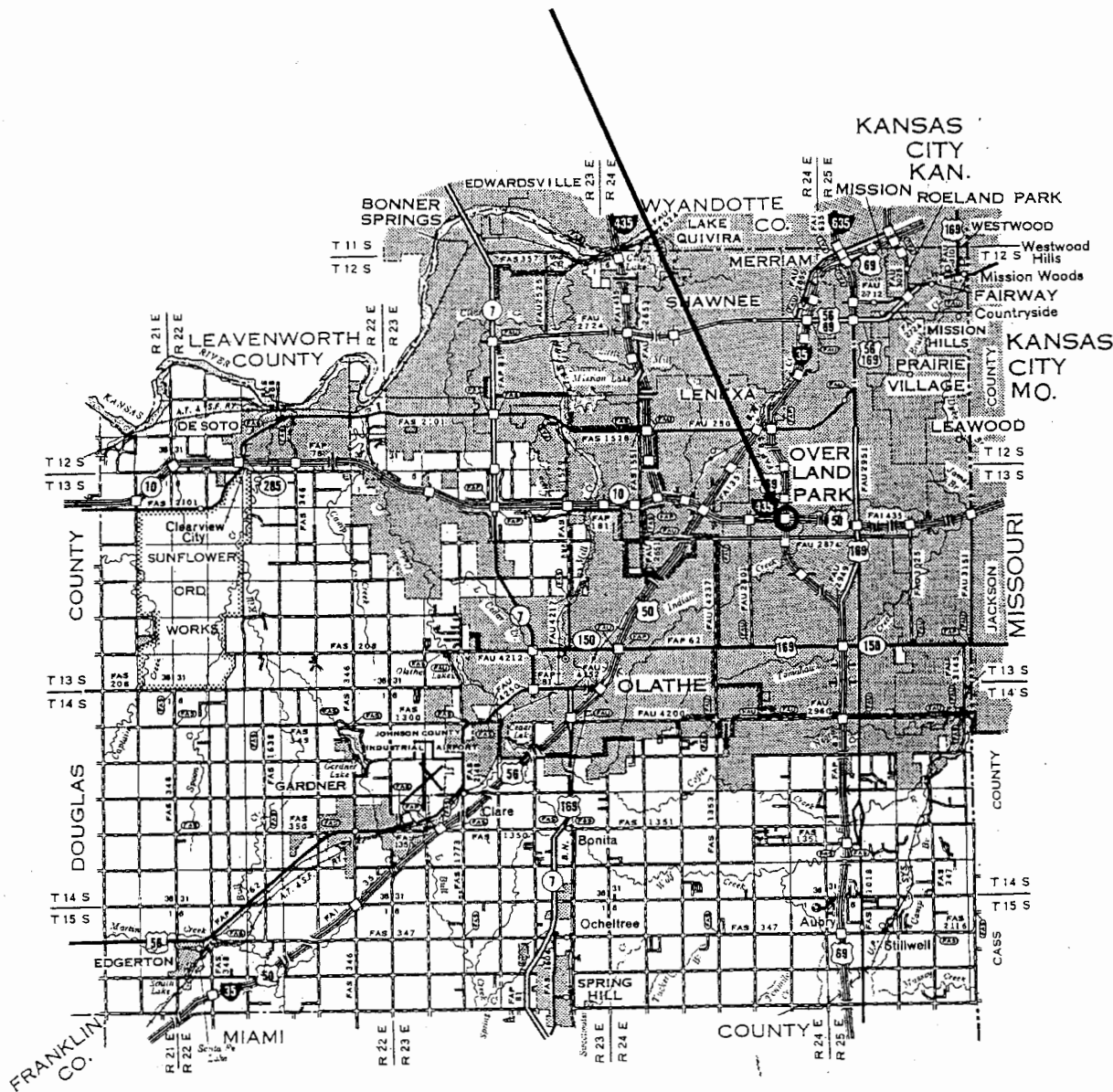


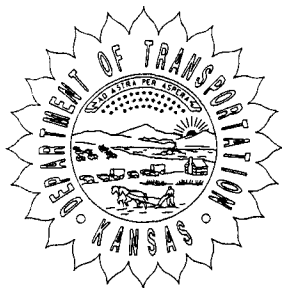
435-46 K-7451-01
 69-46 K-8262-01
 Ramp 69S-435E over 103rd -69S
 Bridge No. 69-46-14.56 (339)

12-13-24E
 W/2 W/2



Johnson County

KANSAS DEPARTMENT OF TRANSPORTATION



RTE./CO. 435-46	SOUNDING NO. CD#1	SHEET 1 OF 2
BRIDGE STA. 13+623.400	PROJ.NO. 435-46 K-8262-01	BRIDGE NO. 1456(339)
SITE NAME RAMP 69S-435E OVER RAMP 103RD-69S		HOLE STA. 13+531.000 9.5 M Lt @ Ramp 69S-435E
GEOLOGIST ROCKY CROW	SCALE 1:100 (10mm=1m)	DATE 9/22/03
DRILLER JIM BURNS	RIG TYPE CME-55	TOP HOLE ELEV. 297.078
GW ELEV. <i>4</i>	TOTAL DEPTH 24.99	M/B ELEV. 296.848

BIT TYPE	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION TEST (SPT)	
							N COUNT	ELEVATION
					THE=297.078			
			0.23	296.848	Silty clay, brown, wet			
	ARGENTINE LS MBR		1.92	295.158	Limestone, hard, gray, wavy-bedded, with occasional small calcite crystal filled voids and clay seams	22900		295.28
			2.59	294.488	Shale, very limy, gray, clayey			
					Shale, gray, laminated	854		294.19
						1856		293.39
						1867		291.99
						1389		290.19
						1903		287.39
						1567		285.88
						5580		284.78
						2490		283.38



KANSAS DEPARTMENT OF TRANSPORTATION

RTE./CO. 435-46	SOUNDING NO. CD*1	SHEET 2 OF 2
BRIDGE STA. 13+623.400	PROJ.NO. 435-46 K-8262-01	BRIDGE NO. 14.56(339)
SITE NAME RAMP 69S-435E OVER RAMP 103RD-69S		HOLE STA. 13+531.000 9.5 M Lt B Ramp 69S-435E

BIT TYPE	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION TEST (SPT)	
							N COUNT	ELEVATION
LIBERTY MEMORIAL SHALE FORMATION			22.86	282	Shale, gray, laminated	5700		282.58
				281		5600		281.68
				280		5960		279.88
				279		3010		278.848
				278				
				277		4110		279.93
				276				
				275		1228		275.29
				274				
				274.218				
RAYTOWN MEMBER			24.99	274	Limestone, hard, gray, wavy-bedded, fossiliferous	41500		273.918
				273		64200		273.39
				272.088	Limestone with thin shale seams			
				272				