



**BENCHMARK LIST**

- BM #1 - (DATUM BM) CHISELED SQUARE ON SOUTHEAST EDGE OF CONCRETE BASE OF METAL HIGHLINE POLE AT NORTHWEST CORNER OF 55TH STREET SOUTH AND OLIVER. ELEV. = 1309.19 (NGVD 29)
- BM #2 - RAILROAD SPIKE IN NORTH FACE OF POWER POLE, ONE POLE NORTH OF 55TH STREET, ON WEST SIDE OF K-15 HIGHWAY, ON EAST SIDE OF RAILROAD TRACKS. ELEV. = 1288.27 (NGVD 29)
- BM #3 - RAILROAD SPIKE IN SOUTH FACE OF CUT-OFF POWER POLE BEING USED AS A FENCE POST FOR RIGHT-OF-WAY FENCE ON NORTH SIDE OF 55TH STREET, EAST OF PERSHING STREET, BETWEEN K-15 AND OLIVER. ELEV. = 1299.36 (NGVD 29)
- BM #4 - CHISELED SQUARE ON WEST EDGE OF CONCRETE BASE OF METAL HIGHLINE POLE AT NORTHWEST CORNER OF 55TH STREET SOUTH AND OLIVER. ELEV. = 1309.08 (NGVD 29)
- BM #5 - CHISELED SQUARE ON TOP OF NORTH END OF RCP CULVERT NORTHEAST OF OF 55TH STREET AND K-15 HIGHWAY. ELEV. = 1287.24 (NGVD 29)
- BM #6 - CHISELED SQUARE ON TOP OF SOUTH EDGE OF CONCRETE BASE OF METAL HIGHLINE POLE, NORTH SIDE OF 55TH STREET SOUTH, NORTH OF WEST END OF NORTH LINE OF LOT 1, BLOCK "B", DERBY CORPORATE PARK ADDITION, AT CREST OF HILL AND FIRST POLE EAST OF A METAL GATE IN NORTH RIGHT-OF-WAY FENCE. ELEV. = 1347.71 (NGVD 29)

**CONTROL POINTS**

- BM #7 - CHISELED SQUARE ON CONCRETE BASE FOR METAL HIGHLINE POLE AT LOW GROUND, WEST OF SOUTH 1/16 CORNER FOR SOUTHEAST 1/4 OF SECTION 24-28-1E, QUARTER-MILE WEST OF WOODLAWN AND ON NORTH SIDE OF 55TH STREET. ELEV. = 1342.51 (NGVD 29)
- BM #8 - 60d STEP NAILS IN NORTH FACE OF POWER POLE ON SOUTH SIDE OF 55TH STREET, 750 FEET WEST OF WOODLAWN AVENUE. ELEV. = 1338.89 (NGVD 29)
- BM #9 - CHISELED SQUARE ON CONCRETE BASE OF METAL HIGHLINE POLE NORTHEAST OF 55TH AND WOODLAWN. ELEV. = 1328.88 (NGVD 29)
- BM #10 - CHISELED SQUARE ON WEST END OF NORTH HURGUARD OF RCBC UNDER 55TH STREET, 500 FEET EAST OF WOODLAWN AVENUE. ELEV. = 1332.50 (NGVD 29)
- BM #12 - CHISELED CROSS ON ESE EDGE OF CONCRETE BASE FOR METAL HIGHLINE POLE, NORTHWEST OF SOUTH 1/4 CORNER FOR SECTION 19-28-2E, NORTH SIDE OF 55TH STREET, 1/2-MILE WEST OF ROCK ROAD. ELEV. = 1355.73 (NGVD 29)
- BM #13 - CHISELED SQUARE SET ON SOUTHEAST EDGE OF CONCRETE BASE FOR METAL HIGHLINE POLE ON NORTH SIDE OF 55TH STREET AND ON WEST SIDE OF 55TH COURT, 350 FEET WEST OF WHITTIER STREET. ELEV. = 1360.04 (NGVD 29)
- BM #14 - CHISELED SQUARE IN TOP-CENTER OF HEADWALL FOR SOUTH END OF CULVERT, SW OF 55TH AND ROCK ROAD. ELEV. = 1362.38 (NGVD 29)

