NORTH BASIN SIDEWALK

INLET SPACING ANALYSIS (NORTH BASIN 10-YR)

M= 5.62 n= 0.53 I= 2.395

Inlet	Alignment Name	Station	Offset Feet	Direction	Length (ft)	Section Width (ft)	Contrib Area (ft^2)	Contrib Area (acres)	T_c (min)	m_{10}	n_{10}	I_{10} (in/hr)	C	Q_{10} (cfs)	S_L (ft/ft)	S_T (ft/ft)	d (ft)	Z_d (ft)	80% GW (ft)	Q_{BP} (cfs)	Q_i (cfs)	V_1 (ft/s)	COMMENTS
DR04-4	SPB	39+15	25.67	LT	515	6.50	4067.0	0.09	5.00	5.62	0.53	2.39	0.90	0.20	0.05	0.02	0.06	2.86	1.00	0.06	0.14	2.91	Max. Spread = 6-feet (area adj. for bump outs)
DR04-8	SPB	42+30	26.42	LT	315	6.50	2156.0	0.05	5.00	5.62	0.53	2.39	0.90	0.17	0.02	0.02	0.06	3.14	1.00	0.06	0.11	2.07	Max. Spread = 6-feet (area adj. for bump outs)
DR04-22	SPB	39+15	26.42	RT	515	6.50	4058.0	0.09	5.00	5.62	0.53	2.39	0.90	0.20	0.05	0.02	0.06	2.86	1.00	0.06	0.14	2.90	Max. Spread = 6-feet (area adj. for bump outs)
DR04-26	SPB	42+30	26.42	RT	315	6.50	2149.0	0.05	5.00	5.62	0.53	2.39	0.90	0.17	0.02	0.02	0.06	3.19	1.00	0.06	0.11	2.00	Max. Spread = 6-feet (area adj. for bump outs)

South Park Bridge
Project Number 45647
9/30/2009

SOUTH BASIN SIDEWALK

INLET SPACING ANALYSIS (SOUTH BASIN-10YR)

M= 5.62 n= 0.53 I= 2.395

Inlet	Alignment Name	Station	Offset Feet	Direction	Length (ft)	Section Width (ft)	Contrib Area (ft^2)	Contrib Area (acres)	T_c (min)	m_{10}	n_{10}	I_{10} (in/hr)	C	Q_{10} (cfs)	S_L (ft/ft)	S_T (ft/ft)	d (ft)	Z_d (ft)	80%GW (ft)	Q_{BP} (cfs)	Q_i (cfs)	V_1 (ft/s)	COMMENTS
DR02-2	SPB	28+75	26.42	LT	525	6.50	4171.0	0.10	5.00	5.62	0.53	2.39	0.90	0.21	0.05	0.02	0.06	2.89	1.00	0.07	0.14	2.93	Max. Spread = 6-feet (area adj. for bump outs)
DR01-21	SPB	27+30	26.45	LT	145	6.50	987.0	0.02	5.00	5.62	0.53	2.39	0.90	0.12	0.04	0.02	0.05	2.42	1.00	0.03	0.09	2.28	Max. Spread = 6-feet (area adj. for bump outs)
DR02-16	SPB	28+75	26.42	RT	525	6.50	4091.0	0.09	5.00	5.62	0.53	2.39	0.90	0.20	0.05	0.02	0.06	2.87	1.00	0.06	0.14	2.91	Max. Spread = 6-feet (area adj. for bump outs)

South Park Bridge
Project Number 45647
10/5/2009
Jim Rhodes

N. BASIN ROAD INLET SPACING ANALYSIS (10-YEAR STORM EVENT)

m= 5.62 n= 0.53 i= 2.395

Inlet	Alignment Name	Station	Offset Feet	Direction	Contrib Area (ft^2)	Contrib Area (acres)	T_c (min)	m_{10}	n_{10}	I_{10} (in/hr)	C	Q_{10} (cfs)	S_L (ft/ft)	S_T (ft/ft)	d (ft)	Z_d* (ft)	X% GW (ft)	Q_{BP} (cfs)	Q_i (cfs)	V_1 (ft/s)	COMMENTS
DR03-1	SPB	35+70	26.25	LT	4845.0	0.11	5.00	5.62	0.53	2.39	0.90	0.24	0.036	0.02	0.07	3.25	1.00	0.09	0.15	2.72	80% free Bridge Drain Frame Grate
DR03-2	SPB	36+71	26.25	LT	2878.5	0.07	5.00	5.62	0.53	2.39	0.90	0.23	0.050	0.02	0.06	3.02	1.00	0.08	0.15	3.03	80% free Bridge Drain Frame Grate
DR04-9	SPB	37+70	26.25	LT	2821.5	0.06	5.00	5.62	0.53	2.39	0.90	0.22	0.050	0.02	0.06	2.95	1.00	0.07	0.15	2.98	80% free Bridge Drain Frame Grate
DR04-10	SPB	39+15	25.67	LT	4148.0	0.10	5.00	5.62	0.53	2.39	0.90	0.28	0.050	0.02	0.06	3.23	1.59	0.05	0.23	3.00	95% free Vaned Grate
DR04-11	SPB	39+70	26.42	LT	1585.0	0.04	5.00	5.62	0.53	2.39	0.90	0.12	0.050	0.02	0.05	2.39	1.59	0.01	0.12	2.32	95% free Vaned Grate
DR04-12	SPB	40+80	26.42	LT	3154.0	0.07	5.00	5.62	0.53	2.39	0.90	0.16	0.041	0.02	0.05	2.74	1.59	0.02	0.15	2.37	95% free Vaned Grate
DR04-13	SPB	41+80	26.42	LT	2843.0	0.07	5.00	5.62	0.53	2.39	0.90	0.16	0.022	0.02	0.06	3.04	1.59	0.02	0.14	1.89	95% free Vaned Grate
DR04-14	SPB	42+30	26.50	LT	1402.0	0.03	5.00	5.62	0.53	2.39	0.90	0.09	0.022	0.02	0.05	2.48	1.59	0.01	0.09	1.59	95% free Vaned Grate
DR05-2	SPB	42+80	25.50	LT	1879.0	0.04	5.00	5.62	0.53	2.39	0.90	0.10	0.003	0.02	0.07	3.72	1.67	0.02	0.08	0.82	0% Blocking Curb Opening and Vaned Grate
DR05-3	SPB	43+10	25.50	LT	1243.0	0.03	5.00	5.62	0.53	2.39	0.90	0.08	0.002	0.02	0.07	3.73	1.67	0.02	0.06	0.67	0% Blocking Curb Opening and Vaned Grate
DR05-8	SPB	44+10	25.48	LT	4597.0	0.11	5.00	5.62	0.53	2.39	0.90	0.24	0.002	0.02	0.11	5.63	1.67	0.10	0.15	0.93	0% Blocking Curb Opening and Vaned Grate
DR05-9	SPB	45+10	25.48	LT	4948.0	0.11	5.00	5.62	0.53	2.39	0.90	0.34	0.005	0.02	0.11	5.43	1.59	0.14	0.20	1.39	All spread within shoulder areas
																					and bypass goes to existing catch basin.
DR03-3	SPB	35+70	26.25	RT	4845.0	0.11	5.00	5.62	0.53	2.39	0.90	0.24	0.036	0.02	0.07	3.25	1.00	0.09	0.15	2.72	80% free Bridge Drain Frame Grate
DR03-4	SPB	36+71	26.25	RT	2878.5	0.07	5.00	5.62	0.53	2.39	0.90	0.23	0.050	0.02	0.06	3.02	1.00	0.08	0.15	3.03	80% free Bridge Drain Frame Grate
DR04-15	SPB	37+70	26.25	RT	2821.5	0.06	5.00	5.62	0.53	2.39	0.90	0.22	0.050	0.02	0.06	2.95	1.00	0.07	0.15	2.98	80% free Bridge Drain Frame Grate
DR04-16	SPB	39+15	26.42	RT	4115.0	0.09	5.00	5.62	0.53	2.39	0.90	0.28	0.050	0.02	0.06	3.22	1.59	0.05	0.23	3.00	95% free Vaned Grate
DR04-17	SPB	39+70	26.42	RT	1549.0	0.04	5.00	5.62	0.53	2.39	0.90	0.12	0.050	0.02	0.05	2.37	1.59	0.01	0.12	2.31	95% free Vaned Grate
DR04-18	SPB	40+80	26.42	RT	3117.0	0.07	5.00	5.62	0.53	2.39	0.90	0.16	0.041	0.02	0.05	2.73	1.59	0.02	0.14	2.36	95% free Vaned Grate
DR04-19	SPB	41+80	26.42	RT	2858.0	0.07	5.00	5.62	0.53	2.39	0.90	0.16	0.022	0.02	0.06	3.04	1.59	0.02	0.14	1.90	95% free Vaned Grate
DR04-20	SPB	42+30	26.42	RT	1446.0	0.03	5.00	5.62	0.53	2.39	0.90	0.09	0.003	0.02	0.07	3.64	1.59	0.02	0.07	0.81	95% free Vaned Grate
DR05-15	SPB	42+80	26.42	RT	1800.0	0.04	5.00	5.62	0.53	2.39	0.90	0.11	0.003	0.02	0.08	3.84	1.67	0.02	0.09	0.85	0% Blocking Curb Opening and Vaned Grate
DR05-16	SPB	43+10	25.48	RT	1081.0	0.02	5.00	5.62	0.53	2.39	0.90	0.08	0.002	0.02	0.07	3.66	1.67	0.02	0.06	0.66	0% Blocking Curb Opening and Vaned Grate
DR05-17	SPB	44+10	25.48	RT	5047.0	0.12	5.00	5.62	0.53	2.39	0.90	0.26	0.002	0.02	0.12	5.80	1.67	0.11	0.16	0.95	0% Blocking Curb Opening and Vaned Grate
DR05-18	SPB	45+10	26.40	RT	5084.0	0.12	5.00	5.62	0.53	2.39	0.90	0.36	0.005	0.02	0.11	5.54	1.59	0.15	0.21	1.41	All spread within shoulder areas
																					and bypass goes to existing catch basin.
*Z_d allowable is 6 ft.																					

S. BASIN ROAD INLET SPACING ANALYSIS (10-YR STORM EVENT)

m= 5.62 n= 0.53 i= 2.395 **GW** **1.67**

Inlet	Alignment Name	Station	Offset Feet	Direction	Contrib Area (ft^2)	Contrib Area (acres)	T_c (min)	m_{10}	n_{10}	I_{10} (in/hr)	C	Q_{10} (cfs)	S_L (ft/ft)	S_T (ft/ft)	d (ft)	Z_d (ft)	X% GW (ft)	Q_{BP} (cfs)	Q_i (cfs)	V_1 (ft/s)	COMMENTS
DR02-9	SPB	32+30	26.25	LT	4847.0	0.11	5.00	5.62	0.53	2.39	0.90	0.24	0.0358	0.02	0.07	3.25	1.00	0.09	0.15	2.72	80% free Bridge Drain Frame Grate
DR02-8	SPB	31+30	26.25	LT	3433.0	0.08	5.00	5.62	0.53	2.39	0.90	0.26	0.0500	0.02	0.06	3.15	1.00	0.09	0.17	3.13	80% free Bridge Drain Frame Grate
DR02-7	SPB	30+30	26.25	LT	3433.0	0.08	5.00	5.62	0.53	2.39	0.90	0.26	0.0500	0.02	0.06	3.17	1.00	0.10	0.17	3.15	80% free Bridge Drain Frame Grate
DR02-6	SPB	28+75	26.42	LT	4445.0	0.10	5.00	5.62	0.53	2.39	0.90	0.32	0.0500	0.02	0.07	3.39	1.59	0.06	0.26	3.12	95% free Vaned Grate
DR02-5	SPB	28+30	26.42	LT	1291.0	0.03	5.00	5.62	0.53	2.39	0.90	0.12	0.0500	0.02	0.05	2.38	1.59	0.01	0.12	2.31	95% free Vaned Grate
DR01-22	SPB	27+30	26.45	LT	2872.0	0.07	5.00	5.62	0.53	2.39	0.90	0.15	0.0360	0.02	0.05	2.72	1.59	0.01	0.13	2.20	95% free Vaned Grate
DR01-4	SPB	25+77	22.80	LT	3094.0	0.07	5.00	5.62	0.53	2.39	0.90	0.17	0.0033	0.02	0.09	4.45	1.67	0.05	0.12	0.99	0% Blocking Combination Inlet
DR01-3	SPB	25+20	21.48	LT	1907.0	0.04	5.00	5.62	0.53	2.39	0.90	0.14	0.0033	0.02	0.08	4.18	1.67	0.04	0.11	0.94	0% Blocking Combination Inlet
DR01-2	SPB	24+83	21.48	LT	1248.0	0.03	5.00	5.62	0.53	2.39	0.90	0.10	0.0033	0.02	0.07	3.64	1.67	0.00	0.10	1.05	0% Blocking Combination Inlet
DR01-1	SPB	24+15	21.48	LT	3501.0	0.08	5.00	5.62	0.53	2.39	0.90	0.17	0.0040	0.02	0.09	4.34	1.67	0.05	0.13	1.07	0% Blocking Combination Inlet
DR01-2	SPB	24+83	21.48	LT	2263.0	0.05	5.00	5.62	0.53	2.39	0.90	0.21	0.0020	0.02	0.11	5.32	1.67	0.00	0.21	1.40	0% Blocking Combination Inlet
DR02-14	SPB	32+30	26.25	RT	4675.0	0.11	5.00	5.62	0.53	2.39	0.90	0.23	0.0358	0.02	0.06	3.21	1.00	0.09	0.15	2.69	80% free Bridge Drain Frame Grate
DR02-13	SPB	31+30	26.25	RT	2831.0	0.06	5.00	5.62	0.53	2.39	0.90	0.23	0.0500	0.02	0.06	2.99	1.00	0.08	0.15	3.01	80% free Bridge Drain Frame Grate
DR02-12	SPB	30+30	26.25	RT	2831.0	0.06	5.00	5.62	0.53	2.39	0.90	0.22	0.0500	0.02	0.06	2.94	1.00	0.07	0.14	2.97	80% free Bridge Drain Frame Grate
DR02-11	SPB	28+75	26.42	RT	4389.0	0.10	5.00	5.62	0.53	2.39	0.90	0.29	0.0500	0.02	0.07	3.28	1.59	0.05	0.24	3.04	95% free Vaned Grate
DR02-10	SPB	28+30	26.42	RT	1274.0	0.03	5.00	5.62	0.53	2.39	0.90	0.11	0.0500	0.02	0.05	2.30	1.59	0.00	0.11	2.25	95% free Vaned Grate
DR01-24	SPB	27+30	26.45	RT	2828.0	0.06	5.00	5.62	0.53	2.39	0.90	0.14	0.0360	0.02	0.05	2.69	1.59	0.01	0.13	2.18	95% free Vaned Grate
DR01-26	SPB	26+56	26.40	RT	2123.0	0.05	5.00	5.62	0.00	5.62	0.90	0.26	0.0360	0.02	0.07	3.35	1.59	0.05	0.21	2.63	95% free Vaned Grate
DR01-12	SPB	25+21	32.89	RT	5450.0	0.13	5.00	5.62	0.53	2.39	0.90	0.27	0.0033	0.02	0.11	5.32	1.67	0.10	0.17	1.14	0% Blocking Combination Inlet
DR01-11	SPB	24+83	32.51	RT	2299.0	0.05	5.00	5.62	0.53	2.39	0.90	0.21	0.0033	0.02	0.10	4.86	1.67	0.00	0.21	1.58	0% Blocking Combination Inlet
DR01-10	SPB	24+15	26.38	RT	4379.0	0.10	5.00	5.62	0.53	2.39	0.90	0.22	0.0040	0.02	0.09	4.72	1.67	0.07	0.15	1.15	0% Blocking Combination Inlet
DR01-11	SPB	24+83	32.51	RT	4046.0	0.09	5.00	5.62	0.53	2.39	0.90	0.48	0.0020	0.02	0.15	7.25	1.67	0.00	0.48	2.24	0% Blocking Combination Inlet
DR01-16	DALLAS-E	10+25	11.42	LT	9049.0	0.21	5.00	5.62	0.53	2.39	0.90	0.45	0.0142	0.02	0.10	4.89	1.67	0.15	0.30	2.22	0% Blocking Combination Inlet
DR01-18	DALLAS-E	10+28	12.18	RT	7528.0	0.17	5.00	5.62	0.53	2.39	0.90	0.37	0.0142	0.02	0.09	4.56	0.95	0.20	0.17	2.22	95% free Vaned Grate
DR06-4	DALLAS-W	11+59	14.42	LT	3595.0	0.08	5.00	5.62	0.53	2.39	0.90	0.18	0.0260	0.02	0.06	3.09	1.67	0.02	0.16	2.07	0% Blocking Combination Inlet
DR06-2	DALLAS-W	11+93	40.07	LT	4123.0	0.09	5.00	5.62	0.53	2.39	0.90	0.23	0.0260	0.02	0.07	3.38	1.67	0.04	0.19	2.23	0% Blocking Combination Inlet
DR06-6	DALLAS-W	11+59	14.42	RT	12611.0	0.29	5.00	5.62	0.53	2.39	0.90	0.64	0.0257	0.02	0.10	5.00	1.67	0.22	0.42	3.04	0% Blocking Combination Inlet
DR06-7	DALLAS-W	12+45	14.42	RT	1380.0	0.03	5.00	5.62	0.53	2.39	0.90	0.28	0.0256	0.02	0.07	3.69	1.67	0.06	0.23	2.38	0% Blocking Combination Inlet
DR06-5	DALLAS-W	12+45	14.42	LT	1715.0	0.04	5.00	5.62	0.53	2.39	0.90	0.08	0.0260	0.02	0.05	2.34	1.67	0.00	0.08	1.63	0% Blocking Combination Inlet
DR06-3	DALLAS-W	12+19	40.07	LT	4982.0	0.11	5.00	5.62	0.53	2.39	0.90	0.25	0.0260	0.02	0.07	3.51	1.67	0.04	0.21	2.30	0% Blocking Combination Inlet
DR06-1	DALLAS-W	11+70	71.60	LT	6348.0	0.15	5.00	5.62	0.53	2.39	0.90	0.31	0.0066	0.02	0.10	4.94	1.67	0.00	0.31	2.29	0% Blocking Combination Inlet
DR01-29	BOAT AC.	10+40	10.42	LT	2000.0	0.05	5.00	5.62	0.53	2.39	0.90	0.30	0.0086	0.02	0.09	4.62	1.67	0.09	0.21	1.65	0% Blocking Combination Inlet
DR01-33	BOAT AC.	11+50	10.42	LT	4180.0	0.10	5.00	5.62	0.53	2.39	0.90	0.30	0.0230	0.02	0.08	3.83	1.67	0.06	0.23	2.32	0% Blocking Combination Inlet
DR02-24	BOAT AC.	12+20	9.67	LT	4447.0	0.10	5.00	5.62	0.53	2.39	0.90	0.28	0.0020	0.02	0.12	5.96	1.67	0.12	0.17	0.97	0% Blocking Combination Inlet
DR02-25	BOAT AC.	13+00	9.50	LT	1760.0	0.04	5.00	5.62	0.53	2.39	0.90	0.21	0.0020	0.02	0.11	5.27	1.67	0.07	0.13	0.88	0% Blocking Combination Inlet
DR02-27	SPB	30+09	117	RT	4350.0	0.10	5.00	5.62	0.53	2.39	0.90	0.29	0.0020	0.02	0.12	6.00	1.59	0.00	0.29	1.75	95% free Vaned Grate
																					Bypass goes to the river.
																					Max. Spread 6'

