

INLET CALCULATIONS

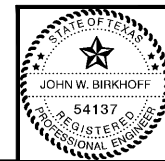
Runoff Calculations														Gutter Capacity Calculations				Curb Inlet Calculations (Type I)										Remarks
Inlet Number	Area No.	Roadway Center Line Station	Paved Area (Ac.) C=0.90	Offsite Area (Ac.) C=0.90	Effective Runoff Coeff. "C"	Incremental "CA"	Accumulated "CA"	Time Upstr. Sta. (Min.)	Design Storm Freq. (Yrs.)	Intensity (I) (In./Hr.)	Flow "Q" (c.f.s.)	Carry Over (c.f.s.)	Total Flow "Qa" (c.f.s.)	Z	Z/N	Gutter Slope "S" (ft./ft.)	Y Depth of Flow in Gut (ft.)	a (ft.)	qL (c.f.s.)	Minimum Length Required Lr (ft.)	Length Supplied La (ft.)	La/Lr	a/Y	Q/Qa	Qc= Qa*(Q/Qa)	Carryover (c.f.s.)		
A1	A1	3+28.29 - 29.62' RT.	1.37	0.00	0.90	1.23	1.23	10.00	100	8.74	10.78	0.00	10.78	48.0	3200	0.0050	0.40	0.42	1.60	6.76	8.00	1.18	1.06	1.18	12.76	0.00	8 ft. Recessed Inlet On Grade	
A2	A2	2+64.5 - 65.1' RT.	1.06	0.00	0.90	0.95	0.95	10.00	100	8.74	8.34	0.00	8.34	48.0	3200	0.0050	0.36	0.42	1.49	5.60	8.00	1.43	1.17	1.43	11.92	0.00	Existing 2'x2' Drop Inlet By Others	
A3	A3	2+90.34 - 35.31' LT.	0.32	0.00	0.90	0.29	0.29	10.00	100	8.74	2.52	0.00	2.52	48.0	3200	0.0050	0.23	0.42	1.13	2.22	8.00	3.60	1.83	3.60	9.06	0.00	8 ft. Recessed Inlet On Grade	
A4	A4	5+33.89 - 30.50' RT.	0.17	0.00	0.90	0.15	0.15	10.00	100	8.74	1.34	0.00	1.34	48.0	3200	0.0050	0.18	0.42	1.01	1.33	8.00	6.03	2.31	6.03	8.06	0.00	8 ft. Recessed Inlet On Grade	
A5	A5	5+52.75 - 47.83' RT.	5.96	0.00	0.90	5.36	5.36	10.00	100	8.74	46.88	0.00	46.88	0.0	0	0.4417	0.00	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00	0.00	16 ft. Standard Inlet Low Pt.	
A5A	A5A	5+67.65 - 61.96' RT	0.64	0.00	0.90	0.58	0.58	10.00	100	8.74	5.03	0.00	5.03	48.0	3200	0.0050	0.30	0.42	1.32	3.83	5.00	1.31	1.41	1.31	6.58	0.00	Exist. 5 ft. Standard Inlet Low Pt.	
A6	A6	7+69.49 - 60.83' RT.	0.64	0.00	0.90	0.58	0.58	10.00	100	8.74	5.03	0.00	5.03	48.0	3200	0.0050	0.30	0.42	1.32	3.83	5.00	1.31	1.41	1.31	6.58	0.00	Exist. 5 ft. Standard Inlet Low Pt.	
A7A	A7A	6+05 - 30.50' LT.	0.26	0.00	0.90	0.23	0.23	10.00	100	8.74	2.05	0.00	2.05	48.0	3200	0.0050	0.21	0.42	1.09	1.88	6.00	3.19	1.97	3.19	6.53	0.00	6 ft. Recessed Inlet On Grade	
A7B	A7B	8+35.94 - 30.50' LT.	0.20	0.00	0.90	0.18	0.18	10.00	100	8.74	1.57	0.00	1.57	48.0	3200	0.0050	0.19	0.42	1.04	1.52	6.00	3.95	2.18	3.95	6.22	0.00	6 ft. Recessed Inlet On Grade	
A8	A8	8+55.61 - 30.50 RT.	0.74	0.00	0.90	0.67	0.67	10.00	100	8.74	5.82	0.00	5.82	48.0	3200	0.0050	0.32	0.42	1.36	4.27	10.00	2.34	1.33	2.34	13.62	0.00	10 ft. Recessed Inlet On Grade	
A9	A9	9+91.07 - 42.65' RT	0.53	0.00	0.90	0.48	0.48	10.00	100	8.74	4.17	0.00	4.17	48.0	3200	0.0050	0.28	0.42	1.26	3.31	5.00	1.51	1.51	1.51	6.30	0.00	Exist. 5 ft. Standard Inlet Low Pt.	
