



DRAINAGE TABLE

DRAINAGE AREA NO.	ACRES	T.C.	C	I 100 YR.	Q 100 YR.	SUM Q 100 YR.
1	1.66	10	0.5	9.8	8.13	8.13
2	1.76	"	"	"	8.62	16.75
3	2.67	"	"	"	13.08	29.83
4	0.94	"	"	"	4.61	4.61
5	1.61	"	"	"	7.89	
7	1.73	"	"	"	8.48	
11	2.45	"	"	"	12.01	12.01
12	1.70	"	"	"	8.33	20.34
13	1.30	"	"	"	6.37	26.71
14	1.50	"	"	"	7.35	34.06
15	2.06	"	"	"	10.09	44.15
16	2.95	"	"	"	14.46	58.61
X	1.28	"	"	"	6.27	

STORM SEWER CALCULATIONS

PROJECT NAME: HIGHLAND MEADOWS NO. 2 BY: Harold L. Evans
 LINE NAME: A, B, AND C Date: 10/26/99

RUN OFF COLLECTION POINT (INLET OR MANHOLE)		DISTANCE BETWEEN COLLECTION POINTS FT.	INCREMENTAL DRAINAGE AREA				ACCUMULATED "CA"	TIME AT UPSTREAM STATION (min.)	DOWN SLOPE FREQUENCY (years)	INTENSITY "I" (in./hr.)	STORM WATER RUNOFF "Q" (c.f.s.)	SLOPE OF GRADIENT (ft./ft.)	SELECTED STORM SEWER SIZE (in.)	VELOCITY OF FLOW "V" (f.p.s.)	HEAD LOSS COEFFICIENT Kj	VELOCITY HEAD LOSS AT DOWN STATION $V^2/2g$ (feet)	FLOW TIME IN SEWER DISTANCE / V (min.)	TIME AT DOWN STATION (min.)	REMARKS
UPSTREAM STATION	DWNTREAM STATION		AREA NO.	DRAINAGE AREA "A" (ACRES)	RUNOFF COEF. "C"	INCREMENTAL "C"													
LINE "A"																			
17+21.8	16+89.8	32	3	2.67	0.50	1.34	1.34	10.0	100	9.8	13.08	0.0152	18"	7.40	1.25	1.06	0.07	10.07	
16+89.8	15+59.9	129.9	1 & 2	3.42	-	1.71	3.05	10.07	-	9.78	29.83	0.00928	27"	7.50	0.60	0.52	0.29	10.38	
15+59.9	14+42	117.9	-	-	-	-	-	10.36	-	-	29.83	0.00924	27"	7.50	1.25	1.09	0.26	10.62	
LINE "B"																			
4+08.9	0+00	408.9	1 & 2	3.42	0.50	1.71	1.71	10.0	100	9.8	16.75	0.01118	21"	6.96	1.25	0.94	0.98	10.98	
LINE "C"																			
11+52.7	10+26	126.7	11	2.45	0.50	1.225	1.225	10.0	100	9.8	12.11	0.04305	18"	6.58	1.25	0.84	0.32	10.32	
10+26	9+88	38	12 & 13	3.0	-	1.50	2.725	10.32	-	9.8	26.71	0.4395	21"	10.43	0.25	0.42	0.06	10.38	

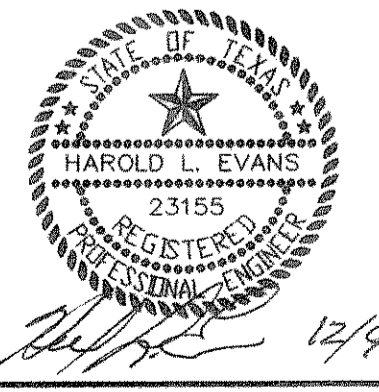
BY: HAROLD L. EVANS
 DATE: 10/26/99
 CR'D.:
 DATE:

CITY OF ROCKWALL, TEXAS
 COMPUTATION SHEET FOR DETERMINING
 CAPACITY OF CURB OPENING INLET

SHEET: 1 OF 1
 STREET: PRIMROSE, SUNFLOWER, MIMS
 MAJOR WATERSHED:
 JOB OR FILE NO.: 9957

INLET TYPE & NO.	STATION	D.A. NO.	Qp C.F.S.	CARRY OVER FLOW g C.F.S.	TOTAL FLOW Q C.F.S.	Z	Z/N	So FT./FT.	Yo FT.	PONDED WIDTH	Q Lo C.F.S.	Lo = Q/Lo FT.	L	L/Lo	Q Qo %	Q = Qo %	CARRY OVER FLOW g C.F.S.	REMARKS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
A-1	17+21.81	3	13.08	-	13.08	28	1750	0.0107	0.46	12.88	1.24	19.33	15	1.42	100	13.08	-	
B-L	4+08.4	1	8.13	-	8.13	-	-	0.0065	0.32	8.96	1.12	11.20	10	1.12	-	8.13	-	
B-R	4+08.4	2	8.62	-	8.62	-	-	0.0065	0.33	9.24	1.13	11.32	10	1.13	-	8.62	-	
C-1	16+50	5	12.01	-	12.01	-	-	0.010	0.43	12.04	1.25	18.76	15	1.25	-	12.01	-	
C-2-L	15+20	6	6.37	-	6.37	-	-	0.0313	0.22	2.56	1.06	10.62	10	1.06	-	6.37	-	
C-2-R	15+20	7	8.33	-	8.33	-	-	0.0313	0.28	7.84	1.07	10.74	10	1.07	-	8.33	-	
MIMS	12+85	9	8.97	-	8.97	44	2740	0.0250	0.29	12.76	1.08	10.86	10	1.08	-	8.97	-	

AS BUILT



	HAROLD L. EVANS 10/26/99 CONSULTING ENGINEER P.O. BOX 28365 2331 CUS THOMASSON ROAD, SUITE 102 DALLAS, TEXAS 75228, (214) 328-8133	DRAINAGE AREA MAP HIGHLAND MEADOWS NO. 2 CITY OF ROCKWALL	SHEET NO. 10 16 JOB NO. 9957
REV. PER CITY REVIEW	DATE SCALE DESIGN DRAWN		
REVISION DESCRIPTION	1" = 100' 1" = 6'		