EXISTING DRAINAGE AREA 2 (SEE SHEET C-07B) CALCULATED AT ULTIMATE CONDITIONS

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	"	"	"	1.66	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	100.38
13	2.77	"	"	"	24.43	124.81
14	1.606	"	"	"	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	14.56
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 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	12	13	14	15	16
B-1	19+72	100	10	9.8	0.90	0.31	2.73	7.26	9.99	42	0.006	TRIANGULAR	10'	CURB	———
B-2	19+81	"	"	"	"	1.39	12.26	———	12.26	42	4.8	TRIANGULAR	15'	CURB	7.26
B-3	19+48	"	"	"	"	0.19	1.66	———	———	———	———	———	DRAIN	———	———
B-4	17+59	"	"	"	"	0.45	3.97	———	———	———	———	———	DRAIN	———	———
B-5	16+69	"	"	"	"	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	1.66	———	———	———	———	———	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+93	"	"	"	"	0.28	2.47	———	———	———	———	———	DRAIN	———	———
B-12	10+82	"	"	"	"	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	9+54	"	"	"	"	0.69	6.09	———	———	———	———	———	DRAIN	———	———
B-15	9+64	"	"	"	"	2.77	24.43	———	24.43	42	0.006	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	DESIGN STORM (years)	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	"	"	"	"	1.88	16.14	2.94	21.51	20' RA/SAG	4.4	———	20	CURB	———

ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.

JOSE DE JESUS MARTINEZ 93861 LICENSED PROFESSIONAL ENGINEER

Received from Engineer 3/15/08

RECORD DRAWINGS

AS-BUILT DRAINAGE CALCULATIONS

C-07C

REV.	DATE	REVISION DESCRIPTION
REV.	2/28/08	
REV.	3/30/08	

SOLID STRUCTURAL SOLUTIONS, INC.
P.O. BOX 551030
MESQUITE, TX 75185-1030
PHONE: 214.417.8330
FAX: 972.285.0714

DRAINAGE AREA MAP
THE HARBOR – ROCKWALL
CITY OF ROCKWALL

DATE	SCALE	DESIGN	DRAWN
12/15/05	1"=60'	H.L.E.	

SHEET NO. 16 / 26

JOB NO. 0136

0136DRN

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