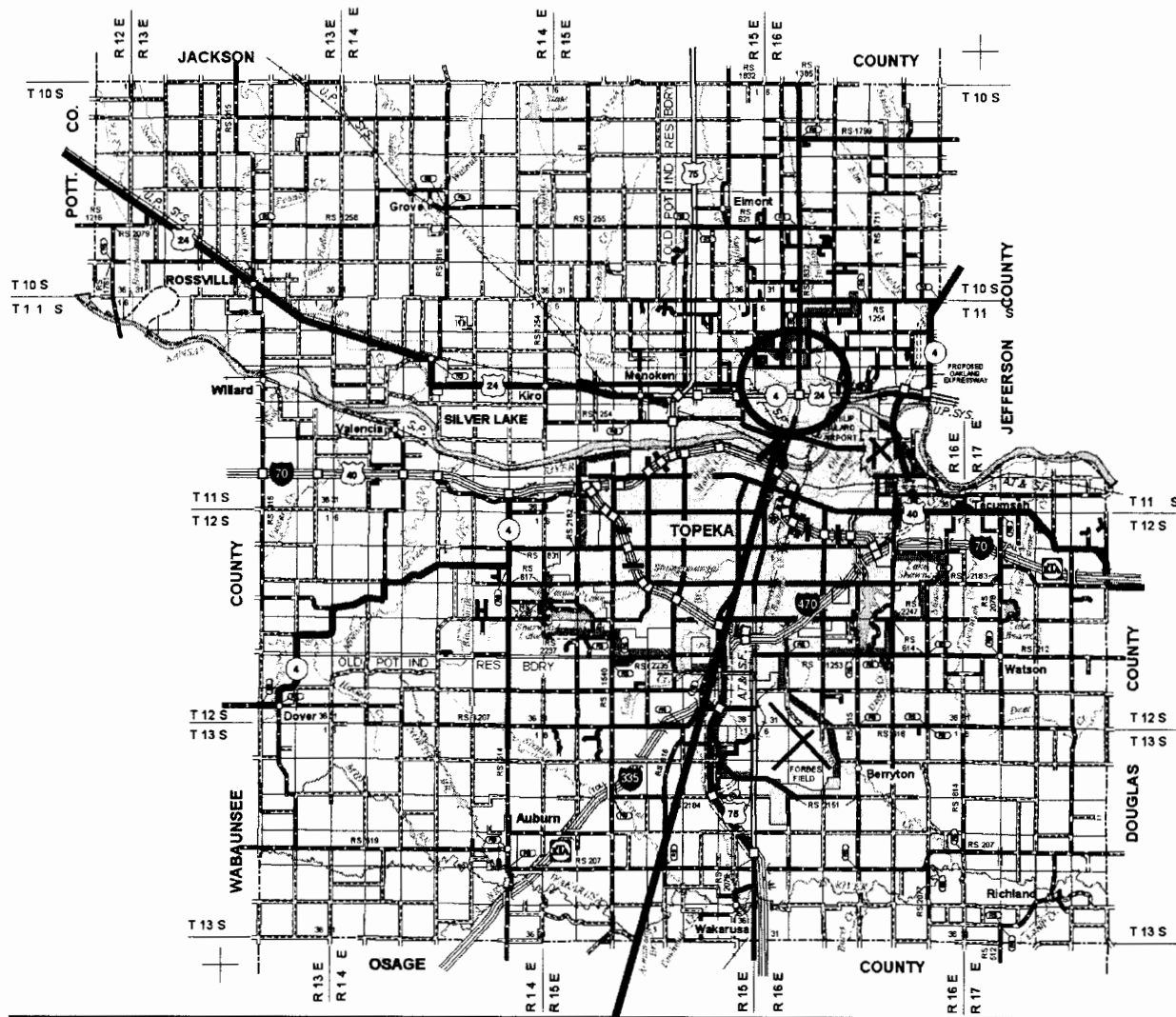




KA-0461-01 US-24 over Topeka Blvd.

CD 01

N: 39.091081 E:-95.664608 (Approximate)

SW $\frac{1}{4}$, Section 17, T11S, R16E

5/11/2012

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	US-24 / Shawnee	SOUNDING NO.	CD 01	SHEET 1 of 4		
BRIDGE STA.	381+01.67	PROJ. NO.	24-89 KA-0461-01	BRIDGE NO.	24-89-22.09(302)	
SITE NAME	US-24 over Topeka Blvd.			HOLE STA.	381+47, 70.0' Lt CL	
GEOLOGIST	R. Crow, P.G.	SCALE	1 inch = 5.0 feet		DATE	May 11, 2012
DRILLER	R. Vervynck	RIG TYPE	CME 55	TOP HOLE ELEV.	881.92	
GW ELEV.	855.0	TOTAL DEPTH	72.7	M/B ELEV.	835.22	

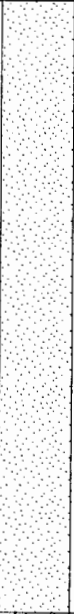
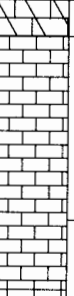
BOREHOLE REPORT - KANSAS DOT GDT - 5/23/12 08:29 - Q:\GEOLOGY\BRIDGE\24-89 KA-0461-01\US-24 OVER TOPEKA BLVD.GPJ

Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION
8" Hollow Augers	Alluvium			881.9	Silty Clay, brown, moist				
				880					
					Very fine sand, tan moist				
					Sand, gray, wet	1.5	130000		876.72
			9.2	872.7	Very fine sand, tan, moist	0.4	76000		871.52
				870					
						0.7	48700		866.62
				865					
						0.6	25300		861.32
				860					
			24.2	857.7	Sand, gray, wet	0.1			856.42
				855					

KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	US-24 / Shawnee	SOUNDING NO.	CD 01	SHEET 2 of 4
BRIDGE STA.	381+01.67	PROJ. NO.	24-89 KA-0461-01	BRIDGE NO. 24-89-22.09(302)
SITE NAME	US-24 over Topeka Blvd.			HOLE STA. 381+47, 70.0' Lt CL

BOREHOLE REPORT - KANSAS DOT GDT - 5/23/12 08:29 - Q:\GEOLOGY\BRIDGE\24-89 KA-0461-01\US-24 OVER TOPEKA BLVD.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
8" Hollow Augers	Alluvium			850	Sand, gray, wet	0.5	82100		850.92
				845					
				840					
				835					
			1	46.7	835.2	Limestone, weathered to hard, fossiliferous, broken			
				47.7	834.2	Limestone, hard, cherty, somewhat broken, stylolytic seams			
			2						
				830					
						212	1.34E+08		829.52
NQ2 Diamond	Ervine Creek Limestone Member			825					
			3	54.6	827.3	Limestone, laminar	175	1.19E+08	827.22
				54.9	827.0	Shale, limy, gray			
				55.1	826.8	Shale, gray to dark gray			
				55.9	826.0	Shale, black			
						824.5			
				57.4	824.2	Shale, very dark gray			
				57.7		Shale, black, soft to hard			
			4	59.5	822.4	Limestone, nearly white/gray, very hard, vertical fracture, very fossiliferous near base	328	2.4E+08	820.62
NQ2 Diamond	Rock Bluff Ls			820					
				61.8	820.1	Shale, gray			
				62.7	819.2	Shale, limy, greenish gray			



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	US-24 / Shawnee	SOUNDING NO.	CD 01	SHEET 3 of 4
BRIDGE STA.	381+01.67	PROJ. NO.	24-89 KA-0461-01	BRIDGE NO. 24-89-22.09(302)
SITE NAME	US-24 over Topeka Blvd.			HOLE STA. 381+47, 70.0' 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	Ozawkie Limestone Mbr		5	815	Shale, limy, greenish gray	26	5350000		815.02
			67.7 68.3	814.2 813.6	Limestone, shaly				
			6		Limestone, nearly white, granular texture, slightly impure, occasional vertical fracture	108	7E+07		810.42
			72.7	809.22	T.D. = 72.7				

BOREHOLE REPORT - KANSAS DOT GDT - 5/23/12 08:29 - Q:\GEOLOGY\BRIDGE\24-89 KA-0461-01\US-24 OVER TOPEKA BLVD.GPJ



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	US-24 / Shawnee	SOUNDING NO.	CD 01	SHEET 4 of 4
BRIDGE STA.	381+01.67	PROJ. NO.	24-89 KA-0461-01	BRIDGE NO. 24-89-22.09(302)
SITE NAME	US-24 over Topeka Blvd.			HOLE STA. 381+47, 70.0' 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																																																							
					<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>46.7</td><td>835.22</td><td>1.0</td><td>1.0</td><td>100</td><td>0%</td></tr><tr><td>2</td><td>47.7</td><td>834.22</td><td>5.0</td><td>4.7</td><td>94</td><td>8%</td></tr><tr><td>3</td><td>52.7</td><td>829.22</td><td>5.0</td><td>5.0</td><td>100</td><td>76%</td></tr><tr><td>4</td><td>57.7</td><td>824.22</td><td>5.0</td><td>5.0</td><td>100</td><td>82%</td></tr><tr><td>5</td><td>62.7</td><td>819.22</td><td>5.0</td><td>4.9</td><td>98</td><td>90%</td></tr><tr><td>6</td><td>67.7</td><td>814.22</td><td>5.0</td><td>5.0</td><td>100</td><td>82%</td></tr><tr><td>Total</td><td>72.7</td><td>809.22</td><td>26.0</td><td>25.6</td><td>98</td><td>65%</td></tr></tbody></table>	Core	Depth	Elev.	Cut	Rec	Rec %	RQD	1	46.7	835.22	1.0	1.0	100	0%	2	47.7	834.22	5.0	4.7	94	8%	3	52.7	829.22	5.0	5.0	100	76%	4	57.7	824.22	5.0	5.0	100	82%	5	62.7	819.22	5.0	4.9	98	90%	6	67.7	814.22	5.0	5.0	100	82%	Total	72.7	809.22	26.0	25.6	98	65%			
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