	105.9	900	42	101	91,260	31,941	123,201
KR1.17	KR1.18	25	41.3	575	30	56	32,143	11,250	43,392
KR1.18	KR1.19	43	67.0	500	36	77	38,350	13,423	51,773

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
KR1.19	KR1.20	82	142.8	600	42	101	60,840	21,294	82,134
KR1.21	KR-P1.7	90	105.9	675	42	101	68,445	23,956	92,401
KR1.22	KR-P1.7	44	46.5	600	30	56	33,600	11,760	45,360
KR1.24	KR1.25	36	58.3	725	30	56	40,528	14,185	54,712
KR1.25	KR1.26	60	82.1	525	36	77	40,268	14,094	54,361
KR1.27	KR1.28	26	43.3	625	30	56	34,938	12,228	47,166
KR1.28	KR-P1.4	42	67.0	700	36	77	53,690	18,792	72,482
KR1.29	KR1.30	26	43.3	500	30	56	27,950	9,783	37,733
KR1.31	KR1.32	24	42.1	800	30	56	44,800	15,680	60,480
KR1.33	KR1.34	40	59.8	1175	30	56	65,683	22,989	88,671
KR1.34	KR1.35	66	94.8	600	36	77	46,020	16,107	62,127
KR1.35	KR1.39	82	123.7	450	42	101	45,630	15,971	61,601
KR1.36	KR1.37	36	55.3	575	30	56	32,143	11,250	43,392
KR1.37	KR1.38	62	89.9	500	36	77	38,350	13,423	51,773
KR1.40	KR1.41	33	58.3	550	30	56	30,745	10,761	41,506
KR1.42	KR1.43	36	55.3	800	30	56	44,720	15,652	60,372

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
KR1.45	KR1.46	45	62.5	825	30	56	46,118	16,141	62,259
KR1.46	KR1.47	73	94.8	550	36	77	42,185	14,765	56,950
KR1.47	KR-P1.18	103	135.5	775	42	101	78,585	27,505	106,090
KR1.49	KR-P1.18	38	58.3	400	30	56	22,360	7,826	30,186
KR1.52	KR1.53	22	45.2	600	30	56	33,540	11,739	45,279
KR1.53	KR-P1.17	32	73.4	400	36	77	30,680	10,738	41,418
KR1.54	KR1.55	37	73.4	550	36	77	42,185	14,765	56,950
KR1.55	KR-P1.17	72	144.0	1200	48	116	138,840	48,594	187,434
KR2.1	KR-P2.1b	16	41.3	550	30	56	30,745	10,761	41,506
KR2.2	KR2.5	15	41.3	400	30	56	22,360	7,826	30,186
KR2.5	KR-P2.1b	23	73.4	500	36	77	38,350	13,423	51,773
KR2.3	KR2.4	20	41.3	600	30	56	33,540	11,739	45,279
KR2.4	KR-P2.2	35	67.0	700	36	77	53,690	18,792	72,482
KR2.6	KR2.7	16	40.9	725	30	56	40,600	14,210	54,810
KR2.8	KR2.9	21	58.3	475	30	56	26,553	9,293	35,846
KR2.9	KR2.10	36	94.8	550	36	77	42,185	14,765	56,950

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
KR2.10	KR-P3.2	53	135.5	500	42	101	50,700	17,745	68,445
KR2.11	KR-P2.1b	25	45.2	375	30	56	20,963	7,337	28,299
KR2.12	KR-P2.1b	38	58.3	600	30	56	33,540	11,739	45,279
KR2.15	KR2.16	33	58.3	725	30	56	40,528	14,185	54,712
KR2.16	KR-P2.8a	101	127.7	500	42	101	50,700	17,745	68,445
KR2.17	KR-P2.8a	31	50.5	275	30	56	15,373	5,380	20,753
KR2.19	KR2.20	33	58.3	600	30	56	33,540	11,739	45,279
KR2.20	KR-P2.9a	44	89.9	250	36	77	19,175	6,711	25,886
KR2.21	KR-P2.9a	30	41.3	625	30	56	34,938	12,228	47,166
KR-P2.9a	KR2.23	106	35.7	600	24	44	26,520	9,282	35,802
KR2.23	KR-P2.9b	20	58.3	725	30	56	40,528	14,185	54,712
KR-P2.8b	KR-P2.9b out	226	61.1	800	30	56	44,800	15,680	60,480
KR-P2.9b out	KR2.34	177	128.1	600	48	116	69,600	24,360	93,960
KR-P2.13a	KR2.24	130	63.9	500	30	56	27,950	9,783	37,733
KR2.24	KR2.25	15	50.5	900	30	56	50,310	17,609	67,919
KR2.25	KR-P2.13b	61	82.1	400	36	77	30,680	10,738	41,418

