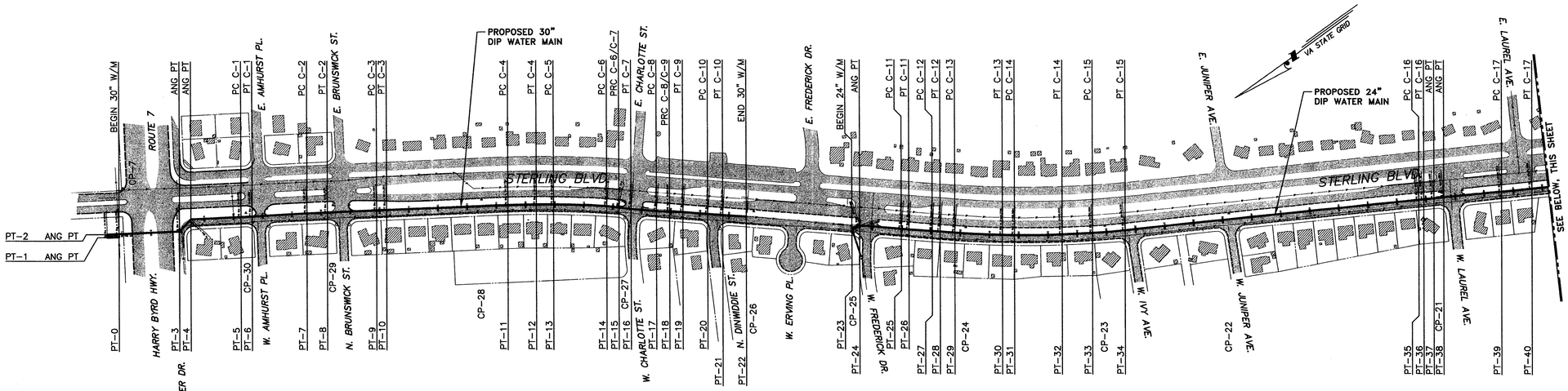
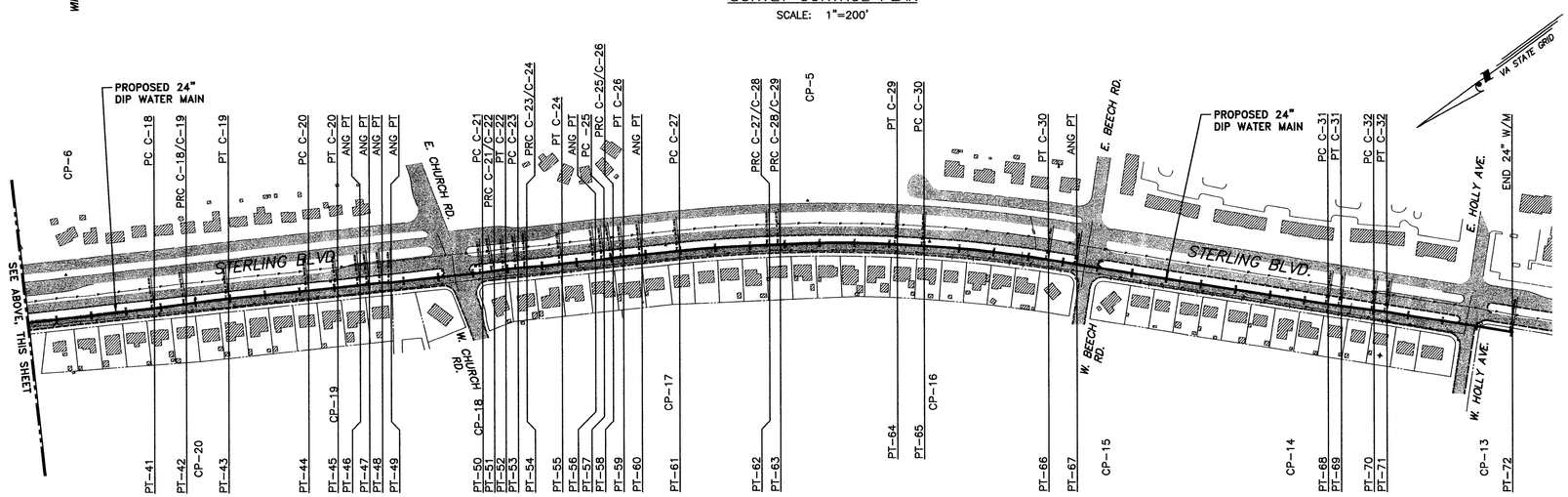


