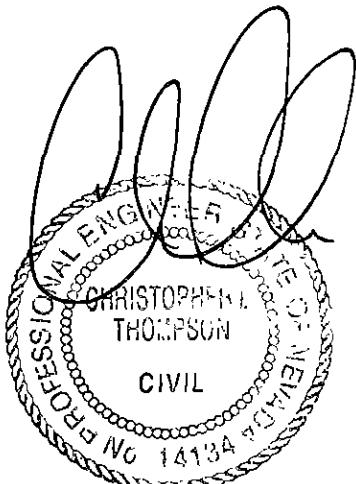


MASTER
HYDROLOGY AND HYDRAULICS REPORT

DOUBLE DIAMOND RANCH
VILLAGE 14



2-11-03
EP. 030-04

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3/3/03

PREPARED FOR:

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civil engineering • planning • project management

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INTRODUCTION

Damonte Ranch Village 14, a 29.68 acre residential subdivision, consists of 125 single family lots, which will be developed in two (2) phases. The subject site is located within the Damonte Ranch Development within the south $\frac{1}{2}$ of Section 15, Township 18 Range 20 East, Mount Diablo Meridian. Exhibit "A" Vicinity Map has been included for a graphical representation of the project site.

The existing site is currently being filled as part of the mass grading operation associated with the construction of major drainage and public utility facilities.

According to FEMA's Flood Insurance Rate Maps (FIRM) the site is located within a flood Zone X. Zone X flood areas are defined as areas determined to be outside the 500-year floodplain.

The project will be developed in two construction phases. The first phase will consist of 64 lots located within the northern half of the village. The second phase will consist of the final 61 lots located within the southern half of the village. This development schedule is from the hydraulically most downstream point upward, resulting in a logical phased construction of storm drainage infrastructure. Since the need to analyze the built out subdivision was necessitated with the phase 1 design it was determined that a master hydrology report was necessary.

The final development plan for this village is in direct conformance with the tentatively approved development plan and the September 16, 2002 Damonte Ranch Village 14 Subdivision Preliminary Hydrology Report prepared by Odyssey Engineers.

METHODOLOGY

The Rational Method of Urban Hydrology was utilized for all hydrologic calculations in this report. This methodology was used based upon the small sizes of the analyzed basins. All times of concentration associated with this development were calculated using the standard form 2 located within the appendix of this report. The City of Reno Intensity Duration Frequency Curve was used for all modeling, and is presented in the Appendix.

The storm drainage infrastructure that will be constructed with Villages 14 was analyzed using StormCad version 4.1 by Haestad Methods.

All methods used are in accordance with the City of Reno Development Standards. Calculations and supporting materials are presented in the Appendix of this report.

PRE-DEVELOPMENT HYDROLOGY

The existing site generally drains overland in a northerly direction until it is intercepted in the existing regional detention pond facility currently under construction. Since the development of this site, from a regional as well as project impact perspective, was addressed in the Nimbus Engineers Hydrology Study for the Damonte Ranch Regional Flood Control the mitigation of increased developed flows will not be addressed with this investigation.

POST DEVELOPMENT HYDROLOGY

With the development of Damonte Ranch Village 14, the site is divided into 28 sub-basins, which are defined by inlets located within this village which will collect the sub-basin runoff (ref. Appendix for Developed Drainage Basin Maps) or are defined as bypass areas which will pass directly to the detention facility to the north of the project site. Table 1, contained within the appendix of this report outlines all basin areas runoff coefficients time of concentration and five (5) and 100-year storm flows.

Storm drainage infrastructure, shown on the Developed Drainage Basins Maps, has been designed to capture and perpetuate 5-year storm flows from the developed basins and deliver them to the Regional detention Facility located north of the subject site. This is the developed discharge point for flows generated within this village in accordance with the Damonte Ranch Storm Water Management plan, as outlined by Nimbus Engineers in the Hydrology Study for the Damonte Ranch Regional Flood Control. Based upon this there has been no further investigation of these existing downstream detention facility improvements.

Based upon the Nimbus storm water management plan the flows from Village 14 will have 3 defined discharge points, all having ultimate discharge to the Detention Facility located north of the site. These points are as follows:

The western portion of Village 14, Discharge Point O-1 will be collected by a storm sewer system which will collect flows from within the right of way and deposit them directly into the detention facility north of the project site. This development area was represented as Basin A in the Odyssey Engineering September 16, 2002 Preliminary Hydrology Report. The results of the modeling of the on site pipe system are outlined in the StormCad sections of this report.

The eastern half of the Village 14 site, denoted as Basin B in the Odyssey Engineers Preliminary Hydrology report will be collected by two separate pipe systems, both of which discharge to the detention facility located north of the project site. The first system defined by outlet O-2 will collect flows and discharge them via the piped system through the common area access gap, hedge row, between lots 11 and 12. This discharge point is not located at a low point therefore an overland discharge path is not warranted. The second pipe system collecting flows from this basin area is defined by outlet O-3, which will collect bypass flows from the outlet O-2 pipe system and discharge them into the detention facility at the end of Baton Court. This point is defined by a low point at the back of the cul-de-sac and will provide for overland flow directly into the detention facility. The results of the modeling of these on site pipe systems are outlined in the StormCad sections of this report.

CONCLUSION

P
Baton Drive
CUL-DE-SAC ✓

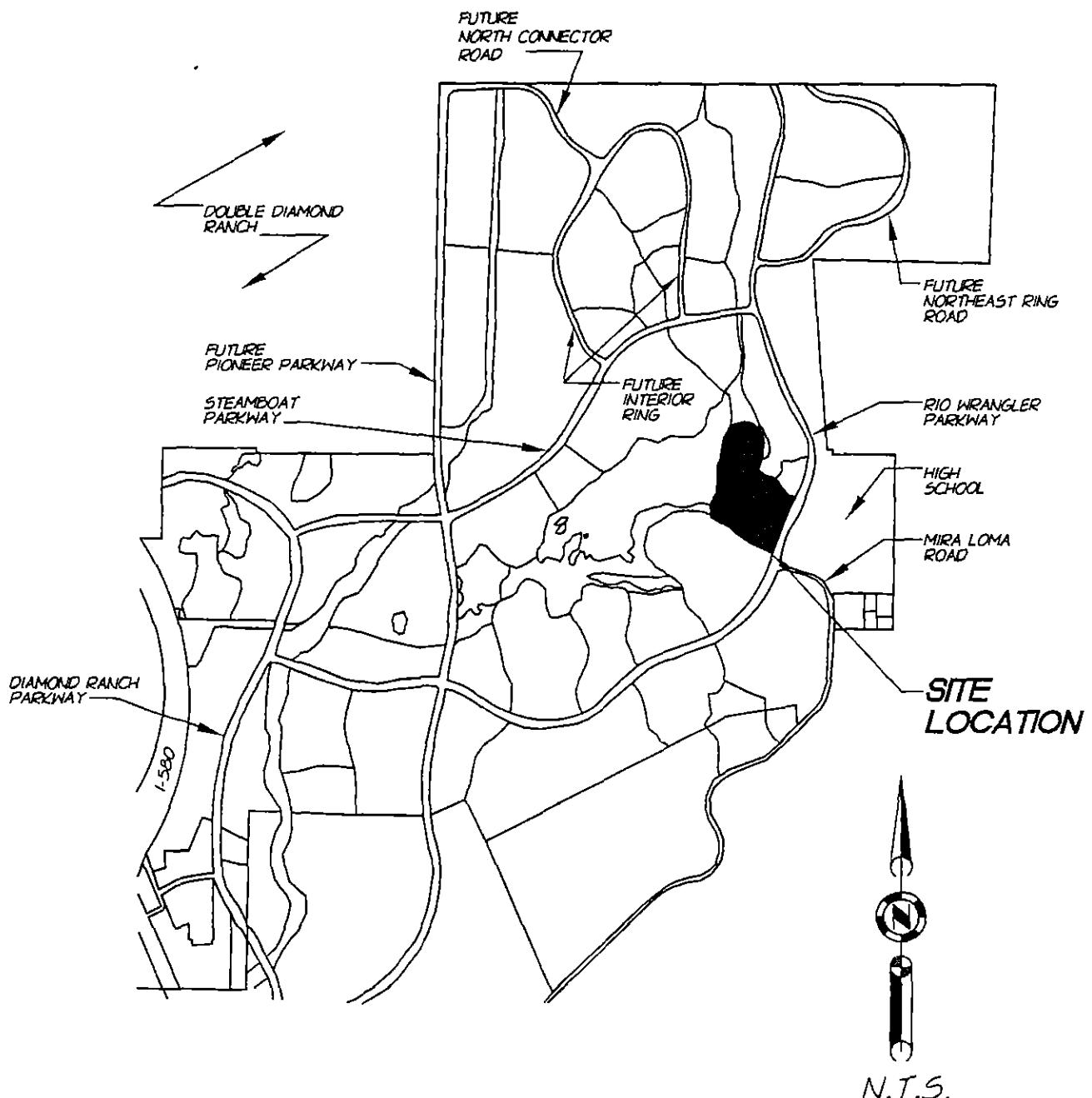
The drainage facilities that will be constructed with Damonte Ranch Village 14 have been designed to perpetuate the 5-year and 100-year storm flows within the site to offsite detention facilities using proposed drainage infrastructure. This conveyance of flows is in conformance with the City of Reno Design Handbook and in conformance with the Odyssey Engineering September 16, 2002 Preliminary Hydrology Report as well as

the Nimbus Engineers in the Hydrology Study for the Damonte Ranch Regional Flood Control.

With the final design of the second phase of Village 14 a letter of verification will be needed to verify the design information contained within this report has not changed.

All analysis was performed in accordance with the City of Reno Design Handbook. Supporting calculations and exhibits are contained within the Appendix of this report for reference.

APPENDIX



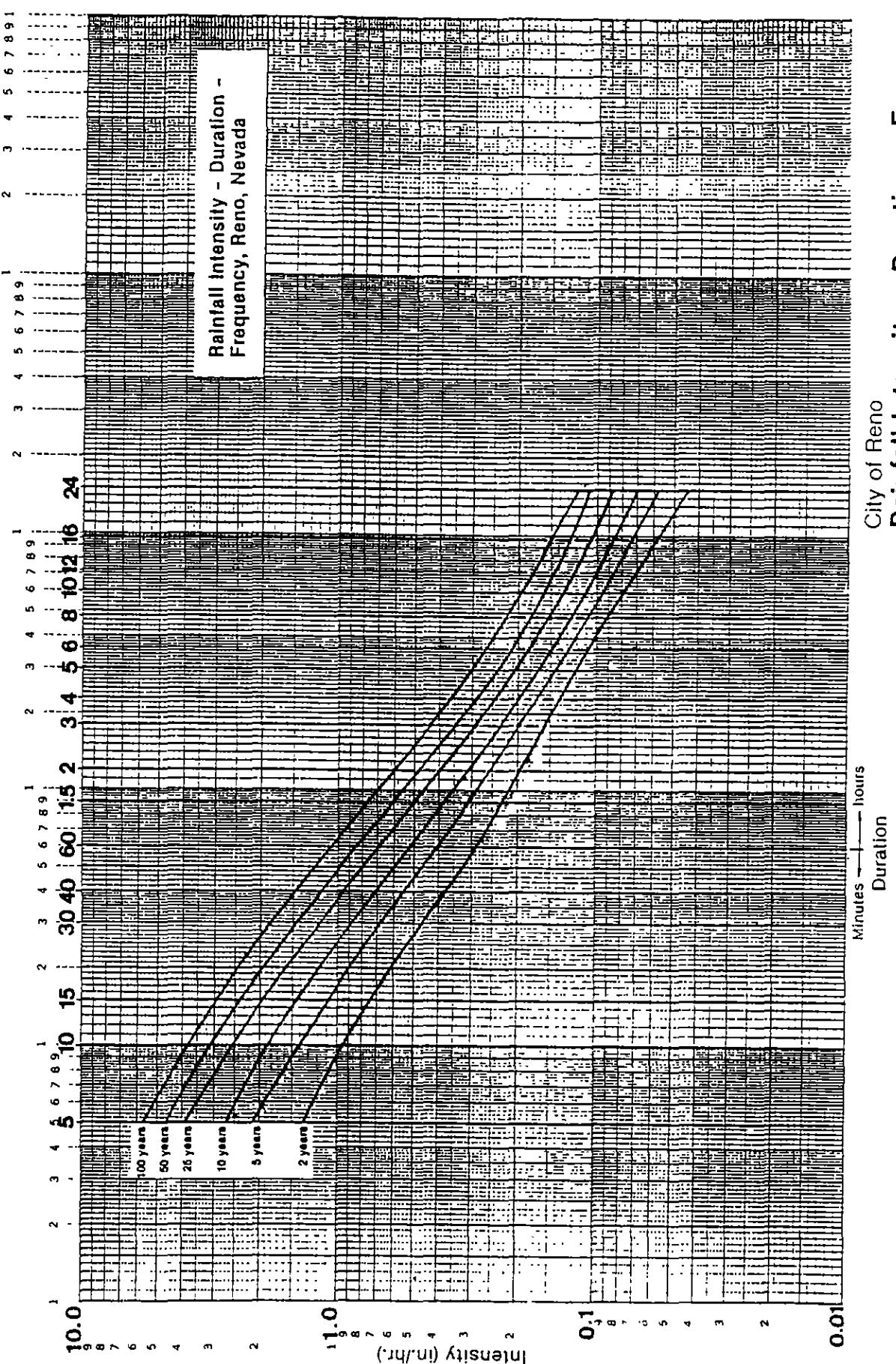
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EXHIBIT "A" - VICINITY MAP

Owner:	
Architect:	
Engineer:	
Surveyor:	
Date:	
DRAWING NO.:	
SCALE:	
Sheet No.:	1

RAINFALL INTENSITY CHART



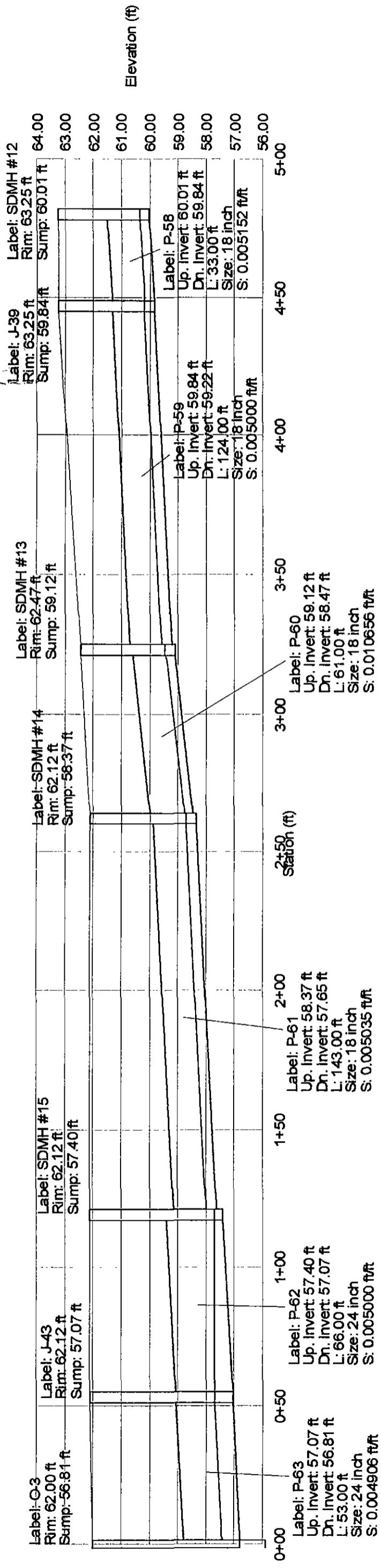
Form 2 Modified

Sub-Basin	Initial Overland Time (Ti)			Travel Time (Tt)			(Ti+Tt)	Tc	Tc Urbanized Basin Check	Final Tc
	Data	Length (ft)	Slope (%)	Ti (min)	Length (ft)	Slope (%)	Vel. (fps)	Ti (min)	Tc (min)	Tc Min
Basin	R10	Area (Ac)	(ft)	(%)	(min)	(ft)	(%)	(min)	(min)	
18A	0.6	0.42	60	1.25	6.48	235	0.60	1.73	2.26	8.74
18B	0.6	1.14	120	1.25	9.16	215	0.60	1.73	2.07	11.23
19	0.6	0.87	100	1.25	8.36	305	0.60	1.73	2.94	11.30
20A	0.6	0.99	760	0.6	29.37	236	1.32	2.55	1.54	405.00
20B	0.6	0.79	100	1.25	8.36	285	0.65	1.78	2.67	385.00
21	0.6	1.18	100	1.25	8.36	450	0.65	1.78	4.21	12.57
22	0.6	1.28	100	1.25	8.36	440	0.65	1.78	4.12	12.48
23	0.6	0.2	13	1.25	3.01	0	0.00	#DIV/0!	#DIV/0!	13.00
24	0.6	0.1	5	2	1.60	75	0.54	1.64	0.76	2.36
25	0.6	0.07	13	1.25	3.01	0	0.00	#DIV/0!	#DIV/0!	13.00
26	0.6	0.1	35	1.25	4.95	0	0.00	#DIV/0!	#DIV/0!	35.00
27	0.6	0.12	100	4.5	5.48	0	0.00	#DIV/0!	#DIV/0!	100.00
28	0.6	0.34	35	1.25	4.95	0	0.00	#DIV/0!	#DIV/0!	35.00

