

TECH: F:\8770MA\277DA201.PRF
 Tue Apr 22 09:35:26 1997 PEN TABLE: F:\PLT-TBL\GARY
 PLOT: C:\PROG\PLT\GARY\277DA201.PRT SCALE: 100.000000



- BENCHMARKS:**
1. CARTER & BURGESS CAP ON NORTH SIDE OF YELLOW JACKET LANE 75' WEST OF FAR WEST ENTRANCE TO CANYON RIDGE APARTMENTS. ELEV. = 574.71
 2. □ CUT IN NOSE OF MEDIAN ON YELLOW JACKET LANE 25' EAST OF SOUTHEAST PROPERTY CORNER OF PROJECT. ELEV. = 573.48
 3. TOP OF CONCRETE R.O.W. MARKER AT FENCE CORNER IN THE SOUTHEAST QUADRANT AT THE INTERSECTION OF FM 276 AND HIGH SCHOOL DRIVE. ELEV. = 542.98

LINE A

COLLECTION POINT	UPSTREAM STATION	DWNSIDE STATION	AREA NO.	AREA IN ACRES	RUNOFF COEFF	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT STATION (MIN)	DESIGN STORM FREQUENCY (YEARS)	INTENSITY (IN./HR)	WATER RUNOFF "Q"	STORM RUNOFF "Q"	FLOW CAPTURED "OCAP"	FLOW BYPASSED "OBY"	HYDRAULIC GRADE (FT./FT.)	SLOPE OF SEWER (F.P.S.)	STORM IN SEWER	HEAD LOSS AT MANHOLES & JUNCTIONS (FEET)	VELOCITY AT MANHOLES & JUNCTIONS (MIN.)	VELOCITY IN SEWER (MIN.)	HEAD LOSS AT STATION (FEET)	FLOW TIME IN SEWER (MIN.)	TIME AT STATION (MIN)	HYDRAULIC ELEVATIONS UPSTREAM	HYDRAULIC ELEVATIONS DWNSTREAM
523.97	576.65	47.32	A2	2.29	0.5	1.15	1.15	10.0	100	9.8	11.2	9.8	1.4	0.0036	21	4.07	0.26	0.2	10.2	517.89	517.51	10.2	517.89	517.51	
576.65	387.49	189.16	A4	3.48	0.5	1.74	2.89	10.1	100	9.8	38.3	21.3	N/A	0.0181	21	8.88	1.22	0.4	10.3	518.29	518.29	10.3	518.29	518.29	
387.49	274.82	112.67	A3.5	2.20	0.5	1.10	3.99	10.5	100	9.8	38.1	35.8	N/A	0.0250	24	11.40	2.02	0.2	10.7	512.06	509.23	10.7	512.06	509.23	
274.82	130.00	144.82	A3.5	0.00	0.5	0.00	3.99	10.7	100	9.8	38.1	35.8	N/A	0.0250	24	11.40	2.02	0.00	10.9	502.26	496.86	10.9	502.26	496.86	
130.00	100.00	30.00	A3.5	0.00	0.5	0.00	3.99	10.9	100	9.8	38.1	35.8	N/A	0.0134	27	9.00	1.26	0.00	10.9	497.40	497.00	10.9	497.40	497.00	

