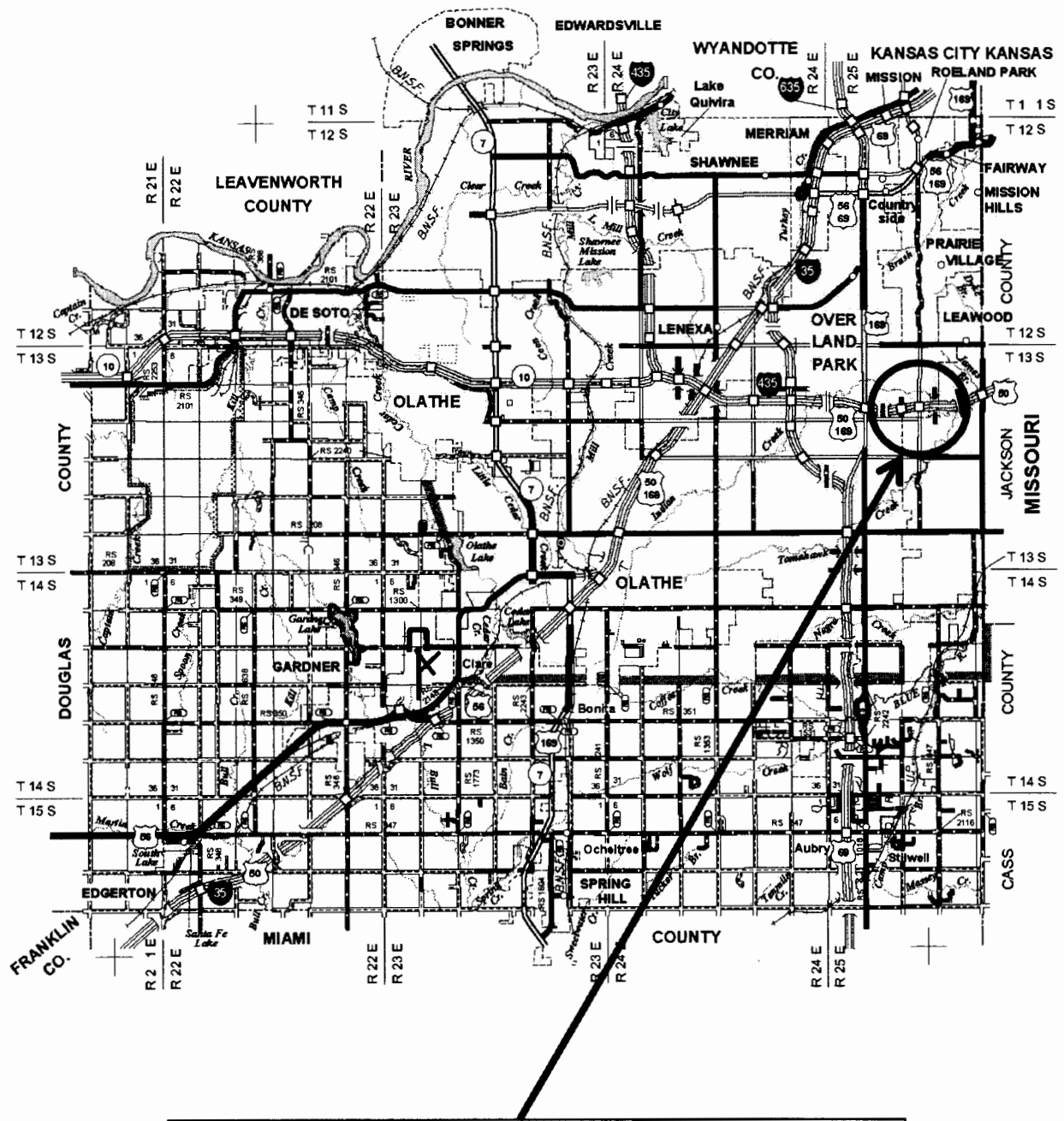




KA-2100-01 Roe Ave. over I-435

Overland Park, Johnson County

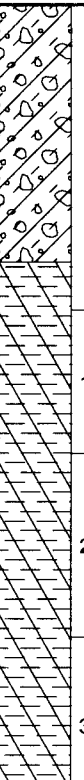
CD 02

N: 38.932079 E: -94.639365 (Approximate)

NE ¼, SW ¼, Section 9, T13S, R25E

10/21/2012

RTE./CO.	I-435 / Johnson	SOUNDING NO.	CD 02	SHEET 1 of 3	
BRIDGE STA.	370+83.49	PROJ. NO.	435-46 KA-2100-01	BRIDGE NONB1.75(415)&SB1.74(418)	
SITE NAME	NB & SB Roe over I-435			HOLE STA.	216+95, 70.0' Rt CL
GEOLOGIST	R. Crow, P.G.	SCALE 1 inch = 5.0 feet		DATE	August 21, 2012
DRILLER	R. Vervynck	RIG TYPE	CME 55	TOP HOLE ELEV.	903.05
GW ELEV.	896.2	TOTAL DEPTH	56.3	M/B ELEV.	896.05