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
KR2.28	KR-P2.13b	35	55.3	675	30	56	37,733	13,206	50,939
KR-P2.13b	KR-P2.13c	301	204.1	950	42	101	95,950	33,583	129,533
KR2.30	KR2.31	32	67.0	1000	36	77	76,700	26,845	103,545
KR2.32	KR2.33	21	47.2	550	36	77	42,185	14,765	56,950
KR2.33	KR-P2.7	115	144.0	300	48	116	34,710	12,149	46,859

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
SILVER CREEK DISTRICT									
SC1.1	SC1.2	41	58.3	625	30	56	34,938	12,228	47,166
SC1.6	SC1.7	82	123.7	500	42	101	50,700	17,745	68,445
SC1.9	SC1.10	44	73.4	700	36	77	53,690	18,792	72,482
SC1.10	SC1.11	94	127.7	950	42	101	96,330	33,716	130,046
SC1.11	SC1.12	148	176.4	700	48	116	80,990	28,347	109,337
SC1.14	SC1.15	32	50.5	600	30	56	33,540	11,739	45,279
SC1.16	SC1.17	36	55.3	575	30	56	32,143	11,250	43,392
SC1.17	SC1.18	67	105.9	725	36	77	55,608	19,463	75,070
SC1.18	SC1.19	88	112.1	925	36	77	70,948	24,832	95,779
SC1.20	SC1.21	42	69.0	725	30	56	40,528	14,185	54,712
SC1.24	SC1.27	33	58.3	550	30	56	30,745	10,761	41,506
SC1.25	SC1.26	39	65.2	750	30	56	41,925	14,674	56,599
SC1.26	SC1.27	50	105.9	575	36	77	44,103	15,436	59,538

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
SC1.27	SC1.28	124	159.6	550	42	101	55,770	19,520	75,290
SC1.30	SC-P1.9a	37	65.2	525	30	56	29,348	10,272	39,619
SC-P1.9a	SC1.31	82	24.9	525	18	23	12,285	4,300	16,585
SC1.35	SC1.36	39	79.3	1200	36	77	92,040	32,214	124,254
SC1.39	SC1.40	45	56.2	675	30	56	37,733	13,206	50,939
SC1.40	SC1.41	59	99.4	600	36	77	46,020	16,107	62,127
SC1.41	SC1.42	85	123.7	325	42	101	32,955	11,534	44,489
SC1.43	SC1.44	62	116.1	675	36	77	51,773	18,120	69,893
SC1.47	SC1.48	48	7.2	675	30	56	37,733	13,206	50,939
SC1.49	SC1.50	56	94.8	900	36	77	69,030	24,161	93,191
SC1.50	SC1.51	73	135.5	775	42	101	78,585	27,505	106,090
SC1.52	SC1.53	118	32.4	750	CHAN	22	16,500	5,775	22,275
SC1.54	SC1.55	39	69.0	800	30	56	44,720	15,652	60,372
SC1.58	SC1.59	44	99.4	1050	36	77	80,535	28,187	108,722
SC1.62	SC1.63	33	50.5	800	30	56	44,720	15,652	60,372
SC1.63	CP-10	64	82.1	475	36	77	36,433	12,751	49,184

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
CP-10	EP-16	75	12.6	1050	15	27	28,350	9,923	38,273
EP-14	EP-16	46	3.5	1900	12	25	47,500	16,625	64,125
EP-15	EP-16	100	3.1	1400	12	25	35,000	12,250	47,250

