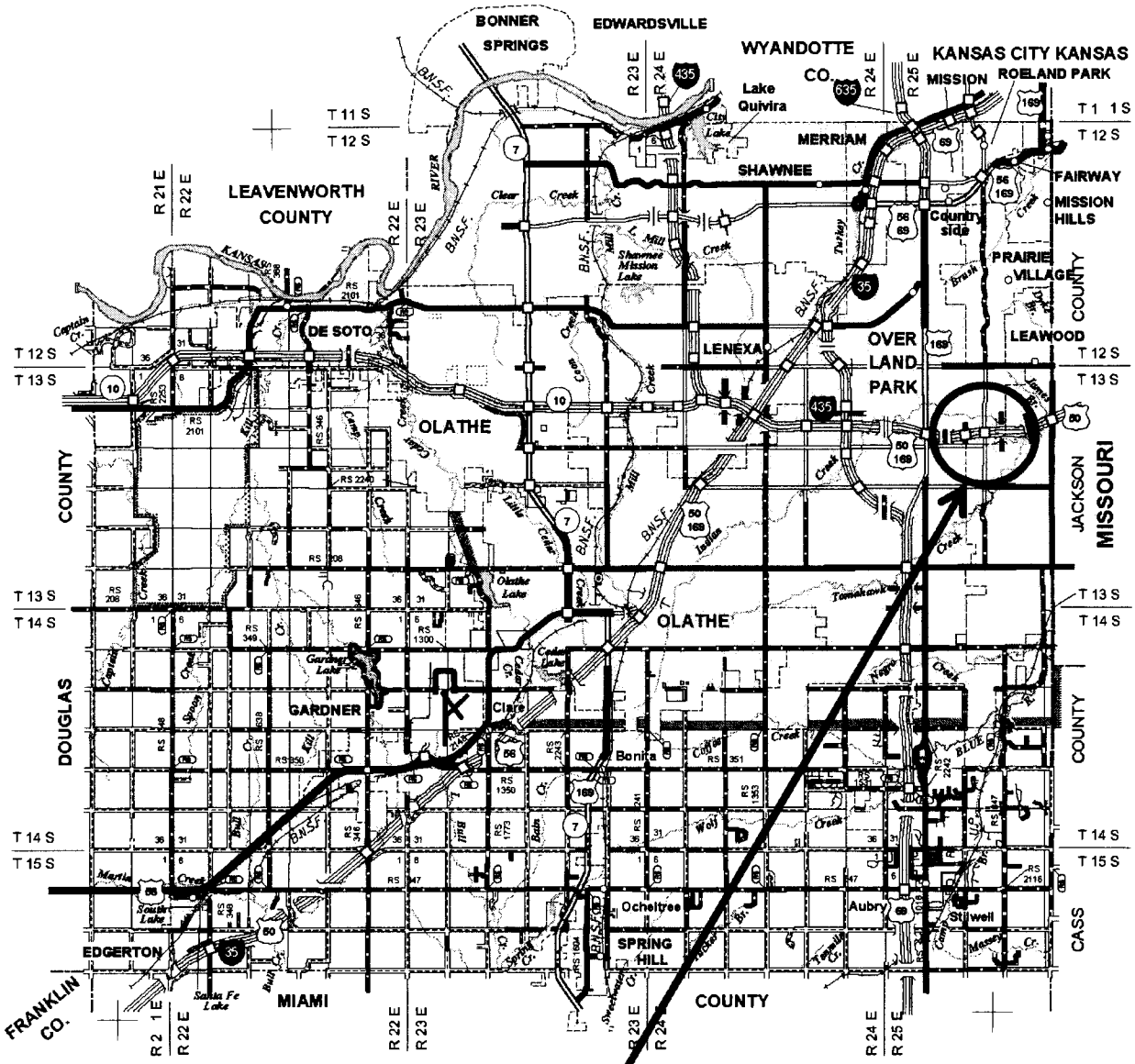

KA-2100-01 Roe Ave. over I-435

Overland Park, Johnson County

CD 01

N: 38.932957 E: -94.639803 (Approximate)