SURVEY CONTROL PLAN

SCALE: 1"=200'



SURVEY CONTROL PLAN

SCALE: 1"=200'

CONTROL POINT COORDINATES

POINT NUMBER	COORDINATE LISTING NORTHING	EASTING	ELEVATION
CP-5	7 051 098.65	11 799 929.45	350.72
CP-6	7 052 941.35	11 797 014.40	307.30
CP-7	7 057 052.11	11 799 835.29	313.02
CP-13	7 049 751.46	11 794 505.50	349.89
CP-14	7 050 138.48	11 794 914.97	364.55
CP-15	7 050 517.81	11 795 294.29	362.99
CP-16	7 050 886.21	11 795 628.82	357.68
CP-17	7 051 503.74	11 796 066.76	334.05
CP-18	7 051 979.48	11 796 341.90	307.50
CP-19	7 052 341.97	11 796 551.14	380.34
CP-20	7 052 683.25	11 796 740.41	314.74
CP-21	7 053 419.20	11 797 172.03	319.37
CP-22	7 054 046.27	11 797 534.28	324.29
CP-23	7 054 414.82	11 797 749.13	326.43
CP-24	7 054 802.09	11 798 024.70	314.84
CP-25	7 055 086.28	11 798 266.02	297.18
CP-26	7 055 356.14	11 798 494.75	293.07
CP-27	7 055 698.95	11 798 788.13	291.58
CP-28	7 056 086.34	11 799 078.37	305.80
CP-29	7 056 507.69	11 799 363.33	320.87
CP-30	7 056 763.44	11 799 517.50	313.15

