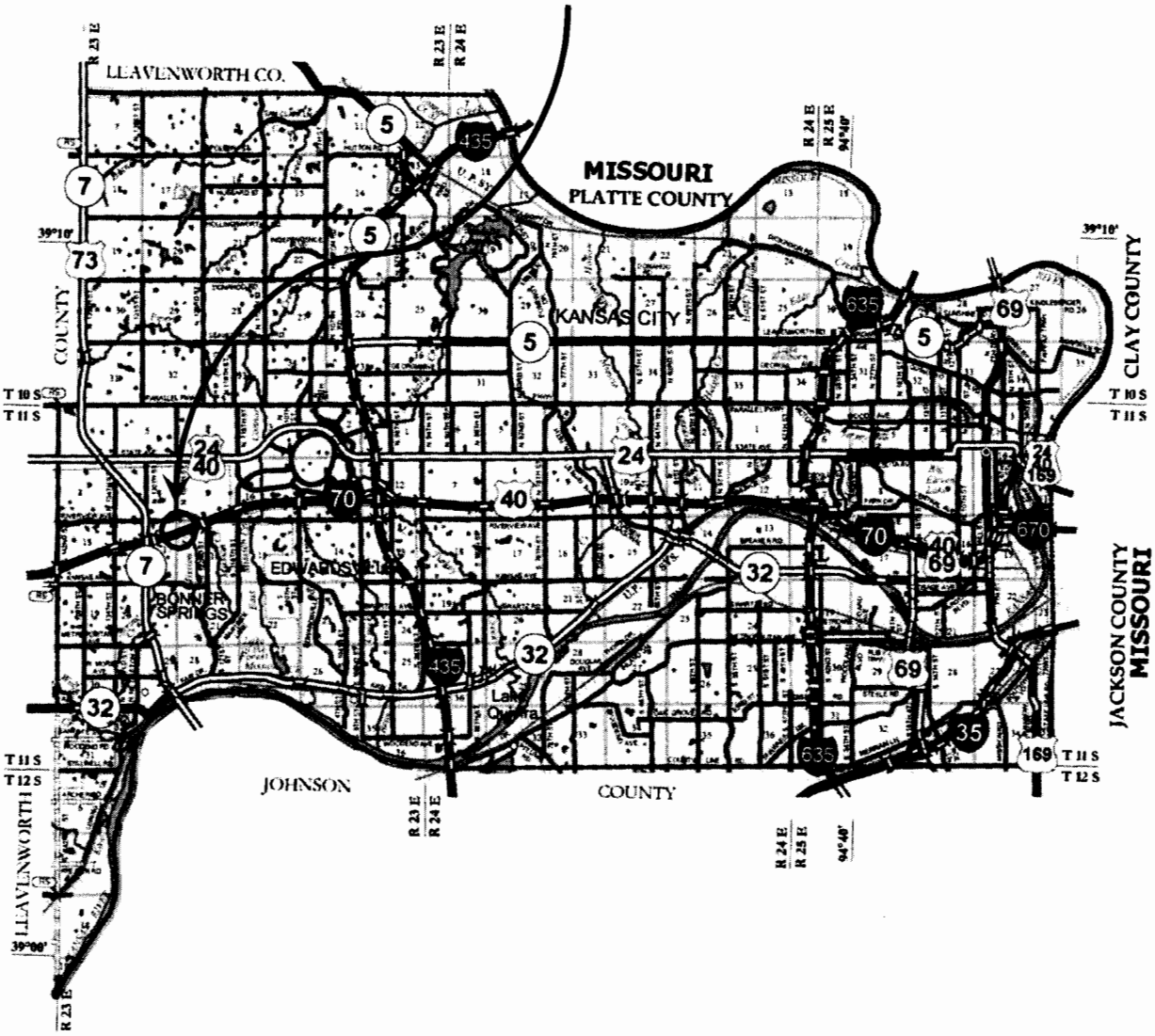

70-105 KA-1003-07 ~~118th~~ Riverview over I-70

Br. No.70-105-03.12(330)

Wyandotte County

CD1

N:39.101332 E:-94.864674 (Approx.)

