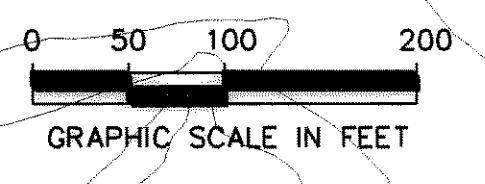


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 PRF SCALE: 10000.000000



- BENCHMARKS:
- CARTER & BURGESS CAP ON NORTH SIDE OF YELLOW JACKET LANE 75'± WEST OF FAR WEST ENTRANCE TO CANYON RIDGE APARTMENTS. ELEV.= 574.71
 - CUT IN NOSE OF MEDIAN ON YELLOW JACKET LANE 25'± EAST OF SOUTHEAST PROPERTY CORNER OF PROJECT. ELEV.= 573.48
 - 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

RUNOFF COLLECTION POINT	DISTANCE BETWEEN	INCREMENTAL DRAINAGE AREA	ACCUM-ULATED AREA	TIME AT UP-STREAM STATION	DESIGN STORM FREQUENCY	INTENSITY	STORM WATER RUNOFF	FLOW IN PIPE	FLOW BYPASSED AT INLET	SLOPE OF HYDRAULIC GRADE	SELECTED STORM DRAINAGE DIAMETER	VELOCITY IN SEWER	VELOCITY HEAD LOSS AT MANHOLES & JUNCTIONS	VELOCITY HEAD LOSS AT UPSTREAM STATION	FLOW TIME IN SEWER	TIME AT DRAINAGE STATION	HYDRAULIC ELEVATIONS	GRADIENT
UPSTREAM STATION	DRAINAGE POINTS	NO. IN ACRES	AREA IN ACRES	MIN.	(YEARS)	(IN./HR)	(C.F.S.)	(C.F.S.)	(C.F.S.)	(FT./FT.)	(INCHES)	(F.P.S.)	(FEET)	(FEET)	(MIN.)	(MIN.)	UPSTREAM	DRAINAGE
623.97	576.65	47.32	A2	2.29	0.5	1.15	1.15	10.0	100	9.8	11.2	9.8	0.0038	21	4.07	10.2	517.69	517.51
576.65	387.49	100.16	A4	3.48	0.5	1.74	2.89	10.1	100	9.8	28.3	21.3	0.0181	21	8.86	1.22	516.29	512.88
387.49	274.62	112.87	A3.5	2.20	0.5	1.10	3.99	10.5	100	9.8	39.1	35.8	0.0250	24	11.40	0.80	512.08	509.25
274.62	130.00	144.62	A3.5	0.00	0.5	0.00	3.99	10.7	100	9.8	39.1	35.8	0.0250	24	11.40	2.02	502.28	498.66
130.00	100.00	30.00	A3.5	0.00	0.5	0.00	3.99	10.9	100	9.8	39.1	35.8	0.0134	27	9.00	1.28	497.40	497.00

LINE B

RUNOFF COLLECTION POINT	DISTANCE BETWEEN	INCREMENTAL DRAINAGE AREA	ACCUM-ULATED AREA	TIME AT UP-STREAM STATION	DESIGN STORM FREQUENCY	INTENSITY	STORM WATER RUNOFF	FLOW IN PIPE	FLOW BYPASSED AT INLET	SLOPE OF HYDRAULIC GRADE	SELECTED STORM DRAINAGE DIAMETER	VELOCITY IN SEWER	VELOCITY HEAD LOSS AT MANHOLES & JUNCTIONS	VELOCITY HEAD LOSS AT UPSTREAM STATION	FLOW TIME IN SEWER	TIME AT DRAINAGE STATION	HYDRAULIC ELEVATIONS	GRADIENT
UPSTREAM STATION	DRAINAGE POINTS	NO. IN ACRES	AREA IN ACRES	MIN.	(YEARS)	(IN./HR)	(C.F.S.)	(C.F.S.)	(C.F.S.)	(FT./FT.)	(INCHES)	(F.P.S.)	(FEET)	(FEET)	(MIN.)	(MIN.)	UPSTREAM	DRAINAGE
609.67	141.07	468.60	B1	2.20	0.5	1.10	1.10	10.0	100	9.8	10.8	9.6	0.0094	18	5.43	0.46	512.21	508.30