WATER MAIN COORDINATES

POINT NUMBER	WATER MAIN STATION	COORDINATE LISTING NORTHING	EASTING
PT-0	0+00.00	7 057 161.79	11 799 708.31
PT-1	0+40.00	7 057 195.00	11 799 730.61
PT-2	0+50.00	7 057 189.42	11 799 738.92
PT-3	2+97.44	7 056 984.02	11 799 600.93
PT-4	3+54.44	7 056 928.10	11 799 611.91
PT-5	5+25.85	7 056 785.81	11 799 516.32
PT-6	5+63.97	7 056 754.04	11 799 495.26
PT-7	7+51.85	7 056 596.77	11 799 392.48
PT-8	8+21.51	7 056 538.72	11 799 353.97
PT-9	9+90.17	7 056 398.84	11 799 259.74
PT-10	10+24.35	7 056 370.45	11 799 240.69
PT-11	14+39.78	7 056 025.11	11 799 009.78
PT-12	15+37.15	7 055 945.24	11 798 954.10
PT-13	15+96.24	7 055 897.44	11 798 919.36
PT-14	17+78.96	7 055 753.67	11 798 806.66
PT-15	18+21.05	7 055 722.90	11 798 777.96
PT-16	18+63.16	7 055 692.21	11 798 749.15
PT-17	19+50.60	7 055 625.99	11 798 692.05
PT-18	19+95.95	7 055 590.35	11 798 664.03
PT-19	20+41.30	7 055 554.71	11 798 636.01
PT-20	21+26.74	7 055 490.01	11 798 580.21
PT-21	21+78.38	7 055 450.56	11 798 546.90
PT-22	22+59.64	7 055 387.94	11 798 495.11
PT-23	26+27.45	7 055 118.84	11 798 251.40
PT-24	26+55.58	7 055 092.14	11 798 242.56
PT-25	27+97.88	7 054 984.45	11 798 149.54
PT-26	28+23.89	7 054 964.65	11 798 132.67
PT-27	29+03.91	7 054 902.75	11 798 081.96
PT-28	29+30.90	7 054 881.99	11 798 064.72
PT-29	29+81.25	7 054 843.47	11 798 032.29
PT-30	31+44.28	7 054 715.97	11 797 390.73
PT-31	31+85.39	7 054 683.13	11 797 906.00
PT-32	33+48.44	7 054 549.78	11 797 812.23
PT-33	34+52.53	7 054 462.72	11 797 755.17
PT-34	35+64.32	7 054 367.57	11 797 696.52
PT-35	45+75.60	7 053 492.14	11 797 190.23
PT-36	45+92.73	7 053 477.36	11 797 181.59
PT-37	46+27.35	7 053 447.54	11 797 164.00
PT-38	46+61.38	7 053 418.14	11 797 146.85
PT-39	48+59.79	7 053 246.76	11 797 046.87
PT-40	49+64.50	7 053 156.05	11 796 994.58
PT-41	53+81.62	7 052 793.58	11 796 788.17
PT-42	54+73.73	7 052 712.71	11 796 744.07
PT-43	55+96.04	7 052 605.71	11 796 684.87
PT-44	58+26.02	7 052 407.25	11 796 568.66
PT-45	59+09.87	7 052 334.71	11 796 526.59
PT-46	59+74.51	7 052 278.66	11 796 494.40
PT-47	60+00.98	7 052 255.70	11 796 481.21
PT-48	60+38.24	7 052 223.39	11 796 462.66
PT-49	60+64.04	7 052 202.02	11 796 448.21
PT-50	63+28.13	7 051 973.11	11 796 316.52
PT-51	63+61.75	7 051 943.43	11 796 300.75
PT-52	63+95.00	7 051 914.07	11 796 285.16
PT-53	64+30.41	7 051 883.36	11 796 267.52
PT-54	64+56.06	7 051 861.45	11 796 254.18
PT-55	65+57.74	7 051 774.63	11 796 201.28
PT-56	66+54.44	7 051 690.80	11 796 153.08
PT-57	66+79.17	7 051 669.36	11 796 140.75
PT-58	67+05.57	7 051 646.14	11 796 128.20
PT-59	67+35.71	7 051 619.68	11 796 113.78
PT-60	67+89.09	7 051 573.60	11 796 086.82
PT-61	68+97.54	7 051 480.00	11 796 032.06
PT-62	71+56.67	7 051 261.37	11 795 893.06
PT-63	71+87.52	7 051 235.70	11 795 875.95
PT-64	75+23.08	7 050 964.39	11 795 678.79
PT-65	75+99.83	7 050 904.92	11 795 630.27
PT-66	79+57.99	7 050 639.47	11 795 390.07
PT-67	80+40.47	7 050 581.22	11 795 331.67
PT-68	87+68.58	7 050 067.02	11 794 816.16
PT-69	88+06.41	7 050 039.80	11 794 789.89
PT-70	89+00.77	7 049 970.69	11 794 725.65
PT-71	89+38.60	7 049 943.47	11 794 699.38
PT-72	93+02.91	7 049 686.19	11 794 441.44

CURVE DATA

CURVE	DELTA	RADIUS	ARC	TAN	CHORD	CHORD BEARING	RADIUS POINT COORDINATE LISTING NORTHING	EASTING
C-1	0°43'41"	3000.00'	38.12'	19.06'	38.12'	S 88°51'31" E	7 055 112.84	11 802 006.53
C-2	0°47'54"	5000.00'	69.66'	34.83'	69.66'	S 88°49'24" E	7 059 332.09	11 795 207.03
C-3	0°11'45"	10000.00'	34.18'	17.09'	34.18'	S 88°31'20" E	7 050 812.09	11 807 553.61
C-4	2°13'54"	2500.00'	97.38'	48.69'	97.37'	S 87°30'16" E	7 057 414.70	11 796 931.55
C-5	4°11'15"	2500.00'	182.72'	91.40'	182.68'	S 84°17'41" E	7 057 366.90	11 796 896.82
C-6	5°47'56"	415.91'	42.09'	21.07'	42.08'	S 79°22'47" E	7 056 021.62	11 798 488.57
C-7	4°49'31"	500.00'	42.11'	21.07'	42.10'	S 79°12'11" E	7 055 365.68	11 799 127.81
C-8	5°11'48"	500.00'	45.35'	22.69'	45.33'	S 84°12'51" E	7 055 299.46	11 799 070.70
C-9	5°11'48"	500.00'	45.35'	22.69'	45.33'	S 84°12'51" E	7 055 881.24	11 798 257.36
C-10	1°11'00"	2500.00'	51.64'	25.82'	51.64'	S 82°12'27" E	7 053 857.36	11 800 473.48
C-11	0°44'43"	2000.00'	26.01'	13.01'	26.01'	S 81°56'38" E	7 053 677.15	11 799 663.14
C-12	0°46'24"	2000.00'	26.99'	13.50'	26.99'	S 82°40'47" E	7 056 170.11	11 796 534.78
C-13	3°06'49"	3000.00'	163.03'	81.53'	163.01'	S 83°50'59" E	7 052 911.28	11 800 327.20
C-14	3°44'12"	2500.00'	163.04'	81.55'	163.02'	S 87°16'30" E	7 053 179.22	11 799 903.06
C-15	3°12'09"	2000.00'	111.79'	55.91'	111.77'	N 89°15'20" E	7 053 366.28	11 799 427.83
C-16	0°29'26"	2000.00'	17.13'	8.56'	17.13'	N 87°53'58" E	7 054 493.44	11 795 458.92