Form 2 Modified

DAMONTE RANCH VILLAGE 14										PREPARED BY MJC				
STANDARD FORM 2														
Sub-Basin	Initial Overland			Travel Time			(Tt)			Tc	Tc Urbanized Basin	Final		
	Data	Length	Slope	Ti	Length	Slope	Vel.	Ti	(Ti+Tt)			Check	Tc	
Basin	R10	Area (Ac)	(ft)	(%)	(min)	(ft)	(%)	(fps)	(min)	Tc	Total	Tc	Min	
1	0.6	1.69	90	1.25	7.93	575	0.60	1.73	5.54	13.47	665.00	13.69	13.47	
2	0.6	0.52	90	1.25	7.93	350	0.60	1.73	3.37	11.30	440.00	12.44	11.30	
3	0.6	1.57	95	1.25	8.15	440	1.14	2.39	3.07	11.22	535.00	12.97	11.22	
4	0.6	1.42	95	1.25	8.15	460	1.14	2.39	3.21	11.36	555.00	13.08	11.36	
5A	0.6	0.34	70	1.25	7.00	215	0.60	1.73	2.07	9.07	285.00	11.58	9.07	
5B	0.6	1.45	120	1.25	9.16	395	0.88	2.12	3.11	12.26	515.00	12.86	12.26	
6	0.6	1.57	120	1.25	9.16	410	0.88	2.12	3.22	12.38	530.00	12.94	12.38	
7	0.6	2.32	100	1.25	8.36	1200	0.60	1.73	11.56	19.92	1300.00	17.22	17.22	
8	0.6	1.15	100	1.25	8.36	380	0.60	1.73	3.66	12.02	480.00	12.67	12.02	
9A	0.6	0.37	100	1.25	8.36	170	0.60	1.73	1.64	10.00	270.00	11.50	10.00	
9B	0.6	0.32	100	1.25	8.36	145	1.62	2.82	0.86	9.22	245.00	11.36	9.22	
10	0.4	0.16	10	2	3.17	145	1.62	2.82	0.86	4.03	155.00	10.86	4.03	
11A	0.6	1.12	100	1.25	8.36	520	1.08	2.34	3.70	12.06	620.00	13.44	12.06	
11B	0.6	1.44	100	1.25	8.36	405	1.08	2.34	2.88	11.25	505.00	12.81	11.25	
12A	0.6	1.88	100	1.25	8.36	650	0.92	2.12	5.11	13.47	750.00	14.17	13.47	
12B	0.6	2.72	100	1.25	8.36	820	0.92	2.12	6.45	14.81	920.00	15.11	14.81	
13	0.4	0.07	10	2	3.17	50	0.60	1.73	0.48	3.65	60.00	10.33	3.65	
14	0.6	1.3	100	1.25	8.36	445	0.60	1.73	4.29	12.65	545.00	13.03	12.65	
15	0.6	1.27	100	1.25	8.36	460	0.60	1.73	4.43	12.79	560.00	13.11	12.79	
16	0.6	1.13	100	1.25	8.36	500	0.60	1.73	4.82	13.18	600.00	13.33	13.18	
17	0.6	0.96	120	1.25	9.16	210	0.60	1.73	2.02	11.18	330.00	11.83	11.18	

Profile
Scenario: 5-YEAR



5-YEAR STORMCAD CALCULATIONS

Scenario: 5-YEAR

inlet reprt modified

Label	Local Rational Flow (cfs)	Total Flow To Inlet (cfs)	Intercepted Rational Flow (cfs)
CB #1	1.20	1.20	0.87
CB #2	0.41	0.41	0.38
CB #3	1.26	1.62	1.62
CB #4	1.13	1.13	1.13
CB #5	1.52	1.52	1.52
CB #6	1.18	1.18	1.18
CB #7	1.43	1.43	0.99
CB #8	0.88	0.88	0.69
CB #9	0.58	0.80	0.80
CB #10	0.14	0.14	0.14
CB #11	2.04	2.61	2.61
CB #12	3.28	3.49	3.49
CB #13	0.06	0.06	0.06
CB #14	0.97	0.97	0.97
CB #15	0.94	0.94	0.72
CB #16	0.82	0.82	0.82
CB #17	0.77	0.77	0.77
CB #18	1.32	1.32	1.32
CB #19	0.69	0.90	0.90
CB #20	1.44	1.70	1.70
CB #21	0.88	0.88	0.69
CB #22	0.96	1.00	0.76

Scenario: 5-YEAR

Pipe Report

Label	Upstream Node	Downstream Node	Upstream Inlet Area (acres)	Upstream Rational Coefficient	Upstream Inlet CA (acres)	Upstream System CA (acres)	Calculate System CA (acres)	Intensity (in/hr)	Total System Flow (cfs)	Length (ft)	Constructed Slope (ft/ft)	Section Size	Mannings n	Full Capacity (cfs)	Upstream Elevation (ft)	Downstream Invert Elevation (ft)	Upstream Ground Elevation (ft)	Downstream Ground Elevation (ft)	Upstream Cover (ft)	Downstream Cover (ft)	Hydraulic Grade Line In (ft)	Hydraulic Grade Line Out (ft)	Description
P-1	CB #21	SDMH #29	1.18	0.60	0.71	0.55	1.24	0.69	18.00	0.074444	12 inch	0.014	9.03	68.19	66.85	71.19	70.82	2.00	2.97	68.54	67.32		
P-2	SDMH #28	J-2	N/A	N/A	N/A	1.16	1.23	1.43	279.00	0.006523	15 inch	0.014	4.84	66.85	65.03	70.82	70.82	2.72	4.54	67.32	65.82		
P-3	J-2	SDMH #28	N/A	N/A	N/A	3.09	1.11	3.47	54.00	0.006296	15 inch	0.014	4.76	65.03	64.68	70.82	70.82	4.54	4.88	65.82	65.44		
P-4	SDMH #28	SDMH #27	N/A	N/A	N/A	3.09	1.10	3.42	95.00	0.005053	18 inch	0.014	6.93	64.19	63.71	70.82	69.11	5.13	3.90	64.93	64.42		
P-5	SDMH #27	SDMH #26	N/A	N/A	N/A	3.09	1.08	3.36	82.00	0.004878	18 inch	0.014	6.81	63.61	63.21	69.11	68.61	4.00	3.90	64.35	63.91		
P-6	SDMH #26	J-6	N/A	N/A	N/A	3.09	1.07	3.33	44.00	0.005000	24 inch	0.014	14.85	63.11	62.88	68.61	69.11	3.50	4.22	63.75	63.65		
P-7	J-6	J-7	N/A	N/A	N/A	3.77	1.06	4.04	10.00	0.005000	24 inch	0.014	14.85	62.89	62.84	69.11	69.11	4.22	4.27	63.65	63.65		
P-8	J-7	J-8	N/A	N/A	N/A	4.71	1.06	5.03	33.00	0.004848	24 inch	0.014	14.63	62.84	62.68	69.11	69.11	4.27	4.43	63.65	63.53		
P-9	J-8	SDMH #25	N/A	N/A	N/A	5.28	1.06	5.63	39.00	0.005128	24 inch	0.014	15.04	62.68	62.48	69.11	67.83	4.43	3.35	63.53	63.32		
P-10	SDMH #24	SDMH #23	N/A	N/A	N/A	5.28	1.05	5.61	72.00	0.005000	24 inch	0.014	14.85	62.38	62.02	67.83	67.39	3.45	3.37	63.23	62.86		
P-11	SDMH #23	SDMH #22	N/A	N/A	N/A	5.28	1.05	5.57	193.00	0.005026	24 inch	0.014	14.89	61.92	60.95	67.39	66.17	3.47	3.22	62.77	61.78		
P-12	SDMH #22	SDMH #22	N/A	N/A	N/A	5.28	1.03	5.47	112.00	0.005893	24 inch	0.014	16.12	60.85	60.19	66.17	65.52	3.32	3.33	61.68	60.99		
P-13	SDMH #22	J-13	N/A	N/A	N/A	5.87	1.02	6.01	27.00	0.004815	24 inch	0.014	14.58	59.69	59.56	65.52	65.52	3.83	3.96	60.59	60.50		
P-14	J-13	J-14	N/A	N/A	N/A	6.65	1.01	6.79	33.00	0.005152	24 inch	0.014	15.08	59.55	59.39	65.52	65.00	3.96	3.61	60.50	60.32		
P-15	J-14	SDMH #21	N/A	N/A	N/A	6.69	1.01	6.81	42.00	0.007143	24 inch	0.014	17.75	59.39	59.09	65.00	64.92	3.61	3.83	60.32	60.04		
P-16	SDMH #2	SDMH #20	N/A	N/A	N/A	6.69	1.01	6.79	132.00	0.005000	24 inch	0.014	14.85	59.09	58.43	64.92	64.16	3.83	3.73	60.04	59.35		
P-17	SDMH #2	SDMH #19	N/A	N/A	N/A	6.69	0.99	6.70	122.00	0.005000	24 inch	0.014	14.85	58.33	57.72	64.16	63.44	3.82	3.67	58.56	57.62		
P-18	SDMH #18	SDMH #18	N/A	N/A	N/A	6.69	0.96	6.45	73.00	0.004973	24 inch	0.014	14.81	57.62	56.71	63.44	62.38	3.82	3.72	59.27	58.64		
P-19	SDMH #17	SDMH #17	N/A	N/A	N/A	6.69	0.96	6.51	73.00	0.005068	24 inch	0.014	14.95	56.61	56.24	62.38	61.95	3.77	3.71	57.53	57.14		
P-20	SDMH #17	SDMH #16	N/A	N/A	N/A	6.69	0.96	6.51	51.00	0.004709	12 inch	0.014	7.18	61.79	59.39	64.79	65.00	2.00	4.27	57.04	56.54		
P-21	SDMH #16	J-21	N/A	N/A	N/A	6.69	0.95	6.41	63.00	0.004921	24 inch	0.014	14.73	55.18	54.87	61.95	61.95	4.77	5.08	56.11	56.02		
P-22	J-21	O-1	N/A	N/A	N/A	9.63	0.94	9.16	61.00	0.005082	24 inch	0.014	14.97	54.87	54.56	61.95	61.00	5.08	4.44	56.02	55.88		
P-23	CB #12	J-21	N/A	N/A	N/A	2.76	2.94	3.49	14.00	0.217857	12 inch	0.014	15.44	57.92	54.87	60.92	61.95	2.00	6.08	58.72	58.02		
P-24	CB #13	J-14	0.07	0.60	0.04	0.04	1.40	0.06	51.00	0.047059	12 inch	0.014	7.18	61.79	59.39	64.79	65.00	2.00	4.61	61.89	60.32		
P-25	CB #14	J-13	1.30	0.60	0.78	0.78	1.23	0.97	55.00	0.040000	12 inch	0.014	6.62	61.76	59.56	64.76	65.52	2.00	4.96	62.17	60.50		
P-26	CB #17	J-8	0.96	0.60	0.58	0.58	1.32	0.77	52.00	0.038077	12 inch	0.014	6.46	64.66	62.68	67.56	69.11	2.00	5.43	65.03	63.53		
P-27	CB #18	J-7	1.56	0.60	0.94	0.94	1.40	1.32	52.00	0.035000	12 inch	0.014	6.19	64.66	62.84	67.56	69.11	2.00	5.27	65.15	63.65		
P-28	CB #16	J-6	1.13	0.60	0.68	0.68	1.20	0.82	5.00	0.034000	12 inch	0.014	24.17	65.55	62.89	68.56	69.11	2.00	5.22	65.94	63.65		
P-29	CB #19	J-2	0.87	0.60	0.52	0.68	1.32	0.90	6.00	0.020000	12 inch	0.014	14.79	66.23	65.03	69.23	70.82	2.00	4.79	66.63	65.82		
P-30	CB #20	J-2	1.78	0.60	1.07	1.26	1.33	1.70	26.00	0.046154	12 inch	0.014	7.11	66.23	65.03	69.23	70.82	2.00	4.78	66.78	65.82		
P-31	CB #22	SDMH #29	1.28</																				

Scenario: 5-YEAR

Pipe Report

Label	Upstream Node	Downstream Node	Upstream Inlet Area (acres)	Upstream Rational Coefficient	Upstream Inlet CA (acres)	Calculate System CA (acres)	Intensity (in/hr)	Total System Flow (cfs)	Length (ft)	Constructed Slope (ft/ft)	Section Size	Manholes n	Full Capacity (cfs)	Upstream Elevation (ft)	Downstream Elevation (ft)	Upstream Elevation (ft)	Downstream Elevation (ft)	Upstream Cover (ft)	Downstream Cover (ft)	Hydraulic Grade Line In (ft)	Hydraulic Grade Line Out (ft)	Description
														Invert Elevation (ft)	Ground Elevation (ft)	Ground Elevation (ft)	Cover (ft)	Cover (ft)	Line In (ft)	Line Out (ft)		
P-52	CB #3	J-26	1.57	0.60	0.94	1.22	1.32	1.62	25.00	0.067200	12 inch	0.014	B.58	66.04	64.36	69.04	68.42	2.00	3.06	66.58	65.02	
P-53	CB #4	J-27	1.42	0.60	0.85	0.85	1.31	1.13	7.00	0.228571	12 inch	0.014	15.82	65.87	64.27	68.87	68.42	2.00	3.15	66.32	65.00	
P-54	CB #5	J-29	1.79	0.60	1.07	1.07	1.40	1.52	32.00	0.014063	12 inch	0.014	3.92	63.38	62.93	66.38	66.47	2.00	2.54	63.90	63.67	
P-55	CB #6	J-30	1.57	0.60	0.94	0.94	1.25	1.18	32.00	0.019062	12 inch	0.014	4.57	63.38	62.77	66.38	66.47	2.00	2.70	63.84	63.58	
P-56	CB #8	SDMH #9	1.15	0.60	0.69	0.54	1.27	0.69	6.00	0.311667	12 inch	0.014	18.47	61.55	59.68	64.55	64.25	2.00	3.57	61.90	60.52	
P-57	CB #9	SDMH #12	0.69	0.60	0.41	0.57	1.40	0.80	30.00	-0.005000	12 inch	0.014	-2.34	59.86	60.01	62.86	63.25	2.00	2.24	60.55	60.38	
P-58	SDMH #11	J-39	N/A	N/A	N/A	0.57	1.39	0.79	33.00	0.005152	18 inch	0.014	7.00	60.01	59.84	63.25	63.25	1.74	1.91	60.35	60.20	
P-59	J-39	SDMH #13	N/A	N/A	N/A	0.66	1.34	0.89	124.00	0.005000	18 inch	0.014	6.90	59.84	59.22	63.25	62.47	1.91	1.75	60.20	59.57	
P-60	SDMH #14	SDMH #14	N/A	N/A	N/A	0.66	1.29	0.86	61.00	0.010656	18 inch	0.014	10.07	59.12	58.47	62.47	62.12	1.85	2.15	59.47	58.77	
P-61	SDMH #15	SDMH #15	N/A	N/A	N/A	0.66	1.27	0.85	143.00	0.005035	18 inch	0.014	6.92	58.37	57.65	62.12	62.12	2.25	2.97	58.72	57.99	
P-62	SDMH #16	J-43	N/A	N/A	N/A	0.66	1.21	0.81	66.00	0.005000	24 inch	0.014	14.85	57.40	57.07	62.12	62.12	2.72	3.05	57.72	57.69	
P-63	J-43	O-3	N/A	N/A	N/A	1.17	3.11	53.00	0.004906	24 inch	0.014	14.71	57.07	56.81	62.12	62.00	3.05	3.19	57.69	57.43		
P-64	CB #11	J-43	2.56	0.60	1.54	1.32	2.61	26.00	0.032692	12 inch	0.014	5.98	57.92	57.07	60.92	62.12	2.00	4.05	58.61	57.55		
P-65	CB #10	J-39	0.16	0.60	0.10	1.40	0.14	31.00	0.000645	12 inch	0.014	0.84	59.86	59.84	62.86	63.25	2.00	2.41	60.21	60.20		