- PL No. 214  
N: 1,651,417.1228, E: 1,664,311.9635  
60d Nail in gravel.  
1. N. side of 55th St.  
2. W. side of K-15  
3. 16.5' S. to N. edge of concrete pavement  
4. 17.75' NW. to head of RR Spike in E. face of pole  
5. 38.8' WSW. to centerline East rail of BNSF RR
- PL No. 210  
N: 1,651,282.2425, E: 1,664,600.4854  
PK Nail in asphalt.  
1. E. side of frontage road E. of K-15  
2. 100'± N. to centerline 55th St.  
3. 1'± E. to E. edge of asphalt  
4. In line with overhead electric E. only  
5. 68' NNE. to S. end RCE
- PL No. 209  
N: 1,651,437.5026, E: 1,664,594.5222  
#4 Rebar in ditch.  
1. NE. of intersection of 55th Street and K-15 Highway  
2. 23.9' E. to center of cutoff power pole  
3. 5.2' S. to line of barbed wire fence East  
4. 27.3' WSW. to top of N. end RCE
- PL No. 101  
N: 1,651,386.9345, E: 1,665,739.6643  
#4 Rebar in grass  
1. SW. of intersection of 55th and Buckner  
2. NE. of N. end of Oliver (cut-de-sac)  
3. 9.7' N. to back of curb E-W.  
4. 19' W. to centerline of Oliver South.  
5. 20.1' ENE. to SW. corner of SDG
- PL No. 102  
N: 1,652,135.0563, E: 1,665,731.2856  
#4 Rebar  
1. 718.47' S. to SE. Corner Sec. 23-28-1E  
2. 80.13' SE. to NW. bolt on highline pole base  
3. 30.5' E. to centerline of line of poles N-S
- PL No. 215  
N: 1,651,479.2616, E: 1,667,980.1359  
#4 Rebar in grass  
1. N. of 55th Street  
2. At crest of first hill East of Oliver  
3. 26' W. to centerline of field entrance  
4. 8' S. to N. edge of asphalt  
5. 121.07' ENE. to BM #6

- PL No. 216  
N: 1,651,509.2853, E: 1,669,657.3057  
60d Nail  
1. North side of 55th Street  
2. W. edge of field entrance at SE. corner of addr. #5910  
3. 219.69' WNW. to Chs. "d" on highline pole base, BM #7  
4. 5' S. to N. edge of asphalt  
5. 7.5' E. to line of 3 poles North
- PL No. 217  
N: 1,651,491.0314, E: 1,671,029.5004  
PK Nail in asphalt  
1. South of 55th Street  
2. W. edge of Woodlawn  
3. 31.16' NNW. to SW. corner Sec. 19-28-2E  
4. 21.8' W. to centerline of power pole  
5. 2.2' SW to edge of asphalt
- PL No. 218  
N: 1,651,485.3359, E: 1,671,025.0773  
Rebar in grass, with cap "Control Point"  
1. 4.8' NE. to SW. edge of asphalt  
2. 10.8' W. to centerline of Woodlawn, North  
3. 34.5' N. to centerline of 55th Street  
4. 7.2' NE. to PL No. 217
- PL No. 219  
N: 1,651,597.3547, E: 1,673,883.7313  
PK Nail in asphalt  
1. NE. corner of intersection of 55th St. S. & 55th St. CL  
2. West of Whittier Street  
3. 4.5' NE. to edge of asphalt  
4. 20' S. to centerline of 55th Street  
5. 83.95' WNW. to Chs. "d" on highline pole base, BM #13
- PL No. 230  
N: 1,651,577.1256, E: 1,674,812.0065  
#4 Rebar in field entrance  
1. South of 55th Street, E. side of field entrance  
2. South of 5th steel highline pole W. of Rock Rd.  
3. 7' N to South edge of asphalt  
4. 10.5' W. to centerline of field entrance  
5. 30.74' SSE. to IRP
- PL No. 220  
N: 1,651,642.9843, E: 1,676,184.9252  
#4 Rebar in gravel at NE. corner of 55th and Rock Rd.  
1. 2' NE. to edge of gravel  
2. 24.7' E. to Chs. "d" on headwall  
3. 17' S. to centerline of road West

