

**HORIZONTAL CONTROL:**

POINT NO. 100  
N. 4960.39 E. 3108.02  
WL NO. 1, BL STA. 10+00.00  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 101  
N. 5000.00 E. 5000.00  
WL NO. 6, BL STA. 21+28.58=  
WL NO. 1, BL STA. 28+91.97, 39.98' LEFT  
FOUND 3/4" I.P. IN THIMBLE AT CL OF MARTINSON AVE. AND NORTH R/W LINE OF McCORMICK AVE.

POINT NO. 102  
N. 5000.00 E. 4630.12  
WL NO. 5, BL STA. 10+00=  
WL NO. 1, BL STA. 25+22.09, 39.90' LEFT  
FOUND 3/4" I.P. IN THIMBLE AT CL ELIZABETH AVE. AND NORTH R/W OF McCORMICK AVE.

POINT NO. 103  
N. 5719.88 E. 4999.09  
WL NO. 6, BL STA. 14+08.70=  
DAYTON BL STA. 10+00.00  
FOUND CHISLED "+" AT CL MARTINSON AVE. AND DAYTON AVE.

POINT NO. 104  
N. 4034.56 E. 5003.18  
WL NO. 6, BL STA. 30+94.03=  
WL NO. 9, BL STA. 25+04.72  
FOUND 3/4" I.P. IN THIMBLE AT CL MARTINSON AVE. AND STILLWELL AVE.

POINT NO. 107  
N. 4999.85 E. 4255.13  
WL NO. 4, BL STA. 10+00=  
WL NO. 1, BL STA. 21+47.10, 39.68' LEFT  
FOUND 3/4" I.P. IN THIMBLE AT CL FERN AVE. AND NORTH R/W LINE OF McCORMICK AVE.

POINT NO. 108  
N. 5000.07 E. 3875.21  
WL NO. 3, BL STA. 10+00.00=  
WL NO. 1, BL STA. 17+67.18, 39.83' LEFT  
FOUND 3/4" I.P. IN THIMBLE AT CL MILLWOOD AVE. AND NORTH R/W LINE OF McCORMICK AVE.

POINT NO. 109  
N. 3640.16 E. 3868.78  
WL NO. 3, BL STA. 23+71.01=  
WALKER BL STA. 13+77.59  
FOUND CHISLED "+" AT CL MILLWOOD AVE. AND WALKER AVE.

POINT NO. 111  
N. 5000.31 E. 3494.97  
WL NO. 2, BL STA. 10+00=  
WL NO. 1, BL STA. 13+86.94, 40' LEFT  
FOUND 3/4" I.P. IN THIMBLE AT CL VINE AVE. AND NORTH R/W LINE OF McCORMICK AVE.

POINT NO. 112  
N. 4424.98 E. 3497.08  
WL NO. 2, BL STA. 15+75.34=  
WL NO. 9, BL STA. 10+00.00  
FOUND 3/4" I.P. IN THIMBLE AT CL VINE AVE. AND IRVING AVE.

POINT NO. 113  
N. 4034.93 E. 3498.37  
WL NO. 2, BL STA. 19+65.39=  
WL NO. 9, BL STA. 10+00.00  
FOUND 3/4" I.P. IN THIMBLE AT CL VINE AVE. AND STILLWELL AVE.

POINT NO. 114  
N. 3640.23 E. 3491.19  
WL NO. 2, BL STA. 23+68.57=  
WALKER BL STA. 10+00.00  
FOUND 3/4" I.P. IN THIMBLE AT CL VINE AVE. AND WALKER AVE.

POINT NO. 115  
N. 4959.84 E. 5940.59  
WL NO. 1, BL STA. 38+32.57=  
SENECA BL STA. 10+00.00  
FOUND 1/2" I.P. IN THIMBLE AT CL McCORMICK AVE. AND SENECA ST.

