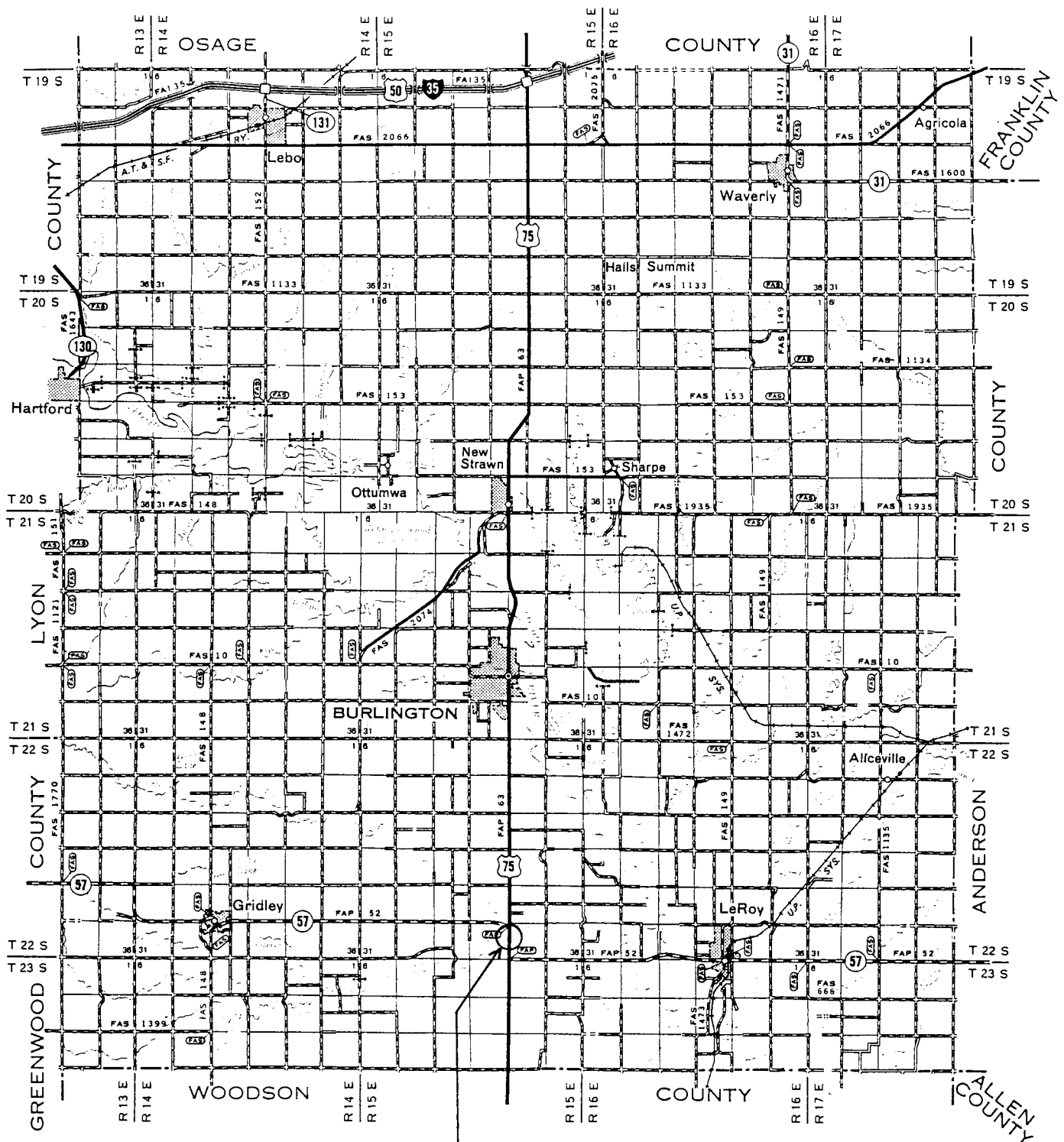


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BRIDGE FOUNDATION GEOLOGY REPORT

Proj. No. 075-016 K-4347-01

Br.No. 3.50

U.S. 75 over South Big Creek

Sta. 193+99.22

Coffey County

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY Coffey PROJECT NO. 75-16 K-4347-01 BRIDGE NO. 75-16-4.04

DESCRIPTION US-75 over North Fork Big Creek STA. 221+83, 23' RT & •

GEOLOGIST RJ Cron VERTICAL SCALE 1" = 10' DATE 10/16/91

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE																																													
								BLOWS	ELEV.																																												
"N" Core Barrel - Diamond Bit	"N" Fishtail	Soil Mantle	11	20'	1000.0	1000.12			1000.0																																												
					990.0	Soil Mantle, silt, dk brown soft. Cherty gravel at base				990.0																																											
					980.0	979.9				Sh, sandy, clayey, gray, hard	980.0																																										
					24'	975.9				241	975.0																																										
					27'	972.2				228	972.5																																										
					970.0	Sandstone, gray, fine grained hard, shaley zones				25.5	969.7	970.0																																									
					Shale, dk gray, hard sandy, lenses light gray	30.0				967.4																																											
						20.7				965.7																																											
						37.9				958.9																																											
						37.3				956.2																																											
					45.8 TD	954.3				<table><tr><th>Core</th><th>Depth</th><th>Elev.</th><th>Cnt</th><th>Rec.</th><th>RQD</th></tr><tr><td>1</td><td>20'-24'</td><td>979.9</td><td>4°</td><td>24</td><td>0%</td></tr><tr><td>2</td><td>24'-28'</td><td>975.9</td><td>4°</td><td>4°</td><td>53%</td></tr><tr><td>3</td><td>28'-32'</td><td>971.4</td><td>3°</td><td>3°</td><td>27%</td></tr><tr><td>4</td><td>32'-36'</td><td>968.1</td><td>4°</td><td>4°</td><td>38%</td></tr><tr><td>5</td><td>36'-41'</td><td>963.3</td><td>5°</td><td>5°</td><td>76%</td></tr><tr><td>6</td><td>41'-45'</td><td>958.3</td><td>4°</td><td>4°</td><td>83%</td></tr></table>	Core	Depth	Elev.	Cnt	Rec.	RQD	1	20'-24'	979.9	4°	24	0%	2	24'-28'	975.9	4°	4°	53%	3	28'-32'	971.4	3°	3°	27%	4	32'-36'	968.1	4°	4°	38%	5	36'-41'	963.3	5°	5°	76%	6	41'-45'	958.3	4°	4°	83%	950.0
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