DRAINAGE AREA DATA

AREA NO.	AREA (ac.)	C_{100}	TC (min.)	I_{100} (in/hr)	Q_{100} (cfs)
A	1.37	0.90	10	8.74	10.8
B	0.40	0.90	10	8.74	3.1
C	0.29	0.90	10	8.74	2.3
D	1.63	0.90	10	8.74	12.8
E	0.52	0.90	10	8.74	4.1
F	0.62	0.90	10	8.74	4.9
G	0.33	0.90	10	8.74	2.6
H	0.71	0.90	10	8.74	5.6
I	0.25	0.90	10	8.74	2.0
J	0.43	0.90	10	8.74	3.4
K	0.83	0.90	10	8.74	6.5
L	0.45	0.90	10	8.74	3.5
M	0.44	0.90	10	8.74	3.5
N	0.18	0.90	10	8.74	1.4
O	0.80	0.90	10	8.74	6.3
P	0.26	0.50	10	8.74	1.1
Q	0.55	0.50	10	8.74	2.4
R	0.48	0.50	10	8.74	2.1
S	0.31	0.50	10	8.74	3.4
T	0.39	0.90	10	8.74	3.1
U	0.38	0.90	10	8.74	3.0
V	0.21	0.90	10	8.74	1.7
W	0.11	0.90	10	8.74	0.9
X	0.18	0.90	10	8.74	1.4
Y	0.06	0.90	10	8.74	0.5
Z	0.14	0.90	10	8.74	1.1
AA	1.04	0.50	10	8.74	4.5
BB	1.43	0.90	10	8.74	11.3
CC	0.62	0.90	10	8.74	4.9
DD	0.50	0.90	10	8.74	3.9
OS1	0.52	0.90	10	8.74	4.1

INLET DESIGN CHART

INLET No.	Location	Design Storm Freq. (yrs.)	AREA RUNOFF Q = CIA: Time of Conc. (min.)	Intensity I (in./hr.)	Runoff Coeff. ("C")	Area (Ac.)	"Q" (c.f.s.)	Carry-Over From Upstrm Inlet (c.f.s.)	Total Gutter Flow (c.f.s.)	Gutter Capacity (c.f.s.)	Gutter Slope (ft./100 ft.)	Crown Type	Selected Inlet Length "Li" (Feet)	Type	Carry-Over To Dwnstrm Inlet (c.f.s.)	Inlet Capacity (c.f.s.)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
A1	5+63 Town Center Parkway	100	10	8.74	0.90	0.06	0.50	1.0	1.5	35.8	0.0130	2%	10	Std.	0	5.8
A2	1+37 Alley "A"	100	10	8.74	0.90	0.40	3.1	–	3.1	35.8	0.0220	8" Inv.	3-Grate	Std.	1.0	2.1
A3	Existing Road	100	10	8.74	0.90	0.50	3.9	–	3.9	35.8	0.0130	8" Inv.	8	Std.	–	4.9
B1	1+58 Everwood Drive	100	10	8.74	0.90	0.26	2.0	–	2.0	20.5	0.0220	3%	8	Std.	0	4.1
B2	1+58 Everwood Drive	100	10	8.74	0.90	0.26	2.1	–	2.1	20.5	0.0220	3%	8	Std.	0	4.1
C1	5+00 Asbury Lane	100	10	8.74	0.90	0.83	6.5	–	6.5	–	"sag"	3%	10	Std.	–	21.0
C2	5+00 Asbury Lane	100	10	8.74	0.90	0.82	6.5	–	6.5	–	"sag"	3%	10	Std.	–	21.0
D1	5+80 Amberwood Drive	100	10	8.74	0.90 & 0.50	0.25 & 1.35	7.9	2.8	10.7	–	"sag"	8" Inv.	6-Grate	Std.	–	12.5
D2	5+52 Amberwood Drive	100	10	8.74	0.90 & 0.50	0.45 & 0.48	5.6	–	5.6	25.4	0.0220	8" Inv.	3-Grate	Std.	1.6	4.0
D3	6+14 Amberwood Drive	100	10	8.74	0.90	0.65	5.2	–	5.2	25.4	0.0220	8" Inv.	3-Grate	Std.	1.2	3.9
E1	2+13.97 LINE "E" 84.12' RT.	100	10	8.74	0.90 & 0.50	0.81 & 0.98	11.2	–	–	–	"sag"	–	10	Std.	–	21.0
E2	3+76.97 LINE "E" 84.11 RT.	100	10	8.74	0.90	0.18	1.4	–	11.0	–	"sag"	–	10	Std.	–	21.0
E3	1+43 Amberwood Drive	100	10	8.74	0.90	0.81	6.4	–	6.4	–	0.0220	3%	12	Std.	0	7.25
E4	1+43 Amberwood Drive	100	10	8.74	0.90	0.82	6.4	–	6.4	–	0.0220	3%	12	Std.	0	7.25
F1	3+76 Asbury Lane	100	10	8.74	0.90	0.32	2.5	–	2.5	–	0.0310	3%	10	Std.	0	5.2
F2	3+72 Asbury Lane	100	10	8.74	0.90	0.31	2.5	–	2.5	–	0.0310	3%	10	Std.	0	5.2
G1	1+65 Sugar Tree Way	100	10	8.74	0.90	0.71	5.6	–	5.6	–	"sag"	3%	10	Std.	0	15.0
OS1	EXISTING PARKING LOT	100	10	8.74	0.90	0.52	4.1	–	4.1	–	"sag"	–	10	Std.	0	21.0
OS2	EXISTING PARKING LOT	100	10	8.74	0.90	0.69	4.9	–	4.9	–	0.0130	–	6	Std.	0	5.8
OS3	EXISTING PARKING LOT	100	10	8.74	0.90	0.94	7.4	–	7.4	–	"sag"	–	10	Std.	0	21.0
OS4	EXISTING PARKING LOT	100	10	8.74	0.90	1.37	10.8	–	10.8	–	"sag"	–	8	Std.	0	11.1

BENCHMARKS:

CITY OF ADDISON BENCHMARK NO. 13:
SQUARE CUT ON THE BACK OF CURB AT THE CENTER OF AN INLET AT THE SOUTHEAST CORNER OF BELTLINE ROAD AND SURVEYOR BOULEVARD.
ELEVATION = 594.94'

CITY OF ADDISON BENCKMARK NO. 18:
SQUARE CUT ON COSERV ELECTRIC VAULT AT THE NORTHEAST CORNER OF BELTLINE ROAD AND MIDWAY ROAD.
ELEVATION = 627.93'

THESE CONSTRUCTION PLANS WERE PREPARED UNDER THE RESPONSIBLE SUPERVISION OF J. CASEY ROSS, LICENSED PROFESSIONAL ENGINEER NO. 97272.

J. Casey Ross 9/25/07

STATE OF TEXAS · J. CASEY ROSS · 97272 · LICENSED · PROFESSIONAL ENGINEER

NO.	DATE	BY	REVISION

DRAINAGE AREA MAP
ASBURY CIRCLE

TOWN OF ADDISON

DALLAS COUNTY, TEXAS

DOWDEY, ANDERSON & ASSOCIATES, INC.
5225 Village Creek Drive, Suite 200 Plano, Texas 75093 972-931-0694

DESIGN	DRAWN	CHECKED	DATE	SCALE	JOB	SHEET
AR	AR	JCR	10/16/06	1" = 50'	06010	2 / 2

PLATE NO.: 17A