POINT NO. 116  
N. 4920.65 E. 6465.36  
WL NO. 1, BL STA. 43+57.28, 40' RIGHT  
WALNUT BL STA. 10+40.01  
FOUND 3/4" I.P. IN THIMBLE AT CL WALNUT ST. AND SOUTH R/W LINE OF McCORMICK AVE.

POINT NO. 117  
N. 5000.15 E. 5370.42  
WL NO. 7, BL STA. 10+00=  
WL NO. 1, BL STA. 32+62.39, 40.20' LEFT  
FOUND 3/4" I.P. IN THIMBLE AT CL DODGE AVE. AND NORTH R/W LINE OF McCORMICK AVE.

POINT NO. 118  
N. 4034.69 E. 5338.53  
WL NO. 7, BL STA. 19+65.35, 35' RIGHT=  
WL NO. 9, BL STA. 28+40.07  
FOUND 3/4" I.P. IN THIMBLE AT CL STILLWELL AVE. AND WEST R/W LINE OF DODGE AVE.

POINT NO. 119  
N. 3639.96 E. 5004.52  
WL NO. 6, BL STA. 34+88.62=  
WALKER BL STA. 25+13.33  
FOUND 3/4" I.P. IN THIMBLE AT CL MARTINSON AVE. AND WALKER AVE.

POINT NO. 120  
N. 4034.67 E. 3878.52  
WL NO. 3, BL STA. 19+65.24=  
WL NO. 9, BL STA. 13+80.08  
FOUND 3/4" I.P. IN THIMBLE AT CL MILLWOOD AVE. AND STILLWELL AVE.

POINT NO. 121  
N. 3180.40 E. 3868.28  
WL NO. 3, BL STA. 28+30.77=  
WL NO. 8, BL STA. 13+77.59  
FOUND 1" I.P. AT CL MILLWOOD AVE. AND DOOLEY AVE.

POINT NO. 122  
N. 4589.73 E. 6466.37  
WL NO. 10, BL STA. 41+34.04=  
WALNUT BL STA. 13+70.93  
FOUND 1 1/4" I.P. IN THIMBLE AT CL WALNUT ST. AND IRVING AVE.

POINT NO. 123  
N. 4590.17 E. 6687.19  
WL NO. 10, BL STA. 43+54.87=  
WL NO. 11, BL STA. 10+00.00  
FOUND PK NAIL SET IN 1 1/2" I.P. IN THIMBLE AT CL IRVING AVE. AND HANDLEY ST.

POINT NO. 124  
N. 4589.67 E. 7061.95  
WL NO. 10, BL STA. 47+29.64=  
OSAGE BL STA. 15+24.72  
FOUND 3/4" I.P. IN THIMBLE AT CL IRVING AVE. AND OSAGE ST.

POINT NO. 125  
N. 4103.60 E. 6688.54  
WL NO. 11, BL STA. 14+86.57=  
WL NO. 9, BL STA. 42+57.40  
FOUND 3/4" I.P. IN THIMBLE AT CL HANDLEY ST. AND STILLWELL AVE.

POINT NO. 129  
N. 4961.49 E. 6994.59  
WL NO. 1, BL STA. 48+86.57  
OSAGE BL STA. 10+00.00  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 130  
N. 3640.23 E. 3499.67  
WL NO. 2, BL STA. 23+60.09=  
WALKER BL STA. 10+08.48  
COULD NO OPEN THIMBLE, OFFICE CALCULATED POINT

