



OFF SITE DRAINAGE CALCULATIONS																	
DRAINAGE AREA NO.	ACRES	STATIONS		SUB AREA			ZCA	DESIGN			WATER SURFACE			REMARKS			
		From	To	Tc	I ₁₀₀	Q ₁₀₀		Tc	I ₁₀₀	Q ₁₀₀	Length FT	ELAPSE TIME	SLOPE %		Velocity FT/Sec		
01	3.45	A	B	0.50	1.70	10	9.80	16.70	1.70	10	9.80	16.70	1100	2.30	Var.	8.0	
02	1.01	A	C	"	0.50	"	"	4.90	2.20	10	9.80	21.60	1150	2.40	"	"	
03	0.43	D	C	"	0.20	"	"	2.20	2.40	10	9.80	23.50	450	0.90	"	"	
04	2.21	E	F	"	1.10	"	"	10.80	3.50	10	9.80	34.30	550	1.10	"	"	
		F	G	"	"	"	"	"	3.50	12.40	9.60	33.60	110	0.20	5.0	10.70	24' R.C.P.
05	3.79	G	H	0.50	1.90	10	9.80	18.60	5.40	12.60	9.50	51.30	300	0.40	10.0	12.0	
		H	I	"	"	"	"	"	5.40	13.0	9.40	50.80	420	0.70	6.0	10.0	
										5.40	13.70	9.30					
06	2.14	J	K	0.50	1.10	10	9.80	10.80	1.10	10	9.80	10.80	530	0.70	10.0	12.0	
07	2.29	K	I	"	1.10	"	"	10.80	2.20	10	9.80	21.60	500	0.70	10.0	12.0	
									2.20	10.70	9.70						II
08	2.38	D	I	0.50	1.20	10	9.80	11.70	1.20	10	9.80	11.70	680	0.90	10.0	12.0	
09	4.50	L	I	0.50	2.30	10	9.80	22.0	2.30	10	9.80	22.00	165	0.20	4.45	12.50	5' Ø
																	IV
10	3.78	M	N	0.50	1.90	10	9.80	18.50	1.90	10	9.80	18.50	225	0.50	6.22	7.75	
																	Y
11	1.48	N	I	0.50	0.70	10	9.80	7.30	0.70	10	9.80	7.30	370	0.50	10.0	12	
																	VI
SUMMARY										11.40	13.70	9.30	106.0				VII + VIII + IX + X

ON SITE DRAINAGE CALCULATIONS									
NO.	ACRES	Tc	C	I ₂₅	Q ₂₅	Q ₂₅ ACC.	I ₁₀₀	Q ₁₀₀	Q ₁₀₀ ACC.
1	3.21	10	0.50	7.80	12.50	—	9.80	15.90	—
2	2.28	"	"	"	8.90	21.40	"	11.20	26.90
3	1.00	"	"	"	4.10	25.50	"	5.20	32.10
3A	0.37	"	"	"	1.40	26.90	"	1.80	33.90
4	0.42	"	"	"	1.00	28.50	"	2.00	35.90
OFFSITE	22.80	13.70	0.50	7.20	82.10	—	9.30	106.0	—
5	3.04	10	"	7.80	14.20	96.30	9.80	17.80	123.80
6	0.58	"	"	"	2.30	98.60	"	2.80	126.60
7	0.07	10	0.50	7.80	0.30	—	9.80	0.30	—
8	0.35	"	"	"	1.40	1.70	"	1.70	2.00

L.M.
Top Nut of F.H. at Intersection of
Yacht Club Drive & Harbor Landing Drive
Elev. 514.57

AS BUILT

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HAROLD L EVANS CONSULTING ENGINEER 2331 GUS THOMASSON RD. SUITE 102 DALLAS, TEXAS 75228 PHONE (214) 328-8133			DRAINAGE AREA MAP HARBOR LANDING PHASE ONE CITY OF ROCKWALL ROCKWALL COUNTY, TEXAS		
SCALE	DATE	JOB NO.			
1"=100'	JUNE 80	84180			