South Park Bridge

Conveyance Calcs 25-YEAR EVENT

45647
9/30/2009

MRI = 25
ar = 2.66
br = 0.65

Pavement thickness = 0.00 ft

Pipe thickness = 0.17 ft

INLETS:					DISCHARGE/FLOW CALCULATION:																			INLET INFORMATION:						PIPE INFORMATION:								CHECKS:					
Drainage Structure # from	Pipe Number	To Drainage Structure # to	Alignment	Station	offset (FT)	Direction	Section Width FT	A (Acre)	C	C*A (Acre)	Cumm. C*A (Acre)	Surface Slope (S_w) (Percent)	Surface K_B	Surface Velocity V	Tc (Minute)	Tt Pipe (Minute)	Tt Surface (Minute)	Tc used (6.3 <=Tc<=100) (Minute)	ar	br	ir	Pr (Inches) 3.425	Ir (in/hr)	Q (CFS)	Inlet Rim (FT)	Outlet Rim (FT)	Inlet Invert (FT)	Outlet Invert (FT)	Inlet Cover (FT)	Outlet Cover (FT)	Pipe Diameter (FT)	Pipe Length (FT)	Roughness Coefficient (Manning's n)	Slope (FT/FT)	Pipe Area (FT^2)	Vel (FPS)	Capacity Qfull (CFS)	Structure Type	Velocity Check	Capacity Check	Inlet Cover Check	Outlet Cover check	Notes
North Basin																																											
DR03-1		DR03-2	SPB	35+70.00	26.25	LT	28.50	0.11	0.90	0.10	0.10	0.036	20.00	3.78	1.03	0.29	0.75	6.30	2.66	0.65	0.80	3.43	2.75	0.28	46.41	42.00	42.00	37.00	3.74	4.33	0.5	101.00	0.014	4.95%	0.196	5.904	1.159	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR03-2		DR04-9	SPB	36+71.00	26.25	LT	28.50	0.07	0.90	0.06	0.16	0.050	20.00	4.47	1.31	0.28	0.38	6.30	2.66	0.65	0.80	3.43	2.75	0.44	42.00	37.00	37.00	32.00	4.33	4.33	0.5	99.00	0.014	5.05%	0.196	5.963	1.171	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR04-9		DR04-10	SPB	37+70.00	26.25	LT	28.50	0.06	0.90	0.06	0.22	0.050	20.00	4.47	1.76	0.45	0.37	6.30	2.66	0.65	0.80	3.43	2.75	0.60	37.00	30.90	32.00	25.90	4.33	4.33	0.5	145.99	0.014	4.18%	0.196	5.424	1.065	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR03-3		DR03-4	SPB	35+70.00	26.25	RT	28.50	0.11	0.90	0.10	0.10	0.036	20.00	3.78	1.03	0.29	0.75	6.30	2.66	0.65	0.80	3.43	2.75	0.28	46.41	42.00	42.00	37.00	3.74	4.33	0.5	101.00	0.014	4.95%	0.196	5.904	1.159	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR03-4		DR04-15	SPB	36+71.00	26.25	RT	28.50	0.07	0.90	0.06	0.16	0.050	20.00	4.47	1.31	0.28	0.38	6.30	2.66	0.65	0.80	3.43	2.75	0.44	42.00	37.00	37.00	32.00	4.33	4.33	0.5	99.09	0.014	5.05%	0.196	5.961	1.170	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR04-15		DR04-16	SPB	37+70.00	26.25	RT	28.50	0.06	0.90	0.06	0.22	0.050	20.00	4.47	1.76	0.45	0.37	6.30	2.66	0.65	0.80	3.43	2.75	0.60	37.00	30.90	32.00	26.25	4.33	3.98	0.5	143.90	0.014	4.00%	0.196	5.304	1.042	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR04-21		DR04-16	SPB	39+15.00	29.25	RT	6.00	0.09	0.90	0.08	0.08	0.050	20.00	4.47	0.56	0.02	0.54	6.30	2.66	0.65	0.80	3.43	2.75	0.23	31.40	30.90	26.25	26.07	4.15	3.83	0.8	6.00	0.014	3.00%	0.541	6.444	3.486	Special W	OK	OK	OK	OK	Sidewalk
DR04-16		DR04-10	SPB	39+15.00	26.42	RT	28.50	0.09	0.90	0.09	0.39	0.050	20.00	4.47	2.00	0.24	0.54	6.30	2.66	0.65	0.80	3.43	2.75	1.07	30.90	30.90	25.90	25.50	3.83	4.23	1.0	52.09	0.014	0.77%	0.785	3.691	2.899	CB1	OK	OK	OK	OK	Roadway Area
DR04-7		DR04-10	SPB	39+15.00	29.25	LT	6.00	0.09	0.90	0.08	0.08	0.050	20.00	4.47	0.55	0.01	0.54	6.30	2.66	0.65	0.80	3.43	2.75	0.23	31.40	30.90	26.10	25.67	4.30	4.23	0.8	6.00	0.014	7.17%	0.541	9.959	5.389	Special W	OK	OK	OK	OK	Sidewalk
DR04-10		DR04-11	SPB	39+15.00	25.50	LT	28.50	0.10	0.90	0.09	0.77	0.050	20.00	4.47	2.10	0.10	0.54	6.30	2.66	0.65	0.80	3.43	2.75	2.13	30.90	27.00	25.50	22.90	4.23	2.93	1.0	56.12	0.014	4.63%	0.785	9.067	7.121	CB2-48	OK	OK	OK	OK	Roadway Area
DR04-17		DR04-11	SPB	39+70.00	26.42	RT	28.50	0.04	0.90	0.03	0.03	0.050	20.00	4.47	0.46	0.26	0.20	6.30	2.66	0.65	0.80	3.43	2.75	0.09	27.00	27.00	23.25	22.90	2.58	2.93	1.0	52.84	0.014	0.66%	0.785	3.428	2.693	CB1	OK	OK	OK	OK	Roadway Area
DR04-11		**DR04-12**	**SPB**	**39+70.00**	**26.42**	**LT**	**28.50**	**0.04**	**0.90**	**0.03**	**0.84**	**0.050**	**20.00**	**4.47**	**2.31**	**0.21**	**0.20**	**6.30**	**2.66**	**0.65**	**0.80**	**3.43**	**2.75**	**2.31**	**27.00**	**22.12**	**22.90**	**18.00**	**2.93**	**2.95**	**1.0**	**111.21**	**0.014**	**4.41%**	**0.785**	**8.842**	**6.944**	CB1	OK	OK	OK	OK	**Roadway Area**
DR04-18		DR04-12	SPB	40+80.00	26.42	RT	28.50	0.07	0.90	0.06	0.06	0.041	20.00	4.05	0.73	0.28	0.45	6.30 6.30	2.66	0.65	0.80	3.43	2.75	0.18	22.12	22.12	18.30	18.00	2.65	2.95	1.0	52.84	0.014	0.57%	0.785	3.174	2.493	CB1	OK	OK	OK	OK	Roadway Area
DR04-12		DR04-13	SPB	40+80.00	26.42	LT	28.50	0.07	0.90	0.07	0.97	0.041	20.00	4.05	2.53	0.22	0.45	6.30	2.66	0.65	0.80	3.43	2.75	2.67	22.12	18.96	18.00	14.90	2.95	2.89	1.0	99.52	0.014	3.11%	0.785	7.434	5.839	CB1	OK	OK	OK	OK	Roadway Area
DR04-19		DR04-13	SPB	41+80.00	26.42	RT	28.50	0.07	0.90	0.06	0.06	0.022	20.00	2.97	0.82	0.26	0.56	6.30	2.66	0.65	0.80	3.43	2.75	0.16	18.96	18.96	15.25	14.90	2.54	2.89	1.0	52.84	0.014	0.66%	0.785	3.428	2.693	CB1	OK	OK	OK	OK	Roadway Area
DR04-13		DR04-14	SPB	41+80.00	26.42	LT	28.50	0.07	0.90	0.06	1.09	0.022	20.00	2.97	2.63	0.10	0.56	6.30	2.66	0.65	0.80	3.43	2.75	2.99	18.96	17.98	14.90	13.00	2.89	3.81	1.0	48.53	0.014	3.92%	0.785	8.335	6.546	CB1	OK	OK	OK	OK	Roadway Area
DR04-22		DR04-20	SPB	42+30.00	29.25	RT	6.00	0.05	0.90	0.04	0.04	0.003	20.00	1.10	0.78	0.02	0.76	6.30	2.66	0.65	0.80	3.43	2.75	0.12	18.48	17.98	14.10	14.00	3.38	2.98	0.8	6.00	0.014	1.67%	0.541	4.803	2.599	Special W	OK	OK	OK	OK	Sidewalk
DR04-20		DR04-14	SPB	42+30.00	26.42	RT	28.50	0.03	0.90	0.03	0.07	0.003	20.00	1.10	1.63	0.09	0.76	6.30	2.66	0.65	0.80	3.43	2.75	0.20	17.98	17.98	14.00	11.25	2.81	5.56	1.0	52.84	0.014	5.20%	0.785	9.610	7.547	CB1	OK	OK	OK	OK	Roadway Area
DR04-8		DR04-14	SPB	42+30.00	29.25	LT	6.00	0.05	0.90	0.04	0.04	0.022	20.00	2.97	0.30	0.02	0.28	6.30	2.66	0.65	0.80	3.43	2.75	0.12	18.48	17.98	11.35	11.25	6.13	5.73	0.8	6.00	0.014	1.67%	0.541	4.803	2.599	Special W	OK	OK	OK	OK	Sidewalk
DR04-14		DR05-2	SPB	42+30.00	26.50	LT	28.50	0.03	0.90	0.03	1.23	0.022	20.00	2.97	2.78	0.15	0.28	6.30	2.66	0.65	0.80	3.43	2.75	3.40	17.98	17.75	11.25	10.45	5.56	6.13	1.0	48.58	0.014	1.65%	0.785	5.405	4.245	CB2-48	OK	OK	OK	OK	Roadway Area
DR05-15		DR05-2	SPB	42+80.00	26.42	RT	34.33	0.04	0.90	0.04	0.04	0.003	20.00	1.11	0.85	0.10	0.75	6.30	2.66	0.65	0.80	3.43	2.75	0.10	17.67	17.75	12.75	10.50	3.75	6.08	1.0	51.92	0.014	4.33%	0.785	8.769	6.887	CB1	OK	OK	OK	OK	
DR05-18		DR05-7	SPB	45+10.00	26.40	RT	34.33	0.12	0.90	0.11	0.11	0.003	20.00	1.10	0.11	0.07	0.05	6.30	2.66	0.65	0.80	3.43	2.75	0.29	17.70	17.71	13.50	12.90	3.03	3.64	1.0	26.40	0.014	2.27%	0.785	6.350	4.987	CB1	OK	OK	OK	OK	CB Type 240B
DR05-9		DR05-7	SPB	45+10.00	25.48	LT	34.33	0.11	0.90	0.10	0.10	0.003	20.00	1.10	1.59	0.07	1.52	6.30	2.66	0.65	0.80	3.43	2.75	0.28	17.40	17.71	13.50	12.90	2.73	3.64	1.0	25.48	0.014	2.35%	0.785	6.464	5.077	CB1	OK	OK	OK	OK	CB Type 240C
DR05-7		DR05-6	SPB	45+07.00	0.00	RT	0.00	0.00	0.90	0.00	0.21	0.003	20.00	1.10	1.97	0.38	1.31	6.30	2.66	0.65	0.80	3.43	2.75	0.57	17.71	18.04	12.90	11.90	3.64	4.97	1.0	97.16	0.014	1.03%	0.785	4.273	3.356	CB1	OK	OK	OK	OK	MH Type 200A
DR05-17		DR05-6	SPB	44+10.00	25.48	RT	34.33	0.12	0.90	0.10	0.10	0.002	20.00	0.89	1.91	0.05	1.86	6.30	2.66	0.65	0.80	3.43	2.75	0.29	17.60	18.04	13.10	11.90	3.33	4.97	1.0	25.48	0.014	4.71%	0.785	9.141	7.180	CB1	OK	OK	OK	OK	CB Type 240D
