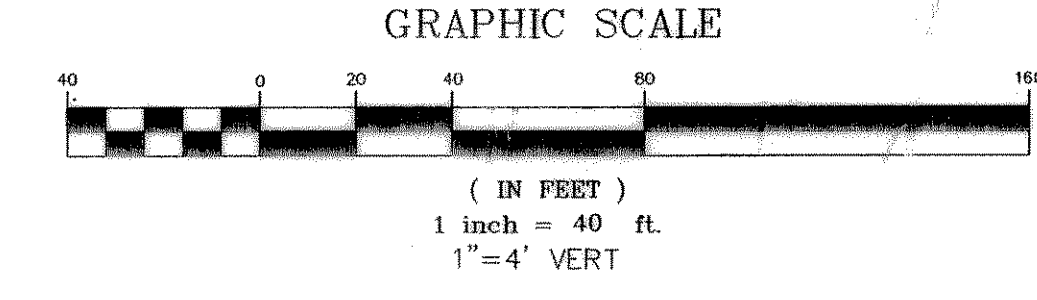


DOUPHRADE & ASSOCIATES, INC.
 ENGINEERING - PROJECT MANAGEMENT - SURVEYING
 2235 RIDGE RD., # 200 ROCKWALL, TEXAS 75087
 PHONE: (972)771-9004 FAX: (972)771-9005