**SECTION CORNERS**

- PL No. 208, S 1/4 Corner, Sec. 23, T28S, R1E  
N: 1,651,357.0380, E: 1,663,077.8441  
Found 1/2" Iron Pipe, 0.8' Deep  
1. In centerline of Oliver road North & South  
2. 40.13' S to 5/8" rebar with SRB Cap between two "T" posts  
3. 59.30' NE to 3 nails in top of barricade fence post  
3. 71.92' NW to 3 nails in SW face of power pole  
4. 1' N to centerline of pavement
- PL No. 207, West 1/4 Corner, Sec. 24, T28S, R1E  
N: 1,654,044.8680, E: 1,665,671.6849  
Found 5/8" Rebar and Cap, 3' below asphalt surface  
1. In centerline of Oliver road North & South  
2. 39.90' NE to "X" cut on top of curb on N side of driveway  
3. 34.62' SE to "X" cut on top of curb under high voltage lines  
4. 34.31' SW to "X" cut on top of curb under high voltage lines  
5. 36.54' NW to "X" cut on top of curb  
6. 51.46' E to 3 nails in South face of treated fence corner post
- PL No. 206, SW Corner, Sec. 24, T28S, R1E  
N: 1,651,416.6868, E: 1,665,720.2452  
Found 5/8" Rebar with Yellow Cap at asphalt surface  
1. 45.02' SE to chiseled cross on face of storm water curb inlet  
2. 70.77' SE to 3 nails in SW face of power pole  
3. 55.30' SW to 60d nail in SE face of power pole  
4. 59.83' NW to nail & washer in South face of guy pole  
5. 45.05' NE to chiseled cross on face of storm water curb inlet
- PL No. 248, South 1/4 Corner, Sec. 24, T28S, R1E  
N: 1,651,466.7594, E: 1,668,362.7380  
Found 1/2" Iron Pipe, 0.2' deep  
1. 66.43' N to 3 nails in top of North gate post  
2. 90.19' NE to 3 nails in top of power pole  
3. 96.90' ENE to "X" cut on South side of concrete base for metal power pole  
4. 88.58' ESE to "X" cut on top of West end of RCP culvert  
5. 48.89' SE to upper set of 3 nails in SW face of power pole

- PL No. 249, SW Corner, Sec. 19, T28S, R2E  
N: 1,651,518.3757, E: 1,671,014.5543  
Found 1/2" Rebar, 0.2' deep  
1. 50.64' NE to 3 nails in SE face of power pole  
2. 47.69' NW to 3 nails in NE face of power pole  
3. 77.08' SE to 3 nails in NE face of power pole  
4. 1' N to centerline of East-West road
- PL No. 250, South 1/4 Corner, Sec. 19, T28S, R2E  
N: 1,651,567.9888, E: 1,673,488.2610  
Found 5/8" Rebar, 0.6' deep  
1. 40.91' N to 3 nails in SE face of fence corner post  
2. 58.95' S to 60d nail in West face of power pole  
3. 41.16' SSW to 3 nails in top of fence post  
4. 57.75' SW to 3 nails in top of fence post  
5. 52.84' NW to chiseled cross in top of concrete base for metal power pole
- PL No. 251, SW Corner, Sec. 20, T28S, R2E  
N: 1,651,626.1972, E: 1,676,146.8022  
Found 5/8" Rebar, 0.3' deep  
1. 64.97' ENE to chiseled cross on West end of headwall  
2. 64.96' ESE to chiseled cross on West end of headwall  
3. 65.59' WNW to chiseled cross on East end of headwall  
4. 65.47' WSW to chiseled cross on East end of headwall  
5. 16' W to centerline of Rock Road

**RECORD DRAWINGS**  
 CONTRACTOR: Nowak Construction Company Inc.  
 INSPECTOR: Charles Daniels, Professional Engineering Consultants, P.A.  
 .pdf by: CD 4/15/11  
 Inspectors Initials Date

Saved 05-31-2011 1:08:30 PM by JAV  
 Plot Scale 1:400 06-01-2011 3:37:37 PM by CSJ  
 C:\2010\10335\Draw\_35\K15\_Rock\10335-DW-35-C-Hdr\_Central\_Map



No.	Revision	By	Date
<b>SEDGWICK COUNTY RURAL WATER DISTRICT NO. 3</b> WATERLINE IMPROVEMENTS <b>HORIZONTAL AND VERTICAL CONTROL</b> 55TH STREET SOUTH - K15 TO ROCK ROAD			
<b>PEC</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com			
Designed by	MDK, JDC	Job No.	35-10335-4597
Drawn by	CSL, RFT	Date	APRIL 2011
			Sht. 3 of 21