POINT NO. 131  
N. 4424.88 E. 3877.18  
WL NO. 3, BL STA. 15+75.19=  
WL NO. 10, BL STA. 13+80.10  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 132  
N. 3640.16 E. 3879.87  
WL NO. 3, BL STA. 23+59.92=  
WALKER BL STA. 13+88.68  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 133  
N. 3180.47 E. 3491.69  
WL NO. 2, BL STA. 28+28.33=  
WL NO. 8, BL STA. 10+00.00  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 134  
N. 4424.79 E. 4256.99  
WL NO. 3, BL STA. 15+75.06=  
WL NO. 10, BL STA. 17+59.91  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 135  
N. 4034.74 E. 4258.25  
WL NO. 4, BL STA. 19+65.12=  
WL NO. 9, BL STA. 17+59.80  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 136  
N. 3640.09 E. 4259.52  
WL NO. 4, BL STA. 23+59.77=  
WALKER BL STA. 17+68.34  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 137  
N. 3640.09 E. 4249.78  
WL NO. 4, BL STA. 23+69.51=  
WALKER BL STA. 17+58.59  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 138  
N. 3180.32 E. 4250.28  
WL NO. 4, BL STA. 28+29.29=  
WL NO. 8, BL STA. 17+58.59  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 139  
N. 4424.70 E. 4631.94  
WL NO. 5, BL STA. 15+75.36=  
WL NO. 10, BL STA. 21+34.86  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 140  
N. 4034.65 E. 4633.17  
WL NO. 5, BL STA. 19+65.36=  
WL NO. 10, BL STA. 21+34.72  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 141  
N. 3640.03 E. 4634.42  
WL NO. 5, BL STA. 23+59.98=  
WALKER BL STA. 21+43.23  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 142  
N. 3640.03 E. 4625.78  
WL NO. 5, BL STA. 23+70.22=  
WALKER BL STA. 21+32.99  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 143  
N. 6128.58 E. 4998.49  
WL NO. 6, BL STA. 10+00.00  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 144  
N. 4424.61 E. 5001.89  
WL NO. 6, BL STA. 27+03.97=  
WL NO. 10, BL STA. 25+04.81  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 145  
N. 3639.96 E. 4996.78  
WL NO. 6, BL STA. 34+96.36=  
WALKER BL STA. 25+05.59  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 146  
N. 4424.52 E. 5372.27  
WL NO. 7, BL STA. 15+75.63=  
WL NO. 10, BL STA. 28+75.19  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 147  
N. 4588.71 E. 5941.55  
WL NO. 10, BL STA. 36+09.23=  
SENECA BL STA. 13+71.13  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 148  
N. 3434.96 E. 4997.00  
WL NO. 6, BL STA. 37+01.37  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 149  
N. 3640.07 E. 5374.80  
WL NO. 7, BL STA. 23+60.09=  
WALKER BL STA. 28+63.61  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 150  
N. 3640.06 E. 5367.77  
WL NO. 7, BL STA. 23+67.11=  
WALKER BL STA. 28+76.59  
OFFICE CALCULATED POINT (NO MONUMENT)

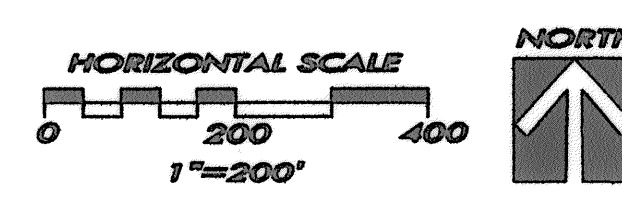
POINT NO. 151  
N. 3580.09 E. 5367.87  
WL NO. 7, BL STA. 24+47.09  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 152  
N. 4034.92 E. 5942.99  
WL NO. 9, BL STA. 34+44.54=  
SENECA BL STA. 19+24.93  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 153  
N. 4102.14 E. 5942.82  
WL NO. 9, BL STA. 35+11.77  
SENECA BL STA. 18+57.70  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 154  
N. 4424.38 E. 5941.98  
WL NO. 10, BL STA. 34+44.88  
SENECA BL STA. 15+35.46  
OFFICE CALCULATED POINT (NO MONUMENT)

POINT NO. 155  
N. 3260.02 E. 4624.59  
WL NO. 5, BL STA. 27+50.23  
OFFICE CALCULATED POINT (NO MONUMENT)



