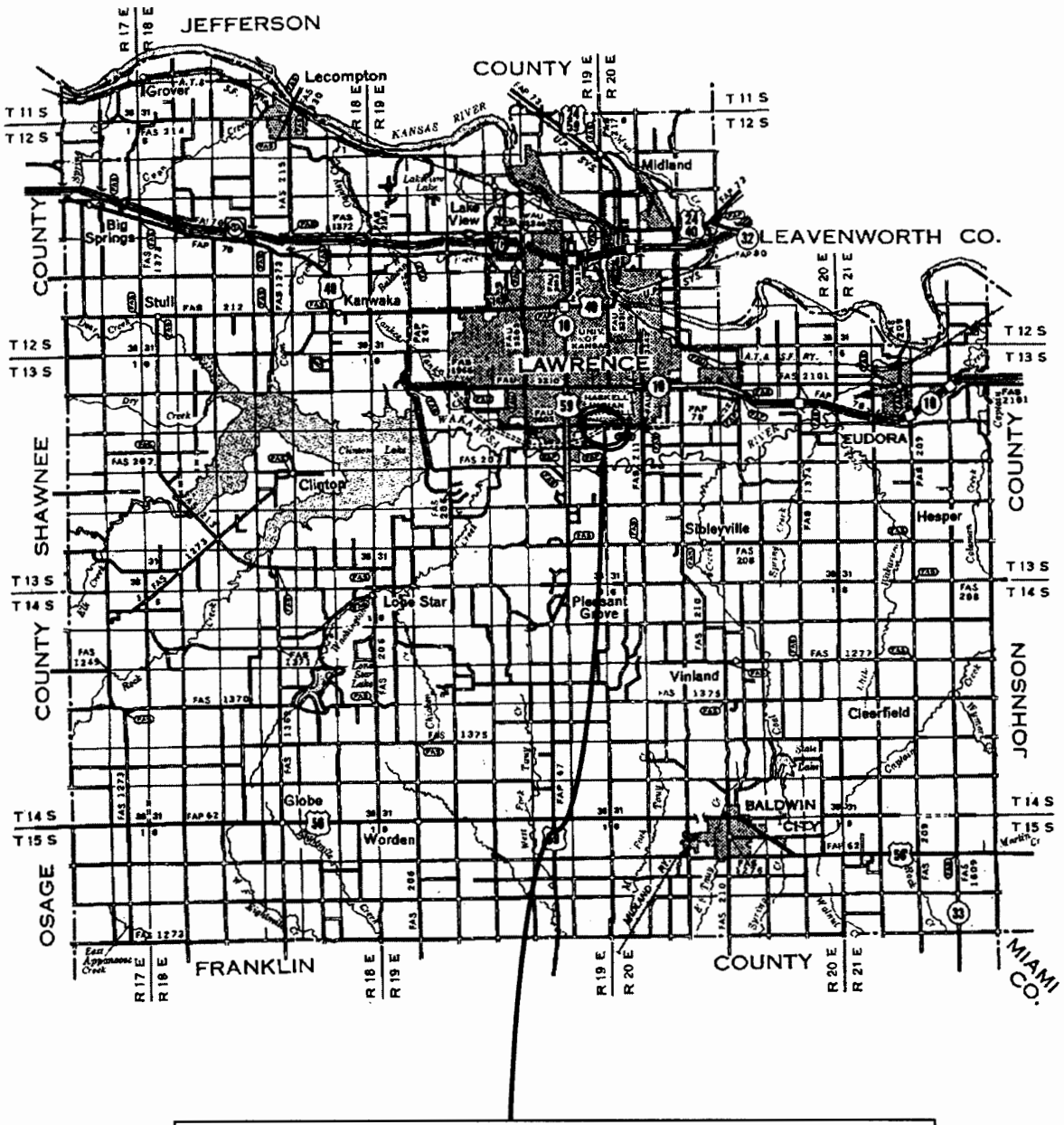

10-23 K-8392-04 N Louisiana Over Naismith Creek

Br. No. 10-23-9.58 (167) (X)

Douglas Co.