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
WILLOW CREEK DISTRICT									
WC1.1	WC1.2	40	58.3	800	30	56	44,720	15,652	60,372
WC1.2	WC-P1.8	70	94.8	600	36	77	46,020	16,107	62,127
WC1.3	WC-P1.8	17	58.3	1000	30	56	55,900	19,565	75,465
WC1.5	WC1.4	45	65.2	1300	30	56	72,670	25,435	98,105
WC1.6	WC1.4	39	58.3	900	30	56	50,310	17,609	67,919
WC1.7	WC1.8	40	58.3	500	30	56	27,950	9,783	37,733
WC1.8	WC-P1.9	75	94.8	1000	36	77	76,700	26,845	103,545
WC1.9	WC-P1.9	51	71.5	800	30	56	44,720	15,652	60,372
WC-P2.1	WC2.1	254	69.1	300	30	56	16,770	5,870	22,640
WC2.2	WC2.3	50	71.5	1400	30	56	78,260	27,391	105,651
WC2.3	WC2.4	75	94.8	500	36	77	38,350	13,423	51,773
WC2.5	WC2.6	38	65.2	600	30	56	33,540	11,739	45,279
WC2.6	WC-P2.3	95	139.3	200	54	139	27,820	9,737	37,557
WC2.7	EB WILLOW	152	25.0	300	CHAN	22	6,600	2,310	8,910
WC2.9	WC2.10	101	174.9	1200	42	101	121,680	42,588	164,268

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
WC2.10	WC-P2.4	150	203.7	900	48	116	104,130	36,446	140,576
WC-P2.4	EB WILLOW	260	97.3	200	36	77	15,340	5,369	20,709
WC2.12	WC-P2.5	38	67.0	900	36	77	69,030	24,161	93,191
WC2.13	WC-P2.5	45	176.2	200	48	116	23,140	8,099	31,239
WC2.14	EB WILLOW	105	25.0	400	CHAN	22	8,800	3,080	11,880
WC2.16	WC2.17	42	65.2	800	30	56	44,720	15,652	60,372
WC2.17	WC2.18	80	105.9	1000	36	77	76,700	26,845	103,545
WC2.18	WC2.20	129	159.6	700	42	101	70,980	24,843	95,823
WC2.19	WC2.20	42	65.2	1100	30	56	61,490	21,522	83,012
WC2.20	WC-P2.7	218	278.6	400	54	139	55,640	19,474	75,114
WC-P2.7	WC2.22	321	40.8	700	24	44	30,940	10,829	41,769
WC2.21	WC2.22	37	58.2	400	30	56	22,360	7,826	30,186
WC2.22	WC-P2.8	67	142.1	800	42	101	81,120	28,392	109,512
WC2.24	WC2.25	42	65.1	600	30	56	33,540	11,739	45,279
WC-P2.9	WC2.26	233	47.1	900	30	56	50,310	17,609	67,919
WC3.1	WC3.2	24	115.0	1600	CHAN	22	35,200	12,320	47,520

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
WC3.2	WC3.3	46	205.0	800	CHAN	22	17,600	6,160	23,760
WC3.4	WC3.5	24	65.2	500	30	56	27,950	9,783	37,733
WC3.5	WC3.6	39	105.9	500	36	77	38,350	13,423	51,773
WC3.6	WC-P3.2	55	159.6	400	42	101	40,560	14,196	54,756
WC3.7	WC-P3.9	31	47.0	900	30	56	50,400	17,640	68,040
WC3.8	WC3.9	39	58.3	600	30	56	33,540	11,739	45,279
WC3.9	WC3.10	62	94.8	500	36	77	38,350	13,423	51,773
WC3.10	WC3.12	103	142.8	800	42	101	81,120	28,392	109,512
WC3.11	WC3.12	174	195.2	800	E CHAN	22	17,600	6,160	23,760
WC3.12	WC3.13	277	338.0	600	E CHAN	22	13,200	4,620	17,820
WC3.14	WC3.15	39	58.3	900	30	56	50,310	17,609	67,919
WC3.15	WC3.16	57	94.8	400	36	77	30,680	10,738	41,418
WC3.16	WC3.17	92	142.8	500	42	101	50,700	17,745	68,445
WC3.17	WC-P3.3	148	203.7	700	48	116	80,990	28,347	109,337
WC3.19	WC3.20	26	71.5	700	30	56	39,130	13,696	52,826
WC3.20	WC3.21	42	116.1	400	36	77	30,680	10,738	41,418

