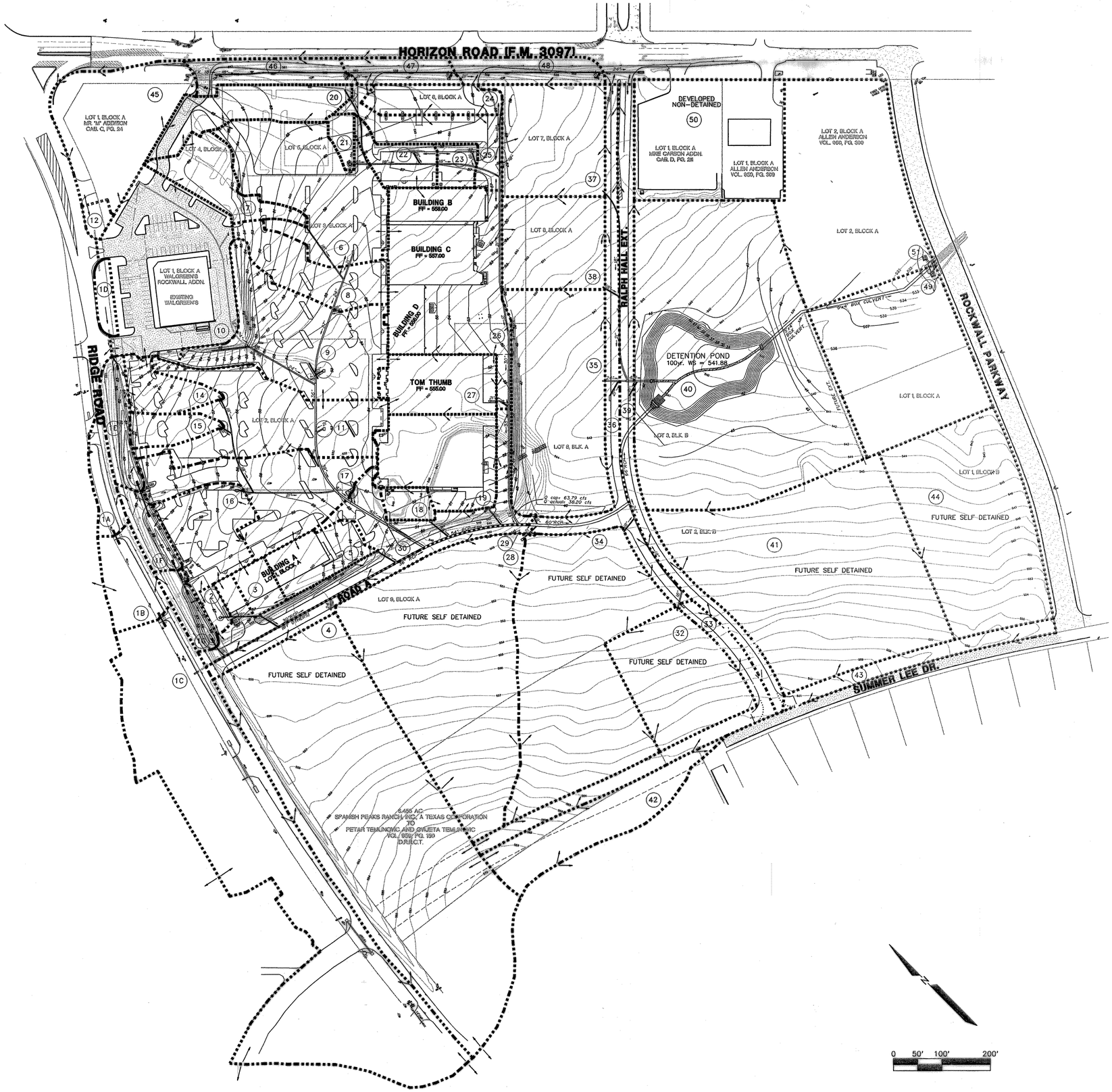

HYDRAULIC DATA

$Q = C \times I \times A$

D.A. No.	AREA (acres)	C (runoff)	TC (min)	I_{100} (in/hr)	Q_{100} (cfs)	Q_{100} (total)	REMARKS
1A	0.26	0.8	10	9.8	2.0	2.0	CULVERT FLOW TO DA #1B
1B	0.47	0.8	10	9.8	3.7	5.7	CULVERT FLOW TO DA #1C
1C	5.07	0.8	10	9.8	39.7	45.4	24" CULVERT
1D	0.08	0.8	10	9.8	0.6	0.6	CULVERT FLOW TO DA #1D
1D	0.12	0.8	10	9.8	0.9	1.5	CULVERT FLOW TO DA #1E
1E	0.31	0.8	10	9.8	2.4	3.9	CULVERT FLOW TO DA #1F
1F	0.24	0.8	10	9.8	1.9	5.8	CULVERT FLOW TO DA #1G
1G	0.22	0.8	10	9.8	1.7	51.2	18" CULVERT
2	0.09	0.8	10	9.8	0.7	0.7	4'x4' DROP INLET ~ SUMP
3	0.18	0.8	10	9.8	1.4	53.3	5' CURB INLET ~ ON GRADE
4	5.60	0.35	10	9.8	19.2	72.5	FUTURE OFFSITE SYSTEM EXTENSION
5	0.45	0.8	10	9.8	3.5	76.0	5' CURB INLET ~ ON GRADE
6	1.56	0.8	10	9.8	12.2	12.2	3 COMBO GRATE INLET ~ SUMP
7	0.54	0.8	10	9.8	4.2	16.4	2 COMBO GRATE INLET ~ ON GRADE
8	0.65	0.8	10	9.8	5.1	21.5	4 GRATE INLET ~ ON GRADE (4.0 cfs INTO 1.1 cfs BY)
9	1.59	0.8	10	9.8	12.5	34.0	6 GRATE INLET ~ SUMP (1.1 cfs FROM DA #8)
10	1.97	0.8	10	9.8	15.4	49.4	WALGREEN'S EXISTING 24" RCP
11	1.38	0.8	10	9.8	10.8	60.2	6 GRATE INLET ~ SUMP
14	0.33	0.8	10	9.8	2.6	2.6	2 GRATE INLET ~ SUMP
15	0.24	0.8	10	9.8	1.9	4.5	2 GRATE INLET ~ SUMP
16	0.72	0.8	10	9.8	5.6	70.3	2 COMBO GRATE INLET ~ SUMP
17	1.21	0.8	10	9.8	9.5	79.8/155.8	5' CURB INLET ~ SUMP
18	0.17	0.8	10	9.8	1.3	157.1	5' CURB INLET ~ SUMP
19	0.98	0.8	10	9.8	7.7	164.8	5' CURB INLET ~ SUMP
20	0.68	0.8	10	9.8	5.3	5.3	FUTURE SYSTEM EXTENSION
21	0.11	0.8	10	9.8	0.9	6.2	4'x4' DROP INLET ~ SUMP
22	0.32	0.8	10	9.8	2.5	8.7	2 COMBO GRATE INLET ~ SUMP
23	0.17	0.8	10	9.8	1.3	10.0	2 COMBO GRATE INLET ~ SUMP
24	0.38	0.8	10	9.8	3.0	3.0	5' CURB INLET ~ SUMP
25	0.56	0.8	10	9.8	4.4	17.4	5' CURB INLET ~ SUMP
26	1.99	0.8	10	9.8	15.6	33.0	10' CURB INLET ~ SUMP
27	0.66	0.8	10	9.8	5.2	203.0	2 GRATE INLET ~ SUMP
28	3.44	0.35	10	9.8	11.8	11.8	4'x4' DROP INLET ~ SUMP