CURVE	DELTA	RADIUS	ARC	TAN	CHORD	CHORD BEARING	RADIUS POINT COORDINATE LISTING NORTHING	EASTING
C-17	00°35'59"	10000.00'	104.71'	52.35'	104.71'	N 87°34'18" E	7 048 207.51	11 805 684.34
C-18	2°06'40"	2500.00'	92.12'	46.06'	92.11'	N 86°12'58" E	7 051 556.45	11 798 960.61
C-19	2°48'11"	2500.00'	122.30'	61.16'	122.29'	N 86°33'43" E	7 053 868.98	11 794 527.53
C-20	0°28'50"	10000.00'	83.85'	41.93'	83.85'	N 87°43'24" E	7 047 354.15	11 805 198.04
C-21	3°51'10"	500.00'	33.62'	16.82'	33.61'	N 85°35'57" E	7 051 723.76	11 796 749.91
C-22	3°48'37"	500.00'	33.25'	16.63'	33.24'	N 85°34'40" E	7 052 163.09	11 795 851.58
C-23	2°56'22"	500.00'	25.65'	12.83'	25.65'	N 88°57'10" E	7 052 132.39	11 795 833.95
C-24	2°54'46"	2000.00'	101.68'	50.85'	101.67'	N 88°57'57" E	7 050 777.72	11 797 935.11
C-25	3°01'29"	500.00'	26.40'	13.20'	26.39'	N 85°59'49" E	7 051 420.13	11 796 574.21
C-26	3°27'14"	500.00'	30.14'	15.07'	30.14'	N 86°12'42" E	7 051 872.15	11 795 682.20
C-27	4°14'31"	3500.00'	259.13'	129.62'	259.07'	S 89°56'26" E	7 053 247.26	11 793 011.01
C-28	1°46'04"	1000.00'	30.85'	15.43'	30.85'	S 88°42'12" E	7 050 693.97	11 796 716.51
C-29	6°24'32"	3000.00'	335.56'	167.96'	335.39'	S 86°22'58" E	7 052 860.88	11 793 354.29
C-30	5°51'47"	3500.00'	358.15'	179.23'	358.00'	S 80°14'49" E	7 053 117.50	11 792 918.35
C-31	2°10'01"	1000.00'	37.83'	18.92'	37.83'	S 78°23'57" E	7 049 359.01	11 795 522.37
C-32	2°10'01"	1000.00'	37.83'	18.92'	37.83'	S 78°23'57" E	7 050 651.48	11 793 993.17

NO.	DATE	BY	REVISION

LCSA
LOUDOUN COUNTY SANITATION AUTHORITY

LOUDOUN COUNTY SANITATION AUTHORITY
880 HARRISON STREET, SE
LEESBURG, VIRGINIA 20177
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COMMONWEALTH OF VIRGINIA
R. SCOTT QUAST
024784
10/19/05
PROFESSIONAL ENGINEER

SCALE HORIZ:	AS SHOWN
VERT:	AS SHOWN
DATE:	OCTOBER 2005
DRAWN BY:	MBJ
CHECKED BY:	GBC/GLH
APPROVED BY:	RSQ

PROJECT NO. W-146A
JOB NO. 105813
CADD FILE W146-03.dwg

LOUDOUN COUNTY SANITATION AUTHORITY
W-146A, STERLING BOULEVARD WATER MAIN – PHASE I
STERLING ELECTION DISTRICT, LOUDOUN COUNTY

SURVEY CONTROL PLAN

DRAWING 3 OF 28 SHEETS