Detailed Report for Inlet: CB #1

Scenario Summary			
Label	5-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	80,228.00 ft	Calculated Station	14+43 ft
Y	703,422.00 ft		
Elevations			
Ground Elevation	74.52 ft	Hydraulic Grade Line In	71.91 ft
Rim Elevation	74.52 ft	Hydraulic Grade Line Out	71.91 ft
Sump Elevation	71.52 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.39 ft
Headloss Method	Absolute	Velocity Out	3.07 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.15 ft
System Flow Summary			
Total System Flow	0.87 cfs	System Rational Flow	0.87 cfs
System Flow Time	13.47 min	System Additional Flow	0.00 cfs
System Intensity	1.18 in/hr	System Known Flow	0.00 cfs
System CA	0.74 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.69 acres	Composite Rational C	0.60
Inlet CA	1.01 acres	Carryover CA	0.00 acres
Total Inlet CA	1.01 acres	Total Inlet Intensity	1.18 in/hr
Total Inlet Rational Flow	1.20 cfs	Total Inlet Time of Concentration	13.47 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	1.20 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	On Grade
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft	Bypass Target	CB #3
Longitudinal Slope	0.008000 ft/ft	Mannings n	0.015

Detailed Report for Inlet: CB #1

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	0.87 cfs	Intercepted CA	0.74 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.18 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	13.47 min
Total Intercepted Flow	0.87 cfs	Capture Efficiency	72.7 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.69	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #2

Scenario Summary

Label	5-YEAR
Physical Properties Alternative	Base-Physical Properties
Catchments Alternative	Base-Catchments
System Flows Alternative	Base-System Flows
Structure Headlosses Alternative	Base-Structure Headlosses
Boundary Conditions Alternative	Base-Boundary Conditions
Design Constraints Alternative	Base-Design Constraints
Cost Alternative	Base-Cost
User Data Alternative	Base-User Data

Geometric Summary

X	80,161.60 ft	Calculated Station	14+77 ft
Y	703,422.00 ft		

Elevations

Ground Elevation	73.88 ft	Hydraulic Grade Line In	71.13 ft
Rim Elevation	73.88 ft	Hydraulic Grade Line Out	71.13 ft
Sump Elevation	70.88 ft		

Headlosses

Gravity Element Headloss	0.00 ft	Depth Out	0.25 ft
Headloss Method	Absolute	Velocity Out	2.41 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.09 ft

System Flow Summary

Total System Flow	0.38 cfs	System Rational Flow	0.38 cfs
System Flow Time	11.30 min	System Additional Flow	0.00 cfs
System Intensity	1.32 in/hr	System Known Flow	0.00 cfs
System CA	0.28 acres	Total Diverted Flow In	0.00 cfs

Incoming Diverted Flow

Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		

Inlet Flow Summary

Area	0.52 acres	Composite Rational C	0.60
Inlet CA	0.31 acres	Carryover CA	0.00 acres
Total Inlet CA	0.31 acres	Total Inlet Intensity	1.32 in/hr
Total Inlet Rational Flow	0.41 cfs	Total Inlet Time of Concentration	11.30 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	0.41 cfs		

Inlet Characteristics

Inlet Type	Combination Inlet	Inlet Location	On Grade
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft	Bypass Target	CB #22
Longitudinal Slope	0.006500 ft/ft	Mannings n	0.015

Detailed Report for Inlet: CB #2

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	0.38 cfs	Intercepted CA	0.28 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.32 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	11.30 min
Total Intercepted Flow	0.38 cfs	Capture Efficiency	90.9 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
0.52	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #3

Scenario Summary

Label	5-YEAR
Physical Properties Alternative	Base-Physical Properties
Catchments Alternative	Base-Catchments
System Flows Alternative	Base-System Flows
Structure Headlosses Alternative	Base-Structure Headlosses
Boundary Conditions Alternative	Base-Boundary Conditions
Design Constraints Alternative	Base-Design Constraints
Cost Alternative	Base-Cost
User Data Alternative	Base-User Data

Geometric Summary

X	80,411.85 ft	Calculated Station	9+68 ft
Y	703,851.39 ft		

Elevations

Ground Elevation	69.04 ft	Hydraulic Grade Line In	66 58 ft
Rim Elevation	69.04 ft	Hydraulic Grade Line Out	66.58 ft
Sump Elevation	66.04 ft		

Headlosses

Gravity Element Headloss	0.00 ft	Depth Out	0.54 ft
Headloss Method	Absolute	Velocity Out	3.74 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.22 ft

System Flow Summary

Total System Flow	1.62 cfs	System Rational Flow	1.62 cfs
System Flow Time	11.22 min	System Additional Flow	0.00 cfs
System Intensity	1.32 in/hr	System Known Flow	0.00 cfs
System CA	1.22 acres	Total Diverted Flow In	0.00 cfs

Incoming Diverted Flow

Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		

Inlet Flow Summary

Area	1.57 acres	Composite Rational C	0.60
Inlet CA	0.94 acres	Carryover CA	0.28 acres
Total Inlet CA	1.22 acres	Total Inlet Intensity	1.32 in/hr
Total Inlet Rational Flow	1.62 cfs	Total Inlet Time of Concentration	11.22 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	1.62 cfs		

Inlet Characteristics

Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #3

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	1.62 cfs	Intercepted CA	1.22 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.32 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	11.22 min
Total Intercepted Flow	1.62 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.57	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #4

Scenario Summary			
Label	5-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	80,396.81 ft	Calculated Station	9+32 ft
Y	703,884.59 ft		
Elevations			
Ground Elevation	68.87 ft	Hydraulic Grade Line In	66.32 ft
Rim Elevation	68.87 ft	Hydraulic Grade Line Out	66.32 ft
Sump Elevation	65.87 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.45 ft
Headloss Method	Absolute	Velocity Out	3.32 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.17 ft
System Flow Summary			
Total System Flow	1.13 cfs	System Rational Flow	1.13 cfs
System Flow Time	11.36 min	System Additional Flow	0.00 cfs
System Intensity	1.31 in/hr	System Known Flow	0.00 cfs
System CA	0.85 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.42 acres	Composite Rational C	0.60
Inlet CA	0.85 acres	Carryover CA	0.00 acres
Total Inlet CA	0.85 acres	Total Inlet Intensity	1.31 in/hr
Total Inlet Rational Flow	1.13 cfs	Total Inlet Time of Concentration	11.36 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	1.13 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #4

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	1.13 cfs	Intercepted CA	0.85 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.31 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	11.36 min
Total Intercepted Flow	1.13 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.42	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #5

Scenario Summary			
Label	5-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	80,267.78 ft	Calculated Station	7+07 ft
Y	704,068.12 ft		
Elevations			
Ground Elevation	66.38 ft	Hydraulic Grade Line In	63.90 ft
Rim Elevation	66.38 ft	Hydraulic Grade Line Out	63.90 ft
Sump Elevation	63.38 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.52 ft
Headloss Method	Absolute	Velocity Out	3.65 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.21 ft
System Flow Summary			
Total System Flow	1.52 cfs	System Rational Flow	1.52 cfs
System Flow Time	10.00 min	System Additional Flow	0.00 cfs
System Intensity	1.40 in/hr	System Known Flow	0.00 cfs
System CA	1.07 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.79 acres	Composite Rational C	0.60
Inlet CA	1.07 acres	Carryover CA	0.00 acres
Total Inlet CA	1.07 acres	Total Inlet Intensity	1.40 in/hr
Total Inlet Rational Flow	1.52 cfs	Total Inlet Time of Concentration	10.00 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	1.52 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #5

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	1.52 cfs	Intercepted CA	1.07 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.40 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	10.00 min
Total Intercepted Flow	1.52 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.79	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #6

Scenario Summary			
Label	5-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	80,249 30 ft	Calculated Station	6+74 ft
Y	704,095 37 ft		
Elevations			
Ground Elevation	66.38 ft	Hydraulic Grade Line In	63.84 ft
Rim Elevation	66.38 ft	Hydraulic Grade Line Out	63.84 ft
Sump Elevation	63.38 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.46 ft
Headloss Method	Absolute	Velocity Out	3.37 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.18 ft
System Flow Summary			
Total System Flow	1.18 cfs	System Rational Flow	1.18 cfs
System Flow Time	12.38 min	System Additional Flow	0.00 cfs
System Intensity	1.25 in/hr	System Known Flow	0.00 cfs
System CA	0.94 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.57 acres	Composite Rational C	0.60
Inlet CA	0.94 acres	Carryover CA	0.00 acres
Total Inlet CA	0.94 acres	Total Inlet Intensity	1.25 in/hr
Total Inlet Rational Flow	1.18 cfs	Total Inlet Time of Concentration	12.38 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	1.18 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #6

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	1.18 cfs	Intercepted CA	0.94 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.25 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	12.38 min
Total Intercepted Flow	1.18 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.57	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #7

Scenario Summary			
Label	5-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,951.76 ft	Calculated Station	1+66 ft
Y	704,376.31 ft		
Elevations			
Ground Elevation	64.32 ft	Hydraulic Grade Line In	61.74 ft
Rim Elevation	64.32 ft	Hydraulic Grade Line Out	61.74 ft
Sump Elevation	61.32 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.42 ft
Headloss Method	Absolute	Velocity Out	3.19 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.16 ft
System Flow Summary			
Total System Flow	0.99 cfs	System Rational Flow	0.99 cfs
System Flow Time	17.22 min	System Additional Flow	0.00 cfs
System Intensity	1.02 in/hr	System Known Flow	0.00 cfs
System CA	0.96 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	2.32 acres	Composite Rational C	0.60
Inlet CA	1.39 acres	Carryover CA	0.00 acres
Total Inlet CA	1.39 acres	Total Inlet Intensity	1.02 in/hr
Total Inlet Rational Flow	1.43 cfs	Total Inlet Time of Concentration	17.22 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	1.43 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	On Grade
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft	Bypass Target	CB #11
Longitudinal Slope	0.006000 ft/ft	Mannings n	0.015

Detailed Report for Inlet: CB #7

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	0.99 cfs	Intercepted CA	0.96 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.02 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	17.22 min
Total Intercepted Flow	0.99 cfs	Capture Efficiency	69.3 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
2.32	0.60		
User Data			
Date Installed			
Message List			
Message List			
Warning: Inlet fails maximum gutter spread constraint.			

Detailed Report for Inlet: CB #8

Scenario Summary

Label	5-YEAR
Physical Properties Alternative	Base-Physical Properties
Catchments Alternative	Base-Catchments
System Flows Alternative	Base-System Flows
Structure Headlosses Alternative	Base-Structure Headlosses
Boundary Conditions Alternative	Base-Boundary Conditions
Design Constraints Alternative	Base-Design Constraints
Cost Alternative	Base-Cost
User Data Alternative	Base-User Data

Geometric Summary

X	79,937.36 ft	Calculated Station	2+33 ft
Y	704,328.08 ft		

Elevations

Ground Elevation	64 55 ft	Hydraulic Grade Line In	61 90 ft
Rim Elevation	64.55 ft	Hydraulic Grade Line Out	61.90 ft
Sump Elevation	61.55 ft		

Headlosses

Gravity Element Headloss	0.00 ft	Depth Out	0.35 ft
Headloss Method	Absolute	Velocity Out	2.85 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.13 ft

System Flow Summary

Total System Flow	0.69 cfs	System Rational Flow	0.69 cfs
System Flow Time	12.02 min	System Additional Flow	0.00 cfs
System Intensity	1.27 in/hr	System Known Flow	0.00 cfs
System CA	0.54 acres	Total Diverted Flow In	0.00 cfs

Incoming Diverted Flow

Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		

Inlet Flow Summary

Area	1.15 acres	Composite Rational C	0.60
Inlet CA	0.69 acres	Carryover CA	0.00 acres
Total Inlet CA	0.69 acres	Total Inlet Intensity	1.27 in/hr
Total Inlet Rational Flow	0.88 cfs	Total Inlet Time of Concentration	12.02 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	0.88 cfs		

Inlet Characteristics

Inlet Type	Combination Inlet	Inlet Location	On Grade
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft	Bypass Target	CB #9
Longitudinal Slope	0.006000 ft/ft	Mannings n	0.015

Detailed Report for Inlet: CB #8

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	0.69 cfs	Intercepted CA	0.54 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.27 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	12.02 min
Total Intercepted Flow	0.69 cfs	Capture Efficiency	77.8 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.15	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #9

Scenario Summary			
Label	5-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,890.18 ft	Calculated Station	5+10 ft
Y	704,486.67 ft		
Elevations			
Ground Elevation	62.86 ft	Hydraulic Grade Line In	60.55 ft
Rim Elevation	62.86 ft	Hydraulic Grade Line Out	60.55 ft
Sump Elevation	59.86 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.69 ft
Headloss Method	Absolute	Velocity Out	1.38 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.03 ft
System Flow Summary			
Total System Flow	0.80 cfs	System Rational Flow	0.80 cfs
System Flow Time	10.00 min	System Additional Flow	0.00 cfs
System Intensity	1.40 in/hr	System Known Flow	0.00 cfs
System CA	0.57 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	0.69 acres	Composite Rational C	0.60
Inlet CA	0.41 acres	Carryover CA	0.15 acres
Total Inlet CA	0.57 acres	Total Inlet Intensity	1.40 in/hr
Total Inlet Rational Flow	0.80 cfs	Total Inlet Time of Concentration	10.00 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	0.80 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #9

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	0.80 cfs	Intercepted CA	0.57 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.40 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	10.00 min
Total Intercepted Flow	0.80 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
0.69	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #10

Scenario Summary			
Label	5-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,897.38 ft	Calculated Station	4+78 ft
Y	704,518.62 ft		
Elevations			
Ground Elevation	62.86 ft	Hydraulic Grade Line In	60.21 ft
Rim Elevation	62.86 ft	Hydraulic Grade Line Out	60.21 ft
Sump Elevation	59.86 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.35 ft
Headloss Method	Absolute	Velocity Out	0.55 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	4.71e-3 ft
System Flow Summary			
Total System Flow	0.14 cfs	System Rational Flow	0.14 cfs
System Flow Time	10.00 min	System Additional Flow	0.00 cfs
System Intensity	1.40 in/hr	System Known Flow	0.00 cfs
System CA	0.10 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	0.16 acres	Composite Rational C	0.60
Inlet CA	0.10 acres	Carryover CA	0.00 acres
Total Inlet CA	0.10 acres	Total Inlet Intensity	1.40 in/hr
Total Inlet Rational Flow	0.14 cfs	Total Inlet Time of Concentration	10.00 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	0.14 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #10

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	0.14 cfs	Intercepted CA	0.10 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.40 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	10.00 min
Total Intercepted Flow	0.14 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
0.16	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #11