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
WC3.21	WC-P3.6	70	203.7	500	48	116	57,850	20,248	78,098
WC3.22	WC3.23	28	50.5	800	30	56	44,720	15,652	60,372
WC3.23	WC3.24	48	67.0	600	36	77	46,020	16,107	62,127
WC3.24	WC-P3.6	101	123.7	200	42	101	20,280	7,098	27,378
WC3.26	WC3.28	10	29.2	600	30	56	33,540	11,739	45,279
WC3.27	WC3.28	20	58.3	500	30	56	27,950	9,783	37,733
WC3.28	WC-P3.7	57	159.6	300	42	101	30,420	10,647	41,067
WC2.29	WC2.30	18	50.5	500	30	56	27,950	9,783	37,733
WC2.30	WC2.31	30	82.1	1000	36	77	76,700	26,845	103,545
WC2.31	WC2.32	45	123.7	500	42	101	50,700	17,745	68,445
WC3.34	WC-P3.11	40	67.0	1200	36	77	92,040	32,214	124,254
WC3.35	WC3.36	35	50.5	1000	30	56	55,900	19,565	75,465
WC3.36	WILLOW CK	47	71.5	600	30	56	33,540	11,739	45,279
WC4.1	WC-P4.9	19	67.0	1100	36	77	84,370	29,530	113,900
WC4.2	WC-P4.9	23	67.0	700	36	77	53,690	18,792	72,482
WC4.3	WC4.4	22	65.2	800	30	56	44,720	15,652	60,372

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
WC4.4	WC-P4.10	49	159.6	600	42	101	60,840	21,294	82,134
WC4.5	WC4.6	59	104.2	1400	36	77	107,800	37,730	145,530
WC5.1	WC5.2	45	65.2	800	30	56	44,720	15,652	60,372
WC5.2	WILLOW CK	81	105.9	900	36	77	69,030	24,161	93,191
WC5.3	WC5.4	35	67.0	900	36	77	69,030	24,161	93,191
WC5.4	WC5.5	81	101.0	800	42	101	81,120	28,392	109,512
WC5.5	WILLOW CK	97	144.0	300	48	116	34,710	12,149	46,859
WC5.6	WILLOW CK	37	55.3	1000	30	56	56,000	19,600	75,600
WC5.8	WC-P5.12	61	192.2	800	CHAN	22	17,600	6,160	23,760
WC5.9	WC-P5.12	84	252.0	700	CHAN	22	15,400	5,390	20,790
WC6.1	WC6.2	32	50.5	800	30	56	44,720	15,652	60,372
WC6.3	WC6.4	35	58.3	500	30	56	27,950	9,783	37,733
WC6.4	WC-P6.2	62	101.0	500	42	101	50,700	17,745	68,445
WC6.5	WC-P6.2	20	50.5	400	30	56	22,360	7,826	30,186
WC-P6.2	WC6.6	126	20.2	500	18	23	11,700	4,095	15,795
WC6.7	WC6.8	22	41.3	500	30	56	27,950	9,783	37,733

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
WC6.8	WC6.9	30	67.0	300	36	77	23,010	8,054	31,064
WC6.10	WC6.11	28	82.1	600	36	77	46,020	16,107	62,127
WC6.12	WC6.16	32	50.5	1300	30	56	72,670	25,435	98,105
WC6.13	WC6.15	18	82.1	600	36	77	46,020	16,107	62,127
WC6.14	WC6.15	20	58.3	400	30	56	22,360	7,826	30,186
WC6.15	WC6.16	50	135.5	500	42	101	50,700	17,745	68,445
WC6.16	WC6.17	110	349.8	400	60	152	60,840	21,294	82,134
WC6.17	WC6.18	130	349.8	500	60	152	76,050	26,618	102,668
WC6.18	WC-P6.5	155	411.5	700	66	170	119,000	41,650	160,650
WC6.19	WC-P6.5	18	50.5	400	30	56	22,360	7,826	30,186
WC6.20	WC-P6.1	30	45.3	700	30	56	39,200	13,720	52,920
WC6.21	WC6.22	27	67.0	600	36	77	46,020	16,107	62,127
WC6.22	WC-P6.10	56	144.0	900	48	116	104,130	36,446	140,576
WC6.23	WC-P6.10	471	256.3	200	CHAN	22	4,400	1,540	5,940
WC-P6.10	WILLOW CK	180	138.2	200	48	116	23,140	8,099	31,239
WC6.26	WC-P6.12	310	300.0	200	CHAN	22	4,400	1,540	5,940