LINE C

RUNOFF COLLECTION POINT	DISTANCE BETWEEN	INCREMENTAL DRAINAGE AREA	ACCUM-ULATED AREA	TIME AT UP-STREAM STATION	DESIGN STORM FREQUENCY	INTENSITY	STORM WATER RUNOFF	FLOW CAPTURED IN INLET	FLOW BYPASSED AT INLET	SLOPE OF HYDRAULIC GRADE	SELECTED STORM DRAINAGE DIAMETER	VELOCITY IN SEWER	VELOCITY HEAD LOSS AT MANHOLES & JUNCTIONS	VELOCITY HEAD LOSS AT UPSTREAM STATION	FLOW TIME IN SEWER	TIME AT DRAINAGE STATION	HYDRAULIC ELEVATIONS	GRADIENT	
UPSTREAM STATION	DRAINAGE POINTS	NO. IN ACRES	AREA IN ACRES	MIN.	(YEARS)	(IN./HR)	(C.F.S.)	(C.F.S.)	(C.F.S.)	(FT./FT.)	(INCHES)	(F.P.S.)	(FEET)	(FEET)	(MIN.)	(MIN.)	UPSTREAM	DRAINAGE	
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	526.99	526.97
637.82	498.03	139.79	C2	20.55	0.78	15.62	21.52	10.1	100	9.8	210.9	210.9	0.0	0.0039	66	8.88	1.22	525.65	525.10
498.03	390.84	107.19	C3	0.82	0.50	0.41	21.52	10.4	100	9.8	210.9	210.9	0.0	0.0039	66	8.88	0.00	523.88	523.43
390.84	384.71	6.13	C3	0.82	0.50	0.41	21.52	10.6	100	9.8	214.9	214.9	0.0	0.0041	66	9.05	0.05	523.41	523.38
384.71	280.00	124.71	C4	2.05	0.50	1.03	22.96	10.6	100	9.8	225.0	225.0	0.0	0.0045	66	9.47	0.12	523.26	522.70
280.00	100.00	180.00	C4	0.00	0.00	0.00	22.96	10.8	100	9.8	225.0	225.0	0.0	0.0045	66	9.47	1.30	515.22	514.50

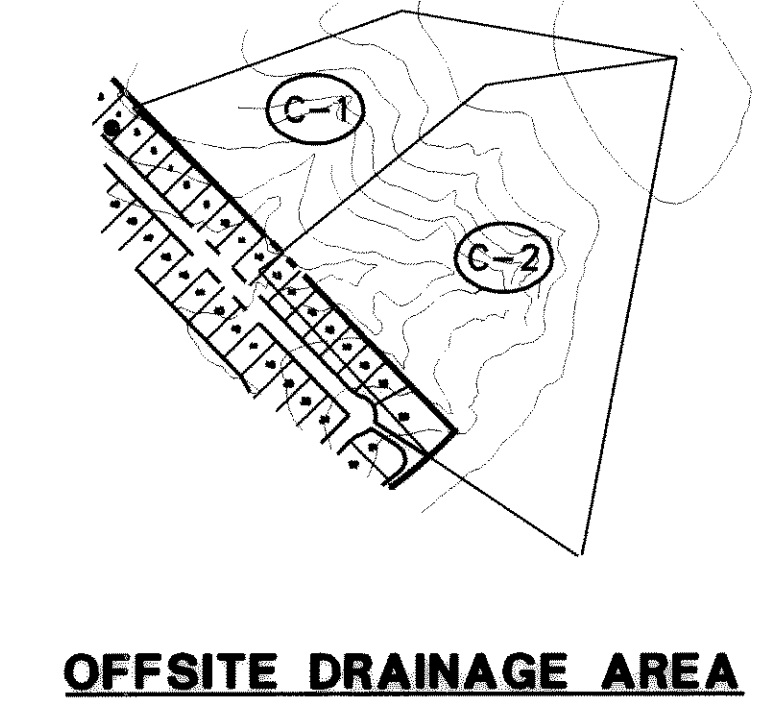
LINE C-1

RUNOFF COLLECTION POINT	DISTANCE BETWEEN	INCREMENTAL DRAINAGE AREA	ACCUM-ULATED AREA	TIME AT UP-STREAM STATION	DESIGN STORM FREQUENCY	INTENSITY	STORM WATER RUNOFF	FLOW CAPTURED IN INLET	FLOW BYPASSED AT INLET	SLOPE OF HYDRAULIC GRADE	SELECTED STORM DRAINAGE DIAMETER	VELOCITY IN SEWER	VELOCITY HEAD LOSS AT MANHOLES & JUNCTIONS	VELOCITY HEAD LOSS AT UPSTREAM STATION	FLOW TIME IN SEWER	TIME AT DRAINAGE STATION	HYDRAULIC ELEVATIONS	GRADIENT	
UPSTREAM STATION	DRAINAGE POINTS	NO. IN ACRES	AREA IN ACRES	MIN.	(YEARS)	(IN./HR)	(C.F.S.)	(C.F.S.)	(C.F.S.)	(FT./FT.)	(INCHES)	(F.P.S.)	(FEET)	(FEET)	(MIN.)	(MIN.)	UPSTREAM	DRAINAGE	
250.00	100.00	150.00	C2	20.55	0.78	15.62	15.62	10.0	100	9.8	153.1	153.1	0.0	0.0035	60	7.80	0.94	527.30	526.67

LEGEND
 PHASE 2
 DRAINAGE AREA

STORM DRAINAGE SUMMARY

AREA NUMBER	ACRES	RUNOFF COEFF.	1C	5	100	5	100
A1	1.18	0.50	10	6.2	9.8	3.7	5.8
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	8.8
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	36.6	57.8
C2	20.55	0.78	10	6.2	9.8	96.8	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 DRAWING'S
 These drawings have been modified to reflect construction records provided to the Engineer.

DATE	REVISION	MADE	CKD.	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 I				
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS				
DESIGN	DRAWN	CKD	SCALE	DATE
FIELDER	CARUTHERS	PAYNE	1" = 100'	SEPT., '94
				01-2024
				18 OF 21