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
8" Hollow Augers	Mantle			903.1	Silty clay, tan/brown/gray fill material, gravel				
					Sample was impossible to trim				897.95
NQ2 Diamond	Chanute Shale Formation		7.0	896.1	Shale, clayey, tan/brown/olive/maroon/green occasional shear planes				
						5.4	549000	890.85	
						1.4	113000	889.85	
	Dryden Limestone Formation		22.0 22.1 22.5	881.1 881.0 880.6	Limestone, broken Shale, greenish gray Limestone, gray-white, wavy bedded				
						255	2.04E+08	877.45	
			28.9	874.2	Shale, greenish gray with dark gray				

KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	I-435 / Johnson	SOUNDING NO.	CD 02	SHEET 2 of 3
BRIDGE STA.	370+83.49	PROJ. NO.	435-46 KA-2100-01	BRIDGE NONB1.75(415)&SB1.74(418)
SITE NAME	NB & SB Roe over I-435			HOLE STA. 216+95, 70.0' Rt CL

BOREHOLE REPORT - KANSAS DOT GDT - 11/26/12 09:23 - Q:\GEOLOGY\BRIDGE\435-46 KA-2100-01\KA-2100-01 ROE OVER I-435.GPJ

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
NQ2 Diamond	Quijra Shale Member		30.1	873.0	Shale, black, clayey	4.8	466000		871.65
			30.6	872.5	Shale, greenish gray				
			32.1	871.0	Shale, gray, limy				
			34.1	869.0	Shale, gray, limy most washed away				
	Westerville Limestone Member		37.1	866.0	Interbedded limestone and shale	338	1.55E+08		862.75
			38.2	864.9	Limestone, very hard, light gray to white, occasional vertical fractures, stylolitic seams				
	Wea Shale Member		44.2	858.9	Shale, very dark gray, laminar	700	1.85E+08		859.35
			55.6	847.5	Core lost				
			56.3	846.75	T.D. = 56.3				



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	I-435 / Johnson	SOUNDING NO.	CD 02	SHEET 3 of 3
BRIDGE STA.	370+83.49	PROJ. NO.	435-46 KA-2100-01	BRIDGE NONB1.75(415)&SB1.74(418)
SITE NAME	NB & SB Roe over I-435			HOLE STA. 216+95, 70.0' Rt CL

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION																																																																																			
					<table><thead><tr><th>Core</th><th>Depth</th><th>Elev.</th><th>Cut</th><th>Rec</th><th>Rec %</th><th>RQD</th></tr></thead><tbody><tr><td>1</td><td>8.3</td><td>894.75</td><td>3.9</td><td>3.9</td><td>100</td><td>46%</td></tr><tr><td>2</td><td>12.2</td><td>890.85</td><td>5.0</td><td>4.4</td><td>88</td><td>32%</td></tr><tr><td>3</td><td>17.2</td><td>885.85</td><td>4.8</td><td>4.8</td><td>100</td><td>0%</td></tr><tr><td>4</td><td>22.0</td><td>881.05</td><td>5.1</td><td>5.0</td><td>98</td><td>88%</td></tr><tr><td>5</td><td>27.1</td><td>875.95</td><td>5.0</td><td>5.0</td><td>100</td><td>70%</td></tr><tr><td>6</td><td>32.1</td><td>870.95</td><td>5.0</td><td>2.0</td><td>40</td><td>28%</td></tr><tr><td>7</td><td>37.1</td><td>865.95</td><td>5.0</td><td>5.0</td><td>100</td><td>44%</td></tr><tr><td>8</td><td>42.1</td><td>860.95</td><td>5.0</td><td>4.0</td><td>80</td><td>80%</td></tr><tr><td>9</td><td>47.1</td><td>855.95</td><td>4.2</td><td>5.2</td><td>124</td><td>80%</td></tr><tr><td>10</td><td>51.3</td><td>851.75</td><td>5.0</td><td>4.3</td><td>86</td><td>86%</td></tr><tr><td>Total</td><td>56.3</td><td>846.75</td><td>48.0</td><td>43.6</td><td>91</td><td>56%</td></tr></tbody></table>	Core	Depth	Elev.	Cut	Rec	Rec %	RQD	1	8.3	894.75	3.9	3.9	100	46%	2	12.2	890.85	5.0	4.4	88	32%	3	17.2	885.85	4.8	4.8	100	0%	4	22.0	881.05	5.1	5.0	98	88%	5	27.1	875.95	5.0	5.0	100	70%	6	32.1	870.95	5.0	2.0	40	28%	7	37.1	865.95	5.0	5.0	100	44%	8	42.1	860.95	5.0	4.0	80	80%	9	47.1	855.95	4.2	5.2	124	80%	10	51.3	851.75	5.0	4.3	86	86%	Total	56.3	846.75	48.0	43.6	91	56%			
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