Scenario Summary

Label	5-YEAR
Physical Properties Alternative	Base-Physical Properties
Catchments Alternative	Base-Catchments
System Flows Alternative	Base-System Flows
Structure Headlosses Alternative	Base-Structure Headlosses
Boundary Conditions Alternative	Base-Boundary Conditions
Design Constraints Alternative	Base-Design Constraints
Cost Alternative	Base-Cost
User Data Alternative	Base-User Data

Geometric Summary

X	80,156.40 ft	Calculated Station	0+79 ft
Y	704,777.32 ft		

Elevations

Ground Elevation	60.92 ft	Hydraulic Grade Line In	58.61 ft
Rim Elevation	60.92 ft	Hydraulic Grade Line Out	58.61 ft
Sump Elevation	57.92 ft		

Headlosses

Gravity Element Headloss	0.00 ft	Depth Out	0.69 ft
Headloss Method	Absolute	Velocity Out	4.50 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.31 ft

System Flow Summary

Total System Flow	2.61 cfs	System Rational Flow	2.61 cfs
System Flow Time	11.25 min	System Additional Flow	0.00 cfs
System Intensity	1.32 in/hr	System Known Flow	0.00 cfs
System CA	1.96 acres	Total Diverted Flow In	0.00 cfs

Incoming Diverted Flow

Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		

Inlet Flow Summary

Area	2.56 acres	Composite Rational C	0.60
Inlet CA	1.54 acres	Carryover CA	0.43 acres
Total Inlet CA	1.96 acres	Total Inlet Intensity	1.32 in/hr
Total Inlet Rational Flow	2.61 cfs	Total Inlet Time of Concentration	11.25 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	2.61 cfs		

Inlet Characteristics

Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #11

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	2.61 cfs	Intercepted CA	1.96 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.32 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	11.25 min
Total Intercepted Flow	2.61 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
2.56	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #12

Scenario Summary			
Label	5-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,991.25 ft	Calculated Station	0+75 ft
Y	705,139.72 ft		
Elevations			
Ground Elevation	60.92 ft	Hydraulic Grade Line In	58.72 ft
Rim Elevation	60.92 ft	Hydraulic Grade Line Out	58.72 ft
Sump Elevation	57.92 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.80 ft
Headloss Method	Absolute	Velocity Out	5.19 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.42 ft
System Flow Summary			
Total System Flow	3.49 cfs	System Rational Flow	3.49 cfs
System Flow Time	13.47 min	System Additional Flow	0.00 cfs
System Intensity	1.18 in/hr	System Known Flow	0.00 cfs
System CA	2.94 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	4.60 acres	Composite Rational C	0.60
Inlet CA	2.76 acres	Carryover CA	0.18 acres
Total Inlet CA	2.94 acres	Total Inlet Intensity	1.18 in/hr
Total Inlet Rational Flow	3.49 cfs	Total Inlet Time of Concentration	13.47 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	3.49 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	2.99 ft
Combination Inlet Grate Opening L	2.50 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #12

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	3.49 cfs	Intercepted CA	2.94 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.18 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	13.47 min
Total Intercepted Flow	3.49 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
4.60	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #13

Scenario Summary			
Label	5-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,714.43 ft	Calculated Station	8+00 ft
Y	704,559.86 ft		
Elevations			
Ground Elevation	64.79 ft	Hydraulic Grade Line In	61.89 ft
Rim Elevation	64.79 ft	Hydraulic Grade Line Out	61.89 ft
Sump Elevation	61.79 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.10 ft
Headloss Method	Absolute	Velocity Out	1.48 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.03 ft
System Flow Summary			
Total System Flow	0.06 cfs	System Rational Flow	0.06 cfs
System Flow Time	10.00 min	System Additional Flow	0.00 cfs
System Intensity	1.40 in/hr	System Known Flow	0.00 cfs
System CA	0.04 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	0.07 acres	Composite Rational C	0.60
Inlet CA	0.04 acres	Carryover CA	0.00 acres
Total Inlet CA	0.04 acres	Total Inlet Intensity	1.40 in/hr
Total Inlet Rational Flow	0.06 cfs	Total Inlet Time of Concentration	10.00 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	0.06 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #13

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	0.06 cfs	Intercepted CA	0.04 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.40 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	10.00 min
Total Intercepted Flow	0.06 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
0.07	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #14

Scenario Summary			
Label	5-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,712.67 ft	Calculated Station	8+37 ft
Y	704,526.30 ft		
Elevations			
Ground Elevation	64.76 ft	Hydraulic Grade Line In	62.17 ft
Rim Elevation	64.76 ft	Hydraulic Grade Line Out	62.17 ft
Sump Elevation	61.76 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.41 ft
Headloss Method	Absolute	Velocity Out	3.16 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.16 ft
System Flow Summary			
Total System Flow	0.97 cfs	System Rational Flow	0.97 cfs
System Flow Time	12.65 min	System Additional Flow	0.00 cfs
System Intensity	1.23 in/hr	System Known Flow	0.00 cfs
System CA	0.78 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.30 acres	Composite Rational C	0.60
Inlet CA	0.78 acres	Carryover CA	0.00 acres
Total Inlet CA	0.78 acres	Total Inlet Intensity	1.23 in/hr
Total Inlet Rational Flow	0.97 cfs	Total Inlet Time of Concentration	12.65 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	0.97 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #14

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	0.97 cfs	Intercepted CA	0.78 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.23 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	12.65 min
Total Intercepted Flow	0.97 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.30	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #15

Scenario Summary			
Label	5-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,648.35 ft	Calculated Station	8+17 ft
Y	704,503.13 ft		
Elevations			
Ground Elevation	65.82 ft	Hydraulic Grade Line In	63.17 ft
Rim Elevation	65.82 ft	Hydraulic Grade Line Out	63.17 ft
Sump Elevation	62.82 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.35 ft
Headloss Method	Absolute	Velocity Out	2.89 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.13 ft
System Flow Summary			
Total System Flow	0.72 cfs	System Rational Flow	0.72 cfs
System Flow Time	12.79 min	System Additional Flow	0.00 cfs
System Intensity	1.22 in/hr	System Known Flow	0.00 cfs
System CA	0.58 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.27 acres	Composite Rational C	0.60
Inlet CA	0.76 acres	Carryover CA	0.00 acres
Total Inlet CA	0.76 acres	Total Inlet Intensity	1.22 in/hr
Total Inlet Rational Flow	0.94 cfs	Total Inlet Time of Concentration	12.79 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	0.94 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	On Grade
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft	Bypass Target	CB #12
Longitudinal Slope	0.006000 ft/ft	Mannings n	0.015

Detailed Report for Inlet: CB #15

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	0.72 cfs	Intercepted CA	0.58 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.22 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	12.79 min
Total Intercepted Flow	0.72 cfs	Capture Efficiency	76.8 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.27	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #16

Scenario Summary			
Label	5-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,638.83 ft	Calculated Station	12+73 ft
Y	704,056.08 ft		
Elevations			
Ground Elevation	68.56 ft	Hydraulic Grade Line In	65.94 ft
Rim Elevation	68.56 ft	Hydraulic Grade Line Out	65.94 ft
Sump Elevation	65.56 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.38 ft
Headloss Method	Absolute	Velocity Out	3.00 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.14 ft
System Flow Summary			
Total System Flow	0.82 cfs	System Rational Flow	0.82 cfs
System Flow Time	13.18 min	System Additional Flow	0.00 cfs
System Intensity	1.20 in/hr	System Known Flow	0.00 cfs
System CA	0.68 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.13 acres	Composite Rational C	0.60
Inlet CA	0.68 acres	Carryover CA	0.00 acres
Total Inlet CA	0.68 acres	Total Inlet Intensity	1.20 in/hr
Total Inlet Rational Flow	0.82 cfs	Total Inlet Time of Concentration	13.18 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	0.82 cfs		
Inlet Characteristics			
Inlet Type	Generic Inlet	Inlet Location	On Grade
Inlet	Generic Default 100%	Inlet Section Properties	Gutter Section
Road Cross Slope	0.020 ft/ft	Depressed Gutter?	true
Gutter Cross Slope	0.020 ft/ft	Gutter Width	0.00 ft
Bypass Target	CB #15	Longitudinal Slope	0.006000 ft/ft
Mannings n	0.015		

Detailed Report for Inlet: CB #16

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	0.82 cfs	Intercepted CA	0.68 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.20 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	13.18 min
Total Intercepted Flow	0.82 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.13	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #17

Scenario Summary			
Label	5-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,703.88 ft	Calculated Station	12+77 ft
Y	704,084.21 ft		
Elevations			
Ground Elevation	67.66 ft	Hydraulic Grade Line In	65.03 ft
Rim Elevation	67.66 ft	Hydraulic Grade Line Out	65.03 ft
Sump Elevation	64.66 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.37 ft
Headloss Method	Absolute	Velocity Out	2.95 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.14 ft
System Flow Summary			
Total System Flow	0.77 cfs	System Rational Flow	0.77 cfs
System Flow Time	11.18 min	System Additional Flow	0.00 cfs
System Intensity	1.32 in/hr	System Known Flow	0.00 cfs
System CA	0.58 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	0.96 acres	Composite Rational C	0.60
Inlet CA	0.58 acres	Carryover CA	0.00 acres
Total Inlet CA	0.58 acres	Total Inlet Intensity	1.32 in/hr
Total Inlet Rational Flow	0.77 cfs	Total Inlet Time of Concentration	11.18 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	0.77 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #17

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	0.77 cfs	Intercepted CA	0.58 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.32 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	11.18 min
Total Intercepted Flow	0.77 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
0.96	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #18

Scenario Summary			
Label	5-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,697.01 ft	Calculated Station	13+10 ft
Y	704,052.09 ft		
Elevations			
Ground Elevation	67.66 ft	Hydraulic Grade Line In	66.15 ft
Rim Elevation	67.66 ft	Hydraulic Grade Line Out	65.15 ft
Sump Elevation	64.66 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.49 ft
Headloss Method	Absolute	Velocity Out	3.49 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.19 ft
System Flow Summary			
Total System Flow	1.32 cfs	System Rational Flow	1.32 cfs
System Flow Time	10.00 min	System Additional Flow	0.00 cfs
System Intensity	1.40 in/hr	System Known Flow	0.00 cfs
System CA	0.94 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.56 acres	Composite Rational C	0.60
Inlet CA	0.94 acres	Carryover CA	0.00 acres
Total Inlet CA	0.94 acres	Total Inlet Intensity	1.40 in/hr
Total Inlet Rational Flow	1.32 cfs	Total Inlet Time of Concentration	10.00 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	1.32 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #18

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	1.32 cfs	Intercepted CA	0.94 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.40 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	10.00 min
Total Intercepted Flow	1.32 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.56	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #19

Scenario Summary			
Label	5-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,587.04 ft	Calculated Station	15+49 ft
Y	703,834.24 ft		
Elevations			
Ground Elevation	69.23 ft	Hydraulic Grade Line In	66.63 ft
Rim Elevation	69.23 ft	Hydraulic Grade Line Out	66.63 ft
Sump Elevation	66.23 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.40 ft
Headloss Method	Absolute	Velocity Out	3.09 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.15 ft
System Flow Summary			
Total System Flow	0.90 cfs	System Rational Flow	0.90 cfs
System Flow Time	11.30 min	System Additional Flow	0.00 cfs
System Intensity	1.32 in/hr	System Known Flow	0.00 cfs
System CA	0.68 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	0.87 acres	Composite Rational C	0.60
Inlet CA	0.52 acres	Carryover CA	0.16 acres
Total Inlet CA	0.68 acres	Total Inlet Intensity	1.32 in/hr
Total Inlet Rational Flow	0.90 cfs	Total Inlet Time of Concentration	11.30 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	0.90 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #19

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	0.90 cfs	Intercepted CA	0.68 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.32 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	11.30 min
Total Intercepted Flow	0.90 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
0.87	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #20

Scenario Summary			
Label	5-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,567.55 ft	Calculated Station	15+69 ft
Y	703,809.15 ft		
Elevations			
Ground Elevation	69.23 ft	Hydraulic Grade Line In	66.78 ft
Rim Elevation	69.23 ft	Hydraulic Grade Line Out	66.78 ft
Sump Elevation	66.23 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.55 ft
Headloss Method	Absolute	Velocity Out	3.80 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.22 ft
System Flow Summary			
Total System Flow	1.70 cfs	System Rational Flow	1.70 cfs
System Flow Time	11.03 min	System Additional Flow	0.00 cfs
System Intensity	1.33 in/hr	System Known Flow	0.00 cfs
System CA	1.26 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.78 acres	Composite Rational C	0.60
Inlet CA	1.07 acres	Carryover CA	0.19 acres
Total Inlet CA	1.26 acres	Total Inlet Intensity	1.33 in/hr
Total Inlet Rational Flow	1.70 cfs	Total Inlet Time of Concentration	11.03 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	1.70 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #20

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	1.70 cfs	Intercepted CA	1.26 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.33 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	11.03 min
Total Intercepted Flow	1.70 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.78	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #21

Scenario Summary			
Label	5-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,821.99 ft	Calculated Station	18+40 ft
Y	703,652.83 ft		
Elevations			
Ground Elevation	71.19 ft	Hydraulic Grade Line In	68.54 ft
Rim Elevation	71.19 ft	Hydraulic Grade Line Out	68.54 ft
Sump Elevation	68.19 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.35 ft
Headloss Method	Absolute	Velocity Out	2.85 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.13 ft
System Flow Summary			
Total System Flow	0.69 cfs	System Rational Flow	0.69 cfs
System Flow Time	12.57 min	System Additional Flow	0.00 cfs
System Intensity	1.24 in/hr	System Known Flow	0.00 cfs
System CA	0.55 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.18 acres	Composite Rational C	0.60
Inlet CA	0.71 acres	Carryover CA	0.00 acres
Total Inlet CA	0.71 acres	Total Inlet Intensity	1.24 in/hr
Total Inlet Rational Flow	0.88 cfs	Total Inlet Time of Concentration	12.57 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	0.88 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	On Grade
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft	Bypass Target	CB #19
Longitudinal Slope	0.006500 ft/ft	Mannings n	0.015

Detailed Report for Inlet: CB #21

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	0.69 cfs	Intercepted CA	0.55 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.24 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	12.57 min
Total Intercepted Flow	0.69 cfs	Capture Efficiency	78.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.18	0.60		
User Data			
Date Installed			

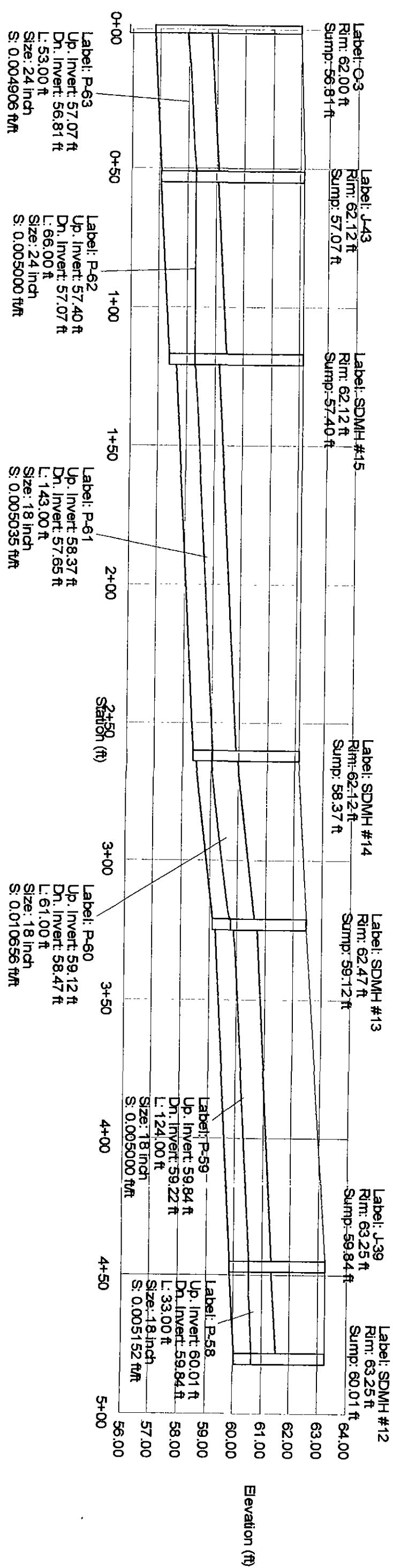
Detailed Report for Inlet: CB #22

Scenario Summary			
Label	5-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,789.07 ft	Calculated Station	18+47 ft
Y	703,638.93 ft		
Elevations			
Ground Elevation	71.19 ft	Hydraulic Grade Line In	68.55 ft
Rim Elevation	71.19 ft	Hydraulic Grade Line Out	68.55 ft
Sump Elevation	68.19 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.36 ft
Headloss Method	Absolute	Velocity Out	2.93 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.13 ft
System Flow Summary			
Total System Flow	0.76 cfs	System Rational Flow	0.76 cfs
System Flow Time	12.48 min	System Additional Flow	0.00 cfs
System Intensity	1.24 in/hr	System Known Flow	0.00 cfs
System CA	0.60 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.28 acres	Composite Rational C	0.60
Inlet CA	0.77 acres	Carryover CA	0.03 acres
Total Inlet CA	0.80 acres	Total Inlet Intensity	1.24 in/hr
Total Inlet Rational Flow	1.00 cfs	Total Inlet Time of Concentration	12.48 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	1.00 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	On Grade
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft	Bypass Target	CB #20
Longitudinal Slope	0.006500 ft/ft	Mannings n	0.015