NE ¼, SW ¼, Section 9, T13S, R25E

10/20/2012

KANSAS DEPARTMENT OF TRANSPORTATION

Kansas Department of Transportation

RTE./CO.	I-435 / Johnson	SOUNDING NO.	CD 01	SHEET 1 of 3	
BRIDGE STA.	369+99.28	PROJ. NO.	435-46 KA-2100-01	BRIDGE NO	NB1.75(415)&SB1.74(418)
SITE NAME	NB & SB Roe over I-435			HOLE STA.	219+35, 49.0' Lt CL
GEOLOGIST	R. Crow, P.G.	SCALE 1 inch = 5.0 feet		DATE	August 20, 2012
DRILLER	R. Vervynck	RIG TYPE	CME 55	TOP HOLE ELEV.	873.01
GW ELEV.	862.5	TOTAL DEPTH	51.8	M/B ELEV.	870.01

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				873.0	Limestone rubble, silty clay, fill material				
	Quivira Shale Mbr.	1	3.0	870	870.0	Limestone	383	1.59E+08		869.41
			3.9		869.1	Shale, gray, limy				
			4.1		868.9	Limestone				
			4.6		868.4	Shale, gray				
NQ2 Diamond	Westerville Limestone Mbr.	2	7.7	865	865.3	Limestone, nearly white, hard, wavy-bedded, slightly pitted, stylolytic seams	915	2.05E+08		863.11
				860						
	Wea Shale Member	3	13.7		859.3	Shale, very dark gray, occasional vertical fractures	9.6	800000		857.01
		4		855			29	2260000		852.21
		5		850			35	2550000		848.51
		6								
		7		845			32	5300000		843.31

BOREHOLE REPORT - KANSAS DOT.GDT - 11/26/12 08:21 - Q:\GEOLOGY\BRIDGE\435-46 KA-2100-01\KA-2100-01 ROE OVER I-435.GPJ

KANSAS DEPARTMENT OF TRANSPORTATION

Kansas Department of Transportation

RTE./CO.	I-435 / Johnson	SOUNDING NO.	CD 01	SHEET 2 of 3	
BRIDGE STA.	369+99.28	PROJ. NO.	435-46 KA-2100-01	BRIDGE NO	NB1.75(415)&SB1.74(418)
SITE NAME	NB & SB Roe over I-435			HOLE STA.	219+35, 49.0' Lt 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
NQ2 Diamond	Wea Shale Member	7, 8, 9, 10, 11		840, 835, 830, 825		Shale, very dark gray, occasional vertical fractures	42	3110000		838.31
							23	2080000		831.41
			41.8		831.2	Shale, gray, laminar, limy, small white shell fossils				
	Block LS		45.2		827.8	Limestone, gray, hard	745	2.11E+08		826.81
			46.3		826.7	Limestone, very shaly, fossiliferous				
	Fontana Shale Mbr.		47.5		825.5	Shale, very dark gray, firm, laminar	102	2.15E+07		823.71
			51.8		821.21	T.D. = 51.8				

KANSAS DEPARTMENT OF TRANSPORTATION

Kansas Department of Transportation

RTE./CO.	I-435 / Johnson	SOUNDING NO.	CD 01	SHEET 3 of 3	
BRIDGE STA.	369+99.28	PROJ. NO.	435-46 KA-2100-01	BRIDGE NO.	NB1.75(415)&SB1.74(418)
SITE NAME	NB & SB Roe over I-435			HOLE STA.	219+35, 49.0' Lt 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

Core	Depth	Elev.	Cut	Rec	Rec %	RQD
1	3.0	870.01	4.7	4.7	100	40%
2	7.7	865.31	5.0	5.0	100	84%
3	12.7	860.31	5.0	3.3	66	66%
4	17.7	855.31	3.5	5.6	160	36%
5	21.2	851.81	1.5	0.9	60	37%
6	22.7	850.31	4.8	5.3	110	15%
7	27.5	845.51	5.0	4.1	82	82%
8	32.5	840.51	4.3	5.0	116	80%
9	36.8	836.21	5.0	5.1	102	92%
10	41.8	831.21	5.0	5.0	100	98%
11	46.8	826.21	5.0	5.0	100	100%
Total	**51.8**	**821.21**	**48.8**	**49.0**	**100**	**70%**