



STORM SEWER SYSTEM

PID : 103159 **Date :** 02/22/2018 **Project :** MIA-CR 25A-3.54

Location :

Description : Main Trunk Line Sta. 100+37 R1 to 10+50 R2

Designer : BAA

Rainfall Area: B

Just Full Capacity Frequency (yrs.) : 10

Hydraulic Gradient Frequency (yrs.) : 25

Minimum Pipe Size : 12.00

Tailwater Elevation (ft.): 921.02

JUNCTION From	STATION To	From To	ΔAREA	ΔCA	BEGIN TIME (min.)	RAINFALL		DISCHARGE		PIPE			F/L PIPE IN / OUT (ft.)	MEAN VEL (fps.)	JUST FULL CAPACITY (cfs.)	FRICT SLOPE (ft./ft.)	HYGR EL. IN / OUT (ft.)	COVER IN / OUT (ft.)	COVER MINUS HY GR	COVER MINUS CROWN	INLET TYPE MANNING'S 'n'
			Σ AREA (acres)	Σ CA		(10 yrs.)	(25 yrs.)	(10 yrs.)	(25 yrs.)	DIAM. (in.)	LENGTH (ft.)	SLOPE (ft./ft.)									
D2	D3	100+37	0.30	0.17	12.00	5.12	6.21	0.9	1.1	12	63.0	0.0143	937.51	3.86	3.97	0.0012	937.88	940.33	2.45	1.82	CB 3A
	begin	100+37	0.30	0.17									936.61				937.33	940.30			0.015
D3	D5	100+37	0.26	0.23	12.27	5.08	5.96	2.1	2.4	12	300.0	0.0032	935.61	3.15	2.34	0.0040	936.68	940.30	3.62	3.69	CB 3A
		103+37	0.56	0.41									934.66				935.49	939.25			0.012
D4	D5	103+37	0.35	0.21	10.00	5.40	6.56	1.1	1.4	12	62.0	0.0358	936.74	5.77	6.29	0.0020	937.07	939.37	2.30	1.63	CB 3A
	begin	103+37	0.91	0.62									934.52				935.27	939.25			0.015
D5	D7	103+37	0.27	0.24	13.86	4.88	4.51	4.2	3.9	15	300.0	0.0071	934.27	5.22	6.36	0.0031	935.14	939.25	4.11	3.73	CB 3A
		106+37	1.18	0.86									932.13				934.22	937.77			0.012
D6	D7	106+37	0.35	0.27	10.00	5.40	4.51	1.5	1.2	12	75.0	0.0371	935.16	6.28	6.39	0.0016	935.47	937.84	2.37	1.68	CB 3A
	begin	106+37	1.53	1.13									932.38				934.22	937.77			0.015
D7	D9	106+37	0.27	0.24	14.82	4.77	4.51	6.6	6.2	15	300.0	0.0099	932.13	6.45	7.49	0.0079	934.22	937.77	3.55	4.39	CB 3A
		109+37	1.80	1.38									929.16				931.86	934.03			0.012
EX2	D8	109+64	2.11	0.63	24.00	3.90	4.51	2.5	2.9	12	42.0	0.0124	932.04	5.65	4.62	0.0055	933.11	933.33	0.22	0.29	CB Side Di
	begin	109+37	3.91	2.01									931.52				932.88	934.65			0.012
D8	D9	109+37	0.34	0.24	24.12	3.89	4.51	3.4	3.9	12	63.0	0.0335	931.52	7.52	6.08	0.0163	932.88	934.65	1.77	2.13	CB 3A
		109+37	4.25	2.25									929.41				931.86	934.03			0.015



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JUNCTION		STATION	ΔAREA	ΔCA	BEGIN	RAINFALL		DISCHARGE		PIPE			F/L PIPE	MEAN	JUST FULL	FRICT	HYGR EL.	COVER	COVER	COVER	INLET TYPE
From	To	From To	Σ AREA (acres)	Σ CA	TIME (min.)	(10 yrs.)	(25 yrs.)	(10 yrs.)	(25 yrs.)	DIAM. (in.)	LENGTH (ft.)	SLOPE (ft./ft.)	IN / OUT (ft.)	VEL (fps.)	CAPACITY (cfs.)	SLOPE (ft./ft.)	IN / OUT (ft.)	IN / OUT (ft.)	MINUS HY GR	MINUS CROWN	MANNING'S 'n'
D9	D11	109+37 112+37	0.27 4.52	0.24 2.49	24.26	3.88	4.51	9.7	11.3	18	300.0	0.0099	928.91 925.95	7.19	12.16	0.0098	931.86 928.92	934.03 929.84	2.17	3.62	CB 3A 0.012
D10	D11	112+37 begin 112+37	0.33 4.85	0.20 2.69	10.00	5.40	4.51	1.1	0.9	12	63.0	0.0078	926.94 926.45	3.26	2.93	0.0008	928.98 928.92	929.99 929.84	1.01	2.05	CB 3A 0.015
D11	D13	112+37 115+37	0.28 5.13	0.25 2.94	24.96	3.83	4.51	11.3	13.3	18	300.0	0.0087	925.95 923.34	6.77	11.42	0.0136	928.92 924.84	929.84 927.16	0.92	2.39	CB 3A 0.012
D12	D13	115+37 begin 115+37	0.32 5.45	0.25 3.19	10.00	5.40	4.51	1.3	1.1	12	63.0	0.0176	924.95 923.84	4.69	4.41	0.0013	925.31 924.84	927.34 927.16	2.03	1.39	CB 3A 0.015
D23	D13	115+00 begin 115+37	2.19 7.64	0.66 3.85	10.00	5.40	4.51	3.5	3.0	12	40.0	0.0262	924.89 923.84	8.23	6.73	0.0059	925.38 924.84	927.24 927.16	1.86	1.35	HW Half He 0.012
D13	D15	115+37 8+98	0.28 7.92	0.25 4.10	25.70	3.77	4.51	15.5	18.5	24	204.0	0.0047	922.84 921.88	6.07	18.08	0.0057	924.84 923.66	927.16 925.90	2.32	2.32	CB 3A 0.012
D21	D15	8+89 begin 8+98	0.16 8.08	0.14 4.25	10.00	5.40	4.51	0.8	0.6	12	18.0	0.0100	922.51 922.33	3.85	4.15	0.0003	923.66 923.66	926.16 925.90	2.50	2.65	CB 2-2B 0.012
D15	D20	8+98 9+09	0.44 8.52	0.40 4.64	26.26	3.73	4.51	17.3	21.0	24	52.0	0.0087	921.88 921.43	7.99	24.52	0.0073	923.66 923.28	925.90 926.90	2.24	2.02	CB 3 0.012
D14	D20	9+09 begin 9+09	0.21 8.73	0.16 4.81	10.00	5.40	4.51	0.9	0.7	12	14.0	0.0264	922.80 922.43	5.66	6.75	0.0004	923.28 923.28	926.08 926.90	2.80	2.28	CB 3 0.012
D20	OUT	9+09 final 10+49	0.00 8.73	0.00 4.81	26.37	3.72	4.51	17.9	21.7	24	153.0	0.0077	921.43 920.25	7.66	23.15	0.0078	923.28 922.08	926.90 923.00	3.62	3.47	MH 3 0.012