Detailed Report for Inlet: CB #22

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	0.76 cfs	Intercepted CA	0.60 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	1.24 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	12.48 min
Total Intercepted Flow	0.76 cfs	Capture Efficiency	75.8 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.28	0.60		
User Data			
Date Installed			

**Profile
Scenario: 100-YEAR**



100-YEAR STORMCAD CALCULATIONS

Scenario: 100-YEAR

inlet rpt modified

Label	Local Rational Flow (cfs)	Total Flow To Inlet (cfs)	Intercepted Rational Flow (cfs)
CB #1	3.25	3.25	1.78
CB #2	1.12	1.12	0.83
CB #3	3.40	5.06	5.06
CB #4	3.05	3.05	3.05
CB #5	4.11	4.11	4.11
CB #6	3.20	3.20	3.20
CB #7	3.85	3.85	2.02
CB #8	2.39	2.39	1.44
CB #9	1.59	2.63	2.63
CB #10	0.37	0.37	0.37
CB #11	5.54	7.92	7.92
CB #12	8.83	9.83	9.83
CB #13	0.16	0.16	0.16
CB #14	2.61	2.61	2.61
CB #15	2.53	2.53	1.50
CB #16	2.21	2.21	2.21
CB #17	2.08	2.08	2.08
CB #18	3.59	3.59	3.59
CB #19	1.88	2.89	2.89
CB #20	3.89	5.22	5.22
CB #21	2.38	2.38	1.44
CB #22	2.60	2.87	1.64

Scenario: 100-YEAR

Pipe Report

Label	Upstream Node	Downstream Node	Upstream Inlet Area (acres)	Upstream Inlet Rational Coefficient	Upstream Inlet CA (acres)	Upstream Inlet CA (acres)	Upstream Calculated System CA (acres)	Upstream Calculated System CA (acres)	System Intensity (In/hr)	Total System Flow (cfs)	Length (ft)	Constructed Slope (ft/ft)	Section Size	Mannings n	Full Capacity (cfs)	Upstream Invert Elevation (ft)	Downstream Ground Elevation (ft)	Upstream Cover (ft)	Downstream Cover (ft)	Hydraulic Grade Line In (ft)	Hydraulic Grade Line Out (ft)	Description
P-1	CB #21	SDMH #29	1.18	0.60	0.71	0.43	3.34	1.44	18.00	0.074444	12 inch	0.014	9.03	68.19	66.85	71.19	70.82	2.00	2.97	68.80	68.84	68.84
P-2	SDMH #28	J-2	N/A	N/A	N/A	0.91	3.31	3.05	279.00	0.006523	15 inch	0.014	4.84	66.85	65.03	70.82	70.82	2.72	4.54	68.84	68.12	68.12
P-3	SDMH #28	J-2	N/A	N/A	N/A	3.15	2.98	9.45	54.00	0.006296	15 inch	0.014	4.76	65.03	64.69	70.82	70.82	4.54	4.88	68.12	66.78	66.78
P-4	SDMH #28	SDMH #27	N/A	N/A	N/A	3.15	2.96	9.38	95.00	0.005053	18 inch	0.014	6.93	64.19	63.71	70.82	69.11	5.13	3.90	66.78	65.90	65.90
P-5	SDMH #27	SDMH #26	N/A	N/A	N/A	3.15	2.90	9.21	82.00	0.004878	18 inch	0.014	6.81	63.61	63.21	69.11	68.61	4.00	3.90	65.90	65.16	65.16
P-6	SDMH #26	J-6	N/A	N/A	N/A	3.15	2.88	9.15	44.00	0.005000	24 inch	0.014	14.85	63.11	62.89	68.61	69.11	3.50	4.22	65.16	65.08	65.08
P-7	J-6	J-7	N/A	N/A	N/A	3.83	2.87	11.05	10.00	0.005000	24 inch	0.014	14.85	62.89	62.84	69.11	69.11	4.22	4.27	65.08	65.05	65.05
P-8	J-7	J-8	N/A	N/A	N/A	4.76	2.86	13.74	33.00	0.004848	24 inch	0.014	14.63	62.84	62.68	69.11	69.11	4.27	4.43	65.05	64.91	64.91
P-9	SDMH #25	SDMH #24	N/A	N/A	N/A	5.34	2.85	15.35	39.00	0.005128	24 inch	0.014	15.04	62.68	62.48	69.11	67.83	4.43	3.35	64.91	64.70	64.70
P-10	SDMH #24	SDMH #23	N/A	N/A	N/A	5.34	2.84	15.30	72.00	0.005000	24 inch	0.014	14.85	62.38	62.02	67.83	67.39	3.45	3.37	64.70	64.32	64.32
P-11	SDMH #23	SDMH #22	N/A	N/A	N/A	5.34	2.83	15.21	193.00	0.005026	24 inch	0.014	14.89	61.92	60.95	67.39	66.17	3.47	3.22	64.32	63.31	63.31
P-12	SDMH #22	SDMH #21	N/A	N/A	N/A	5.34	2.78	14.96	112.00	0.005893	24 inch	0.014	16.12	60.85	60.19	66.17	65.52	3.32	3.33	63.31	62.74	62.74
P-13	SDMH #22	J-13	N/A	N/A	N/A	5.79	2.75	16.07	27.00	0.004815	24 inch	0.014	14.58	59.69	59.56	65.52	65.52	3.83	3.96	62.74	62.58	62.58
P-14	J-13	J-14	N/A	N/A	N/A	6.57	2.75	18.19	33.00	0.005152	24 inch	0.014	15.08	59.56	59.39	65.52	65.00	3.96	3.61	62.58	62.33	62.33
P-15	J-14	SDMH #21	N/A	N/A	N/A	6.61	2.74	18.26	42.00	0.007143	24 inch	0.014	17.75	59.39	59.09	65.00	64.92	3.61	3.83	62.33	62.02	62.02
P-16	SDMH #20	SDMH #19	N/A	N/A	N/A	6.61	2.73	18.21	132.00	0.005000	24 inch	0.014	14.85	59.09	58.43	64.92	64.16	3.83	3.73	62.02	61.02	61.02
P-17	SDMH #20	SDMH #19	N/A	N/A	N/A	6.61	2.70	18.03	122.00	0.005000	24 inch	0.014	14.85	58.33	57.72	64.16	63.44	3.83	3.72	61.02	60.12	60.12
P-18	SDMH #18	SDMH #17	N/A	N/A	N/A	6.61	2.68	17.86	183.00	0.004973	24 inch	0.014	14.81	57.62	56.71	63.44	62.38	3.82	3.67	60.12	58.80	58.80
P-19	SDMH #17	SDMH #16	N/A	N/A	N/A	6.61	2.64	17.61	73.00	0.005068	24 inch	0.014	14.95	56.61	56.24	62.38	61.95	3.77	3.71	58.80	58.29	58.29
P-20	SDMH #16	J-21	N/A	N/A	N/A	6.61	2.63	17.51	73.00	0.006301	24 inch	0.014	16.67	56.14	55.68	61.95	61.95	3.81	4.27	58.29	57.78	57.78
P-21	SDMH #16	J-21	N/A	N/A	N/A	6.61	2.61	17.41	63.00	0.004921	24 inch	0.014	14.73	55.18	54.87	61.95	61.95	4.77	5.08	57.78	57.35	57.35
P-22	J-21	O-1	N/A	N/A	N/A	9.68	2.60	25.36	61.00	0.005082	24 inch	0.014	14.97	54.87	54.56	61.00	50.08	4.44	5.43	56.33	56.33	56.33
P-23	CB #12	J-21	4.60	2.76	3.07	3.18	9.83	14.00	217.857	12 inch	0.014	15.44	57.92	54.87	60.92	61.95	2.00	6.08	58.91	57.35	57.35	
P-24	CB #13	J-14	0.07	0.60	0.04	3.80	0.16	51.00	0.047059	12 inch	0.014	7.18	61.79	59.39	64.79	65.00	2.00	4.61	62.33	62.33	62.33	
P-25	CB #14	J-13	1.30	0.60	0.78	0.78	3.32	2.61	55.00	0.040000	12 inch	0.014	6.62	61.76	59.56	64.76	65.52	2.00	4.96	62.92	62.58	62.58
P-26	CB #17	J-8	0.96	0.60	0.58	0.58	3.59	2.08	52.00	0.038077	12 inch	0.014	6.46	64.66	62.68	67.66	69.11	2.00	5.27	65.66	65.05	65.05
P-27	CB #18	J-7	1.56	0.60	0.94	0.94	3.80	3.59	52.00	0.035000	12 inch	0.014	6.19	64.66	62.84	67.66	69.11	2.00	5.27	65.66	65.05	65.05
P-28	CB #16	J-6	1.13	0.60	0.68	0.68	3.23	2.21	5.00	0.534000	12 inch	0.014	24.17	65.56	62.89	68.56	69.11	2.00	5.22	66.19	65.08	65.08
P-29	CB #19	J-2	0.87	0.60	0.52	0.80	3.57	2.89	6.00	0.200000	12 inch	0.014	14.79	66.23	65.03	69.23	70.82	2.00	4.79	68.16	68.12	68.12
P-30	CB #20	J-2	1.78	0.60	1.07	1.43	3.61	5.22	26.00	0.046154	12 inch	0.014										

Scenario: 100-YEAR

Pipe Report

Label	Upstream Node	Downstream Node	Upstream Inlet Area (acres)	Upstream Rational Coefficient	Inlet CA (acres)	Upstream System CA (acres)	Upstream System CA (acres)	Upstream System Intensity (in/hr)	Upstream System Capacity (cfs)	Upstream Length (ft)	Constructed Slope (ft/ft)	Section Size	Mannings n	Full Capacity (cfs)	Upstream Invert Elevation (ft)	Upstream Ground Elevation (ft)	Downstream Cover (ft)	Upstream Cover (ft)	Downstream Cover (ft)	Hydraulic Grade Line In (ft)	Hydraulic Grade Line Out (ft)	Description
P-52	CB #3	J-26	1.57	0.60	0.94	1.40	3.58	5.06	25.00	0.067200	12 inch	0.014	8.58	68.04	64.36	68.42	2.00	3.06	68.96	65.68		
P-53	CB #4	J-27	1.42	0.60	0.85	0.85	3.56	3.05	7.00	0.228571	12 inch	0.014	15.82	65.87	64.27	68.42	2.00	3.15	66.62	65.62		
P-54	CB #5	J-29	1.79	0.60	1.07	1.07	3.80	4.11	32.00	0.014063	12 inch	0.014	3.92	63.38	62.93	66.38	2.00	2.54	64.86	64.36		
P-55	CB #6	J-30	1.57	0.60	0.94	0.94	3.37	3.20	32.00	0.019062	12 inch	0.014	4.57	63.38	62.77	66.38	2.00	2.70	64.57	64.27		
P-56	CB #8	SDMH #9	1.15	0.60	0.69	0.42	3.44	1.44	6.00	0.311167	12 inch	0.014	18.47	61.55	59.68	64.55	64.25	2.00	3.57	62.06	61.24	
P-57	CB #9	SDMH #12	0.68	0.60	0.41	0.69	3.80	2.63	30.00	-0.005000	12 inch	0.014	-2.34	59.86	60.01	62.86	63.25	2.00	2.24	61.03	60.71	
P-58	SDMH #12	J-39	N/A	N/A	N/A	0.69	3.78	2.62	33.00	0.005152	18 inch	0.014	7.00	60.01	59.84	63.25	63.25	1.74	1.91	60.65	60.52	
P-59	J-39	SDMH #13	N/A	N/A	N/A	0.78	3.66	2.89	124.00	0.005000	18 inch	0.014	6.90	59.84	59.22	63.25	62.47	1.91	1.75	60.52	59.87	
P-60	SDMH #12	SDMH #14	N/A	N/A	N/A	0.78	3.56	2.81	61.00	0.010656	18 inch	0.014	10.07	59.12	58.47	62.47	62.12	1.85	2.15	59.76	59.01	
P-61	SDMH #14	SDMH #15	N/A	N/A	N/A	0.78	3.52	2.78	143.00	0.005035	18 inch	0.014	6.92	58.37	57.65	62.12	62.12	2.25	2.97	59.03	58.28	
P-62	SDMH #15	J-43	N/A	N/A	N/A	0.78	3.41	2.69	66.00	0.005000	24 inch	0.014	14.85	57.40	57.07	62.12	62.12	2.72	3.05	58.28	58.27	
P-63	J-43	O-3	N/A	N/A	2.98	3.29	9.89	53.00	0.004906	24 inch	0.014	14.71	57.07	56.81	62.12	62.00	3.05	3.19	58.27	57.93		
P-64	CB #11	J-43	2.56	0.60	1.54	2.20	3.57	7.92	26.00	0.032692	12 inch	0.014	5.98	57.92	57.07	60.92	62.12	2.00	4.05	59.76	58.27	
P-65	CB #10	J-39	0.16	0.60	0.10	3.80	0.37	31.00	0.000645	12 inch	0.014	0.84	59.86	59.84	62.86	63.25	2.00	2.41	60.52	60.52		

Detailed Report for Inlet: CB #1

Scenario Summary			
Label	100-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	80,228.00 ft	Calculated Station	14+43 ft
Y	703,422.00 ft		
Elevations			
Ground Elevation	74.52 ft	Hydraulic Grade Line In	72.09 ft
Rim Elevation	74.52 ft	Hydraulic Grade Line Out	72.09 ft
Sump Elevation	71.52 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.57 ft
Headloss Method	Absolute	Velocity Out	3.86 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.23 ft
System Flow Summary			
Total System Flow	1.78 cfs	System Rational Flow	1.78 cfs
System Flow Time	13.47 min	System Additional Flow	0.00 cfs
System Intensity	3.18 in/hr	System Known Flow	0.00 cfs
System CA	0.55 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.69 acres	Composite Rational C	0.60
Inlet CA	1.01 acres	Carryover CA	0.00 acres
Total Inlet CA	1.01 acres	Total Inlet Intensity	3.18 in/hr
Total Inlet Rational Flow	3.25 cfs	Total Inlet Time of Concentration	13.47 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	3.25 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	On Grade
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft	Bypass Target	CB #3
Longitudinal Slope	0.008000 ft/ft	Mannings n	0.015

Detailed Report for Inlet: CB #1

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	1.78 cfs	Intercepted CA	0.55 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.18 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	13.47 min
Total Intercepted Flow	1.78 cfs	Capture Efficiency	54.7 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.69	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #2

Scenario Summary

Label	100-YEAR
Physical Properties Alternative	Base-Physical Properties
Catchments Alternative	Base-Catchments
System Flows Alternative	Base-System Flows
Structure Headlosses Alternative	Base-Structure Headlosses
Boundary Conditions Alternative	Base-Boundary Conditions
Design Constraints Alternative	Base-Design Constraints
Cost Alternative	Base-Cost
User Data Alternative	Base-User Data