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
WC6.28	WC-P6.12	59	177.4	1300	CHAN	22	28,600	10,010	38,610
WC6.29	WC-P6.13	139	423.9	1900	CHAN	22	41,800	14,630	56,430
WC6.30	WC6.31	24	45.2	400	30	56	22,360	7,826	30,186
WC6.31	WC6.32	46	82.1	1100	36	77	84,370	29,530	113,900
WC6.32	WC6.33	87	123.7	600	42	101	60,840	21,294	82,134
WC6.33	WC-P6.4	106	144.0	700	48	116	80,990	28,347	109,337

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
S.F. ZUMBRO RIVER DISTRICT									
ZR-1.1	ZR1.2	22	36.9	325	30	56	18,168	6,359	24,526
ZR1.2	ZR-P1.7a	34	59.9	1000	36	77	76,700	26,845	103,545
ZR1.3	ZR-P1.7a	64	90.3	650	42	101	65,910	23,069	88,979
ZR-P1.7a	ZR1.4	145	57.2	800	18	23	18,720	6,552	25,272
ZR1.4	ZR1.19	15+P1.7		1150	0	14	16,100	5,635	21,735
ZR-P1.7b	ZR1.9			300	0	14	4,200	1,470	5,670
ZR1.5	ZR1.7	21	41.3	800	30	56	44,720	15,652	60,372
ZR1.6	ZR1.9	34	67.0	475	36	77	36,433	12,751	49,184
ZR1.9	ZR-P1.7b	51	110.6	400	42	101	40,560	14,196	54,756
ZR1.7	ZR-P1.7b	81	110.6	625	42	101	63,375	22,181	85,556
ZR1.8	ZR-P1.7b	31	67.0	1000	36	77	76,700	26,845	103,545
ZR-P1.7b	ZR1.19	192	67.2	125	24	44	5,525	1,934	7,459
ZR1.19	ZR1.20	201	128.8	200	48	116	23,140	8,099	31,239
ZR1.20	RAMBLER LAKE	208	130.0	1175	CHAN	22	25,850	9,048	34,898
ZR1.10	ZR1.11	118	159.6	700	42	101	70,980	24,843	95,823
ZR1.11	ZR-P1.8a	162	203.7	525	48	116	60,743	21,260	82,002
ZR1.12	ZR1.13	24	50.5	600	30	56	33,540	11,739	45,279
ZR1.13	ZR-P1.8a	35	67.0	525	36	77	40,268	14,094	54,361

Pipe Designation		Drainage	Design				Subtotal	Additional	Total
Flow From	Flow To	Area (Ac)	Capacity (CFS)	Length (Feet)	Diameter (in)	Unit Cost ($/Lin. Ft)	Cost ($)	Cost ($)	Cost ($)
ZR-P1.8a	RAMBLER LAKE	227	68.8	350	24	44	15,470	5,415	20,885
ZR1.15	ZR-P1.8b	30	55.3	475	30	56	26,553	9,293	35,846
ZR-P1.8b	RAMBLER LAKE	69	15.4	775	18	23	18,135	6,347	24,482
ZR1.17	ZR1.18	37	59.9	800	36	77	61,360	21,476	82,836
ZR1.18	ZR-P1.6	62	90.3	775	42	101	78,585	27,505	106,090
ZR-P1.6	ZUMBRO RIVER	117	19.1	425	30	56	23,758	8,315	32,073
ZR2.1	ZR2.2	41	58.3	1275	30	56	71,273	24,945	96,218
ZR2.4	ZR2.5	60	94.8	650	36	77	49,855	17,449	67,304
ZR2.5	ZR2.6	98	142.8	1500	42	101	152,100	53,235	205,335
ZR2.8	ZR2.9	17	29.2	475	30	56	26,553	9,293	35,846
ZR3.1	ZR-P3.5a	35	58.3	400	30	56	22,360	7,826	30,186
ZR4.1	ZR4.3	49	71.5	850	30	56	47,515	16,630	64,145
ZR4.2	ZR4.3	48	71.5	1000	30	56	55,900	19,565	75,465
ZR4.3	ZR4.4	134	153.1	950	42	101	96,330	33,716	130,046
ZR4.4	ZR4.5	158	203.7	3125	48	116	361,563	126,547	488,109
ZR4.5	ZR4.6	230	261.0	900	60	152	136,800	47,880	184,680