A10	A10	10+10 - 30.50' RT.	0.50	0.00	0.90	0.45	0.45	10.00	100	8.74	3.93	0.00	3.93	48.0	3200	0.0050	0.27	0.42	1.24	3.16	8.00	2.53	1.54	2.53	9.95	0.00	8 ft. Recessed Inlet Low Pt.	
A10	A10	10+10 - 30.50' RT.	0.20	0.00	0.90	0.18	0.18	10.00	100	8.74	1.57	0.00	1.57	48.0	3200	0.0066	0.18	0.42	1.01	1.55	8.00	5.15	2.29	5.15	8.10	0.00	8 ft. Recessed Inlet Low Pt.	
A11	A11	10+10 - 30.50' LT.	0.14	0.00	0.90	0.13	0.13	10.00	100	8.74	1.10	0.00	1.10	48.0	3200	0.0066	0.16	0.42	0.95	1.15	8.00	6.94	2.62	6.94	7.64	0.00	8 ft. Recessed Inlet Low Pt.	
A11	A11	10+10 - 30.50' LT.	0.50	0.00	0.90	0.45	0.45	10.00	100	8.74	3.93	0.00	3.93	48.0	3200	0.0066	0.26	0.42	1.21	3.26	8.00	2.45	1.63	2.45	9.65	0.00	8 ft. Recessed Inlet Low Pt.	
A12	A12	10+16.37 - 41.75' RT	0.33	0.00	0.90	0.30	0.30	10.00	100	8.74	2.60	0.00	2.60	48.0	3200	0.0050	0.23	0.42	1.14	2.28	4.00	1.76	1.80	1.76	4.56	0.00	Exist. 4 ft. Standard Inlet Low Pt.	
A13	A13	12+57.80 - 41.72' RT	0.37	0.00	0.90	0.33	0.33	10.00	100	8.74	2.91	0.00	2.91	48.0	3200	0.0050	0.24	0.42	1.17	2.50	3.00	1.20	1.73	1.20	3.50	0.00	Exist. 3 ft. Standard Inlet Low Pt.	
CE1	CE1	14+08 - 30.50' RT	0.15	0.00	0.90	0.14	0.14	10.00	100	8.74	1.18	0.00	1.18	48.0	3200	0.0066	0.16	0.42	0.97	1.22	6.00	4.91	2.56	4.91	5.79	0.00	6 ft. Recessed Inlet On Grade	
CE2	CE2	12+00 - 30.50' RT	0.15	0.00	0.90	0.14	0.14	10.00	100	8.74	1.18	0.00	1.18	48.0	3200	0.0066	0.16	0.42	0.97	1.22	8.00	6.54	2.56	6.54	7.72	0.00	8 ft. Recessed Inlet Low Pt.	
CE3	CE3	14+01.60 - 30.50' LT	0.16	0.00	0.90	0.14	0.14	10.00	100	8.74	1.26	0.00	1.26	48.0	3200	0.0066	0.17	0.42	0.98	1.29	6.00	4.65	2.49	4.65	5.85	0.00	6 ft. Recessed Inlet On Grade	
CE4	CE4	12+00 - 30.50' LT.	0.44	0.00	0.90	0.40	0.40	10.00	100	8.74	3.46	0.00	3.46	48.0	3200	0.0066	0.25	0.42	1.17	2.95	8.00	2.72	1.71	2.72	9.40	0.00	8 ft. Recessed Inlet Low Pt.	
CE	CE	14+91.47 - 41.31' RT	0.26	0.00	0.90	0.23	0.23	10.00	100	8.74	2.05	0.00	2.05	48.0	3200	0.3333	0.10	0.75	1.68	1.21	12.00	9.88	7.75	9.88	20.21	0.00	3 ft.x 3 ft. Drop Inlet Low Pt.	

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TOWN OF ADDISON, TEXAS

**ADDISON ROAD IMPROVEMENTS
BELT LINE ROAD TO ARAPAHO ROAD PHASE I
INLET DATA**

BIRKHOFF, HENDRICKS & CONWAY L. L. P.
CONSULTING ENGINEERS
Dallas, Texas



THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

DATE: _____

DESIGNED BY: J.W.B. PROJECT: 2002 102 SHEET NO. 35
DRAWN BY: R.J.L. DATE: SEPTEMBER 2006 OF 68 SHEETS

REVISION: 5/12/10 - RLOWE
 PLOTTED BY: RLOWE ON 5/14/2010
 PLOT STYLE: 11x17.dwt
 PLOT SCALE: 1:1.0101
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