

BRIDGE FOUNDATION GEOLOGY REPORT

10-23 K-8392-04
Haskell Ramp-C Over North Canal
Douglas County

Robert W. Henthorne, P.G.
Chief Geologist

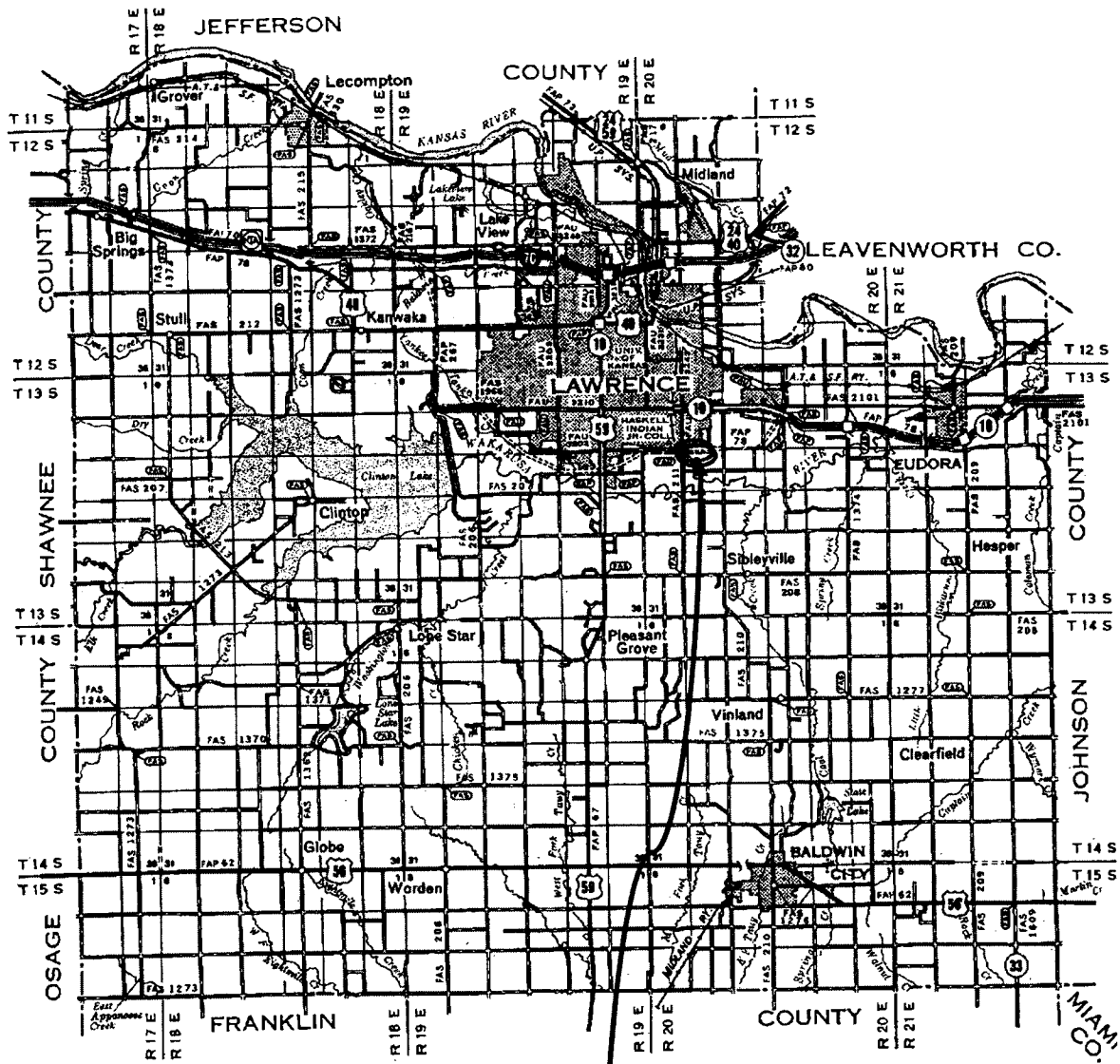
Galen Worthington, Geology Associate
Delmar Thompson, P.G., Regional Geologist

November 2011



Bureau of Materials and Research
Geotechnical Unit

17-13-20E



10-23 K-8392-04

Haskell Ramp C over North Canal

Douglas County

CD1

N:38.925473 E:-95271147

SW ¼, NE ¼, NW ¼, S17, T13S, R20E

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO.	K-10-Douglas	SOUNDING NO.	CD 1 - L	SHEET 1 of 3
		PROJ. NO.	10-23 K-8392-04	BRIDGE NO. 10-23-10.95 (174)
SITE NAME	South Lawrence Trafficway – Bridge L			HOLE STA. 774+17.7, 310.8' Lt CL
GEOLOGIST	G. Worthington, G.A.	SCALE	1 inch = 8.3 feet	DATE February 21, 2011
DRILLER	J. Burns	RIG TYPE	CME 75	TOP HOLE ELEV. 822.8
GW ELEV.	812.8	TOTAL DEPTH	93.6	M/B ELEV. 767.3

BOREHOLE REPORT - KANSAS DOT.GDT - 11/16/11 13:08 - C:\USERS\GALLENWDESKTOP\SLT 10-23 K-8392-04\SLT BRDG L\SLT BRDG CORE L.N.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	
	Alluvium or Soil Mantle		1.0	822.8	Clay, sandy, silty, medium-brown and yellow, dry-moist					
					821.8	Note: some 4" thick concrete slabs buried in this zone				
					3.2	820	Clay, trace of sand, dark brown, dry-moist			
					3.5	819.6	Large gravel			
						819.3	Clay, dark-brown to bluish-gray, moist			
					6.2	816.6	gravel			
					6.8	815	Clay, dark bluish-gray, hard, dry-moist			
						816.0				
						810				
						805				
			20.0	802.8	Clay, dark-brown to pale green, moist					
			25.0	797.8	Clay, dark bluish, greenish, brown, moist					
				795						
				790						
				785						
			42.0	780	Clay, dark-brown, bluish, wet					
			45.0	777.8	Clay, greenish-gray, wet, soft					
				775						

8" Hollow Augers



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO.	K-10-Douglas	SOUNDING NO.	CD 1 - L	SHEET 2 of 3
		PROJ. NO.	10-23 K-8392-04	BRIDGE NO. 10-23-10.95 (174)
SITE NAME	South Lawrence Trafficway – Bridge L			HOLE STA. 774+17.7, 310.8' Lt CL

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Bit Type	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION (TSF)	ELASTIC MODULUS (PSF)	N60 COUNT (SPT)	ELEVATION	
	Stranger Formation	1	55.5	767.3	Clay, greenish-gray, wet, soft					
		2	62.0	760.8	Weathered shale or shaley sandstone, pale olive to pale blue, micaceous					
		3		755	Sandy shale or shaley sandstone, pale blue, micaceous	58	7370000		756.3	
		4		750		97.5	1.43E+07		748.7	
		5		745						
		6		80.0	742.8	Shale, grayish blue	140	1.96E+07		740.9
		7	84.0 84.5	738.8 738.3	735	Shale, limy, grayish-blue Sandy shale or shaley sandstone, pale blue to pale olive, micaceous	112.5	2.21E+07		738.3
		8	88.4 89.3	734.4 733.5	730	Shale, limy, grayish blue to gray Limestone, shaley, medium gray to grayish blue, fossiliferous. Also basal conglomerate	411	1.61E+08		730.9
			93.6	729.2	T.D. = 93.6					