Design Survey: December 2006

**BENCHMARK LIST:**

- BM 1 - BRASS ROD IN CONCRETE POST AT NW CORNER OF McCORMICK AND GLENN, LOCATED UNDER WATER METER COVER. 32.00' WEST OF CL GLENN. ELEV. = 106.48
- BM 2 - CHISLED "+" IN CONCRETE SIDEWALK, AT R/W P.I., LOCATED AT THE SOUTHWEST CORNER OF McCORMICK AVE. AND SENECA ST. ELEV. = 107.65
- BM 201 - TOP OF 3/4" I.P. IN THIMBLE AT CL MARTINSON AVE. AND NORTH R/W LINE OF McCORMICK AVE. ELEV. = 107.01
- BM 202 - TOP OF 3/4" I.P. IN THIMBLE AT CL ELIZABETH AVE. AND NORTH R/W LINE OF McCORMICK AVE. ELEV. = 106.23
- BM 203 - CHISLED "+" IN CONCRETE, AT CL MARTINSON AVE. AND DAYTON AVE. ELEV. =
- BM 204 - TOP OF 3/4" I.P. IN THIMBLE AT CL MARTINSON AVE. AND STILLWELL AVE. ELEV. = 105.74
- BM 207 - TOP OF 3/4" I.P. IN THIMBLE AT CL FERN AVE. AND NORTH R/W LINE OF McCORMICK AVE. ELEV. = 106.58
- BM 208 - TOP OF 3/4" I.P. IN THIMBLE AT CL MILLWOOD AVE. AND NORTH R/W LINE OF McCORMICK AVE. ELEV. = 106.44
- BM 209 - CHISLED "+" IN CONCRETE AT CL MILLWOOD AVE. AND WALKER AVE. ELEV. = 104.62
- BM 211 - TOP OF 3/4" I.P. IN THIMBLE AT CL VINE ST. AND NORTH R/W LINE OF McCORMICK AVE. ELEV. = 106.01
- BM 212 - TOP OF 3/4" I.P. IN THIMBLE AT CL VINE ST. AND IRVING AVE. ELEV. = 104.78
- BM 213 - TOP OF 3/4" I.P. IN THIMBLE AT CL VINE ST. AND STILLWELL AVE. ELEV. = 104.26
- BM 214 - TOP OF 3/4" I.P. IN THIMBLE AT CL VINE ST. (LOOKING SOUTH) AND WALKER AVE. ELEV. = 104.14
- BM 216 - TOP OF 3/4" I.P. IN THIMBLE AT CL WALNUT ST. AND SOUTH R/W LINE OF McCORMICK AVE. ELEV. = 106.72
- BM 217 - TOP OF 3/4" I.P. IN THIMBLE AT CL DODGE AVE. AND NORTH R/W LINE OF McCORMICK AVE. ELEV. = 107.69
- BM 218 - TOP OF 3/4" I.P. IN THIMBLE AT CL STILLWELL AVE. AND WEST R/W LINE OF DODGE AVE. ELEV. = 106.19
- BM 219 - TOP OF 3/4" I.P. IN THIMBLE AT CL MARTINSON AVE. (LOOKING NORTH) AND WALKER AVE. ELEV. = 104.96
- BM 220 - TOP OF 3/4" I.P. IN THIMBLE AT CL MILLWOOD AVE. AND STILLWELL AVE. ELEV. = 104.98
- BM 222 - TOP OF 1 1/4" I.P. IN THIMBLE AT CL WALNUT ST. AND IRVING AVE. ELEV. = 106.55
- BM 223 - TOP OF 1 1/2" I.P. IN THIMBLE AT CL IRVING AVE. AND HANDLEY ST. ELEV. = 106.14

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**HORIZONTAL AND VERTICAL CONTROL**

**McCormicks Water Main Replacement**

*City of Wichita, Sedgwick County, Kansas*

PROJECT NO.:	DATE:	BY:	APP.:
2-15-07	2-15-07		

REVISIONS	DATE	COMMENTS

SHEET

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