STORM SEWER PLAN & PROFILE
 LINE E
 TIMBER CREEK ESTATES
 CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

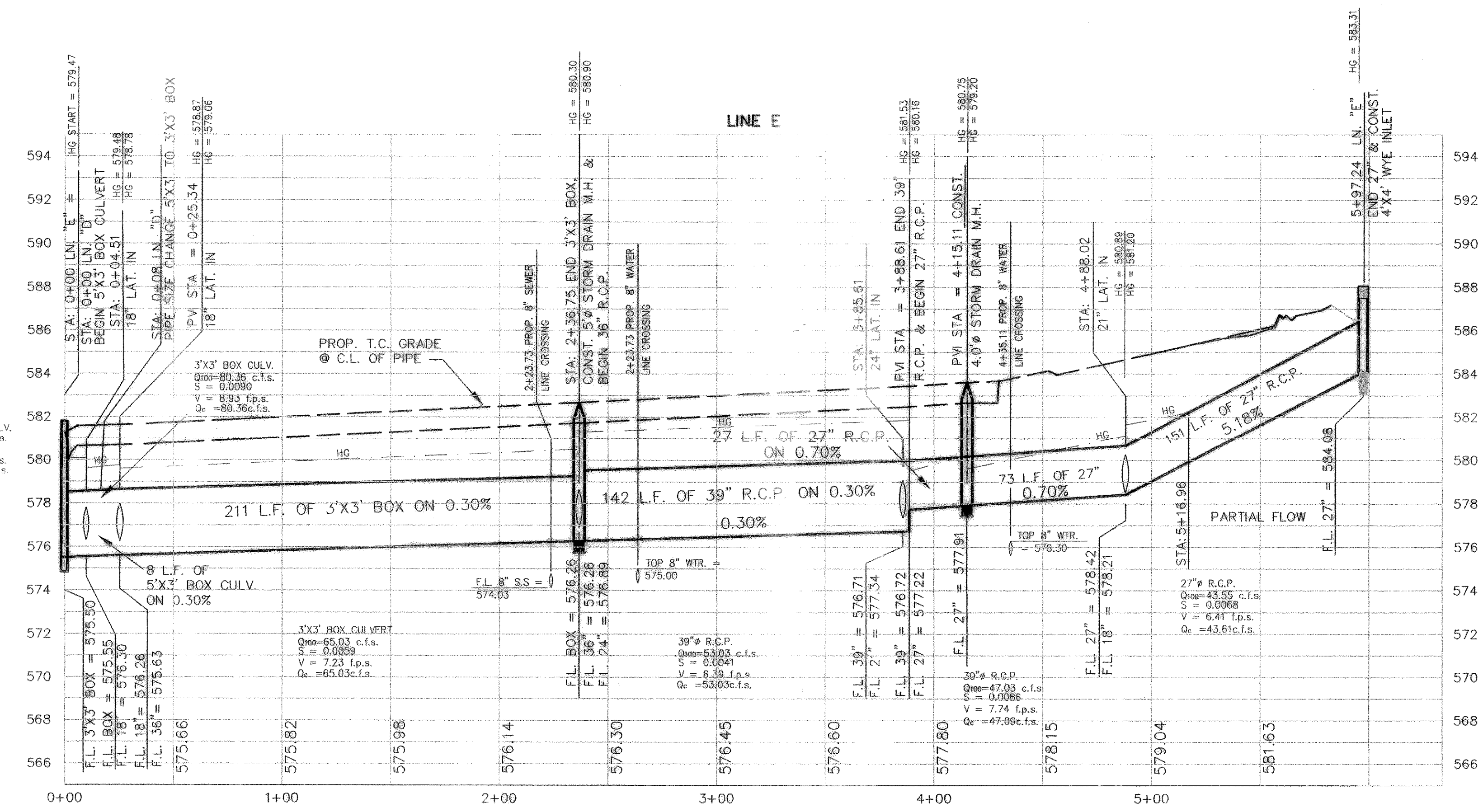
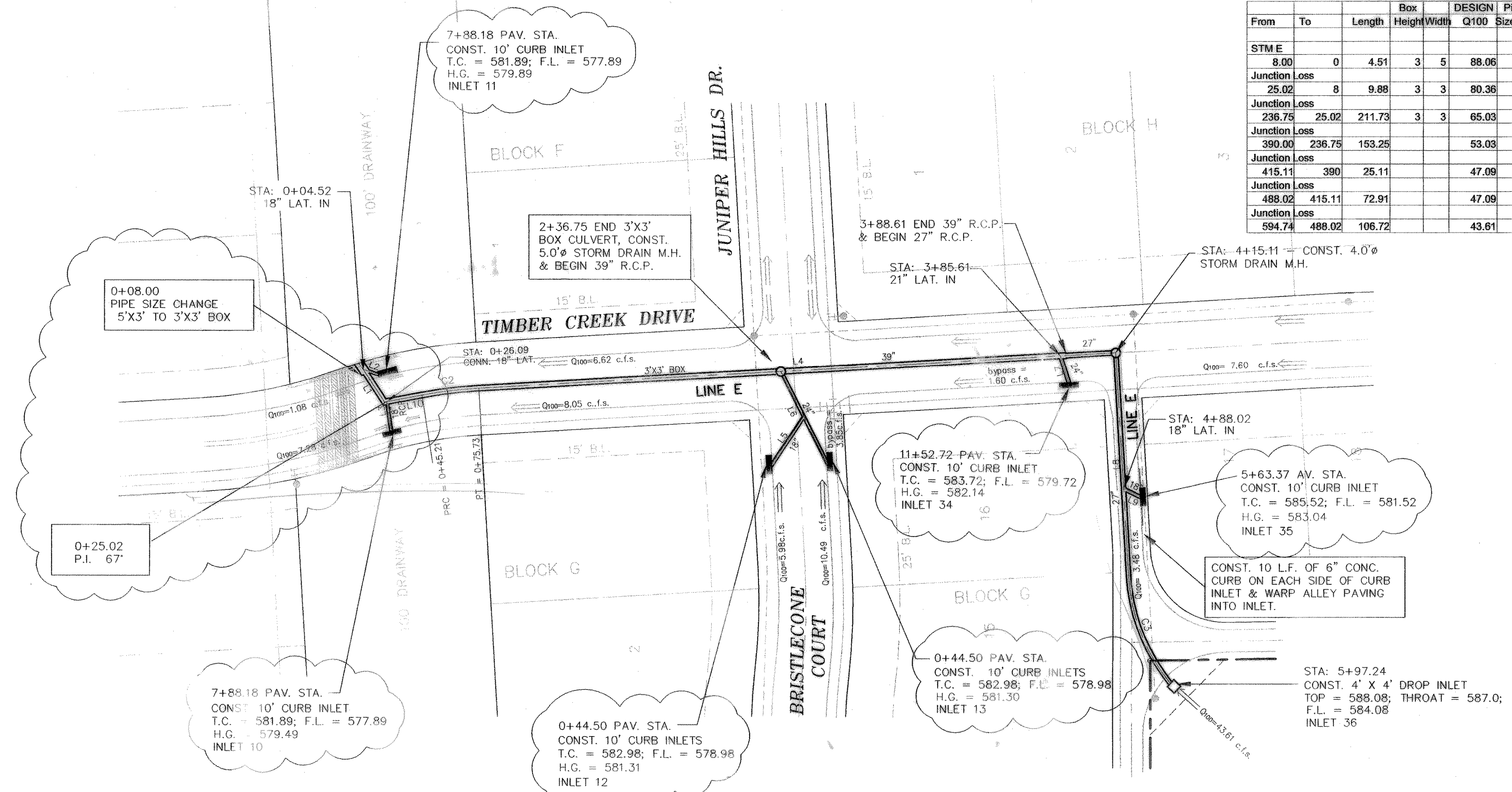
From	To	Length	Box Height	Width	DESIGN Q100	Pipe Size (in)	CAP Q100	FULL V	PARTIAL V	PARTIAL FLOW %	CHT. No.	Flow KJ	Flow R(ft)	Flow R ^{2/3}	Flow Area	FULL S	DESIGN HGL	HGL		
STM E																			579.47	
	8.00	0	4.51	3	5	88.06		89.96	5.87	6.75	0.98	1.15	0.9375	0.9579	15.0000	0.0029	0.0030	0.0130	579.48	
	Junction Loss	25.02	8	9.88	3	3	80.36	46.51	8.93	8.93	1.73	1.00	1.0000	0.7500	0.8255	9.0000	0.0090	0.0030	-0.7028	578.78
	Junction Loss	236.75	25.02	211.73	3	3	65.03	46.51	7.23	7.23	1.40	1.00	1.0000	0.7500	0.8255	9.0000	0.0059	0.0030	1.2415	579.06
	Junction Loss	390.00	236.75	153.25			53.03	39	45.22	6.39	7.48	1.17	1.0000	0.8125	0.8707	8.2958	0.0041	0.0030	0.6321	580.90
	Junction Loss	415.11	390	25.11			47.09	27	25.91	11.84	11.84	1.82	1.0000	0.5625	0.6814	3.9761	0.0231	0.0070	-1.3673	580.16