DR05-8		DR05-6	SPB	44+21.00	25.48	LT	34.33	0.11	0.90	0.09	0.09	0.002	20.00	0.89	1.92	0.06	1.86	6.30	2.66	0.65	0.80	3.43	2.75	0.26	17.45	18.04	13.00	11.90	3.28	4.97	1.0	27.75	0.014	3.96%	0.785	8.387	6.587	CB1	OK	OK	OK	OK	CB Type 240D
DR05-6		DR05-5	SPB	44+10.00	0.00	RT	0.00	0.00	0.90	0.00	0.41	0.002	20.00	0.89	2.14	0.22	0.00	6.30	2.66	0.65	0.80	3.43	2.75	1.12	18.04	18.16	11.90	11.20	4.97	5.79	1.0	59.91	0.014	1.17%	0.785	4.553	3.576	CB2-48	OK	OK	OK	OK	MH Type 200A
DR05-5		DR05-4	SPB	43+50.00	0.00	RT	0.00	0.00	0.90	0.00	0.41	0.002	20.00	0.89	2.32	0.18	0.00	6.30	2.66	0.65	0.80	3.43	2.75	1.12	18.16	18.24	11.20	10.90	5.79	6.17	1.0	40.03	0.014	0.75%	0.785	3.647	2.864	CB2-48	OK	OK	OK	OK	MH Type 200A
DR05-16		DR05-4	SPB	43+10.00	25.48	RT	34.33	0.02	0.90	0.02	0.02	0.001	20.00	0.63	0.86	0.07	0.79	6.30	2.66	0.65	0.80	3.43	2.75	0.06	17.65	18.24	11.50	10.90	4.98	6.17	1.0	25.48	0.014	2.35%	0.785	6.464	5.077	CB2-48	OK	OK	OK	OK	CB Type 240D
DR05-4		DR05-3	SPB	43+10.00	0.00	RT	34.33	0.00	0.90	0.00	0.43	0.001	20.00	0.63	2.45	0.13	0.00	6.30	2.66	0.65	0.80	3.43	2.75	1.18	18.24	17.65	10.90	10.75	6.17	5.73	1.0	25.50	0.014	0.59%	0.785	3.231	2.537	CB2-48	OK	OK	OK	OK	MH Type 200A
DR05-3		DR05-2	SPB	43+10.00	25.50	LT	34.33	0.03	0.90	0.03	0.45	0.001	20.00	0.63	2.61	0.16	0.79	6.30	2.66	0.65	0.80	3.43	2.75	1.25	17.65	17.75	10.75	10.60	5.73	5.98	1.0	29.16	0.014	0.51%	0.785	3.021	2.373	CB2-48	OK	OK	OK	OK	
DR05-2		DR05-1	SPB	42+80.00	25.50	LT	34.33	0.04	0.90	0.04	1.76	0.003	20.00	1.10	2.88	0.10	0.76	6.30	2.66	0.65	0.80	3.43	2.75	4.86	17.75	17.75	10.20	10.10	5.88	5.98	1.5	22.50	0.014	0.44%	1.767	3.680	6.503	CB2-48	OK	OK	OK	OK	
DR05-1		DR04-6	SPB	42+80.00	48.00	LT	0.00	0.00	0.90	0.00	1.76	0.01	20.00	2.00	3.83	0.95	0.00	6.30	2.66	0.65	0.80	3.43	2.75	4.86	17.75	16.60	10.10	9.60	5.48	4.83	2.0	193.61	0.014	0.26%	3.142	3.398	10.675	CB2-48	OK	OK	OK	OK	
DR04-6		DR04-5	SPB	40+70.00	49.70	LT	0.00	0.00	0.90	0.00	1.11	0.01	20.00	2.00	4.53	0.69	0.00	6.30	2.66	0.65	0.80	3.43	2.75	3.05	16.60	16.58	9.60	9.21	4.83	5.20	2.0	144.50	0.014	0.27%	3.142	3.474	10.913	CB2-48	OK	OK	OK	OK	
DR04-2		DR03-5	SPB	38+49.17	53.07	LT	0.00	0.00	0.90	0.00	1.11	0.01	20.00	2.00	5.70	0.57	0.00	6.30	2.66	0.65	0.80	3.43	2.75	3.29	16.58	16.33	8.97	8.75	5.44	5.41	2.0	105.12	0.014	0.21%	3.142	3.059	9.610	CB2-48	OK	OK	OK	OK	
DR03-5		Outfall	SPB	37+45.00	39.00	LT	0.00	0.00	0.90	0.00	1.11	0.01	20.00	2.00	5.97	0.27	0.00	6.30	2.66	0.65	0.80	3.43	2.75	3.29	16.33	16.10	8.75	8.64	5.41	5.29	2.0	50.00	0.014	0.22%	3.142	3.136	9.853	CB2-48	OK	OK	OK	OK	Discharge to Waterway
DR04-5		DR04-4	SPB	39+39.38	55.23	LT	0.00	0.00	0.90	0.00	1.11	0.01	20.00	2.00	4.60	0.08	0.00	6.30	2.66	0.65	0.80	3.43	2.75	3.05	16.55	16.55	9.21	9.18	5.17	5.20	2.0	14.32	0.014	0.21%	3.142	3.061	9.615	CB2-48	OK	OK	OK	OK	
DR04-5	DR04-26	VAULT	SPB	39+39.38	55.23	LT	0.00	0.73	0.90	0.66	0.66	0.00	20.00	0.63	4.55	0.02	0.00	6.30	2.66	0.65	0.80	3.43	2.75	0.24	16.55	16.60	8.00	7.80	6.88	7.13	1.5	9.94	0.014	2.01%	1.767	7.829	13.836	CB2-48	OK	OK	OK	OK	
DR04-4		DR04-3	SPB	39+34.96	68.75	LT	0.00	0.00	0.90	0.00	1.11	0.01	20.00	2.00	5.07	0.47	0.00	6.30	2.66	0.65	0.80	3.43	2.75	3.05	16.55	16.55	9.18	9.00	5.20	5.38	2.0	86.00	0.014	0.21%	3.142	3.059	9.610	CB2-48	OK	OK	OK	OK	
DR04-3		DR04-2	SPB	38+52.67	66.67	LT	0.00	0.00	0.90	0.00	1.11	0.01	20.00	2.00	5.13	0.06	0.00	6.30	2.66	0.65	0.80	3.43	2.75	3.05	16.55	16.58	9.00	8.97	5.38	5.44	2.0	11.51	0.014	0.26%	3.142	3.414	10.724	CB2-48	OK	OK	OK	OK	
DR04-1		DR04-2	SPB	38+61.08	54.58	LT	0.00	0.73	0.90	0.66	0.00	0.01	20.00	2.00	4.60	0.06	0.00	6.30	2.66	0.65	0.80	3.43	2.75	0.24	16.60	16.58	9.30	9.25	5.63	5.66	1.5	12.03	0.014	0.42%	1.767	3.558	6.288	CB2-48	OK	OK	OK	OK	Vault water quality elevation = 9.3
BOEING																																											
	DR05-14	DR05-13	SPB	46+11.33	15.45	LT	46.00	0.44	0.90	0.40	0.40	0.01	20.00	2.00	10.13	0.13	10.00	10.13	2.66	0.65	0.59	3.43	2.02	0.81	16.86	15.18	11.35	11.20	3.84	2.31	1.5	30.63	0.014	0.49%	1.767	3.863	6.826	CB2-48	OK	OK	OK	OK	Area measured from Exhibit PXH6 of the TIR
DR05-13		DR05-12	SPB	46+10.33	15.20	RT	46.00	0.44	0.90	0.40	0.80	0.01	20.00	2.00	10.12	0.12	10.00	10.12	2.66	0.65	0.59	3.43	2.02	1.62	15.18	17.44	11.20	11.10	2.31	4.67	1.5	24.92	0.014	0.40%	1.767	3.497	6.179	CB1	OK	OK	OK	OK	Area measured from Exhibit PXH6 of the TIR
DR05-12		DR05-11	SPB	46+10.41	43.83	RT	0.00	0.00	0.90	0.00	0.80	0.01	20.00	2.00	10.99	0.87	0.00	10.99	2.66	0.65	0.56	3.43	1.92	1.54	17.44	17.35	11.10	10.00	4.67	5.68	1.5	209.75	0.014	0.52%	1.767	3.997	7.064	CB2-48	OK	OK	OK	OK	MH Type 200A
DR05-11		DR05-19	SPB	44+05.08	44.29	RT	164.00	3.10	0.90	2.79	3.59	0.01	20.00	2.00	11.57	0.58	4.45	11.57	2.66	0.65	0.54	3.43	1.85	6.66	17.35	17.75	10.00	9.46	5.18	6.12	2.0	143.06	0.014	0.38%	3.142	4.108	12.906	CB2-48	OK	OK	OK	OK	Area measured from Exhibit PXH6 (TIR) MH Type 200A
DR05-19		DR04-31	SPB	42+69.21	52.30	RT	0.00	0.03	0.90	0.03	3.62	0.01	20.00	2.00	12.06	0.48	0.00	12.06	2.66	0.65	0.53	3.43	1.81	6.53	17.75	17.10	9.46	9.00	6.12	5.93	2.0	119.73	0.014	0.38%	3.142	4.145	13.021	CB2-48	OK	OK	OK	OK	
DR04-31		DR04-30	SPB	41+57.00	65.18	RT	100.00	0.00	0.90	0.00	3.59	0.01	20.00	2.00	11.88	0.31	2.92	11.88	2.66	0.65	0.53	3.43	1.82	6.55	17.10	16.50	9.00	8.50	5.93	5.83	2.0	91.00	0.014	0.55%	3.142	4.956	15.571	CB2-48	OK	OK	OK	OK	
DR04-32		DR04-30	SPB	40+75.09	111.48	RT	3.00	0.83	0.90	0.75	0.75	0.01	20.00	2.00	2.96	0.04	2.92	6.30	2.66	0.65	0.80	3.43	2.75	2.06	16.50	16.89	9.90	8.50	5.43	7.22	1.0	24.85	0.014	5.63%	0.785	9.998	7.853	CB2-48	OK	OK	OK	OK	Area measured from Exhibit PXH6 of the TIR
DR04-30		DR04-29	SPB	40+68.76	87.45	RT	0.00	0.00	0.90	0.00	4.34	0.01	20.00	2.00	13.04	1.16	0.00	13.04	2.66	0.65	0.50	3.43	1.72	7.45	16.89	16.32	8.50	7.25	6.22	6.90	2.0	300.00	0.014	0.42%	3.142	4.316	13.560	CB2-48	OK	OK	OK	OK	
DR04-29		DR04-28	SPB	37+57.00	114.40	RT	0.00	0.07	0.90	0.06	4.40	0.01	20.00	2.00	13.18	0.14	0.00	13.18	2.66	0.65	0.50	3.43	1.70	7.49	16.32	16.23	7.25	7.15	6.90	6.91	2.0	32.00	0.014	0.31%	3.142	3.738	11.743	CB2-48	OK	OK	OK	OK	Area measured from Exhibit PXH6 of the TIR
DR04-25		DR04-24	SPB	40+62.30	53.50	RT	45.00	0.26	0.90	0.23	0.23	0.01	20.00	2.00	1.16	0.32	0.83	6.30	2.66	0.65	0.80	3.43	2.75	0.64	16.80	16.65	12.50	11.00	3.13	4.48	1.0	100.00	0.014	1.50%	0.785	5.159	4.052	CB1	OK	OK	OK	OK	
DR04-24		DR04-23	SPB	39+60.10	69.42	RT	45.00	0.15	0.90	0.13	0.36	0.01	20.00	2.00	0.37	0.32	0.83	6.30	2.66	0.65	0.80	3.43	2.75	1.00	16.65	16.55	11.00	9.50	4.48	5.88	1.0	100.00	0.014	1.50%	0.785	5.159	4.052	CB2-48	OK	OK	OK	OK	
DR04-23		DR04-28	SPB	38+54.95	77.60	RT	100.00	0.20	0.90	0.18	0.54	0.01	20.00	2.00	0.22	0.26	0.83	6.30	2.66	0.65	0.80	3.43	2.75	1.49	16.55	16.25	9.50	7.15	5.88	7.93	1.0	100.00	0.014	2.35%	0.785	6.457	5.072	CB2-48	OK	OK	OK	OK	
DR04-28		DR04-27	SPB	37+55.08	82.45	RT	0.00	0.00	0.90	0.00	4.94	0.01	20.00	2.00	13.35	0.17	0.00	13.35	2.66	0.65	0.49	3.43	1.69	8.35	16.25	16.15	7.15	6.95	6.93	7.03	2.0	44.90	0.014	0.45%	3.142	4.463	14.020	CB2-48	OK	OK	OK	OK	
DR04-34		DR04-27	SPB	38+21.00	32.50	RT	0.00	0.28	0.90	0.25	0.25	0.01	20.00	2.00	0.26	0.26	0.00	6.30	2.66	0.65	0.80	3.43	2.75	0.64	16.15	16.15	13.50	12.74	1.48	2.24	1.0	69.00	0.014	1.10%	0.785	4.421	3.472	CB1	OK	OK	OK	OK	
DR04-27		connect to outfall	SPB	37+52.40	37.62	RT	0.00	0.00	0.90	0.00	5.19	0.01	20.00	2.00	13.67	0.32	0.00	13.67	2.66	0.65	0.49	3.43	1.66	8.64	16.15	15.00	6.95	6.04	7.53	7.29	1.5	100.00	0.014	0.91%	1.767	5.205	9.305	CB2-48	OK	OK	OK	OK	Existing 18-inch outfall pipe.