29	0.38	0.8	10	9.8	3.0	217.8	10' CURB INLET ~ ON GRADE
30	1.26	0.8	10	9.8	9.9	227.7	10' CURB INLET ~ ON GRADE (9.0 cFs INTO 1.1 cfs BY)
~~31~~	~~2.34~~	~~0.35~~	~~10~~	~~9.8~~	~~8.0~~	~~8.0~~	~~SHEET FLOW TO DA #32~~ NOT USED
32	1.20	0.35	10	9.8	4.1	4.1	FUTURE SYSTEM EXTENSION
33	0.67	0.8	10	9.8	5.3	9.4	5' CURB INLET ~ ON GRADE
34	3.08	0.35	10	9.8	10.5	247.6	FUTURE SYSTEM
35	2.12	0.8	10	9.8	16.6	16.6	FUTURE SYSTEM
36	0.91	0.8	10	9.8	7.1	23.7	10' CURB INLET (0.1 cfs FROM DA #30)
37	1.14	0.8	10	9.8	8.9	8.9	FUTURE SYSTEM
38	0.94	0.8	10	9.8	7.4	40.0	FUTURE SYSTEM
39	0.96	0.8	10	9.8	7.5	47.5	10' CURB INLET ~ SUMP
40	5.45	0.8	10	9.8	42.7	333.1	DETENTION POND LOT (INTO POND)
41	3.97	0.35	10	9.8	13.6	13.6	FUTURE SELF DETAINED
42	0.92	0.35	10	9.8	3.2	3.2	FUTURE SELF DETAINED
43	0.40	0.8	10	9.8	3.1	3.1	FUTURE SELF DETAINED
44	2.41	0.35	10	9.8	8.3	8.3	FUTURE SELF DETAINED
45	1.31	0.8	10	9.8	10.3	10.3	18" CULVERT
46	0.42	0.8	10	9.8	3.3	13.6	18" CULVERT
47	0.28	0.8	10	9.8	2.2	15.8	18" CULVERT
48	0.39	0.8	10	9.8	3.1	18.9	21" CULVERT
49	2.08	0.35	10	9.8	7.1	15.4	4'x4' DROP INLET
50	1.78	0.8	10	9.8	14.0	14.0	SHEET FLOWS TO DA #51
51	2.55	0.35	10	9.8	8.7	22.7	4'x4' DROP INLET

SEE SHEET C-6B FOR DETENTION CALCULATIONS

LEGEND

- (1) DRAINAGE AREA NUMBER
- DRAINAGE DIVIDES
- FLOW ARROWS
- 545 EXIST. CONTOURS
- 545 PROP. CONTOURS
- EXIST. DRAINAGE PIPES
- PROP. STORM SEWER

AS BUILT
DATE 11-6-03

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY BRYAN M. BURGER, P.E. 90880 ON 03/12/03

STATE OF TEXAS · BRYAN M. BURGER · 90880 · LICENSED · CIVIL · ENGINEER · P.E.

REV.	DATE	REMARKS

DRAINAGE AREA MAP

LOT 5, BLOCK A
HORIZON RIDGE ADDITION
THE CITY OF ROCKWALL, TEXAS

LAWRENCE A. CATES & ASSOC., INC. — CONSULTING ENGINEERS
14200 MIDWAY ROAD, SUITE 122 (972) 385-2272 DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	CAC	5-28-01	1"= 100'	D.P.	23008 DAMAP	C-6A

R:\ENGS\23008\Damap.dwg Wed Mar 12 16:54:45 2003 MCBAIN