	Junction Loss	488.02	415.11	72.91			47.09	27	25.91	11.84	11.84	1.82	1.0000	0.5625	0.6814	3.9761	0.0231	0.0070	-1.5435	579.20
	Junction Loss	594.74	488.02	106.72			43.61	27	71.37	10.97	11.52	0.61	1.05	0.5625	0.6814	3.9761	0.0198	0.0531	0.3100	581.20
																			2.1160	583.31



CURVE	LENGTH	RADIUS	DELTA	CB	CD
C2	30.52	235.00	72°26'	N07°00'09"W	30.50
C3	62.61	100.00	35°52'32"	S68°16'48"W	61.60

LINE	LENGTH	BEARING
L1	25.25	S57°08'50"W
L2	8.57	N18°47'09"E
L3	15.36	S80°44'30"W
L4	339.39	N03°16'56"W
L5	30.86	S89°40'30"E
L6	54.16	N63°12'30"E
L7	14.95	N72°35'13"E
L8	119.51	S86°43'04"W
L9	9.81	S26°43'04"W
L10	20.19	N10°43'22"W

BENCHMARK:
 T.C. CENTERLINE OF INLET ON WEST SIDE OF SILVER VIEW LANE BETWEEN LOTS 4 & 5, BLOCK B, OF STERLING FARMS ADDITION
 ELEV: 599.65



REVISED TO CONFORM TO CONSTRUCTION RECORDS.
 DATE: 5/27/03

REVISION
W.L.D. CHECKED
K.E.B. DRAWN
2/01/01 DATE
9913STM4 PROJECT