South Park Bridge

Conveyance Calcs — 25-YEAR EVENT

45647
9/30/2009

MRI = 25
ar = 2.66
br = 0.65

Pavement thickness = 0.00 ft

Pipe thickness = 0.17 ft

INLETS:					DISCHARGE/FLOW CALCULATION:																			INLET INFORMATION:						PIPE INFORMATION:								CHECKS:					
Drainage Structure # from	Pipe Number	To Drainage Structure # to	Alignment	Station	offset (FT)	Direction	Section Width FT	A (Acre)	C	C*A (Acre)	Cumm. C*A (Acre)	Surface Slope (S_w) (Percent)	Surface K_B	Surface Velocity V	Tc (Minute)	Tt Pipe (Minute)	Tt Surface (Minute)	Tc used (6.3 <=Tc<=100) (Minute)	ar	br	ir	Pr (Inches)	Ir (in/hr)	Q (CFS)	Inlet Rim (FT)	Outlet Rim (FT)	Inlet Invert (FT)	Outlet Invert (FT)	Inlet Cover (FT)	Outlet Cover (FT)	Pipe Diameter (FT)	Pipe Length (FT)	Roughness Coefficient (Manning's n)	Slope (FT/FT)	Pipe Area (FT^2)	Vel (FPS)	Capacity Qfull (CFS)	Structure Type	Velocity Check	Capacity Check	Inlet Cover Check	Outlet Cover check	Notes
South Basin																																											
DR02-14		DR02-13	SPB	32+30.00	26.25	RT	28.33	0.11	0.90	0.10	0.10	0.036	20.00	3.78	1.02	0.28	0.75	6.30	2.66	0.65	0.80	3.43	2.75	0.28	46.41	41.90	42.00	37.00	3.74	4.23	0.50	98.79	0.014	5.06%	0.196	5.970	1.172	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR02-13		DR02-12	SPB	31+30.00	26.25	RT	28.33	0.06	0.90	0.06	0.16	0.050	20.00	4.47	1.30	0.28	0.37	6.30	2.66	0.65	0.80	3.43	2.75	0.44	41.90	36.92	37.00	32.00	4.23	4.25	0.50	98.78	0.014	5.06%	0.196	5.970	1.172	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR02-12		DR02-11	SPB	30+30.00	26.25	RT	28.33	0.06	0.90	0.06	0.22	0.050	20.00	4.47	1.76	0.46	0.37	6.30	2.66	0.65	0.80	3.43	2.75	0.60	36.90	29.15	32.00	25.10	4.23	3.38	0.50	153.80	0.014	4.49%	0.196	5.621	1.104	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR02-9		DR02-8	SPB	32+30.00	26.25	LT	28.50	0.11	0.90	0.10	0.10	0.036	20.00	3.78	1.03	0.29	0.75	6.30	2.66	0.65	0.80	3.43	2.75	0.28	46.41	41.90	42.00	37.00	3.74	4.23	0.50	101.19	0.014	4.94%	0.196	5.899	1.158	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR02-8		DR02-7	SPB	31+30.00	26.25	LT	28.50	0.07	0.90	0.06	0.16	0.050	20.00	4.47	1.32	0.29	0.37	6.30	2.66	0.65	0.80	3.43	2.75	0.44	41.90	36.90	37.00	32.00	4.23	4.23	0.50	101.22	0.014	4.94%	0.196	5.898	1.158	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR02-7		DR02-6	SPB	30+30.00	26.25	LT	28.50	0.07	0.90	0.06	0.22	0.050	20.00	4.47	1.80	0.48	0.37	6.30	2.66	0.65	0.80	3.43	2.75	0.60	36.90	29.15	32.00	25.40	4.23	3.08	0.50	156.06	0.014	4.23%	0.196	5.457	1.071	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR02-1		DR02-6	SPB	28+75.00	29.25	LT	6.00	0.10	0.90	0.09	0.09	0.050	20.00	4.47	1.97	0.01	1.96	6.30	2.66	0.65	0.80	3.43	2.75	0.24	29.65	29.15	25.60	25.40	3.05	2.75	0.8	6.00	0.014	3.33%	0.541	6.792	3.675	Special W	OK	OK	OK	OK	Sidewalk
DR02-6		DR02-11	SPB	28+75.00	26.42	LT	28.50	0.10	0.90	0.09	0.40	0.050	20.00	4.47	2.25	0.28	0.58	6.30	2.66	0.65	0.80	3.43	2.75	1.09	29.15	29.15	25.00	24.70	2.98	3.28	1.00	52.84	0.014	0.57%	0.785	3.174	2.493	CB1	OK	OK	OK	OK	Roadway Area
DR02-15		DR02-11	SPB	28+75.00	29.25	RT	6.00	0.09	0.90	0.08	0.08	0.050	20.00	4.47	1.98	0.02	1.96	6.30	2.66	0.65	0.80	3.43	2.75	0.23	29.65	29.15	24.80	24.70	3.85	3.45	0.8	6.00	0.014	1.67%	0.541	4.803	2.599	Special W	OK	OK	OK	OK	Sidewalk
DR02-11		DR02-10	SPB	28+75.00	26.42	RT	28.50	0.10	0.90	0.09	0.79	0.050	20.00	4.47	2.33	0.08	0.58	6.30	2.66	0.65	0.80	3.43	2.75	2.17	29.15	26.91	24.70	22.50	3.28	3.24	1.00	43.79	0.014	5.02%	0.785	9.442	7.415	CB1	OK	OK	OK	OK	Roadway Area
DR02-5		DR02-10	SPB	28+30.00	26.42	LT	28.50	0.03	0.90	0.03	0.03	0.050	20.00	4.47	0.45	0.28	0.17	6.30	2.66	0.65	0.80	3.43	2.75	0.07	26.91	26.91	23.00	22.70	2.74	3.04	1.00	52.84	0.014	0.57%	0.785	3.174	2.493	CB1	OK	OK	OK	OK	Roadway Area
DR02-10		DR01-24	SPB	28+30.00	26.42	RT	28.50	0.03	0.90	0.03	0.84	0.050	20.00	4.47	2.51	0.18	0.17	6.30	2.66	0.65	0.80	3.43	2.75	2.32	26.91	22.36	22.50	18.00	3.24	3.19	1.00	98.55	0.014	4.57%	0.785	9.001	7.069	CB1	OK	OK	OK	OK	Roadway Area
DR01-21		DR01-22	SPB	27+30.00	29.25	LT	6.00	0.02	0.90	0.02	0.02	0.050	20.00	4.47	0.56	0.02	0.54	6.30	2.66	0.65	0.80	3.43	2.75	0.06	22.86	22.36	18.60	18.50	3.26	2.86	0.8	6.00	0.014	1.67%	0.541	4.803	2.599	Special W	OK	OK	OK	OK	Sidewalk
DR01-22		**DR01-24**	**SPB**	**27+30.00**	**26.45**	**LT**	**29.50**	**0.07**	**0.90**	**0.06**	**0.08**	**0.037**	**20.00**	**3.84**	**0.78**	**0.22**	**0.43**	**6.30**	**2.66**	**0.65**	**0.80**	**3.43**	**2.75**	**0.22**	**22.36**	**22.36**	**18.50**	**18.00**	**2.69**	**3.19**	**1.00**	**52.94**	**0.014**	**0.94%**	**0.785**	**4.094**	**3.215**	CB1	OK	OK	OK	OK	**Roadway Area**
DR01-23		DR01-24	SPB	27+30.00	29.25	RT	6.00	0.02	0.90	0.02	0.02	0.050	20.00	4.47	0.56	0.02	0.54	6.30	2.66	0.65	0.80	3.43	2.75	0.06	22.86	22.36	18.10	18.00	3.76	3.36	0.8	6.00	0.014	1.67%	0.541	4.803	2.599	Special W	OK	OK	OK	OK	Sidewalk
DR01-24		DR01-26	SPB	27+30.00	26.45	RT	28.50	0.06	0.90	0.06	1.00	0.037	20.00	3.84	2.70	0.19	0.43	6.30	2.66	0.65	0.80	3.43	2.75	2.75	22.36	19.97	18.00	16.25	3.19	2.55	1.00	75.00	0.014	2.33%	0.785	6.434	5.054	CB1	OK	OK	OK	OK	Roadway Area
DR01-26		DR01-27	SPB	26+55.70	26.40	RT	34.33	0.05	0.90	0.04	1.04	0.002	20.00	0.94	2.76	0.06	1.32	6.30	2.66	0.65	0.80	3.43	2.75	2.88	19.97	19.70	16.25	**16.00**	2.55	2.53	1.00	17.53	0.014	1.43%	0.785	5.030	3.951	CB1	OK	OK	OK	OK	
DR01-29		DR01-27	Boat Access	10+40.00	10.42	LT	0.00	0.05	0.90	0.04	0.04	0.005	20.00	1.40	1.26	0.07	1.19	6.30	2.66	0.65	0.80	3.43	2.75	0.11	17.88	20.00	15.00	14.50	1.71	4.33	1.00	24.58	0.014	2.03%	0.785	6.008	4.718	CB1	OK	OK	OK	OK	
DR01-1		DR01-5	SPB	24+15.00	21.48	LT	31.50	0.08	0.90	0.07	0.07	0.004	20.00	1.26	1.54	0.02	1.52	6.30	2.66	0.65	0.80	3.43	2.75	0.20	18.75	19.05	15.60	13.67	2.31	4.54	0.67	14.48	0.014	13.33%	0.353	11.775	4.151	CB1	OK	OK	OK	OK	CB 240A Lateral Velocity OK
DR01-10		DR01-5	SPB	24+15.00	26.38	RT	37.50	0.10	0.90	0.09	0.09	0.004	20.00	1.26	1.60	0.09	1.52	6.30	2.66	0.65	0.80	3.43	2.75	0.25	18.68	19.05	14.75	13.67	3.09	4.54	0.67	31.48	0.014	3.43%	0.353	5.974	2.106	CB1	OK	OK	OK	OK	CB 240A
DR01-5		DR01-6	SPB	24+18.00	7.00	LT	0.00	0.00	0.90	0.00	0.16	0.004	20.00	1.26	1.93	0.33	0.00	6.30	2.66	0.65	0.80	3.43	2.75	0.45	19.05	19.30	13.34	12.98	4.54	5.15	1.00	63.00	0.014	0.57%	0.785	3.184	2.501	CB2-48	OK	OK	OK	OK	MH Type 200A
DR01-2	DR01-5		SPB	24+83.00	21.48	LT	31.50	0.08	0.90	0.07	0.07	0.003	20.00	1.15	1.01	0.02	0.99	6.30	2.66	0.65	0.80	3.43	2.75	0.20	18.60	19.05	15.50	13.40	2.26	4.81	0.67	14.48	0.014	14.50%	0.353	12.283	4.330	CB1	OK	OK	OK	OK	CB 240D Lateral Velocity OK
DR01-11	DR01-5		SPB	24+83.00	32.51	RT	45.50	0.15	0.90	0.13	0.13	0.003	20.00	1.15	1.16	0.17	0.99	6.30	2.66	0.65	0.80	3.43	2.75	0.36	18.36	19.05	14.00	13.40	3.52	4.81	0.67	39.51	0.014	1.52%	0.353	3.975	1.401	CB1	OK	OK	OK	OK	CB 240D
	DR01-5	DR01-6	SPB	24+83.00	7.00	LT	0.00	0.00	0.90	0.00	0.37	0.003	20.00	1.15	2.13	0.20	0.00	6.30	2.66	0.65	0.80	3.43	2.75	1.01	19.05	19.30	12.98	12.76	4.90	5.37	1.00	37.50	0.014	0.58%	0.785	3.197	2.511	CB2-48	OK	OK	OK	OK	Tee Connection
DR01-3	DR01-5		SPB	25+20.50	21.48	LT	31.50	0.04	0.90	0.04	0.04	0.003	20.00	1.15	0.56	0.02	0.55	6.30	2.66	0.65	0.80	3.43	2.75	0.11	18.72	19.05	15.60	13.05	2.28	5.16	0.67	14.48	0.014	17.61%	0.353	13.535	4.772	CB1	OK	OK	OK	OK	CB 240D Lateral Velocity OK
DR01-12	DR01-5		SPB	25+20.50	32.89	RT	45.50	0.13	0.90	0.11	0.11	0.003	20.00	1.15	0.65	0.11	0.55	6.30	2.66	0.65	0.80	3.43	2.75	0.31	18.48	19.05	14.55	13.05	3.09	5.16	0.67	39.89	0.014	3.76%	0.353	6.254	2.205	CB1	OK	OK	OK	OK	CB 240D
	DR01-5	DR01-6	SPB	25+20.50	7.00	LT	0.00	0.00	0.90	0.00	0.52	0.003	20.00	1.15	2.45	0.32	0.00	6.30	2.66	0.65	0.80	3.43	2.75	1.43	19.05	19.30	12.76	12.40	5.13	5.73	1.00	61.34	0.014	0.58%	0.785	3.204	2.517	CB2-48	OK	OK	OK	OK	Tee Connection to MH Type 200A