LINE B

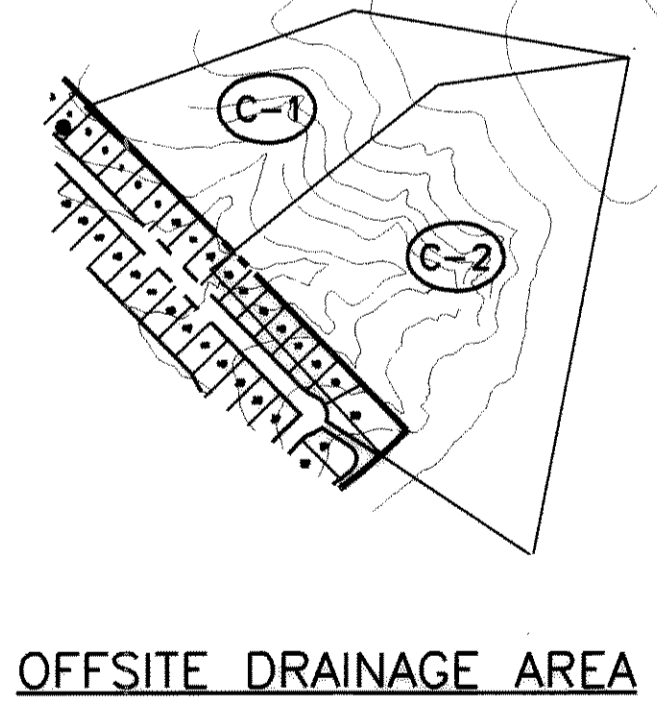
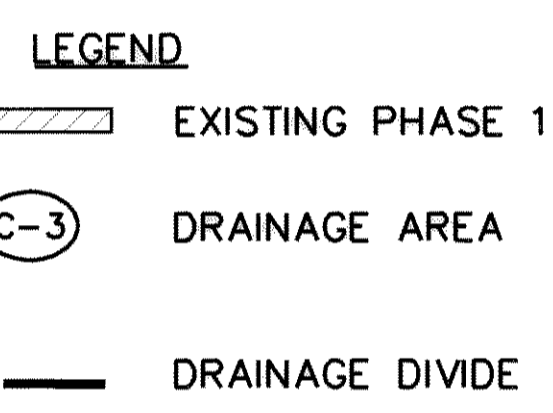
COLLECTION POINT	UPSTREAM STATION	DWNSIDE STATION	AREA NO.	AREA IN ACRES	RUNOFF COEFF	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT STATION (MIN)	DESIGN STORM FREQUENCY (YEARS)	INTENSITY (IN./HR)	WATER RUNOFF "Q"	STORM RUNOFF "Q"	FLOW CAPTURED "OCAP"	FLOW BYPASSED "OBY"	HYDRAULIC GRADE (FT./FT.)	SLOPE OF SEWER (F.P.S.)	STORM IN SEWER	HEAD LOSS AT MANHOLES & JUNCTIONS (FEET)	VELOCITY AT MANHOLES & JUNCTIONS (MIN.)	VELOCITY IN SEWER (MIN.)	HEAD LOSS AT STATION (FEET)	FLOW TIME IN SEWER (MIN.)	TIME AT STATION (MIN)	HYDRAULIC ELEVATIONS UPSTREAM	HYDRAULIC ELEVATIONS DWNSTREAM
606.67	141.07	468.60	B1	2.20	0.5	1.10	1.10	10.0	100	9.8	10.8	9.8	1.2	0.0084	18	5.43	0.46	1.4	11.4	512.21	508.30	11.4	512.21	508.30	

LINE C

COLLECTION POINT	UPSTREAM STATION	DWNSIDE STATION	AREA NO.	AREA IN ACRES	RUNOFF COEFF	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT STATION (MIN)	DESIGN STORM FREQUENCY (YEARS)	INTENSITY (IN./HR)	WATER RUNOFF "Q"	STORM RUNOFF "Q"	FLOW CAPTURED "OCAP"	FLOW BYPASSED "OBY"	HYDRAULIC GRADE (FT./FT.)	SLOPE OF SEWER (F.P.S.)	STORM IN SEWER	HEAD LOSS AT MANHOLES & JUNCTIONS (FEET)	VELOCITY AT MANHOLES & JUNCTIONS (MIN.)	VELOCITY IN SEWER (MIN.)	HEAD LOSS AT STATION (FEET)	FLOW TIME IN SEWER (MIN.)	TIME AT STATION (MIN)	HYDRAULIC ELEVATIONS UPSTREAM	HYDRAULIC ELEVATIONS DWNSTREAM
673.82	637.82	36.00	C1	7.87	0.75	5.90	5.90	10.0	100	9.8	57.8	57.8	0.0	0.0033	42	6.01	0.56	0.1	10.1	526.99	526.87	10.1	526.99	526.87	
637.82	498.03	139.79	C2	20.55	0.76	15.62	21.52	10.1	100	9.8	210.9	210.9	0.0	0.0039	66	8.88	1.22	0.00	10.4	525.65	525.10	10.4	525.65	525.10	
498.03	390.84	107.19	C3	0.82	0.50	0.41	21.93	10.6	100	9.8	214.8	214.8	0.0	0.0041	66	8.28	0.05	0.0	10.5	523.41	523.38	10.5	523.41	523.38	
390.84	384.71	6.13	C3	2.05	0.50	1.03	22.98	10.6	100	9.8	229.0	229.0	0.0	0.0045	66	9.47	0.12	0.2	10.8	523.26	523.70	10.8	523.26	523.70	
384.71	260.00	124.71	C4	0.00	0.00	0.00	22.98	10.8	100	9.8	229.0	229.0	0.0	0.0045	66	9.47	1.39	0.00	0.3	11.1	515.22	514.90	11.1	515.22	514.90