CD 01

N:38.928030 E:-95.242108 (Approx)

NE ¼, NE ¼, NE ¼ S13, T13S, R19E

KANSAS DEPARTMENT OF TRANSPORTATION

Kansas Department of Transportation

RTE./CO.	10-Douglas	SOUNDING NO.	CH-1	SHEET 1 of 3	
BRIDGE STA.	18+48	PROJ. NO.	K-8392-04	BRIDGE NO.	10-23-9.58 (168)
SITE NAME	Bridge X, South Lawerence Trafficway			HOLE STA.	19+46.8, 8.0' Lt CL
GEOLOGIST	K. Halverson, G.A.	SCALE 1 inch = 10.0 feet		DATE	January 5, 2011
DRILLER	R. Hinderliter	RIG TYPE	CME 75	TOP HOLE ELEV.	822.5
GW ELEV.	N/A	TOTAL DEPTH	92.7	M/B ELEV.	767.7

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	Soil Mantle			822.5	Dark grayish brown Clay, moist, firm, Fill				
			3.0	819.5	Clay, dark grayish brown, moist, firm	0.85	70400		811.7
			10.8	811.7	Clay, gray, trace yellow brown, moist, soft to firm				
			15.8	806.7	Clay, gray, slightly blue, wet, firm	0.89	112000		801.7
			20.8	801.7	Clay, blue gray, wet, firm				
			25.7	796.8	Clay, blue gray to gray Clayey silt, wet, mottled olive brown or yellow	0.4	17300		786.7
			47.7	774.8	Stiff Clayey Sand				
			50.5	772.0	Silty Sand, blue gray, wet, dense				
			54.8	767.7	Sandstone, wethered, gray, dense				
		1	58.5	764.0	Sandstone, gray, weathered, hard				

BOREHOLE REPORT - KANSAS DOT.GDT - 10/21/11 13:52 - C:\USERS\KYLEH\DESKTOP\PROJECTS\K-8392-04 SOUTH LAWRENCE TRAFFICWAY\BRIDGE X\BRIDGE X.GPJ

KANSAS DEPARTMENT OF TRANSPORTATION

Kansas Department of Transportation

RTE./CO.	10-Douglas	SOUNDING NO.	CH-1	SHEET 2 of 3	
BRIDGE STA.	18+48	PROJ. NO.	K-8392-04	BRIDGE NO.	10-23-9.58 (168)
SITE NAME	Bridge X, South Lawerence Trafficway			HOLE STA.	19+46.8, 8.0' 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	Stranger Formation		1	61.0	760	761.5	Sandstone, gray, well cemented, very closely fractured, non-weathered, very hard, fine grained				
			2	62.3		760.2					
			3	62.5		760.0	Shale, gray to greenish gray, clayey, vey closely fractured, slightly laminated, hard, sandy	127	4.8E+07		756.5
					755		Sandstone, gray, cloesly to very closely fractured, non-weathered, very hard, fine grained, well cemented				
				68.1		754.4					
			4	68.7		753.8	Shale, seam, sandy, gray, hard				
							Sandstone, gray, well cemented, very closely fractured, fine grained, very hard, non-weathered				
				72.7	750	749.8	Sandstone, gray, well cemented, closely fractured, non-weathered, fine grained, very hard	122	5.2E+07		748.5
			5					100	4.47E+07		746.1
				77.7	745	744.8	Sandstone, gray, well cemented, closely to very closely fractured, non-weathered, fine grained, very hard				
			6					160	4.89E+07		739.8
					740			154	5.43E+07		738.4
			7	84.1		738.4	Sandstone, gray, well cemented, widely fractured, non-weathered, fine grained, very hard	138	5.39E+07		735.8
				87.7	735	734.8	Sandstone, gray, interbedded Shale seams, very closely fractured, fine grained, very hard				
			8	88.8		733.7		160.5	4.26E+07		731.8
					730		Sandstone, gray to dark gray, well cemented, closely to very closely fractured, non-weathered, fine grained, very hard				
				92.7		729.8	T.D. = 92.7				