DR01-4		DR01-6	SPB	25+76.50	22.78	LT	33.00	0.07	0.90	0.06	0.06	0.013	20.00	2.28	0.53	0.02	0.51	6.30	2.66	0.65	0.80	3.43	2.75	0.18	19.07	19.30	15.60	12.73	2.63	5.73	0.67	14.53	0.014	19.75%	0.353	14.334	5.054	CB1	OK	OK	OK	OK	CB 240D Lateral Velocity OK
DR01-6		DR01-7	SPB	25+79.63	8.33	LT	0.00	0.00	0.90	0.00	0.58	0.013	20.00	2.28	2.55	0.11	0.00	6.30	2.66	0.65	0.80	3.43	2.75	1.60	19.30	19.67	12.40	10.50	5.73	8.00	1.00	51.69	0.014	3.68%	0.785	8.076	6.343	CB2-48	OK	OK	OK	OK	MH Type 200A
DR01-7		DR01-8	SPB	26+27.23	17.63	RT	0.00	0.00	9.00	0.00	0.58	0.013	20.00	2.28	2.58	0.03	0.00	6.30	2.66	0.65	0.80	3.43	2.75	1.60	19.67	19.73	10.50	10.10	8.00	8.46	1.00	12.54	0.014	3.19%	0.785	7.523	5.909	CB2-48	OK	OK	OK	OK	MH Type 202B Special Pipe Crossing Structure
DR06-5		DR06-10	Dallas-W	12+45.00	14.42	LT	14.00	0.04	0.90	0.04	0.04	0.004	20.00	1.26	1.21	0.07	1.13	6.30	2.66	0.65	0.80	3.43	2.75	0.10	16.05	16.20	12.88	12.38	2.33	2.98	0.67	21.42	0.014	2.33%	0.353	4.928	1.737	CB1	OK	OK	OK	OK	CB 242B
DR06-7		DR06-10	Dallas-W	12+45.00	14.42	RT	14.00	0.03	0.90	0.03	0.03	0.004	20.00	1.26	1.15	0.01	1.13	6.30	2.66	0.65	0.80	3.43	2.75	0.08	16.05	16.20	12.88	12.38	2.33	2.98	0.67	7.42	0.014	6.74%	0.353	8.372	2.952	CB1	OK	OK	OK	OK	CB 242B
DR06-10		DR06-9	Dallas-W	12+42.00	7.00	RT	0.00	0.00	0.90	0.00	0.06	0.004	20.00	1.26	1.27	0.06	0.00	6.30	2.66	0.65	0.80	3.43	2.75	0.18	16.20	16.37	12.05	11.30	2.98	3.90	1.00	26.16	0.014	2.87%	0.785	7.132	5.602	CB1	OK	OK	OK	OK	MH Type 200A
DR06-3		DR06-9	Dallas-W	12+18.60	40.07	LT	0.00	0.11	0.90	0.10	0.10	0.015	20.00	2.45	0.71	0.17	0.54	6.30	2.66	0.65	0.80	3.43	2.75	0.28	15.80	17.05	12.63	11.67	2.33	4.54	0.67	47.07	0.014	2.04%	0.353	4.606	1.624	CB1	OK	OK	OK	OK	CB 240D
DR06-9		DR06-8	Dallas-W	12+15.85	7.00	RT	0.00	0.00	0.90	0.00	0.17	0.015	20.00	2.45	1.39	0.12	0.00	6.30	2.66	0.65	0.80	3.43	2.75	0.46	16.37	17.05	11.30	11.17	3.90	4.72	1.00	23.10	0.014	0.58%	0.785	3.220	2.529	CB2-48	OK	OK	OK	OK	
DR06-2	DR06-9		Dallas-W	11+92.75	40.07	LT	0.00	0.09	0.90	0.09	0.09	0.015	20.00	2.45	0.70	0.16	0.54	6.30	2.66	0.65	0.80	3.43	2.75	0.23	15.80	17.05	12.63	11.50	2.33	4.71	0.67	47.07	0.014	2.40%	0.353	4.997	1.762	CB1	OK	OK	OK	OK	CB 240D
	DR06-9	DR06-8	Dallas-W	11+92.75	7.00	RT	0.00	0.00	0.90	0.00	0.25	0.015	20.00	2.45	1.50	0.12	0.00	6.30	2.66	0.65	0.80	3.43	2.75	0.69	16.37	17.05	11.17	11.04	4.03	4.84	1.00	22.75	0.014	0.58%	0.785	3.221	2.530	CB2-48	OK	OK	OK	OK	Tee Connection
DR06-1	DR06-9		Dallas-W	11+70.00	71.60	LT	0.00	0.15	0.90	0.13	0.13	0.015	20.00	2.45	0.89	0.21	0.68	6.30	2.66	0.65	0.80	3.43	2.75	0.36	17.15	17.05	14.25	11.35	2.06	4.86	0.67	78.60	0.014	3.69%	0.353	6.195	2.184	CB1	OK	OK	OK	OK	CB 240D
	DR06-9	DR06-8	Dallas-W	11+70.00	7.00	RT	0.00	0.00	0.90	0.00	0.38	0.015	20.00	2.45	1.58	0.07	0.00	6.30	2.66	0.65	0.80	3.43	2.75	1.06	16.37	17.05	11.03	10.95	4.17	4.93	1.00	13.99	0.014	0.58%	0.785	3.205	2.517	CB2-48	OK	OK	OK	OK	MH Type 200A
DR06-4		DR06-8	Dallas-W	11+59.00	14.42	LT	14.00	0.08	0.90	0.07	0.07	0.018	20.00	2.68	0.80	0.05	0.75	6.30	2.66	0.65	0.80	3.43	2.75	0.20	16.75	17.05	12.75	11.78	3.16	4.43	0.67	21.42	0.014	4.53%	0.353	6.863	2.420	CB1	OK	OK	OK	OK	CB 242B
DR06-6		DR06-8	Dallas-W	11+59.00	14.42	RT	14.00	0.29	0.90	0.26	0.26	0.018	20.00	2.68	0.76	0.02	0.75	6.30	2.66	0.65	0.80	3.43	2.75	0.72	16.75	17.05	12.25	11.78	3.66	4.43	0.67	7.42	0.014	6.33%	0.353	8.117	2.862	CB1	OK	OK	OK	OK	
DR06-8		DR01-8	Dallas-W	11+56.00	7.00	RT	0.00	0.00	0.90	0.00	0.72	0.018	20.00	2.68	2.36	0.79	0.00	6.30	2.66	0.65	0.80	3.43	2.75	1.98	17.05	19.73	10.95	10.10	4.43	7.96	1.50	179.52	0.014	0.47%	1.767	3.798	6.712	CB2-48	OK	OK	OK	OK	MH Type 200A
DR01-8		DR01-9	SPB	26+38.05	24.45	RT	14.00	0.00	0.90	0.00	1.30	0.013	20.00	2.28	2.63	0.05	0.00	6.30	2.66	0.65	0.80	3.43	2.75	3.58	19.73	19.70	10.10	9.70	7.96	8.33	1.50	21.35	0.014	1.87%	1.767	7.555	13.351	CB2-48	OK	OK	OK	OK	MH Type 200A
DR01-16		DR01-17	Dallas-E	10+25.00	11.42	LT	14.00	0.21	0.90	0.19	0.19	0.003	20.00	1.10	1.55	0.03	1.52	6.30	2.66	0.65	0.80	3.43	2.75	0.51	18.60	18.72	14.10	12.10	3.66	5.78	0.67	17.42	0.014	11.48%	0.353	10.928	3.853	CB1	OK	OK	OK	OK	CB 242B Lateral Velocity OK
DR01-18		DR01-17	Dallas-E	10+28.00	12.18	RT	14.00	0.17	0.90	0.16	0.16	0.003	20.00	1.10	1.53	0.01	1.52	6.30	2.66	0.65	0.80	3.43	2.75	0.43	18.60	18.72	14.10	12.10	3.66	5.78	0.67	6.18	0.014	32.36%	0.353	18.348	6.469	CB1	OK	OK	OK	OK	CB 240C Lateral Velocity OK
DR01-17		DR01-9	Dallas-E	10+28.00	6.00	RT	0.00	0.00	0.90	0.00	0.34	0.003	20.00	1.10	1.68	0.13	0.00	6.30	2.66	0.65	0.80	3.43	2.75	0.94	18.72	19.70	11.77	10.20	5.78	8.33	1.00	56.57	0.014	2.78%	0.785	7.617	5.511	CB2-48	OK	OK	OK	OK	MH Type 200A
DR01-9		DR01-27	SPB	26+45.45	45.30	RT	14.00	0.00	0.90	0.00	1.64	0.003	20.00	1.10	2.69	0.06	0.00	6.30	2.66	0.65	0.80	3.43	2.75	4.52	19.70	20.00	9.70	9.65	8.33	8.68	1.50	12.00	0.014	0.42%	1.767	3.563	6.296	CB2-48	OK	OK	OK	MH	MH Type 200A
DR01-27		Rain Garden	SPB	26+54.95	43.90	RT	0.00	0.00	0.90	0.00	2.73	0.001	20.00	0.63	2.98	0.22	0.00	6.30	2.66	0.65	0.80	3.43	2.75	7.51	20.00	15.25	9.65	9.00	8.68	4.58	1.50	70.00	0.014	0.93%	1.767	6.319	9.399	Special	OK	OK	MH	OK	Special Structure/Out fall to rain garden.
Rain Garden	DR02-22	DR02-24	Boat Access	12+20.00	9.67	LT	0.00	1.41	0.90	1.27	1.27													0.78	13.00	13.00	10.27	10.15	1.89	2.01	0.67	23.46	0.009	0.51%	0.353	3.588	1.265	CB1	OK	OK	OK	OK	Recollection pipes under rain garden into Str. DR02-24.
DR02-24		DR02-25	Boat Access	12+20.00	9.50	LT	22.00	0.20	0.90	0.18	0.18	0.022	20.00	2.97	3.41	0.43	0.53	6.30	2.66	0.65	0.80	3.43	2.75	1.27	15.37	15.21	10.15	9.90	3.55	3.64	1.50	80.00	0.014	0.31%	1.767	3.086	5.453	CB2-48	OK	OK	OK	OK	Recollection Pipes and Rain Garden Area
DR02-25		DR02-27	Boat Access	13+00.00	9.50	LT	22.00	0.05	0.90	0.04	0.22	0.022	20.00	2.97	3.86	0.45	0.45	6.30	2.66	0.65	0.80	3.43	2.75	1.39	15.21	15.07	9.90	9.60	3.64	3.80	1.50	87.25	0.014	0.34%	1.767	3.237	5.720	CB2-48	OK	OK	OK	OK	
DR02-31		DR02-30	SPB	30+36.00	45.95	RT	47.00	0.61	0.90	0.55	0.55	0.01	20.00	2.00	0.05	0.05	0.00	6.30	2.66	0.65	0.80	3.43	2.75	1.51	16.00	13.00	14.14	10.50	0.69	1.33	1.00	39.94	0.014	9.11%	0.785	12.716	9.987	CB1	OK	OK	OK	OK	Velocity OK
DR02-30		DR02-29	SPB	30+06.20	71.93	RT	0.00	0.00	0.90	0.00	3.28	0.01	20.00	2.00	0.09	0.04	0.00	6.30	2.66	0.65	0.80	3.43	2.75	6.73	14.00	15.25	10.10	10.00	1.73	3.08	2.00	13.50	0.014	0.74%	3.142	5.755	18.080	CB1	OK	OK	OK	OK	Assume Emergency Outfall fully engaged with weir fully engaged.
DR02-28		DR02-29	SPB	29+91.10	93.00	RT	0.00	0.00	0.90	0.00	2.73	0.01	20.00	2.00	0.04	0.04	0.00	6.30	2.66	0.65	0.80	3.43	2.75	6.66	14.00	15.25	10.15	10.00	1.68	3.08	2.00	15.00	0.014	1.00%	3.142	6.687	21.007	CB1	OK	OK	OK	OK	14.00=Jailhouse Weir Invert Elevation. (Incl. RG Area).
DR02-29		DR02-27	SPB	30+04.55	85.34	RT	0.00	0.00	0.90	0.00	3.28	0.01	20.00	2.00	0.16	0.07	0.00	6.30	2.66	0.65	0.80	3.43	2.75	8.24	15.25	15.07	10.00	9.60	3.08	3.30	2.00	32.26	0.014	1.24%	3.142	7.446	23.391	CB2-48	OK	OK	OK	OK	
DR02-27		DR02-26	SPB	30+09.25	117.30	RT	0.00	0.01	0.90	0.01	3.51	0.02	20.00	2.97	3.92	0.06	0.48	6.30	2.66	0.65	0.80	3.43	2.75	9.66	15.07	15.00	9.60	9.15	3.30	3.68	2.00	28.09	0.014	1.60%	3.142	8.463	26.588	CB2-48	OK	OK	OK	OK	
DR02-26		Outfall	SPB	30+74.30	127.95	RT	0.00	0.00	0.90	0.00	3.51	0.01	20.00	2.00	3.99	0.07	0.00	6.30	2.66	0.65	0.80	3.43	2.75	9.66	15.00	11.00	9.15	8.64	3.68	0.19	2.00	35.00	0.014	1.46%	3.142	8.072	25.357	CB2-48	OK	OK	OK	OK	
DR2-33		Rain Garden	Boat Access	11+50.00	9.48	LT	0.00	0.08	0.90	0.07	0.06	0.005	20.00	1.41	1.89	0.12	1.77	6.30	2.66	0.65	0.80	3.43	2.75	0.18	16.35	13.00	10.15	9.00	5.03	2.83	1.00	48.00	0.014	2.40%	0.785	6.520	5.121	CB2-48	OK	OK	OK	OK	
Boat Access Road Rain Garden																								0.78																			Flows developed from KCRTS
Orr Street Rain Garden																								0.07																			Flows developed from KCRTS

