



PROPOSED DRAINAGE CALCULATIONS

DRAINAGE AREA No.	AREA (acres)	C	Tc (minutes)	STORM FREQUENCY	I ₁₀₀ (in/hr)	Q ₁₀₀ (cfs)	COMMENTS
DA 1	1.05	0.90	10	100 YEAR	9.8	9.26	FUTURE BOX CULVERT
DA 2	0.99	0.90	10	100 YEAR	9.8	8.73	FUTURE BOX CULVERT
DA 3	0.96	0.90	10	100 YEAR	9.8	8.47	FUTURE BOX CULVERT
DA 4	0.93	0.90	10	100 YEAR	9.8	8.20	FUTURE BOX CULVERT
DA 5	1.09	0.90	10	100 YEAR	9.8	9.61	HORIZON ROAD
DA 6	0.75	0.90	10	100 YEAR	9.8	6.62	HORIZON ROAD
DA 7	0.67	0.90	10	100 YEAR	9.8	5.91	HORIZON ROAD
DA 8	0.61	0.90	10	100 YEAR	9.8	5.38	HORIZON ROAD
DA 9	1.60	0.90	10	100 YEAR	9.8	14.11	FUTURE TUBBS ROAD
DA 10	0.78	0.90	10	100 YEAR	9.8	6.88	FUTURE TUBBS ROAD
DA 11	0.12	0.90	10	100 YEAR	9.8	0.94	FUTURE TUBBS ROAD
DA 12	0.84	0.90	10	100 YEAR	9.8	7.41	FUTURE TUBBS ROAD
DA 13	0.76	0.90	10	100 YEAR	9.8	6.70	FUTURE TUBBS ROAD
DA 14	0.78	0.90	10	100 YEAR	9.8	6.88	FUTURE TUBBS ROAD
DA 15	0.51	0.90	10	100 YEAR	9.8	4.50	PROPOSED TEMP. "Y" INLET
DA 16	3.67	0.90	10	100 YEAR	9.8	32.37	PROPOSED TEMP. "Y" INLET
DA 17	0.55	0.90	10	100 YEAR	9.8	4.85	PROPOSED 10' CURB INLET
DA 18	1.38	0.90	10	100 YEAR	9.8	12.17	PROPOSED 10' CURB INLET
DA 19	1.27	0.90	10	100 YEAR	9.8	11.20	PROPOSED 10' CURB INLET
DA 20	1.09	0.90	10	100 YEAR	9.8	9.61	PROPOSED TEMP. "Y" INLET
DA 21	0.29	0.90	10	100 YEAR	9.8	2.56	PROPOSED "Y" INLET
DA 22	0.44	0.90	10	100 YEAR	9.8	3.88	PROPOSED "Y" INLET
DA 23	0.29	0.90	10	100 YEAR	9.8	2.56	PROPOSED "Y" INLET
DA 24	0.16	0.90	10	100 YEAR	9.8	1.41	PROPOSED No.24 GRATE INLET
DA 25	0.33	0.90	10	100 YEAR	9.8	2.91	PROPOSED 10' CURB INLET
DA 26	0.74	0.90	10	100 YEAR	9.8	6.52	PROPOSED ROOF DRAINS
DA 27	0.66	0.90	10	100 YEAR	9.8	5.82	PROPOSED ROOF DRAINS
DA 28	0.25	0.90	10	100 YEAR	9.8	2.21	PROPOSED ROOF DRAINS
DA 29	0.55	0.90	10	100 YEAR	9.8	4.85	PROPOSED ROOF DRAINS
DA 30	0.49	0.90	10	100 YEAR	9.8	4.32	PROPOSED TEMP. "Y" INLET
DA 31	1.47	0.90	10	100 YEAR	9.8	12.97	FUTURE SUMMER LEE DRIVE
DA 32	1.60	0.90	10	100 YEAR	9.8	14.11	PROPOSED 15' CURB INLET
DA 33	1.02	0.90	10	100 YEAR	9.8	9.00	PROPOSED 10' CURB INLET
DA 34	0.97	0.90	10	100 YEAR	9.8	8.55	PROPOSED 10' CURB INLET
DA 35	1.58	0.90	10	100 YEAR	9.8	13.94	PROPOSED TEMP. "Y" INLET
DA 36	1.25	0.90	10	100 YEAR	9.8	11.03	PROP HEADWALL (BY OTHERS)
DA 37	2.17	0.90	10	100 YEAR	9.8	19.14	PROPOSED TEMP. "Y" INLET
DA 38	1.38	0.90	10	100 YEAR	9.8	12.17	PROPOSED TEMP. "Y" INLET
DA 39	0.17	0.90	10	100 YEAR	9.8	1.49	PROPOSED GRATE INLETS
DA 40	0.13	0.90	10	100 YEAR	9.8	1.19	PROPOSED GRATE INLETS
DA 41	0.07	0.90	10	100 YEAR	9.8	0.61	PROPOSED ROOF DRAINS
DA 42	0.11	0.90	10	100 YEAR	9.8	0.98	PROPOSED ROOF DRAINS

RECORD DRAWING

THIS DRAWING HAS BEEN REVISED TO REFLECT CONSTRUCTION RECORDS MAINTAINED AND PROVIDED BY THE CONTRACTOR FOR THIS PROJECT. A VISUAL REVIEW OF THE COMPLETED SITE CONSTRUCTION BY PACHECO KOCH, AND FIELD SURVEY VERIFICATION AT MANHOLES AND INLETS BY PACHECO KOCH.

CONTRACTOR: ROGERS-O'BRIEN CONSTRUCTION CO.
DATE REVISED: 11/14/2007



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NO.	DATE	REVISION				
<p>Pacheco Koch Consulting Engineers 8350 N. CENTRAL EXPWY., SUITE 1000 DALLAS, TX. 75206 972.235.3031</p>						
<p>DRAINAGE AREA MAP ROCKWALL COMMUNITY HOSPITAL HORIZON ROAD @ ROCKWALL PARKWAY EDWARD TEAL SURVEY, ABST. NO. 207 CITY OF ROCKWALL, TEXAS</p>						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
EMH	RRL	JULY 2006	1"=60'			C3.2

REVISIONS
 03/25/2008 - 8:59AM
 M. DING - 151567 - 05.270.DWG\1567-05-270C.DWG

ROCKWALL COMMUNITY HOSPITAL