Geometric Summary

X	80,161.60 ft	Calculated Station	14+77 ft
Y	703,422.00 ft		

Elevations

Ground Elevation	73.88 ft	Hydraulic Grade Line In	71.26 ft
Rim Elevation	73.88 ft	Hydraulic Grade Line Out	71.26 ft
Sump Elevation	70.88 ft		

Headlosses

Gravity Element Headloss	0.00 ft	Depth Out	0.38 ft
Headloss Method	Absolute	Velocity Out	3.01 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.14 ft

System Flow Summary

Total System Flow	0.83 cfs	System Rational Flow	0.83 cfs
System Flow Time	11.30 min	System Additional Flow	0.00 cfs
System Intensity	3.57 in/hr	System Known Flow	0.00 cfs
System CA	0.23 acres	Total Diverted Flow In	0.00 cfs

Incoming Diverted Flow

Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		

Inlet Flow Summary

Area	0.52 acres	Composite Rational C	0.60
Inlet CA	0.31 acres	Carryover CA	0.00 acres
Total Inlet CA	0.31 acres	Total Inlet Intensity	3.57 in/hr
Total Inlet Rational Flow	1.12 cfs	Total Inlet Time of Concentration	11.30 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	1.12 cfs		

Inlet Characteristics

Inlet Type	Combination Inlet	Inlet Location	On Grade
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft	Bypass Target	CB #22
Longitudinal Slope	0.006500 ft/ft	Mannings n	0.015

Detailed Report for Inlet: CB #2

External Pipe Flow

External CA	0.00 acres	External Time of Concentration	0.00 min
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Intercepted Flow Summary

Intercepted Rational Flow	0.83 cfs	Intercepted CA	0.23 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.57 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	11.30 min
Total Intercepted Flow	0.83 cfs	Capture Efficiency	73.7 %

Upstream Piped Flow Summary

Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		

Design Constraints Summary

Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft

Subwatershed Information

Area (acres)	Inlet C
0.52	0.60

User Data

Date Installed

Detailed Report for Inlet: CB #3

Scenario Summary

Label	100-YEAR
Physical Properties Alternative	Base-Physical Properties
Catchments Alternative	Base-Catchments
System Flows Alternative	Base-System Flows
Structure Headlosses Alternative	Base-Structure Headlosses
Boundary Conditions Alternative	Base-Boundary Conditions
Design Constraints Alternative	Base-Design Constraints
Cost Alternative	Base-Cost
User Data Alternative	Base-User Data

Geometric Summary

X	80,411.85 ft	Calculated Station	9+68 ft
Y	703,851.39 ft		

Elevations

Ground Elevation	69.04 ft	Hydraulic Grade Line In	66.96 ft
Rim Elevation	69.04 ft	Hydraulic Grade Line Out	66.96 ft
Sump Elevation	66.04 ft		

Headlosses

Gravity Element Headloss	0.00 ft	Depth Out	0.92 ft
Headloss Method	Absolute	Velocity Out	6.69 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.70 ft

System Flow Summary

Total System Flow	5.06 cfs	System Rational Flow	5.06 cfs
System Flow Time	11.22 min	System Additional Flow	0.00 cfs
System Intensity	3.58 in/hr	System Known Flow	0.00 cfs
System CA	1.40 acres	Total Diverted Flow In	0.00 cfs

Incoming Diverted Flow

Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		

Inlet Flow Summary

Area	1.57 acres	Composite Rational C	0.60
Inlet CA	0.94 acres	Carryover CA	0.46 acres
Total Inlet CA	1.40 acres	Total Inlet Intensity	3.58 in/hr
Total Inlet Rational Flow	5.06 cfs	Total Inlet Time of Concentration	11.22 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	5.06 cfs		

Inlet Characteristics

Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #3

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	5.06 cfs	Intercepted CA	1.40 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.58 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	11.22 min
Total Intercepted Flow	5.06 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.57	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #4

Scenario Summary			
Label	100-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	80,396.81 ft	Calculated Station	9+32 ft
Y	703,884.59 ft		
Elevations			
Ground Elevation	68.87 ft	Hydraulic Grade Line In	66.62 ft
Rim Elevation	68.87 ft	Hydraulic Grade Line Out	66.62 ft
Sump Elevation	65.87 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.75 ft
Headloss Method	Absolute	Velocity Out	4.84 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.36 ft
System Flow Summary			
Total System Flow	3.05 cfs	System Rational Flow	3.05 cfs
System Flow Time	11.36 min	System Additional Flow	0.00 cfs
System Intensity	3.56 in/hr	System Known Flow	0.00 cfs
System CA	0.85 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.42 acres	Composite Rational C	0.60
Inlet CA	0.85 acres	Carryover CA	0.00 acres
Total Inlet CA	0.85 acres	Total Inlet Intensity	3.56 in/hr
Total Inlet Rational Flow	3.05 cfs	Total Inlet Time of Concentration	11.36 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	3.05 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #4

External Pipe Flow

External CA	0.00 acres	External Time of Concentration	0.00 min
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Intercepted Flow Summary

Intercepted Rational Flow	3.05 cfs	Intercepted CA	0.85 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.56 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	11.36 min
Total Intercepted Flow	3.05 cfs	Capture Efficiency	100.0 %

Upstream Piped Flow Summary

Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		

Design Constraints Summary

Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft

Subwatershed Information

Area (acres)	Inlet C
1.42	0.60

User Data

Date Installed

Detailed Report for Inlet: CB #5

Scenario Summary

Label	100-YEAR
Physical Properties Alternative	Base-Physical Properties
Catchments Alternative	Base-Catchments
System Flows Alternative	Base-System Flows
Structure Headlosses Alternative	Base-Structure Headlosses
Boundary Conditions Alternative	Base-Boundary Conditions
Design Constraints Alternative	Base-Design Constraints
Cost Alternative	Base-Cost
User Data Alternative	Base-User Data

Geometric Summary

X	80,267.78 ft	Calculated Station	7+07 ft
Y	704,068.12 ft		

Elevations

Ground Elevation	66.38 ft	Hydraulic Grade Line In	64.86 ft
Rim Elevation	66.38 ft	Hydraulic Grade Line Out	64.86 ft
Sump Elevation	63.38 ft		

Headlosses

Gravity Element Headloss	0.00 ft	Depth Out	1.48 ft
Headloss Method	Absolute	Velocity Out	5.24 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.43 ft

System Flow Summary

Total System Flow	4.11 cfs	System Rational Flow	4.11 cfs
System Flow Time	10.00 min	System Additional Flow	0.00 cfs
System Intensity	3.80 in/hr	System Known Flow	0.00 cfs
System CA	1.07 acres	Total Diverted Flow In	0.00 cfs

Incoming Diverted Flow

Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		

Inlet Flow Summary

Area	1.79 acres	Composite Rational C	0.60
Inlet CA	1.07 acres	Carryover CA	0.00 acres
Total Inlet CA	1.07 acres	Total Inlet Intensity	3.80 in/hr
Total Inlet Rational Flow	4.11 cfs	Total Inlet Time of Concentration	10.00 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	4.11 cfs		

Inlet Characteristics

Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #5

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	4.11 cfs	Intercepted CA	1.07 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.80 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	10.00 min
Total Intercepted Flow	4.11 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.79	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #6

Scenario Summary			
Label	100-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	80,249.30 ft	Calculated Station	6+74 ft
Y	704,095.37 ft		
Elevations			
Ground Elevation	66.38 ft	Hydraulic Grade Line In	64.57 ft
Rim Elevation	66.38 ft	Hydraulic Grade Line Out	64.57 ft
Sump Elevation	63.38 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	1.19 ft
Headloss Method	Absolute	Velocity Out	4.08 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.26 ft
System Flow Summary			
Total System Flow	3.20 cfs	System Rational Flow	3.20 cfs
System Flow Time	12.38 min	System Additional Flow	0.00 cfs
System Intensity	3.37 in/hr	System Known Flow	0.00 cfs
System CA	0.94 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.57 acres	Composite Rational C	0.60
Inlet CA	0.94 acres	Carryover CA	0.00 acres
Total Inlet CA	0.94 acres	Total Inlet Intensity	3.37 in/hr
Total Inlet Rational Flow	3.20 cfs	Total Inlet Time of Concentration	12.38 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	3.20 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #6

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	3.20 cfs	Intercepted CA	0.94 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.37 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	12.38 min
Total Intercepted Flow	3.20 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.57	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #7

Scenario Summary

Label	100-YEAR
Physical Properties Alternative	Base-Physical Properties
Catchments Alternative	Base-Catchments
System Flows Alternative	Base-System Flows
Structure Headlosses Alternative	Base-Structure Headlosses
Boundary Conditions Alternative	Base-Boundary Conditions
Design Constraints Alternative	Base-Design Constraints
Cost Alternative	Base-Cost
User Data Alternative	Base-User Data

Geometric Summary

X	79,951.76 ft	Calculated Station	1+66 ft
Y	704,376.31 ft		

Elevations

Ground Elevation	64.32 ft	Hydraulic Grade Line In	61.93 ft
Rim Elevation	64.32 ft	Hydraulic Grade Line Out	61.93 ft
Sump Elevation	61.32 ft		

Headlosses

Gravity Element Headloss	0.00 ft	Depth Out	0.61 ft
Headloss Method	Absolute	Velocity Out	4.05 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.26 ft

System Flow Summary

Total System Flow	2.02 cfs	System Rational Flow	2.02 cfs
System Flow Time	17.22 min	System Additional Flow	0.00 cfs
System Intensity	2.74 in/hr	System Known Flow	0.00 cfs
System CA	0.73 acres	Total Diverted Flow In	0.00 cfs

Incoming Diverted Flow

Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		

Inlet Flow Summary

Area	2.32 acres	Composite Rational C	0.60
Inlet CA	1.39 acres	Carryover CA	0.00 acres
Total Inlet CA	1.39 acres	Total Inlet Intensity	2.74 in/hr
Total Inlet Rational Flow	3.85 cfs	Total Inlet Time of Concentration	17.22 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	3.85 cfs		

Inlet Characteristics

Inlet Type	Combination Inlet	Inlet Location	On Grade
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft	Bypass Target	CB #11
Longitudinal Slope	0.006000 ft/ft	Mannings n	0.015

Detailed Report for Inlet: CB #7

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	2.02 cfs	Intercepted CA	0.73 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	2.74 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	17.22 min
Total Intercepted Flow	2.02 cfs	Capture Efficiency	52.5 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
2.32	0.60		
User Data			
Date Installed			
Message List			
Message List			
Warning: Inlet fails maximum gutter spread constraint.			

Detailed Report for Inlet: CB #8

Scenario Summary

Label	100-YEAR
Physical Properties Alternative	Base-Physical Properties
Catchments Alternative	Base-Catchments
System Flows Alternative	Base-System Flows
Structure Headlosses Alternative	Base-Structure Headlosses
Boundary Conditions Alternative	Base-Boundary Conditions
Design Constraints Alternative	Base-Design Constraints
Cost Alternative	Base-Cost
User Data Alternative	Base-User Data

Geometric Summary

X	79,937.36 ft	Calculated Station	2+33 ft
Y	704,328.08 ft		

Elevations

Ground Elevation	64.55 ft	Hydraulic Grade Line In	62.06 ft
Rim Elevation	64.55 ft	Hydraulic Grade Line Out	62.06 ft
Sump Elevation	61.55 ft		

Headlosses

Gravity Element Headloss	0.00 ft	Depth Out	0.51 ft
Headloss Method	Absolute	Velocity Out	3.59 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.20 ft

System Flow Summary

Total System Flow	1.44 cfs	System Rational Flow	1.44 cfs
System Flow Time	12.02 min	System Additional Flow	0.00 cfs
System Intensity	3.44 in/hr	System Known Flow	0.00 cfs
System CA	0.42 acres	Total Diverted Flow In	0.00 cfs

Incoming Diverted Flow

Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		

Inlet Flow Summary

Area	1.15 acres	Composite Rational C	0.60
Inlet CA	0.69 acres	Carryover CA	0.00 acres
Total Inlet CA	0.69 acres	Total Inlet Intensity	3.44 in/hr
Total Inlet Rational Flow	2.39 cfs	Total Inlet Time of Concentration	12.02 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	2.39 cfs		

Inlet Characteristics

Inlet Type	Combination Inlet	Inlet Location	On Grade
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft	Bypass Target	CB #9
Longitudinal Slope	0.006000 ft/ft	Mannings n	0.015

Detailed Report for Inlet: CB #8

External Pipe Flow

External CA	0.00 acres	External Time of Concentration	0.00 min
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Intercepted Flow Summary

Intercepted Rational Flow	1.44 cfs	Intercepted CA	0.42 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.44 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	12.02 min
Total Intercepted Flow	1.44 cfs	Capture Efficiency	60.3 %

Upstream Piped Flow Summary

Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		

Design Constraints Summary

Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft

Subwatershed Information

Area (acres)	Inlet C
1.15	0.60

User Data

Date Installed

Detailed Report for Inlet: CB #9

Scenario Summary

Label	100-YEAR
Physical Properties Alternative	Base-Physical Properties
Catchments Alternative	Base-Catchments
System Flows Alternative	Base-System Flows
Structure Headlosses Alternative	Base-Structure Headlosses
Boundary Conditions Alternative	Base-Boundary Conditions
Design Constraints Alternative	Base-Design Constraints
Cost Alternative	Base-Cost
User Data Alternative	Base-User Data

Geometric Summary

X	79,890.18 ft	Calculated Station	5+10 ft
Y	704,486.67 ft		

Elevations

Ground Elevation	62.86 ft	Hydraulic Grade Line In	61.03 ft
Rim Elevation	62.86 ft	Hydraulic Grade Line Out	61.03 ft
Sump Elevation	59.86 ft		

Headlosses

Gravity Element Headloss	0.00 ft	Depth Out	1.17 ft
Headloss Method	Absolute	Velocity Out	3.35 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.17 ft

System Flow Summary

Total System Flow	2.63 cfs	System Rational Flow	2.63 cfs
System Flow Time	10.00 min	System Additional Flow	0.00 cfs
System Intensity	3.80 in/hr	System Known Flow	0.00 cfs
System CA	0.69 acres	Total Diverted Flow In	0.00 cfs

Incoming Diverted Flow

Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		

Inlet Flow Summary

Area	0.69 acres	Composite Rational C	0.60
Inlet CA	0.41 acres	Carryover CA	0.27 acres
Total Inlet CA	0.69 acres	Total Inlet Intensity	3.80 in/hr
Total Inlet Rational Flow	2.63 cfs	Total Inlet Time of Concentration	10.00 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	2.63 cfs		

Inlet Characteristics

Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #9

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	2.63 cfs	Intercepted CA	0.69 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.80 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	10.00 min
Total Intercepted Flow	2.63 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
0.69	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #10

Scenario Summary

Label	100-YEAR
Physical Properties Alternative	Base-Physical Properties
Catchments Alternative	Base-Catchments
System Flows Alternative	Base-System Flows
Structure Headlosses Alternative	Base-Structure Headlosses
Boundary Conditions Alternative	Base-Boundary Conditions
Design Constraints Alternative	Base-Design Constraints
Cost Alternative	Base-Cost
User Data Alternative	Base-User Data

Geometric Summary

X	79,897.38 ft	Calculated Station	4+78 ft
Y	704,518.62 ft		

Elevations

Ground Elevation	62.86 ft	Hydraulic Grade Line In	60.52 ft
Rim Elevation	62.86 ft	Hydraulic Grade Line Out	60.52 ft
Sump Elevation	59.86 ft		

Headlosses

Gravity Element Headloss	0.00 ft	Depth Out	0.66 ft
Headloss Method	Absolute	Velocity Out	0.67 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.01 ft

System Flow Summary

Total System Flow	0.37 cfs	System Rational Flow	0.37 cfs
System Flow Time	10.00 min	System Additional Flow	0.00 cfs
System Intensity	3.80 in/hr	System Known Flow	0.00 cfs
System CA	0.10 acres	Total Diverted Flow In	0.00 cfs