South Park Bridge

Conveyance Calcs — 100-YEAR EVENT

45647
9/30/2009

MRI = 100
ar = 2.61
br = 0.63

Pavement thickness = 0.00 ft

Pipe thickness = 0.17 ft

INLETS:					DISCHARGE/FLOW CALCULATION:																			INLET INFORMATION:				PIPE INFORMATION:								CHECKS:					
Drainage Structure # from	Pipe Number	To Drainage Structure # to	Alignment	Station	offset (FT)	Direction	Section Width FT	A (Acre)	C	C*A (Acre)	Cumm. C*A (Acre)	Surface Slope (S_w) (Percent)	Surface K_B	Surface Velocity V	Tc (Minute)	Tt Pipe (Minute)	Tt Surface (Minute)	Tc used (6.3 <=Tc<=100) (Minute)	ar	br	ir	Pr (Inches)	Ir (in/hr)	Q (CFS)	Inlet Rim (FT)	Outlet Rim (FT)	Inlet Invert (FT)	Outlet Invert (FT)	Inlet Cover (FT)	Outlet Cover (FT)	Pipe Diameter (FT)	Pipe Length (FT)	Roughness Coefficient (Manning's n)	Slope (FT/FT)	Pipe Area (FT^2)	Vel (FPS)	Capacity Qfull (CFS)	Structure Type	Velocity Check	Capacity Check	Inlet Cover Check	Outlet Cover check	Notes
North Basin																						4.1																					
DR03-1		DR03-2	SPB	35+70.00	26.25	LT	28.50	0.11	0.90	0.10	0.10	0.036	20.00	3.78	1.03	0.29	0.75	6.30	2.61	0.63	0.82	4.10	3.36	0.34	46.41	42.00	42.00	37.00	3.74	4.33	0.5	101.00	0.014	4.95%	0.196	5.904	1.159	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR03-2		DR04-9	SPB	36+71.00	26.25	LT	28.50	0.07	0.90	0.06	0.16	0.050	20.00	4.47	1.31	0.28	0.38	6.30	2.61	0.63	0.82	4.10	3.36	0.54	42.00	37.00	37.00	32.00	4.33	4.33	0.5	99.00	0.014	5.05%	0.196	5.963	1.171	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR04-9		DR04-10	SPB	37+70.00	26.25	LT	28.50	0.06	0.90	0.06	0.22	0.050	20.00	4.47	1.76	0.45	0.37	6.30	2.61	0.63	0.82	4.10	3.36	0.73	37.00	30.90	32.00	25.90	4.33	4.33	0.5	145.99	0.014	4.18%	0.196	5.424	1.065	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR03-3		DR03-4	SPB	35+70.00	26.25	RT	28.50	0.11	0.90	0.10	0.10	0.036	20.00	3.78	1.03	0.29	0.75	6.30	2.61	0.63	0.82	4.10	3.36	0.34	46.41	42.00	42.00	37.00	3.74	4.33	0.5	101.00	0.014	4.95%	0.196	5.904	1.159	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR03-4		DR04-15	SPB	36+71.00	26.25	RT	28.50	0.07	0.90	0.06	0.16	0.050	20.00	4.47	1.31	0.28	0.38	6.30	2.61	0.63	0.82	4.10	3.36	0.54	42.00	37.00	37.00	32.00	4.33	4.33	0.5	99.09	0.014	5.05%	0.196	5.961	1.170	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR04-15		DR04-16	SPB	37+70.00	26.25	RT	28.50	0.06	0.90	0.06	0.22	0.050	20.00	4.47	1.76	0.45	0.37	6.30	2.61	0.63	0.82	4.10	3.36	0.73	37.00	30.90	32.00	26.25	4.33	3.98	0.5	143.90	0.014	4.00%	0.196	5.304	1.042	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR04-21		DR04-16	SPB	39+15.00	29.25	RT	6.00	0.09	0.90	0.08	0.08	0.050	20.00	4.47	0.56	0.02	0.54	6.30	2.61	0.63	0.82	4.10	3.36	0.28	31.40	30.90	26.25	26.07	4.15	3.83	0.8	6.00	0.014	3.00%	0.541	6.444	3.486	Special W	OK	OK	OK	OK	Sidewalk
DR04-16		DR04-10	SPB	39+15.00	26.42	RT	28.50	0.09	0.90	0.09	0.39	0.050	20.00	4.47	2.00	0.24	0.54	6.30	2.61	0.63	0.82	4.10	3.36	1.30	30.90	30.90	25.90	25.50	3.83	4.23	1.0	52.09	0.014	0.77%	0.785	3.691	2.899	CB1	OK	OK	OK	OK	Roadway Area
DR04-7		DR04-10	SPB	39+15.00	29.25	LT	6.00	0.09	0.90	0.08	0.08	0.050	20.00	4.47	0.55	0.01	0.54	6.30	2.61	0.63	0.82	4.10	3.36	0.28	31.40	30.90	26.10	25.67	4.30	4.23	0.8	6.00	0.014	7.17%	0.541	9.959	5.389	Special W	OK	OK	OK	OK	Sidewalk
DR04-10		DR04-11	SPB	39+15.00	25.50	LT	28.50	0.10	0.90	0.09	0.77	0.050	20.00	4.47	2.10	0.10	0.54	6.30	2.61	0.63	0.82	4.10	3.36	2.60	30.90	27.00	25.50	22.90	4.23	2.93	1.0	56.12	0.014	4.63%	0.785	9.067	7.121	CB2-48	OK	OK	OK	OK	Roadway Area
DR04-17		DR04-11	SPB	39+70.00	26.42	RT	28.50	0.04	0.90	0.03	0.03	0.050	20.00	4.47	0.46	0.26	0.20	6.30	2.61	0.63	0.82	4.10	3.36	0.11	27.00	27.00	23.25	22.90	2.58	2.93	1.0	52.84	0.014	0.66%	0.785	3.428	2.693	CB1	OK	OK	OK	OK	Roadway Area
DR04-11		**DR04-12**	**SPB**	**39+70.00**	**26.42**	**LT**	**28.50**	**0.04**	**0.90**	**0.03**	**0.84**	**0.050**	**20.00**	**4.47**	**2.31**	**0.21**	**0.20**	**6.30**	**2.61**	**0.63**	**0.82**	**4.10**	**3.36**	**2.82**	**27.00**	**22.12**	**22.90**	**18.00**	**2.93**	**2.95**	**1.0**	**111.21**	**0.014**	**4.41%**	**0.785**	**8.842**	**6.944**	CB1	OK	OK	OK	OK	**Roadway Area**
DR04-18		DR04-12	SPB	40+80.00	26.42	RT	28.50	0.07	0.90	0.06	0.06	0.041	20.00	4.05	0.73	0.28	0.45	6.30	6.30	2.61	0.63	0.82	4.10	3.36	0.22	22.12	22.12	18.30	18.00	2.65	2.95	1.0	52.84	0.014	0.57%	0.785	3.174	2.493	CB1	OK	OK	OK	OK	Roadway Area
DR04-12		DR04-13	SPB	40+80.00	26.42	LT	28.50	0.07	0.90	0.07	0.97	0.041	20.00	4.05	2.53	0.22	0.45	6.30	2.61	0.63	0.82	4.10	3.36	3.25	22.12	18.96	18.00	14.90	2.95	2.89	1.0	99.52	0.014	3.11%	0.785	7.434	5.839	CB1	OK	OK	OK	OK	Roadway Area
DR04-19		DR04-13	SPB	41+80.00	26.42	RT	28.50	0.07	0.90	0.06	0.06	0.022	20.00	2.97	0.82	0.26	0.56	6.30	2.61	0.63	0.82	4.10	3.36	0.20	18.96	18.96	15.25	14.90	2.54	2.89	1.0	52.84	0.014	0.66%	0.785	3.428	2.693	CB1	OK	OK	OK	OK	Roadway Area
DR04-13		DR04-14	SPB	41+80.00	26.42	LT	28.50	0.07	0.90	0.06	1.09	0.022	20.00	2.97	2.63	0.10	0.56	6.30	2.61	0.63	0.82	4.10	3.36	3.65	18.96	17.98	14.90	13.00	2.89	3.81	1.0	48.53	0.014	3.92%	0.785	8.335	6.546	CB1	OK	OK	OK	OK	Roadway Area
DR04-22		DR04-20	SPB	42+30.00	29.25	RT	6.00	0.05	0.90	0.04	0.04	0.003	20.00	1.10	0.78	0.02	0.76	6.30	2.61	0.63	0.82	4.10	3.36	0.15	18.48	17.98	14.10	14.00	3.38	2.98	0.8	6.00	0.014	1.67%	0.541	4.803	2.599	Special W	OK	OK	OK	OK	Sidewalk
DR04-20		DR04-14	SPB	42+30.00	26.42	RT	28.50	0.03	0.90	0.03	0.07	0.003	20.00	1.10	1.63	0.09	0.76	6.30	2.61	0.63	0.82	4.10	3.36	0.25	17.98	17.98	14.00	11.25	2.81	5.56	1.0	52.84	0.014	5.20%	0.785	9.610	7.547	CB1	OK	OK	OK	OK	Roadway Area
DR04-8		DR04-14	SPB	42+30.00	29.25	LT	6.00	0.05	0.90	0.04	0.04	0.022	20.00	2.97	0.30	0.02	0.28	6.30	2.61	0.63	0.82	4.10	3.36	0.15	18.48	17.98	11.35	11.25	6.13	5.73	0.8	6.00	0.014	1.67%	0.541	4.803	2.599	Special W	OK	OK	OK	OK	Sidewalk
DR04-14		DR05-2	SPB	42+30.00	26.50	LT	28.50	0.03	0.90	0.03	1.23	0.022	20.00	2.97	2.78	0.15	0.28	6.30	2.61	0.63	0.82	4.10	3.36	4.14	17.98	17.75	11.25	10.45	5.56	6.13	1.0	48.58	0.014	1.65%	0.785	5.405	4.245	CB2-48	OK	OK	OK	OK	Roadway Area
DR05-15		DR05-2	SPB	42+80.00	26.42	RT	34.33	0.04	0.90	0.04	0.04	0.003	20.00	1.11	0.85	0.10	0.75	6.30	2.61	0.63	0.82	4.10	3.36	0.12	17.67	17.75	12.75	10.50	3.75	6.08	1.0	51.92	0.014	4.33%	0.785	8.769	6.887	CB1	OK	OK	OK	OK	
DR05-18		DR05-7	SPB	45+10.00	26.40	RT	34.33	0.12	0.90	0.11	0.11	0.003	20.00	1.10	0.11	0.07	0.05	6.30	2.61	0.63	0.82	4.10	3.36	0.35	17.70	17.71	13.50	12.90	3.03	3.64	1.0	26.40	0.014	2.27%	0.785	6.350	4.987	CB1	OK	OK	OK	OK	CB Type 240B
DR05-9		DR05-7	SPB	45+10.00	25.48	LT	34.33	0.11	0.90	0.10	0.10	0.003	20.00	1.10	1.59	0.07	1.52	6.30	2.61	0.63	0.82	4.10	3.36	0.34	17.40	17.71	13.50	12.90	2.73	3.64	1.0	25.48	0.014	2.35%	0.785	6.464	5.077	CB1	OK	OK	OK	OK	CB Type 240C
DR05-7		DR05-6	SPB	45+07.00	0.00	RT	0.00	0.00	0.90	0.00	0.21	0.003	20.00	1.10	1.97	0.38	1.31	6.30	2.61	0.63	0.82	4.10	3.36	0.70	17.71	18.04	12.90	11.90	3.64	4.97	1.0	97.16	0.014	1.03%	0.785	4.273	3.356	CB1	OK	OK	OK	OK	MH Type 200A
DR05-17		DR05-6	SPB	44+10.00	25.48	RT	34.33	0.12	0.90	0.10	0.10	0.002	20.00	0.89	1.91	0.05	1.86	6.30	2.61	0.63	0.82	4.10	3.36	0.35	17.60	18.04	13.10	11.90	3.33	4.97	1.0	25.48	0.014	4.71%	0.785	9.141	7.180	CB1	OK	OK	OK	OK	CB Type 240D
DR05-8		DR05-6	SPB	44+21.00	25.48	LT	34.33	0.11	0.90	0.09	0.09	0.002	20.00	0.89	1.92	0.06	1.86	6.30	2.61	0.63	0.82	4.10	3.36	0.32	17.45	18.04	13.00	11.90	3.28	4.97	1.0	27.75	0.014	3.96%	0.785	8.387	6.587	CB1	OK	OK	OK	OK	CB Type 240D
DR05-6		DR05-5	SPB	44+10.00	0.00	RT	0.00	0.00	0.90	0.00	0.41	0.002	20.00	0.89	2.14	0.22	0.00	6.30	2.61	0.63	0.82	4.10	3.36	1.36	18.04	18.16	11.90	11.20	4.97	5.79	1.0	59.91	0.014	1.17%	0.785	4.553	3.576	CB2-48	OK	OK	OK	OK	MH Type 200A
DR05-5		DR05-4	SPB	43+50.00	0.00	RT	0.00	0.00	0.90	0.00	0.41	0.002	20.00	0.89	2.32	0.18	0.00	6.30	2.61	0.63	0.82	4.10	3.36	1.36	18.16	18.24	11.20	10.90	5.79	6.17	1.0	40.03	0.014	0.75%	0.785	3.647	2.864	CB2-48	OK	OK	OK	OK	MH Type 200A
DR05-16		DR05-4	SPB	43+10.00	25.48	RT	34.33	0.02	0.90	0.02	0.02	0.001	20.00	0.63	0.86	0.07	0.79	6.30	2.61	0.63	0.82	4.10	3.36	0.07	17.65	18.24	11.50	10.90	4.98	6.17	1.0	25.48	0.014	2.35%	0.785	6.464	5.077	CB2-48	OK	OK	OK	OK	CB Type 240D
DR05-4		DR05-3	SPB	43+10.00	0.00	RT	34.33	0.00	0.90	0.00	0.43	0.001	20.00	0.63	2.45	0.13	0.00	6.30	2.61	0.63	0.82	4.10	3.36	1.44	18.24	17.65	10.90	10.75	6.17	5.73	1.0	25.50	0.014	0.59%	0.785	3.231	2.537	CB2-48	OK	OK	OK	OK	MH Type 200A
DR05-3		DR05-2	SPB	43+10.00	25.50	LT	34.33	0.03	0.90	0.03	0.45	0.001	20.00	0.63	2.61	0.16	0.79	6.30	2.61	0.63	0.82	4.10	3.36	1.53	17.65	17.75	10.75	10.60	5.73	5.98	1.0	29.16	0.014	0.51%	0.785	3.021	2.373	CB2-48	OK	OK	OK	OK	
DR05-2		DR05-1	SPB	42+80.00	25.50	LT	34.33	0.04	0.90	0.04	1.76	0.003	20.00	1.10	2.88	0.10	0.76	6.30	2.61	0.63	0.82	4.10	3.36	5.92	17.75	17.75	10.20	10.10	5.88	5.98	1.5	22.50	0.014	0.44%	1.767	3.680	6.503	CB2-48	OK	OK	OK	OK	
DR05-1		DR04-6	SPB	42+80.00	48.00	LT	0.00	0.00	0.90	0.00	1.76	0.01	20.00	2.00	3.83	0.95	0.00	6.30	2.61	0.63	0.82	4.10	3.36	5.92	17.75	16.60	10.10	9.60	5.48	4.83	2.0	193.61	0.014	0.26%	3.142	3.398	10.675	CB2-48	OK	OK	OK	OK	
DR04-6		DR04-5	SPB	40+70.00	49.70	LT	0.00	0.00	0.90	0.00	1.11	0.01	20.00	2.00	4.53	0.69	0.00	6.30	2.61	0.63	0.82	4.10	3.36	3.72	16.60	16.58	9.60	9.21	4.83	5.20	2.0	144.50	0.014	0.27%	3.142	3.474	10.913	CB2-48	OK	OK	OK	OK	
DR04-2		DR03-5	SPB	38+49.17	53.07	LT	0.00	0.00	0.90	0.00	1.11	0.01	20.00	2.00	5.70	0.57	0.00	6.30	2.61	0.63	0.82	4.10	3.36	3.96	16.58	16.33	8.97	8.75	5.44	5.41	2.0	105.12	0.014	0.21%	3.142	3.059	9.610	CB2-48	OK	OK	OK	OK	
DR03-5		Outfall	SPB	37+45.00	39.00	LT	0.00	0.00	0.90	0.00	1.11	0.01	20.00	2.00	5.97	0.27	0.00	6.30	2.61	0.63	0.82	4.10	3.36	3.96	16.33	16.10	8.75	8.64	5.41	5.29	2.0	50.00	0.014	0.22%	3.142	3.136	9.853	CB2-48	OK	OK	OK	OK	Discharge to Waterway
DR04-5		DR04-4	SPB	39+39.38	55.23	LT	0.00	0.00	0.90	0.00	1.11	0.01	20.00	2.00	4.60	0.08	0.00	6.30	2.61	0.63	0.82	4.10	3.36	3.72	16.55	16.55	9.21	9.18	5.17	5.20	2.0	14.32	0.014	0.21%	3.142	3.061	9.615	CB2-48	OK	OK	OK	OK	
DR04-5	DR04-26	VAULT	SPB	39+39.38	55.23	LT	0.00	0.73	0.90	0.66	0.66	0.00	20.00	0.63	4.55	0.02	0.00	6.30	2.61	0.63	0.82	4.10	3.36	0.24	16.55	16.60	8.00	7.80	6.88	7.13	1.5	9.94	0.014	2.01%	1.767	7.829	13.836	CB2-48	OK	OK	OK	OK	
DR04-4		DR04-3	SPB	39+34.96	68.75	LT	0.00	0.00	0.90	0.00	1.11	0.01	20.00	2.00	5.07	0.47	0.00	6.30	2.61	0.63	0.82	4.10	3.36	3.72	16.55	16.55	9.18	9.00	5.20	5.38	2.0	86.00	0.014	0.21%	3.142	3.059	9.610	CB2-48	OK	OK	OK	OK	
DR04-3		DR04-2	SPB	38+52.67	66.67	LT	0.00	0.00	0.90	0.00	1.11	0.01	20.00	2.00	5.13	0.06	0.00	6.30	2.61	0.63	0.82	4.10	3.36	3.72	16.55	16.58	9.00	8.97	5.38	5.44	2.0	11.51	0.014	0.26%	3.142	3.414	10.724	CB2-48	OK	OK	OK	OK	
DR04-1		DR04-2	SPB	38+61.08	54.58	LT	0.00	0.73	0.90	0.66	0.00	0.01	20.00	2.00	4.60	0.06	0.00	6.30	2.61	0.63	0.82	4.10	3.36	0.24	16.60	16.58	9.30	9.25	5.63	5.66	1.5	12.03	0.014	0.42%	1.767	3.558	6.288	CB2-48	OK	OK	OK	OK	Vault water quality elevation = 9.3
BOEING																																									
	DR05-14	DR05-13	SPB	46+11.33	15.45	LT	46.00	0.44	0.90	0.40	0.40	0.01	20.00	2.00	10.13	0.13	10.00	10.13	2.61	0.63	0.61	4.10	2.49	1.00	16.86	15.18	11.35	11.20	3.84	2.31	1.5	30.63	0.014	0.49%	1.767	3.863	6.826	CB2-48	OK	OK	OK	OK	Area measured from Exhibit PXH6 of the TIR
DR05-13		DR05-12	SPB	46+10.33	15.20	RT	46.00	0.44	0.90	0.40	0.80	0.01	20.00	2.00	10.12	0.12	10.00	10.12	2.61	0.63	0.61	4.10	2.49	1.99	15.18	17.44	11.20	11.10	2.31	4.67	1.5	24.92	0.014	0.40%	1.767	3.497	6.179	CB1	OK	OK	OK	OK	Area measured from Exhibit PXH6 of the TIR
DR05-12		DR05-11	SPB	46+10.41	43.83	RT	0.00	0.00	0.90	0.00	0.80	0.01	20.00	2.00	10.99	0.87	0.00	10.99	2.61	0.63	0.58	4.10	2.36	1.89	17.44	17.35	11.10	10.00	4.67	5.68	1.5	209.75	0.014	0.52%	1.767	3.997	7.064	CB2-48	OK	OK	OK	OK	MH Type 200A
DR05-11		DR05-19	SPB	44+05.08	44.29	RT	164.00	3.10	0.90	2.79	3.59	0.01	20.00	2.00	11.57	0.58	4.45	11.57	2.61	0.63	0.56	4.10	2.29	8.21	17.35	17.75	10.00	9.46	5.18	6.12	2.0	143.06	0.014	0.38%	3.142	4.108	12.906	CB2-48	OK	OK	OK	OK	Area measured from Exhibit PXH6 (TIR) MH Type 200A
DR05-19		DR04-31	SPB	42+69.21	52.30	RT	0.00	0.03	0.90	0.03	3.62	0.01	20.00	2.00	12.06	0.48	0.00	12.06	2.61	0.63	0.54	4.10	2.23	8.07	17.75	17.10	9.46	9.00	6.12	5.93	2.0	119.73	0.014	0.38%	3.142	4.145	13.021	CB2-48	OK	OK	OK	OK	
DR04-31		DR04-30	SPB	41+57.00	65.18	RT	100.00	0.00	0.90	0.00	3.59	0.01	20.00	2.00	11.88	0.31	2.92	11.88	2.61	0.63	0.55	4.10	2.25	8.08	17.10	16.50	9.00	8.50	5.93	5.83	2.0	91.00	0.014	0.55%	3.142	4.956	15.571	CB2-48	OK	OK	OK	OK	
DR04-32		DR04-30	SPB	40+75.09	111.48	RT	3.00	0.83	0.90	0.75	0.75	0.01	20.00	2.00	2.96	0.04	2.92	6.30	2.61	0.63	0.82	4.10	3.36	2.51	16.50	16.89	9.90	8.50	5.43	7.22	1.0	24.85	0.014	5.63%	0.785	9.998	7.853	CB2-48	OK	OK	OK	OK	Area measured from Exhibit PXH6 of the TIR
DR04-30		DR04-29	SPB	40+68.76	87.45	RT	0.00	0.00	0.90	0.00	4.34	0.01	20.00	2.00	13.04	1.16	0.00	13.04	2.61	0.63	0.52	4.10	2.12	9.21	16.89	16.32	8.50	7.25	6.22	6.90	2.0	300.00	0.014	0.42%	3.142	4.316	13.560	CB2-48	OK	OK	OK	OK	
DR04-29		DR04-28	SPB	37+57.00	114.40	RT	0.00	0.07	0.90	0.06	4.40	0.01	20.00	2.00	13.18	0.14	0.00	13.18	2.61	0.63	0.51	4.10	2.11	9.27	16.32	16.23	7.25	7.15	6.90	6.91	2.0	32.00	0.014	0.31%	3.142	3.738	11.743	CB2-48	OK	OK	OK	OK	Area measured from Exhibit PXH6 of the TIR
DR04-25		DR04-24	SPB	40+62.30	53.50	RT	45.00	0.26	0.90	0.23	0.23	0.01	20.00	2.00	1.16	0.32	0.83	6.30	2.61	0.63	0.82	4.10	3.36	0.78	16.80	16.65	12.50	11.00	3.13	4.48	1.0	100.00	0.014	1.50%	0.785	5.159	4.052	CB1	OK	OK	OK	OK	
DR04-24		DR04-23	SPB	39+60.10	69.42	RT	45.00	0.15	0.90	0.13	0.36	0.01	20.00	2.00	0.37	0.32	0.83	6.30	2.61	0.63	0.82	4.10	3.36	1.22	16.65	16.55	11.00	9.50	4.48	5.88	1.0	100.00	0.014	1.50%	0.785	5.159	4.052	CB2-48	OK	OK	OK	OK	
DR04-23		DR04-28	SPB	38+54.95	77.60	RT	100.00	0.20	0.90	0.18	0.54	0.01	20.00	2.00	0.22	0.26	0.83	6.30	2.61	0.63	0.82	4.10	3.36	1.82	16.55	16.25	9.50	7.15	5.88	7.93	1.0	100.00	0.014	2.35%	0.785	6.457	5.072	CB2-48	OK	OK	OK	OK	
DR04-28		DR04-27	SPB	37+55.08	82.45	RT	0.00	0.00	0.90	0.00	4.94	0.01	20.00	2.00	13.35	0.17	0.00	13.35	2.61	0.63	0.51	4.10	2.09	10.33	16.25	16.15	7.15	6.95	6.93	7.03	2.0	44.90	0.014	0.45%	3.142	4.463	14.020	CB2-48	OK	OK	OK	OK	
DR04-34		DR04-27	SPB	38+21.00	32.50	RT	0.00	0.28	0.90	0.25	0.25	0.01	20.00	2.00	0.26	0.26	0.00	6.30	2.61	0.63	0.82	4.10	3.36	0.78	16.15	16.15	13.50	12.74	1.48	2.24	1.0	69.00	0.014	1.10%	0.785	4.421	3.472	CB1	OK	OK	OK	OK	
DR04-27		connect to outfall	SPB	37+52.40	37.62	RT	0.00	0.00	0.90	0.00	5.19	0.01	20.00	2.00	13.67	0.32	0.00	13.67	2.61	0.63	0.50	4.10	2.06	10.69	16.15	15.00	6.95	6.04	7.53	7.29	1.5	100.00	0.014	0.91%	1.767	5.205	9.305	CB2-48	OK		OK	OK	Existing 18-inch outfall pipe.