LINE C-1

COLLECTION POINT	UPSTREAM STATION	DWNSIDE STATION	AREA NO.	AREA IN ACRES	RUNOFF COEFF	INCREMENTAL "CA"	ACCUMULATED "CA"	TIME AT STATION (MIN)	DESIGN STORM FREQUENCY (YEARS)	INTENSITY (IN./HR)	WATER RUNOFF "Q"	STORM RUNOFF "Q"	FLOW CAPTURED "OCAP"	FLOW BYPASSED "OBY"	HYDRAULIC GRADE (FT./FT.)	SLOPE OF SEWER (F.P.S.)	STORM IN SEWER	HEAD LOSS AT MANHOLES & JUNCTIONS (FEET)	VELOCITY AT MANHOLES & JUNCTIONS (MIN.)	VELOCITY IN SEWER (MIN.)	HEAD LOSS AT STATION (FEET)	FLOW TIME IN SEWER (MIN.)	TIME AT STATION (MIN)	HYDRAULIC ELEVATIONS UPSTREAM	HYDRAULIC ELEVATIONS DWNSTREAM
290.00	100.00	190.00	C2	20.55	0.76	15.62	15.62	10.0	100	9.8	153.1	153.1	0.0	0.0035	60	7.41	0.94	0.3	10.3	527.39	526.87	10.3	527.39	526.87	



STORM DRAINAGE SUMMARY

AREA	ACRES	COEF.	MIN.	5'	10'	5'	10'
A1	1.18	0.50	10	6.2	9.8	3.7	5.6
A2	2.29	0.50	10	6.2	9.8	7.1	11.2
A3	0.40	0.50	10	6.2	9.8	1.2	2.0
A4	3.48	0.50	10	6.2	9.8	10.8	17.1
A5	1.80	0.50	10	6.2	9.8	5.6	9.8
A6	1.99	0.50	10	6.2	9.8	6.2	9.8
A7	0.78	0.50	10	6.2	9.8	2.4	3.8
B1	2.20	0.50	10	6.2	9.8	6.8	10.8
C1	7.87	0.75	10	6.2	9.8	35.6	57.8
C2	20.55	0.76	10	6.2	9.8	98.8	153.1
C3	0.82	0.50	10	6.2	9.8	2.5	4.0
C4	2.05	0.50	10	6.2	9.8	6.4	10.0
D1	0.60	0.50	10	6.2	9.8	1.9	2.9

RECORD DRAWINGS
 These drawings have been modified to reflect construction records provided to the Engineer.

DATE	REVISION	MADE	CHKD.	APPD.
 Carter & Burgess Carter & Burgess, Inc. 7950 Elmbrook Drive Dallas, Texas 75247-4961 (214) 638-0145 METRO (214) 263-2019 Fax (214) 638-0447				
DRAINAGE AREA MAP				
WATERSTONE ESTATES, PHASE 2				
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS				
DESIGN	DRAWN	CKD	SCALE	DATE
FIELDER	CARUTHERS	PAYNE	1" = 100'	MAR. 97
FILE	ND.			
01-2024	10			