Incoming Diverted Flow

Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		

Inlet Flow Summary

Area	0.16 acres	Composite Rational C	0.60
Inlet CA	0.10 acres	Carryover CA	0.00 acres
Total Inlet CA	0.10 acres	Total Inlet Intensity	3.80 in/hr
Total Inlet Rational Flow	0.37 cfs	Total Inlet Time of Concentration	10.00 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	0.37 cfs		

Inlet Characteristics

Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #10

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	0.37 cfs	Intercepted CA	0.10 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.80 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	10.00 min
Total Intercepted Flow	0.37 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
0.16	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #11

Scenario Summary

Label	100-YEAR
Physical Properties Alternative	Base-Physical Properties
Catchments Alternative	Base-Catchments
System Flows Alternative	Base-System Flows
Structure Headlosses Alternative	Base-Structure Headlosses
Boundary Conditions Alternative	Base-Boundary Conditions
Design Constraints Alternative	Base-Design Constraints
Cost Alternative	Base-Cost
User Data Alternative	Base-User Data

Geometric Summary

X	80,156.40 ft	Calculated Station	0+79 ft
Y	704,777.32 ft		

Elevations

Ground Elevation	60.92 ft	Hydraulic Grade Line In	59.76 ft
Rim Elevation	60.92 ft	Hydraulic Grade Line Out	59.76 ft
Sump Elevation	57.92 ft		

Headlosses

Gravity Element Headloss	0.00 ft	Depth Out	1.84 ft
Headloss Method	Absolute	Velocity Out	10.08 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	1.58 ft

System Flow Summary

Total System Flow	7.92 cfs	System Rational Flow	7.92 cfs
System Flow Time	11.25 min	System Additional Flow	0.00 cfs
System Intensity	3.57 in/hr	System Known Flow	0.00 cfs
System CA	2.20 acres	Total Diverted Flow In	0.00 cfs

Incoming Diverted Flow

Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		

Inlet Flow Summary

Area	2.56 acres	Composite Rational C	0.60
Inlet CA	1.54 acres	Carryover CA	0.66 acres
Total Inlet CA	2.20 acres	Total Inlet Intensity	3.57 in/hr
Total Inlet Rational Flow	7.92 cfs	Total Inlet Time of Concentration	11.25 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	7.92 cfs		

Inlet Characteristics

Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #11

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	7.92 cfs	Intercepted CA	2.20 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.57 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	11.25 min
Total Intercepted Flow	7.92 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
2.56	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #12

Scenario Summary			
Label	100-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,991.25 ft	Calculated Station	0+75 ft
Y	705,139.72 ft		
Elevations			
Ground Elevation	60.92 ft	Hydraulic Grade Line In	58.91 ft
Rim Elevation	60.92 ft	Hydraulic Grade Line Out	58.91 ft
Sump Elevation	57.92 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.99 ft
Headloss Method	Absolute	Velocity Out	12.52 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	2.44 ft
System Flow Summary			
Total System Flow	9.83 cfs	System Rational Flow	9.83 cfs
System Flow Time	13.47 min	System Additional Flow	0.00 cfs
System Intensity	3.18 in/hr	System Known Flow	0.00 cfs
System CA	3.07 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	4.60 acres	Composite Rational C	0.60
Inlet CA	2.76 acres	Carryover CA	0.31 acres
Total Inlet CA	3.07 acres	Total Inlet Intensity	3.18 in/hr
Total Inlet Rational Flow	9.83 cfs	Total Inlet Time of Concentration	13.47 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	9.83 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	2.99 ft
Combination Inlet Grate Opening L	2.50 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #12

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	9.83 cfs	Intercepted CA	3.07 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.18 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	13.47 min
Total Intercepted Flow	9.83 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
4.60	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #13

Scenario Summary			
Label	100-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,714.43 ft	Calculated Station	8+00 ft
Y	704,559.86 ft		
Elevations			
Ground Elevation	64.79 ft	Hydraulic Grade Line In	62.33 ft
Rim Elevation	64.79 ft	Hydraulic Grade Line Out	62.33 ft
Sump Elevation	61.79 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.54 ft
Headloss Method	Absolute	Velocity Out	0.37 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	2.12e-3 ft
System Flow Summary			
Total System Flow	0.16 cfs	System Rational Flow	0.16 cfs
System Flow Time	10.00 min	System Additional Flow	0.00 cfs
System Intensity	3.80 in/hr	System Known Flow	0.00 cfs
System CA	0.04 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	0.07 acres	Composite Rational C	0.60
Inlet CA	0.04 acres	Carryover CA	0.00 acres
Total Inlet CA	0.04 acres	Total Inlet Intensity	3.80 in/hr
Total Inlet Rational Flow	0.16 cfs	Total Inlet Time of Concentration	10.00 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	0.16 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #13

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	0.16 cfs	Intercepted CA	0.04 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.80 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	10.00 min
Total Intercepted Flow	0.16 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
0.07	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #14

Scenario Summary			
Label	100-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,712.67 ft	Calculated Station	8+37 ft
Y	704,526.30 ft		
Elevations			
Ground Elevation	64.76 ft	Hydraulic Grade Line In	62.92 ft
Rim Elevation	64.76 ft	Hydraulic Grade Line Out	62.92 ft
Sump Elevation	61.76 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	1.16 ft
Headloss Method	Absolute	Velocity Out	3.33 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.17 ft
System Flow Summary			
Total System Flow	2.61 cfs	System Rational Flow	2.61 cfs
System Flow Time	12.65 min	System Additional Flow	0.00 cfs
System Intensity	3.32 in/hr	System Known Flow	0.00 cfs
System CA	0.78 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.30 acres	Composite Rational C	0.60
Inlet CA	0.78 acres	Carryover CA	0.00 acres
Total Inlet CA	0.78 acres	Total Inlet Intensity	3.32 in/hr
Total Inlet Rational Flow	2.61 cfs	Total Inlet Time of Concentration	12.65 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	2.61 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #14

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	2.61 cfs	Intercepted CA	0.78 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.32 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	12.65 min
Total Intercepted Flow	2.61 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.30	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #15

Scenario Summary			
Label	100-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,648.35 ft	Calculated Station	8+17 ft
Y	704,503.13 ft		
Elevations			
Ground Elevation	65.82 ft	Hydraulic Grade Line In	63.34 ft
Rim Elevation	65.82 ft	Hydraulic Grade Line Out	63.34 ft
Sump Elevation	62.82 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.52 ft
Headloss Method	Absolute	Velocity Out	3.64 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.21 ft
System Flow Summary			
Total System Flow	1.50 cfs	System Rational Flow	1.50 cfs
System Flow Time	12.79 min	System Additional Flow	0.00 cfs
System Intensity	3.30 in/hr	System Known Flow	0.00 cfs
System CA	0.45 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.27 acres	Composite Rational C	0.60
Inlet CA	0.76 acres	Carryover CA	0.00 acres
Total Inlet CA	0.76 acres	Total Inlet Intensity	3.30 in/hr
Total Inlet Rational Flow	2.53 cfs	Total Inlet Time of Concentration	12.79 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	2.53 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	On Grade
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft	Bypass Target	CB #12
Longitudinal Slope	0.006000 ft/ft	Mannings n	0.015

Detailed Report for Inlet: CB #15

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	1.50 cfs	Intercepted CA	0.45 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.30 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	12.79 min
Total Intercepted Flow	1.50 cfs	Capture Efficiency	59.4 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.27	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #16

Scenario Summary			
Label	100-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,638.83 ft	Calculated Station	12+73 ft
Y	704,056.08 ft		
Elevations			
Ground Elevation	68.56 ft	Hydraulic Grade Line In	66.19 ft
Rim Elevation	68.56 ft	Hydraulic Grade Line Out	66.19 ft
Sump Elevation	65.56 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.63 ft
Headloss Method	Absolute	Velocity Out	4.19 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.27 ft
System Flow Summary			
Total System Flow	2.21 cfs	System Rational Flow	2.21 cfs
System Flow Time	13.18 min	System Additional Flow	0.00 cfs
System Intensity	3.23 in/hr	System Known Flow	0.00 cfs
System CA	0.68 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.13 acres	Composite Rational C	0.60
Inlet CA	0.68 acres	Carryover CA	0.00 acres
Total Inlet CA	0.68 acres	Total Inlet Intensity	3.23 in/hr
Total Inlet Rational Flow	2.21 cfs	Total Inlet Time of Concentration	13.18 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	2.21 cfs		
Inlet Characteristics			
Inlet Type	Generic Inlet	Inlet Location	On Grade
Inlet	Generic Default 100%	Inlet Section Properties	Gutter Section
Road Cross Slope	0.020 ft/ft	Depressed Gutter?	true
Gutter Cross Slope	0.020 ft/ft	Gutter Width	0.00 ft
Bypass Target	CB #15	Longitudinal Slope	0.006000 ft/ft
Mannings n	0.015		

Detailed Report for Inlet: CB #16

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	2.21 cfs	Intercepted CA	0.68 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.23 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	13.18 min
Total Intercepted Flow	2.21 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.13	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #17

Scenario Summary			
Label	100-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,703.88 ft	Calculated Station	12+77 ft
Y	704,084.21 ft		
Elevations			
Ground Elevation	67.66 ft	Hydraulic Grade Line In	65.28 ft
Rim Elevation	67.66 ft	Hydraulic Grade Line Out	65.28 ft
Sump Elevation	64.66 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.62 ft
Headloss Method	Absolute	Velocity Out	4.10 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.26 ft
System Flow Summary			
Total System Flow	2.08 cfs	System Rational Flow	2.08 cfs
System Flow Time	11.18 min	System Additional Flow	0.00 cfs
System Intensity	3.59 in/hr	System Known Flow	0.00 cfs
System CA	0.58 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	0.96 acres	Composite Rational C	0.60
Inlet CA	0.58 acres	Carryover CA	0.00 acres
Total Inlet CA	0.58 acres	Total Inlet Intensity	3.59 in/hr
Total Inlet Rational Flow	2.08 cfs	Total Inlet Time of Concentration	11.18 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	2.08 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #17

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	2.08 cfs	Intercepted CA	0.58 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.59 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	11.18 min
Total Intercepted Flow	2.08 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
0.96	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #18

Scenario Summary

Label	100-YEAR
Physical Properties Alternative	Base-Physical Properties
Catchments Alternative	Base-Catchments
System Flows Alternative	Base-System Flows
Structure Headlosses Alternative	Base-Structure Headlosses
Boundary Conditions Alternative	Base-Boundary Conditions
Design Constraints Alternative	Base-Design Constraints
Cost Alternative	Base-Cost
User Data Alternative	Base-User Data

Geometric Summary

X	79,697.01 ft	Calculated Station	13+10 ft
Y	704,052.09 ft		

Elevations

Ground Elevation	67.66 ft	Hydraulic Grade Line In	65.66 ft
Rim Elevation	67.66 ft	Hydraulic Grade Line Out	65.66 ft
Sump Elevation	64.66 ft		

Headlosses

Gravity Element Headloss	0.00 ft	Depth Out	1.00 ft
Headloss Method	Absolute	Velocity Out	4.56 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.32 ft

System Flow Summary

Total System Flow	3.59 cfs	System Rational Flow	3.59 cfs
System Flow Time	10.00 min	System Additional Flow	0.00 cfs
System Intensity	3.80 in/hr	System Known Flow	0.00 cfs
System CA	0.94 acres	Total Diverted Flow In	0.00 cfs

Incoming Diverted Flow

Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		

Inlet Flow Summary

Area	1.56 acres	Composite Rational C	0.60
Inlet CA	0.94 acres	Carryover CA	0.00 acres
Total Inlet CA	0.94 acres	Total Inlet Intensity	3.80 in/hr
Total Inlet Rational Flow	3.59 cfs	Total Inlet Time of Concentration	10.00 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	3.59 cfs		

Inlet Characteristics

Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #18

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	3.59 cfs	Intercepted CA	0.94 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.80 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	10.00 min
Total Intercepted Flow	3.59 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.56	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #19

Scenario Summary

Label	100-YEAR
Physical Properties Alternative	Base-Physical Properties
Catchments Alternative	Base-Catchments
System Flows Alternative	Base-System Flows
Structure Headlosses Alternative	Base-Structure Headlosses
Boundary Conditions Alternative	Base-Boundary Conditions
Design Constraints Alternative	Base-Design Constraints
Cost Alternative	Base-Cost
User Data Alternative	Base-User Data

Geometric Summary

X	79,587.04 ft	Calculated Station	15+49 ft
Y	703,834.24 ft		

Elevations

Ground Elevation	69.23 ft	Hydraulic Grade Line In	68.16 ft
Rim Elevation	69.23 ft	Hydraulic Grade Line Out	68.16 ft
Sump Elevation	66.23 ft		

Headlosses

Gravity Element Headloss	0.00 ft	Depth Out	1.93 ft
Headloss Method	Absolute	Velocity Out	3.68 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.21 ft

System Flow Summary

Total System Flow	2.89 cfs	System Rational Flow	2.89 cfs
System Flow Time	11.30 min	System Additional Flow	0.00 cfs
System Intensity	3.57 in/hr	System Known Flow	0.00 cfs
System CA	0.80 acres	Total Diverted Flow In	0.00 cfs

Incoming Diverted Flow

Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		

Inlet Flow Summary

Area	0.87 acres	Composite Rational C	0.60
Inlet CA	0.52 acres	Carryover CA	0.28 acres
Total Inlet CA	0.80 acres	Total Inlet Intensity	3.57 in/hr
Total Inlet Rational Flow	2.89 cfs	Total Inlet Time of Concentration	11.30 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	2.89 cfs		

Inlet Characteristics

Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #19

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	2.89 cfs	Intercepted CA	0.80 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.57 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	11.30 min
Total Intercepted Flow	2.89 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
0.87	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #20

Scenario Summary			
Label	100-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,567.55 ft	Calculated Station	15+69 ft
Y	703,809.15 ft		
Elevations			
Ground Elevation	69.23 ft	Hydraulic Grade Line In	68.77 ft
Rim Elevation	69.23 ft	Hydraulic Grade Line Out	68.77 ft
Sump Elevation	66.23 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	2.54 ft
Headloss Method	Absolute	Velocity Out	6.65 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.69 ft
System Flow Summary			
Total System Flow	5.22 cfs	System Rational Flow	5.22 cfs
System Flow Time	11.03 min	System Additional Flow	0.00 cfs
System Intensity	3.61 in/hr	System Known Flow	0.00 cfs
System CA	1.43 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.78 acres	Composite Rational C	0.60
Inlet CA	1.07 acres	Carryover CA	0.37 acres
Total Inlet CA	1.43 acres	Total Inlet Intensity	3.61 in/hr
Total Inlet Rational Flow	5.22 cfs	Total Inlet Time of Concentration	11.03 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	5.22 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	In Sag
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft		

Detailed Report for Inlet: CB #20

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	5.22 cfs	Intercepted CA	1.43 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.61 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	11.03 min
Total Intercepted Flow	5.22 cfs	Capture Efficiency	100.0 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.78	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #21

Scenario Summary

Label	100-YEAR
Physical Properties Alternative	Base-Physical Properties
Catchments Alternative	Base-Catchments
System Flows Alternative	Base-System Flows
Structure Headlosses Alternative	Base-Structure Headlosses
Boundary Conditions Alternative	Base-Boundary Conditions
Design Constraints Alternative	Base-Design Constraints
Cost Alternative	Base-Cost
User Data Alternative	Base-User Data

Geometric Summary

X	79,821.99 ft	Calculated Station	18+40 ft
Y	703,652.83 ft		

Elevations

Ground Elevation	71.19 ft	Hydraulic Grade Line In	68.80 ft
Rim Elevation	71.19 ft	Hydraulic Grade Line Out	68.80 ft
Sump Elevation	68.19 ft		

Headlosses

Gravity Element Headloss	0.00 ft	Depth Out	0.61 ft
Headloss Method	Absolute	Velocity Out	2.88 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.13 ft

System Flow Summary

Total System Flow	1.44 cfs	System Rational Flow	1.44 cfs
System Flow Time	12.57 min	System Additional Flow	0.00 cfs
System Intensity	3.34 in/hr	System Known Flow	0.00 cfs
System CA	0.43 acres	Total Diverted Flow In	0.00 cfs