South Park Bridge

Conveyance Calcs — 100-YEAR EVENT

45647
9/30/2009

MRI = 100
ar = 2.61
br = 0.63

Pavement thickness = 0.00 ft

Pipe thickness = 0.17 ft

INLETS:					DISCHARGE/FLOW CALCULATION:																			INLET INFORMATION:						PIPE INFORMATION:								CHECKS:					
Drainage Structure # from	Pipe Number	To Drainage Structure # to	Alignment	Station	offset (FT)	Direction	Section Width FT	A (Acre)	C	C*A (Acre)	Cumm. C*A (Acre)	Surface Slope (S_w) (Percent)	Surface K_B	Surface Velocity V	Tc (Minute)	Tt Pipe (Minute)	Tt Surface (Minute)	Tc used (6.3 <=Tc<=100) (Minute)	ar	br	ir	Pr (Inches)	Ir (in/hr)	Q (CFS)	Inlet Rim (FT)	Outlet Rim (FT)	Inlet Invert (FT)	Outlet Invert (FT)	Inlet Cover (FT)	Outlet Cover (FT)	Pipe Diameter (FT)	Pipe Length (FT)	Roughness Coefficient (Manning's n)	Slope (FT/FT)	Pipe Area (FT^2)	Vel (FPS)	Capacity Qfull (CFS)	Structure Type	Velocity Check	Capacity Check	Inlet Cover Check	Outlet Cover check	Notes
South Basin																																											
DR02-14		DR02-13	SPB	32+30.00	26.25	RT	28.33	0.11	0.90	0.10	0.10	0.036	20.00	3.78	1.02	0.28	0.75	6.30	2.61	0.63	0.82	4.10	3.36	0.34	46.41	41.90	42.00	37.00	3.74	4.23	0.50	98.79	0.014	5.06%	0.196	5.970	1.172	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR02-13		DR02-12	SPB	31+30.00	26.25	RT	28.33	0.06	0.90	0.06	0.16	0.050	20.00	4.47	1.30	0.28	0.37	6.30	2.61	0.63	0.82	4.10	3.36	0.53	41.90	36.92	37.00	32.00	4.23	4.25	0.50	98.78	0.014	5.06%	0.196	5.970	1.172	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR02-12		DR02-11	SPB	30+30.00	26.25	RT	28.33	0.06	0.90	0.06	0.22	0.050	20.00	4.47	1.76	0.46	0.37	6.30	2.61	0.63	0.82	4.10	3.36	0.73	36.90	29.15	32.00	25.10	4.23	3.38	0.50	153.80	0.014	4.49%	0.196	5.621	1.104	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR02-9		DR02-8	SPB	32+30.00	26.25	LT	28.50	0.11	0.90	0.10	0.10	0.036	20.00	3.78	1.03	0.29	0.75	6.30	2.61	0.63	0.82	4.10	3.36	0.34	46.41	41.90	42.00	37.00	3.74	4.23	0.50	101.19	0.014	4.94%	0.196	5.899	1.158	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR02-8		DR02-7	SPB	31+30.00	26.25	LT	28.50	0.07	0.90	0.06	0.16	0.050	20.00	4.47	1.32	0.29	0.37	6.30	2.61	0.63	0.82	4.10	3.36	0.53	41.90	36.90	37.00	32.00	4.23	4.23	0.50	101.22	0.014	4.94%	0.196	5.898	1.158	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR02-7		DR02-6	SPB	30+30.00	26.25	LT	28.50	0.07	0.90	0.06	0.22	0.050	20.00	4.47	1.80	0.48	0.37	6.30	2.61	0.63	0.82	4.10	3.36	0.73	36.90	29.15	32.00	25.40	4.23	3.08	0.50	156.06	0.014	4.23%	0.196	5.457	1.071	Special	OK	OK	OK	OK	On Bridge Roadway Conveyance
DR02-1		DR02-6	SPB	28+75.00	29.25	LT	6.00	0.10	0.90	0.09	0.09	0.050	20.00	4.47	1.97	0.01	1.96	6.30	2.61	0.63	0.82	4.10	3.36	0.29	29.65	29.15	25.60	25.40	3.05	2.75	0.8	6.00	0.014	3.33%	0.541	6.792	3.675	Special W	OK	OK	OK	OK	Sidewalk
DR02-6		DR02-11	SPB	28+75.00	26.42	LT	28.50	0.10	0.90	0.09	0.40	0.050	20.00	4.47	2.25	0.28	0.58	6.30	2.61	0.63	0.82	4.10	3.36	1.33	29.15	29.15	25.00	24.70	2.98	3.28	1.00	52.84	0.014	0.57%	0.785	3.174	2.493	CB1	OK	OK	OK	OK	Roadway Area
DR02-15		DR02-11	SPB	28+75.00	29.25	RT	6.00	0.09	0.90	0.08	0.08	0.050	20.00	4.47	1.98	0.02	1.96	6.30	2.61	0.63	0.82	4.10	3.36	0.28	29.65	29.15	24.80	24.70	3.85	3.45	0.8	6.00	0.014	1.67%	0.541	4.803	2.599	Special W	OK	OK	OK	OK	Sidewalk
DR02-11		DR02-10	SPB	28+75.00	26.42	RT	28.50	0.10	0.90	0.09	0.79	0.050	20.00	4.47	2.33	0.08	0.58	6.30	2.61	0.63	0.82	4.10	3.36	2.65	29.15	26.91	24.70	22.50	3.28	3.24	1.00	43.79	0.014	5.02%	0.785	9.442	7.415	CB1	OK	OK	OK	OK	Roadway Area
DR02-5		DR02-10	SPB	28+30.00	26.42	LT	28.50	0.03	0.90	0.03	0.03	0.050	20.00	4.47	0.45	0.28	0.17	6.30	2.61	0.63	0.82	4.10	3.36	0.09	26.91	26.91	23.00	22.70	2.74	3.04	1.00	52.84	0.014	0.57%	0.785	3.174	2.493	CB1	OK	OK	OK	OK	Roadway Area
DR02-10		DR01-24	SPB	28+30.00	26.42	RT	28.50	0.03	0.90	0.03	0.84	0.050	20.00	4.47	2.51	0.18	0.17	6.30	2.61	0.63	0.82	4.10	3.36	2.83	26.91	22.36	22.50	18.00	3.24	3.19	1.00	98.55	0.014	4.57%	0.785	9.001	7.069	CB1	OK	OK	OK	OK	Roadway Area
DR01-21		DR01-22	SPB	27+30.00	29.25	LT	6.00	0.02	0.90	0.02	0.02	0.050	20.00	4.47	0.56	0.02	0.54	6.30	2.61	0.63	0.82	4.10	3.36	0.07	22.86	22.36	18.60	18.50	3.26	2.86	0.8	6.00	0.014	1.67%	0.541	4.803	2.599	Special W	OK	OK	OK	OK	Sidewalk
DR01-22		**DR01-24**	**SPB**	**27+30.00**	**26.45**	**LT**	**29.50**	**0.07**	**0.90**	**0.06**	**0.08**	**0.037**	**20.00**	**3.84**	**0.78**	**0.22**	**0.43**	**6.30**	**2.61**	**0.63**	**0.82**	**4.10**	**3.36**	**0.27**	**22.36**	**22.36**	**18.50**	**18.00**	**2.69**	**3.19**	**1.00**	**52.94**	**0.014**	**0.94%**	**0.785**	**4.094**	**3.215**	CB1	OK	OK	OK	OK	**Roadway Area**
DR01-23		DR01-24	SPB	27+30.00	29.25	RT	6.00	0.02	0.90	0.02	0.02	0.050	20.00	4.47	0.56	0.02	0.54	6.30	2.61	0.63	0.82	4.10	3.36	0.07	22.86	22.36	18.10	18.00	3.76	3.36	0.8	6.00	0.014	1.67%	0.541	4.803	2.599	Special W	OK	OK	OK	OK	Sidewalk
DR01-24		DR01-26	SPB	27+30.00	26.45	RT	28.50	0.06	0.90	0.06	1.00	0.037	20.00	3.84	2.70	0.19	0.43	6.30	2.61	0.63	0.82	4.10	3.36	3.36	22.36	19.97	18.00	16.25	3.19	2.55	1.00	75.00	0.014	2.33%	0.785	6.434	5.054	CB1	OK	OK	OK	OK	Roadway Area
DR01-26		DR01-27	SPB	26+55.70	26.40	RT	34.33	0.05	0.90	0.04	1.04	0.002	20.00	0.94	2.76	0.06	1.32	6.30	2.61	0.63	0.82	4.10	3.36	3.50	19.97	19.70	16.25	**16.00**	2.55	2.53	1.00	17.53	0.014	1.43%	0.785	5.030	3.951	CB1	OK	OK	OK	OK	
DR01-29		DR01-27	Boat Access	10+40.00	10.42	LT	0.00	0.05	0.90	0.04	0.04	0.005	20.00	1.40	1.26	0.07	1.19	6.30	2.61	0.63	0.82	4.10	3.36	0.14	17.88	20.00	15.00	14.50	1.71	4.33	1.00	24.58	0.014	2.03%	0.785	6.008	4.718	CB1	OK	OK	OK	OK	
DR01-1		DR01-5	SPB	24+15.00	21.48	LT	31.50	0.08	0.90	0.07	0.07	0.004	20.00	1.26	1.54	0.02	1.52	6.30	2.61	0.63	0.82	4.10	3.36	0.24	18.75	19.05	15.60	13.67	2.31	4.54	0.67	14.48	0.014	13.33%	0.353	11.775	4.151	CB1	OK	OK	OK	OK	CB 240A Lateral Velocity OK
DR01-10		DR01-5	SPB	24+15.00	26.38	RT	37.50	0.10	0.90	0.09	0.09	0.004	20.00	1.26	1.60	0.09	1.52	6.30	2.61	0.63	0.82	4.10	3.36	0.30	18.68	19.05	14.75	13.67	3.09	4.54	0.67	31.48	0.014	3.43%	0.353	5.974	2.106	CB1	OK	OK	OK	OK	CB 240A
DR01-5		DR01-6	SPB	24+18.00	7.00	LT	0.00	0.00	0.90	0.00	0.16	0.004	20.00	1.26	1.93	0.33	0.00	6.30	2.61	0.63	0.82	4.10	3.36	0.55	19.05	19.30	13.34	12.98	4.54	5.15	1.00	63.00	0.014	0.57%	0.785	3.184	2.501	CB2-48	OK	OK	OK	OK	MH Type 200A
DR01-2	DR01-5		SPB	24+83.00	21.48	LT	31.50	0.08	0.90	0.07	0.07	0.003	20.00	1.15	1.01	0.02	0.99	6.30	2.61	0.63	0.82	4.10	3.36	0.24	18.60	19.05	15.50	13.40	2.26	4.81	0.67	14.48	0.014	14.50%	0.353	12.283	4.330	CB1	OK	OK	OK	OK	CB 240D Lateral Velocity OK
DR01-11	DR01-5		SPB	24+83.00	32.51	RT	45.50	0.15	0.90	0.13	0.13	0.003	20.00	1.15	1.16	0.17	0.99	6.30	2.61	0.63	0.82	4.10	3.36	0.44	18.36	19.05	14.00	13.40	3.52	4.81	0.67	39.51	0.014	1.52%	0.353	3.975	1.401	CB1	OK	OK	OK	OK	CB 240D
	DR01-5	DR01-6	SPB	24+83.00	7.00	LT	0.00	0.00	0.90	0.00	0.37	0.003	20.00	1.15	2.13	0.20	0.00	6.30	2.61	0.63	0.82	4.10	3.36	1.23	19.05	19.30	12.98	12.76	4.90	5.37	1.00	37.50	0.014	0.58%	0.785	3.197	2.511	CB2-48	OK	OK	OK	OK	Tee Connection
DR01-3	DR01-5		SPB	25+20.50	21.48	LT	31.50	0.04	0.90	0.04	0.04	0.003	20.00	1.15	0.56	0.02	0.55	6.30	2.61	0.63	0.82	4.10	3.36	0.13	18.72	19.05	15.60	13.05	2.28	5.16	0.67	14.48	0.014	17.61%	0.353	13.535	4.772	CB1	OK	OK	OK	OK	CB 240D Lateral Velocity OK
DR01-12	DR01-5		SPB	25+20.50	32.89	RT	45.50	0.13	0.90	0.11	0.11	0.003	20.00	1.15	0.65	0.11	0.55	6.30	2.61	0.63	0.82	4.10	3.36	0.38	18.48	19.05	14.55	13.05	3.09	5.16	0.67	39.89	0.014	3.76%	0.353	6.254	2.205	CB1	OK	OK	OK	OK	CB 240D
	DR01-5	DR01-6	SPB	25+20.50	7.00	LT	0.00	0.00	0.90	0.00	0.52	0.003	20.00	1.15	2.45	0.32	0.00	6.30	2.61	0.63	0.82	4.10	3.36	1.74	19.05	19.30	12.76	12.40	5.13	5.73	1.00	61.34	0.014	0.58%	0.785	3.204	2.517	CB2-48	OK	OK	OK	OK	Tee Connection to MH Type 200A