NE ¼, NE ¼, NW ¼, S16, T11S, R23E

KANSAS DEPARTMENT OF TRANSPORTATION

Kansas Department of Transportation

RTE./CO. 70-Wyandotte	SOUNDING NO. CH-1	SHEET 1 of 2
BRIDGE STA. 14442+64: 72.3' Rt	PROJ. NO. KA-1003-01	BRIDGE NO.
SITE NAME K-7 and I-70 Interchange, Riverview Ave.		HOLE STA. 47+35.2, 16.5' Lt CL
GEOLOGIST K. Halverson, G.A.	SCALE 1 inch = 10.0 feet	DATE June 21, 2010
DRILLER C. Hutchins	RIG TYPE CME 75	TOP HOLE ELEV. 1021.32
GW ELEV. N/A	TOTAL DEPTH 63.4	M/B ELEV. 1004.82

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		0.5	1021.3	Base Coarse, sandy gravel, black, slightly moist, dense				
				1020.8	Silty Clay, dark brown, slightly moist, medium stiff to stiff	1.325	119000		1015.92
			6.0	1015.3	Silty Clay, brown, slightly moist, medium stiff to stiff	1.915	254000		1010.52
			10.0	1011.3	Sandy Clay, with some Caliche, orangish brown, slightly moist, stiff	1.51	167000		1005.52
	Tonganoxie Sandstone Mbr		16.5	1004.8	Sandstone, weathered, orangish brown, medium hard				
			17.0	1004.3	Sandstone, orangish to reddish brown, hard	45.35	1.72E+07		999.57
NQ2 Diamond		1	21.0	1000.3	Sandstone, fine grained, brown, well cemented, cross-bedded, non-weathered, very closely fractured, hard	74	2.82E+07		995.72
		2	26.2	995.1	Sandstone, fine grained, alternating reddish brown and brown, well cemented, cross-bedded, very closely fractured, non-weathered, hard				
		3	31.5	989.8	Sandstone, fine grained, well cemented, iron staining, reddish brown, cross-bedded, very closely fractured, non-weathered, hard	54	1.56E+07		988.82
		4				81	3.68E+07		985.62
		5							
		6				171.5	7.96E+07		972.92
						436	1.64E+10		972.12
		7	49.5	971.9	Limestone, gray, non-weathered, very sandy, closely fractured, very hard, some verticle fractures	92.5	5.39E+07		970.72
			50.0	971.3		304.5	1.46E+10		969.42
	South Bend Limestone Mbr	8	52.9	968.4	Conglomerate, very poor calcite cementation, gray, porous, occasional coal seam, sandy, shale,				
			53.8	967.5	Shale, gray, very closely fractured, hard to very hard, limy, sandy, non-weathered	239.5	8.12E+07		963.52
		9	58.2	963.1	Limestone, fossiliferous, gray, closely to widely fractured, very hard				

Elevation scale: 1020, 1015, 1010, 1005, 1000, 995, 990, 985, 980, 975, 970, 965

BOREHOLE REPORT - KANSAS DOT.GDT - 4/29/11 09:30 - C:\USERS\KYLEH\DESKTOP\PROJECTS\KA-1003-01 K-7, I-70\K-7\RIVERVIEW\LOGS\KA-1003-01RIVERVIEW.GPJ

KANSAS DEPARTMENT OF TRANSPORTATION

Kansas Department of Transportation

RTE./CO. 70-Wyandotte	SOUNDING NO. CH-1	SHEET 2 of 2
BRIDGE STA. 14442+64: 72.3' Rt	PROJ. NO. KA-1003-01	BRIDGE NO.
SITE NAME K-7 and I-70 Interchange, Riverview Ave.		HOLE STA. 47+35.2, 16.5' 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
	Rock Lake Shale Mbr	9		960	Shale, gray, non-weathered, closely to widely fractured, hard to very hard, abundant Limestone stringers	40.95	3970000		959.92
			63.4	957.92	T.D. = 63.4				

Core	Depth	Elev.	Cut	Rec	Rec %	RQD
1	21.0	1000.32	2.4	2.2	92	79%
2	23.4	997.92	5.0	5.0	100	56%
3	28.4	992.92	5.0	5.0	100	64%
4	33.4	987.92	5.0	5.0	100	78%
5	38.4	982.92	5.0	5.0	100	40%
6	43.4	977.92	5.0	5.0	100	72%
7	48.4	972.92	5.0	5.0	100	84%
8	53.4	967.92	5.0	4.7	94	94%
9	58.4	962.92	5.0	5.0	100	100%
Total	**63.4**	**957.92**	**42.4**	**41.9**	**99**	**74%**

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