Incoming Diverted Flow

Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		

Inlet Flow Summary

Area	1.18 acres	Composite Rational C	0.60
Inlet CA	0.71 acres	Carryover CA	0.00 acres
Total Inlet CA	0.71 acres	Total Inlet Intensity	3.34 in/hr
Total Inlet Rational Flow	2.38 cfs	Total Inlet Time of Concentration	12.57 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	2.38 cfs		

Inlet Characteristics

Inlet Type	Combination Inlet	Inlet Location	On Grade
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft	Bypass Target	CB #19
Longitudinal Slope	0.006500 ft/ft	Mannings n	0.015

Detailed Report for Inlet: CB #21

External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	1.44 cfs	Intercepted CA	0.43 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.34 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	12.57 min
Total Intercepted Flow	1.44 cfs	Capture Efficiency	60.3 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.18	0.60		
User Data			
Date Installed			

Detailed Report for Inlet: CB #22

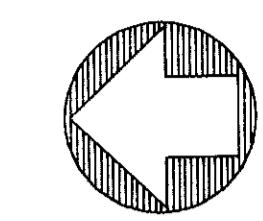
Scenario Summary			
Label	100-YEAR		
Physical Properties Alternative	Base-Physical Properties		
Catchments Alternative	Base-Catchments		
System Flows Alternative	Base-System Flows		
Structure Headlosses Alternative	Base-Structure Headlosses		
Boundary Conditions Alternative	Base-Boundary Conditions		
Design Constraints Alternative	Base-Design Constraints		
Cost Alternative	Base-Cost		
User Data Alternative	Base-User Data		
Geometric Summary			
X	79,789.07 ft	Calculated Station	18+47 ft
Y	703,638.93 ft		
Elevations			
Ground Elevation	71.19 ft	Hydraulic Grade Line In	68.81 ft
Rim Elevation	71.19 ft	Hydraulic Grade Line Out	68.81 ft
Sump Elevation	68.19 ft		
Headlosses			
Gravity Element Headloss	0.00 ft	Depth Out	0.62 ft
Headloss Method	Absolute	Velocity Out	3.21 ft/s
Absolute Headloss	0.00 ft	Velocity Head Out	0.16 ft
System Flow Summary			
Total System Flow	1.64 cfs	System Rational Flow	1.64 cfs
System Flow Time	12.48 min	System Additional Flow	0.00 cfs
System Intensity	3.35 in/hr	System Known Flow	0.00 cfs
System CA	0.49 acres	Total Diverted Flow In	0.00 cfs
Incoming Diverted Flow			
Local Diverted Flow In	0.00 cfs	Global Diverted Flow In	0.00 cfs
Total Diverted Flow In	0.00 cfs		
Inlet Flow Summary			
Area	1.28 acres	Composite Rational C	0.60
Inlet CA	0.77 acres	Carryover CA	0.08 acres
Total Inlet CA	0.85 acres	Total Inlet Intensity	3.35 in/hr
Total Inlet Rational Flow	2.87 cfs	Total Inlet Time of Concentration	12.48 min
Total Inlet Additional Flow	0.00 cfs	Total Inlet Known Flow	0.00 cfs
Total Flow To Inlet	2.87 cfs		
Inlet Characteristics			
Inlet Type	Combination Inlet	Inlet Location	On Grade
Inlet	Combination type 4r	Combination Inlet Curb Opening L	3.00 ft
Combination Inlet Grate Opening L	3.00 ft	Combination Inlet Clogging Factor	0.0 %
Inlet Section Properties	Gutter Section	Road Cross Slope	0.020 ft/ft
Depressed Gutter?	true	Gutter Cross Slope	0.083 ft/ft
Gutter Width	1.50 ft	Bypass Target	CB #20
Longitudinal Slope	0.006500 ft/ft	Mannings n	0.015

Detailed Report for Inlet: CB #22

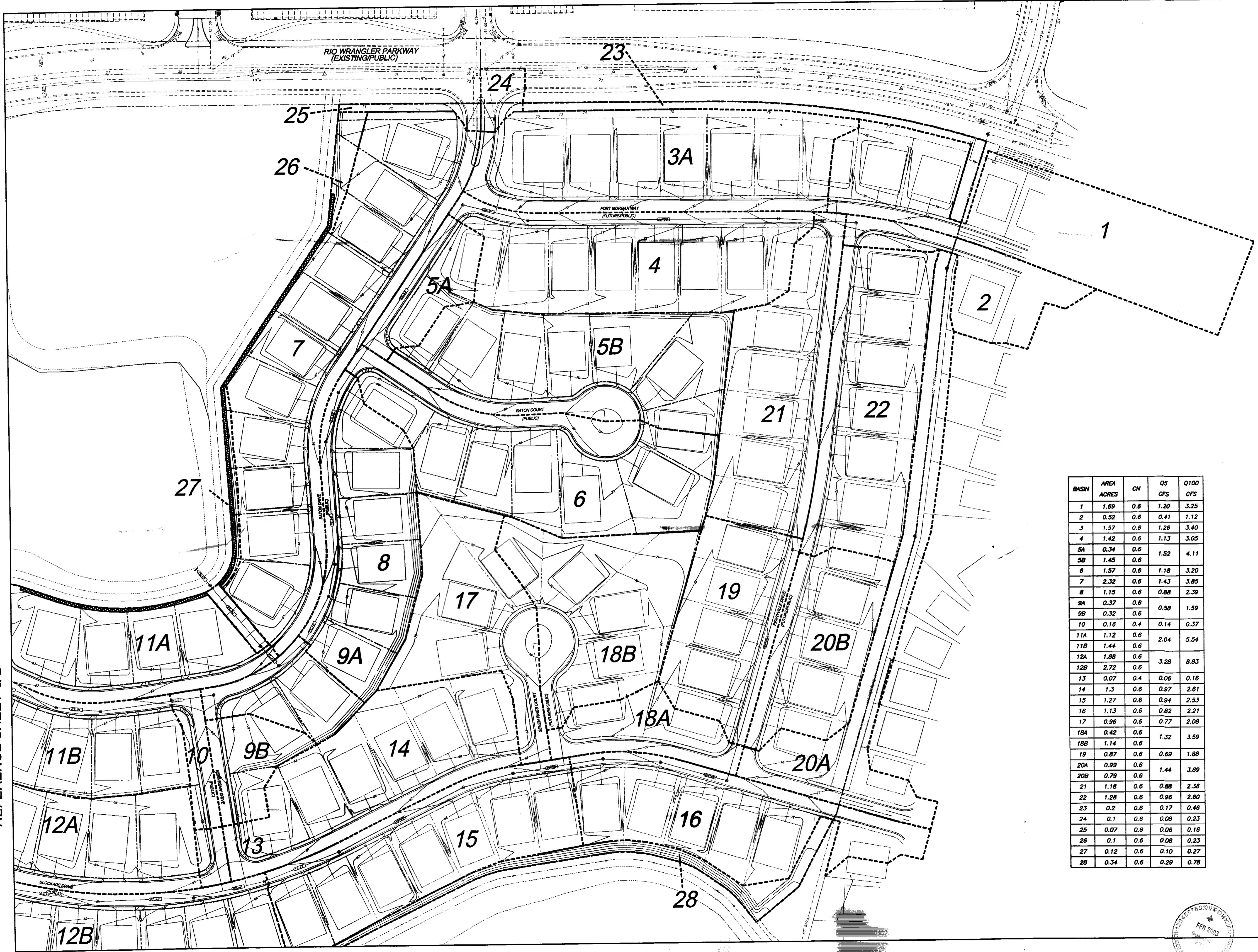
External Pipe Flow			
External CA	0.00 acres	External Time of Concentration	0.00 min
Intercepted Flow Summary			
Intercepted Rational Flow	1.64 cfs	Intercepted CA	0.49 acres
Intercepted Additional Flow	0.00 cfs	Intercepted Intensity	3.35 in/hr
Intercepted Known Flow	0.00 cfs	Intercepted Tc	12.48 min
Total Intercepted Flow	1.64 cfs	Capture Efficiency	57.1 %
Upstream Piped Flow Summary			
Upstream Rational Flow	0.00 cfs	Upstream CA	0.00 acres
Upstream Additional Flow	0.00 cfs	Upstream Intensity	0.00 in/hr
Upstream Known Flow	0.00 cfs	Upstream Time Of Concentration	0.00 min
Total Upstream Flow	0.00 cfs		
Design Constraints Summary			
Pipe Matching	Inverts	Allow Drop Structure?	true
Matchline Offset	0.00 ft	Local Pipe Matching Constraints?	false
Design Structure Elevation?	true	Desired Sump Depth	0.00 ft
Subwatershed Information			
Area (acres)	Inlet C		
1.28	0.60		
User Data			
Date Installed			

**5-YEAR MAXIMUM ALLOWABLE STREET SPREAD
CALCULATIONS**

REFERENCE SHEET Q-2



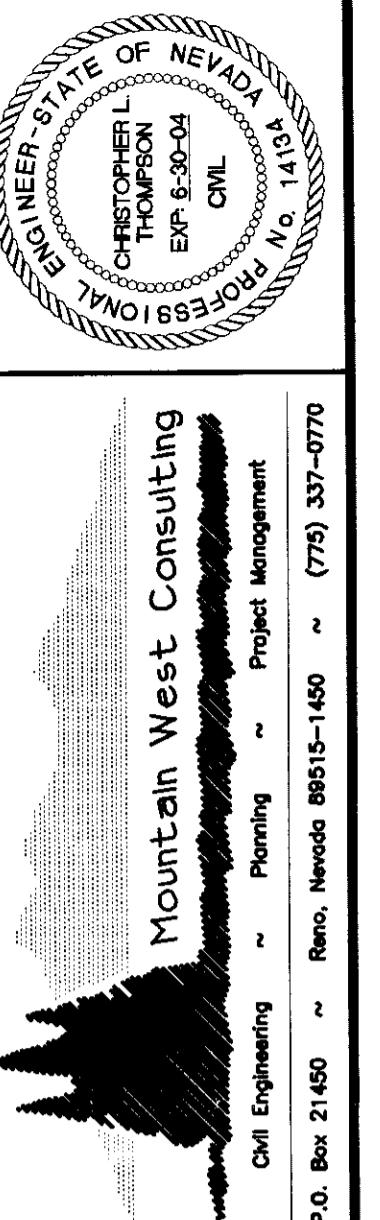
SCALE 1"=60'



BASIN	AREA ACRES	CN	Q5 CFS	Q100 CFS
1	1.69	0.6	1.20	3.25
2	0.52	0.6	0.41	1.12
3	1.57	0.6	1.26	3.40
4	1.42	0.6	1.13	3.05
5A	0.34	0.6		
5B	1.45	0.6	1.52	4.11
6	1.57	0.6	1.18	3.20
7	2.32	0.6	1.43	3.85
8	1.15	0.6	0.88	2.39
9A	0.37	0.6		
9B	0.32	0.6	0.58	1.39
10	0.16	0.4	0.14	0.37
11A	1.12	0.6		
11B	1.44	0.6	2.04	5.54
12A	1.88	0.6	3.28	8.83
12B	2.72	0.6		
13	0.07	0.4	0.06	0.16
14	1.3	0.6	0.97	2.61
15	1.27	0.6	0.94	2.53
16	1.13	0.6	0.82	2.21
17	0.96	0.6	0.77	2.08
18A	0.42	0.6		
18B	1.14	0.6	1.32	3.59
19	0.87	0.6	0.69	1.88
20A	0.89	0.6		
20B	0.79	0.6	1.44	3.89
21	1.18	0.6	0.88	2.38
22	1.28	0.6	0.96	2.60
23	0.2	0.6	0.17	0.46
24	0.1	0.6	0.08	0.23
25	0.07	0.6	0.06	0.16
26	0.1	0.6	0.08	0.23
27	0.12	0.6	0.10	0.27
28	0.34	0.6	0.29	0.78

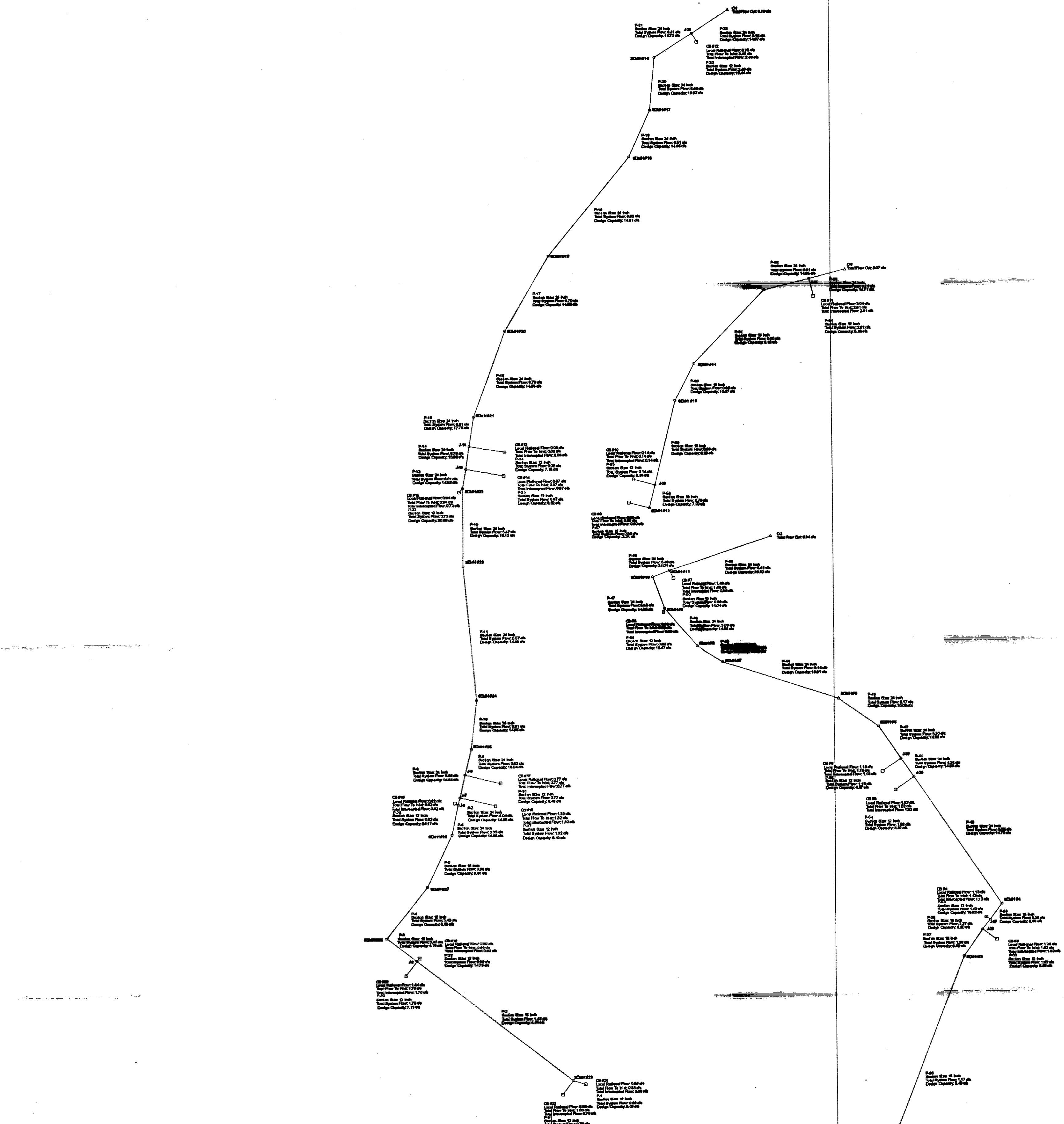
**CIVIL IMPROVEMENT PLANS FOR:
DAMONTE RANCH VILLAGE 14A
DEVELOPED BASINS MAP**

RENO



Date: 2-11-03
Designed by: MJC
Checked by: CLT
DRAWING Q-1
SHEET 26 OF 27

Scenario: 5-YEAR



Profile
Scenario: 5-YEAR