DR01-4		DR01-6	SPB	25+76.50	22.78	LT	33.00	0.07	0.90	0.06	0.06	0.013	20.00	2.28	0.53	0.02	0.51	6.30	2.61	0.63	0.82	4.10	3.36	0.21	19.07	19.30	15.60	12.73	2.63	5.73	0.67	14.53	0.014	19.75%	0.353	14.334	5.054	CB1	OK	OK	OK	OK	CB 240D Lateral Velocity OK
DR01-6		DR01-7	SPB	25+79.63	8.33	LT	0.00	0.00	0.90	0.00	0.58	0.013	20.00	2.28	2.55	0.11	0.00	6.30	2.61	0.63	0.82	4.10	3.36	1.95	19.30	19.67	12.40	10.50	5.73	8.00	1.00	51.69	0.014	3.68%	0.785	8.076	6.343	CB2-48	OK	OK	OK	OK	MH Type 200A
DR01-7		DR01-8	SPB	26+27.23	17.63	RT	0.00	0.00	9.00	0.00	0.58	0.013	20.00	2.28	2.58	0.03	0.00	6.30	2.61	0.63	0.82	4.10	3.36	1.95	19.67	19.73	10.50	10.10	8.00	8.46	1.00	12.54	0.014	3.19%	0.785	7.523	5.909	CB2-48	OK	OK	OK	OK	MH Type 202B Special Pipe Crossing Structure
DR06-5		DR06-10	Dallas-W	12+45.00	14.42	LT	14.00	0.04	0.90	0.04	0.04	0.004	20.00	1.26	1.21	0.07	1.13	6.30	2.61	0.63	0.82	4.10	3.36	0.12	16.05	16.20	12.88	12.38	2.33	2.98	0.67	21.42	0.014	2.33%	0.353	4.928	1.737	CB1	OK	OK	OK	OK	CB 242B
DR06-7		DR06-10	Dallas-W	12+45.00	14.42	RT	14.00	0.03	0.90	0.03	0.03	0.004	20.00	1.26	1.15	0.01	1.13	6.30	2.61	0.63	0.82	4.10	3.36	0.10	16.05	16.20	12.88	12.38	2.33	2.98	0.67	7.42	0.014	6.74%	0.353	8.372	2.952	CB1	OK	OK	OK	OK	CB 242B
DR06-10		DR06-9	Dallas-W	12+42.00	7.00	RT	0.00	0.00	0.90	0.00	0.06	0.004	20.00	1.26	1.27	0.06	0.00	6.30	2.61	0.63	0.82	4.10	3.36	0.21	16.20	16.37	12.05	11.30	2.98	3.90	1.00	26.16	0.014	2.87%	0.785	7.132	5.602	CB1	OK	OK	OK	OK	MH Type 200A
DR06-3		DR06-9	Dallas-W	12+18.60	40.07	LT	0.00	0.11	0.90	0.10	0.10	0.015	20.00	2.45	0.71	0.17	0.54	6.30	2.61	0.63	0.82	4.10	3.36	0.35	15.80	17.05	12.63	11.67	2.33	4.54	0.67	47.07	0.014	2.04%	0.353	4.606	1.624	CB1	OK	OK	OK	OK	CB 240D
DR06-9		DR06-8	Dallas-W	12+15.85	7.00	RT	0.00	0.00	0.90	0.00	0.17	0.015	20.00	2.45	1.39	0.12	0.00	6.30	2.61	0.63	0.82	4.10	3.36	0.56	16.37	17.05	11.30	11.17	3.90	4.72	1.00	23.10	0.014	0.58%	0.785	3.220	2.529	CB2-48	OK	OK	OK	OK	
DR06-2	DR06-9		Dallas-W	11+92.75	40.07	LT	0.00	0.09	0.90	0.09	0.09	0.015	20.00	2.45	0.70	0.16	0.54	6.30	2.61	0.63	0.82	4.10	3.36	0.29	15.80	17.05	12.63	11.50	2.33	4.71	0.67	47.07	0.014	2.40%	0.353	4.997	1.762	CB1	OK	OK	OK	OK	CB 240D
	DR06-9	DR06-8	Dallas-W	11+92.75	7.00	RT	0.00	0.00	0.90	0.00	0.25	0.015	20.00	2.45	1.50	0.12	0.00	6.30	2.61	0.63	0.82	4.10	3.36	0.85	16.37	17.05	11.17	11.04	4.03	4.84	1.00	22.75	0.014	0.58%	0.785	3.221	2.530	CB2-48	OK	OK	OK	OK	Tee Connection
DR06-1	DR06-9		Dallas-W	11+70.00	71.60	LT	0.00	0.15	0.90	0.13	0.13	0.015	20.00	2.45	0.89	0.21	0.68	6.30	2.61	0.63	0.82	4.10	3.36	0.44	17.15	17.05	14.25	11.35	2.06	4.86	0.67	78.60	0.014	3.69%	0.353	6.195	2.184	CB1	OK	OK	OK	OK	CB 240D
	DR06-9	DR06-8	Dallas-W	11+70.00	7.00	RT	0.00	0.00	0.90	0.00	0.38	0.015	20.00	2.45	1.58	0.07	0.00	6.30	2.61	0.63	0.82	4.10	3.36	1.29	16.37	17.05	11.03	10.95	4.17	4.93	1.00	13.99	0.014	0.58%	0.785	3.205	2.517	CB2-48	OK	OK	OK	OK	MH Type 200A
DR06-4		DR06-8	Dallas-W	11+59.00	14.42	LT	14.00	0.08	0.90	0.07	0.07	0.018	20.00	2.68	0.80	0.05	0.75	6.30	2.61	0.63	0.82	4.10	3.36	0.25	16.75	17.05	12.75	11.78	3.16	4.43	0.67	21.42	0.014	4.53%	0.353	6.863	2.420	CB1	OK	OK	OK	OK	CB 242B
DR06-6		DR06-8	Dallas-W	11+59.00	14.42	RT	14.00	0.29	0.90	0.26	0.26	0.018	20.00	2.68	0.76	0.02	0.75	6.30	2.61	0.63	0.82	4.10	3.36	0.87	16.75	17.05	12.25	11.78	3.66	4.43	0.67	7.42	0.014	6.33%	0.353	8.117	2.862	CB1	OK	OK	OK	OK	
DR06-8		DR01-8	Dallas-W	11+56.00	7.00	RT	0.00	0.00	0.90	0.00	0.72	0.018	20.00	2.68	2.36	0.79	0.00	6.30	2.61	0.63	0.82	4.10	3.36	2.41	17.05	19.73	10.95	10.10	4.43	7.96	1.50	179.52	0.014	0.47%	1.767	3.798	6.712	CB2-48	OK	OK	OK	OK	MH Type 200A
DR01-8		DR01-9	SPB	26+38.05	24.45	RT	14.00	0.00	0.90	0.00	1.30	0.013	20.00	2.28	2.63	0.05	0.00	6.30	2.61	0.63	0.82	4.10	3.36	4.36	19.73	19.70	10.10	9.70	7.96	8.33	1.50	21.35	0.014	1.87%	1.767	7.555	13.351	CB2-48	OK	OK	OK	OK	MH Type 200A
DR01-16		DR01-17	Dallas-E	10+25.00	11.42	LT	14.00	0.21	0.90	0.19	0.19	0.003	20.00	1.10	1.55	0.03	1.52	6.30	2.61	0.63	0.82	4.10	3.36	0.63	18.60	18.72	14.10	12.10	3.66	5.78	0.67	17.42	0.014	11.48%	0.353	10.928	3.853	CB1	OK	OK	OK	OK	CB 242B Lateral Velocity OK
DR01-18		DR01-17	Dallas-E	10+28.00	12.18	RT	14.00	0.17	0.90	0.16	0.16	0.003	20.00	1.10	1.53	0.01	1.52	6.30	2.61	0.63	0.82	4.10	3.36	0.52	18.60	18.72	14.10	12.10	3.66	5.78	0.67	6.18	0.014	32.36%	0.353	18.348	6.469	CB1	OK	OK	OK	OK	CB 240C Lateral Velocity OK
DR01-17		DR01-9	Dallas-E	10+28.00	6.00	RT	0.00	0.00	0.90	0.00	0.34	0.003	20.00	1.10	1.68	0.13	0.00	6.30	2.61	0.63	0.82	4.10	3.36	1.15	18.72	19.70	11.77	10.20	5.78	8.33	1.00	56.57	0.014	2.78%	0.785	7.617	5.511	CB2-48	OK	OK	OK	OK	MH Type 200A
DR01-9		DR01-27	SPB	26+45.45	45.30	RT	14.00	0.00	0.90	0.00	1.64	0.003	20.00	1.10	2.69	0.06	0.00	6.30	2.61	0.63	0.82	4.10	3.36	5.51	19.70	20.00	9.70	9.65	8.33	8.68	1.50	12.00	0.014	0.42%	1.767	3.563	6.296	CB2-48	OK	OK	OK	MH	MH Type 200A
DR01-27		Rain Garden	SPB	26+54.95	43.90	RT	0.00	0.00	0.90	0.00	2.73	0.001	20.00	0.63	2.98	0.22	0.00	6.30	2.61	0.63	0.82	4.10	3.36	9.16	20.00	15.25	9.65	9.00	8.68	4.58	1.50	70.00	0.014	0.93%	1.767	5.319	9.399	Special	OK	OK	MH	OK	Special Structure/Out fall to rain garden.
Rain Garden	DR02-22	DR02-24	Boat Access	12+20.00	9.67	LT	0.00	1.41	0.90	1.27	1.27													0.78	13.00	13.00	10.27	10.15	1.89	2.01	0.67	23.46	0.009	0.51%	0.353	3.588	1.265	CB1	OK	OK	OK	OK	Recollection pipes under rain garden into Str. DR02-24.
DR02-24		DR02-25	Boat Access	12+20.00	9.50	LT	22.00	0.20	0.90	0.18	0.18	0.022	20.00	2.97	3.41	0.43	0.53	6.30	2.61	0.63	0.82	4.10	3.36	1.38	15.37	15.21	10.15	9.90	3.55	3.64	1.50	80.00	0.014	0.31%	1.767	3.086	5.453	CB2-48	OK	OK	OK	OK	Recollection Pipes and Rain Garden Area
DR02-25		DR02-27	Boat Access	13+00.00	9.50	LT	22.00	0.05	0.90	0.04	0.22	0.022	20.00	2.97	3.86	0.45	0.45	6.30	2.61	0.63	0.82	4.10	3.36	1.52	15.21	15.07	9.90	9.60	3.64	3.80	1.50	87.25	0.014	0.34%	1.767	3.237	5.720	CB2-48	OK	OK	OK	OK	
DR02-31		DR02-30	SPB	30+36.00	45.95	RT	47.00	0.61	0.90	0.55	0.55	0.01	20.00	2.00	0.05	0.05	0.00	6.30	2.61	0.63	0.82	4.10	3.36	1.84	16.00	13.00	14.14	10.50	0.69	1.33	1.00	39.94	0.014	9.11%	0.785	12.716	9.987	CB1	OK	OK	OK	OK	Velocity OK
DR02-30		DR02-29	SPB	30+06.20	71.93	RT	0.00	0.00	0.90	0.00	3.28	0.01	20.00	2.00	0.09	0.04	0.00	6.30	2.61	0.63	0.82	4.10	3.36	8.38	14.00	15.25	10.10	10.00	1.73	3.08	2.00	13.50	0.014	0.74%	3.142	5.755	18.080	CB1	OK	OK	OK	OK	Assume Emergency Outfall fully engaged with weir fully engaged.
DR02-28		DR02-29	SPB	29+91.10	93.00	RT	0.00	0.00	0.90	0.00	2.73	0.01	20.00	2.00	0.04	0.04	0.00	6.30	2.61	0.63	0.82	4.10	3.36	8.30	14.00	15.25	10.15	10.00	1.68	3.08	2.00	15.00	0.014	1.00%	3.142	6.687	21.007	CB1	OK	OK	OK	OK	14.00=Jailhouse Weir Invert Elevation. (Incl. RG Area).
DR02-29		DR02-27	SPB	30+04.55	85.34	RT	0.00	0.00	0.90	0.00	3.28	0.01	20.00	2.00	0.16	0.07	0.00	6.30	2.61	0.63	0.82	4.10	3.36	10.22	15.25	15.07	10.00	9.60	3.08	3.30	2.00	32.26	0.014	1.24%	3.142	7.446	23.391	CB2-48	OK	OK	OK	OK	
DR02-27		DR02-26	SPB	30+09.25	117.30	RT	0.00	0.01	0.90	0.01	3.51	0.02	20.00	2.97	3.92	0.06	0.48	6.30	2.61	0.63	0.82	4.10	3.36	11.77	15.07	15.00	9.60	9.15	3.30	3.68	2.00	28.09	0.014	1.60%	3.142	8.463	26.588	CB2-48	OK	OK	OK	OK	
DR02-26		Outfall	SPB	30+74.30	127.95	RT	0.00	0.00	0.90	0.00	3.51	0.01	20.00	2.00	3.99	0.07	0.00	6.30	2.61	0.63	0.82	4.10	3.36	11.77	15.00	11.00	9.15	8.64	3.68	0.19	2.00	35.00	0.014	1.46%	3.142	8.072	25.357	CB2-48	OK	OK	OK	OK	
DR2-33		Rain Garden	Boat Access	11+50.00	9.48	LT	0.00	0.08	0.90	0.07	0.06	0.005	20.00	1.41	1.89	0.12	1.77	6.30	2.61	0.63	0.82	4.10	3.36	0.22	16.35	13.00	10.15	9.00	5.03	2.83	1.00	48.00	0.014	2.40%	0.785	6.520	5.121	CB2-48	OK	OK	OK	OK	
Boat Access Road Rain Garden																								0.78																			Flows developed from KCRTS
Orr Street Rain Garden																								0.07																			Flows developed from KCRTS