

DRAINAGE TABLE						
DRAINAGE AREA NO.	ACRES	T.C.	C	I 100 YR.	Q 100 YR.	SUM Q 100 YR.
LINE B		10 MIN.	0.9	9.8		
1A	0.31	"	"	"	2.73	2.73
1B	0.19	"	"	"	1.68	4.41
2	1.39	"	"	"	12.26	16.67
2A	0.45	"	"	"	3.97	20.64
3	0.47	"	"	"	4.15	24.79
4	1.88	"	"	"	16.58	41.37
5	0.19	"	"	"	1.68	43.05
6	0.51	"	"	"	4.50	47.55
7	1.36	"	"	"	12.00	59.55
8	0.65	"	"	"	5.73	65.28
9	0.28	"	"	"	2.47	67.75
10	1.92	"	"	"	16.93	84.68
11	1.09	"	"	"	9.61	94.29
12	0.69	"	"	"	6.09	100.98
13	2.77	"	"	"	24.43	124.81
14	(1.806)	"	"	"	(14.17)	(138.98)
LINE C						
15	1.15	"	"	"	10.14	10.14
16	0.19	"	"	"	1.68	11.82
17	0.31	"	"	"	2.73	14.55
18	1.75	"	"	"	15.44	29.99
19	2.66	"	"	"	23.46	53.45
20	(0.57)	"	"	"	(5.01)	(58.46)
21	1.83	"	"	"	16.14	(74.60)

CITY OF ROCKWALL, TEXAS INLET DESIGN CALCULATIONS						PROJECT NAME: THE HARBOR - ROCKWALL LINE B						BY: HAROLD L. EVANS DATE: 2/17/04					
INLET			AREA Q = CIA								SELECTED INLET						
NO.	LOCATION	DESIGN STORM FREQUENCY (years)	TIME OF CONC. (min)	INTENSITY I (in/hr)	RUNOFF COEFF. (C)	AREA (ac.)	"Q" (c.f.s.)	CARRY-OVER FROM UPSTREAM INLET (c.f.s.)	TOTAL GUTTER FLOW (c.f.s.)	GUTTER CAPACITY	GUTTER SLOPE	CROWN TYPE	LENGTH "L" (Feet)	TYPE	CARRY-OVER TO DOWNSTREAM INLET (c.f.s.)		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
B-1	19+72	100	10	9.8	0.90	0.31	2.73	7.26	9.99	42	0.005	TRIANGULAR	10'	CURB			
B-2	19+61	"	"	"	"	1.39	12.26		12.26	42	4.8	TRIANGULAR	15'	CURB	7.26		
B-3	19+48	"	"	"	"	0.19	1.68						DRAIN				
B-4	17+59	"	"	"	"	0.45	3.97						DRAIN				
B-5	16+49	"	"	"	"	0.47	4.15						DRAIN				
B-6	14+29	"	"	"	"	1.88	16.58		16.58	20	SAG		20' INLET	CURB			
B-7	14+18	"	"	"	"	0.19	1.68						DRAIN				
B-8	13+13	"	"	"	"	0.51	4.50						DRAIN				
B-9	12+47	"	"	"	"	1.36	12.00						DRAIN				
B-10	11+83	"	"	"	"	0.65	5.73						DRAIN				
B-11	10+83	"	"	"	"	0.28	2.47						DRAIN				
B-12	10+62	"	"	"	"	1.92	16.93	4.43	21.36	42	SAG	TRIANGULAR	20'	CURB			
B-13	10+50	"	"	"	"	1.09	9.61		9.61	30	SAG	"	10'	CURB			
B-14	8+64	"	"	"	"	0.69	6.09						DRAIN				
B-15	8+64	"	"	"	"	2.77	24.43		24.43	42	0.005	TRIANGULAR	20'	CURB	4.43		
B-16	8+50	"	"	"	"	1.47	12.97						DRAIN				
17-23	8+50	"	"	"	"	1.47	12.97						DRAIN				

CITY OF ROCKWALL, TEXAS INLET DESIGN				PROJECT NAME: THE HARBOR - ROCKWALL LINE C							BY: HAROLD L. EVANS DATE: 2/17/04				
INLET		AREA Q = CIA						SELECTED INLET							
NO.	LOCATION	FREQUENCY (years)	DESIGN STORM TIME OF CONC. (min)	INTENSITY I (in/hr)	RUNOFF COEFF. (C)	AREA (ac)	"q" (c.f.s.)	CARRY-OVER FROM UPONSTREAM INLET (c.f.s.)	TOTAL GUTTER FLOW (c.f.s.)	GUTTER CAPACITY	GUTTER SLOPE	CROWN TYPE	LENGTH "L" (Feet)	TYPE	CARRY-OVER TO DOWNSTREAM INLET (c.f.s.)
1	2	3	4	5	6	7	8	9	10	11		13	14	15	16
C-1	8+96.76	100	10	9.8	0.90	1.15	10.14	0	10.14	40	3.089	TRIANGULAR	20	CURB	_____
C-2	AREA DRAIN	"	"	"	"	0.19	1.68	0	_____	_____	_____	_____	2X2	GRATE	_____
C-3	AREA DRAIN	"	"	"	"	0.31	2.73	0	_____	_____	_____	_____	2X2	GRATE	_____
C-4	7+22	"	"	"	"	1.75	15.44	0	15.44	42	4.4	TRIANGULAR	15	CURB	2.94
C-5	LINE "D"	"	"	"	"	2.66	23.46	0	_____	_____	_____	_____	_____	_____	_____
C-6	8+50	"	"	"	"	0.36	3.18	0	_____	_____	_____	_____	_____	_____	_____
C-7	4+55	"	"	"	"	1.83	16.14	2.94	21.51	20' RA/SAG	4.4	_____	20	CURB	_____



Received from Engineer
8/15/08
RECORD DRAWINGS

REV.		2/28/08		SOLID STRUCTURAL SOLUTIONS, INC.		DRAINAGE AREA MAP		SHEET NO. 16	
REV.		3/30/04		P.O. BOX 661880 MESQUITE, TX 75066-1880 PHONE: 214.417.6520 FAX: 972.286.5714		THE HARBOR - ROCKWALL		JOB NO. 26	
REVISION DESCRIPTION		DATE		SCALE		DESIGN		DRAWN	
01362DN		12/15/03		1"=60'		H.L.E.		CITY OF ROCKWALL	
								JOB NO. 0136	