

# KANSAS DEPARTMENT OF TRANSPORTATION

22° 11' 16" E  
R 25 SE NE

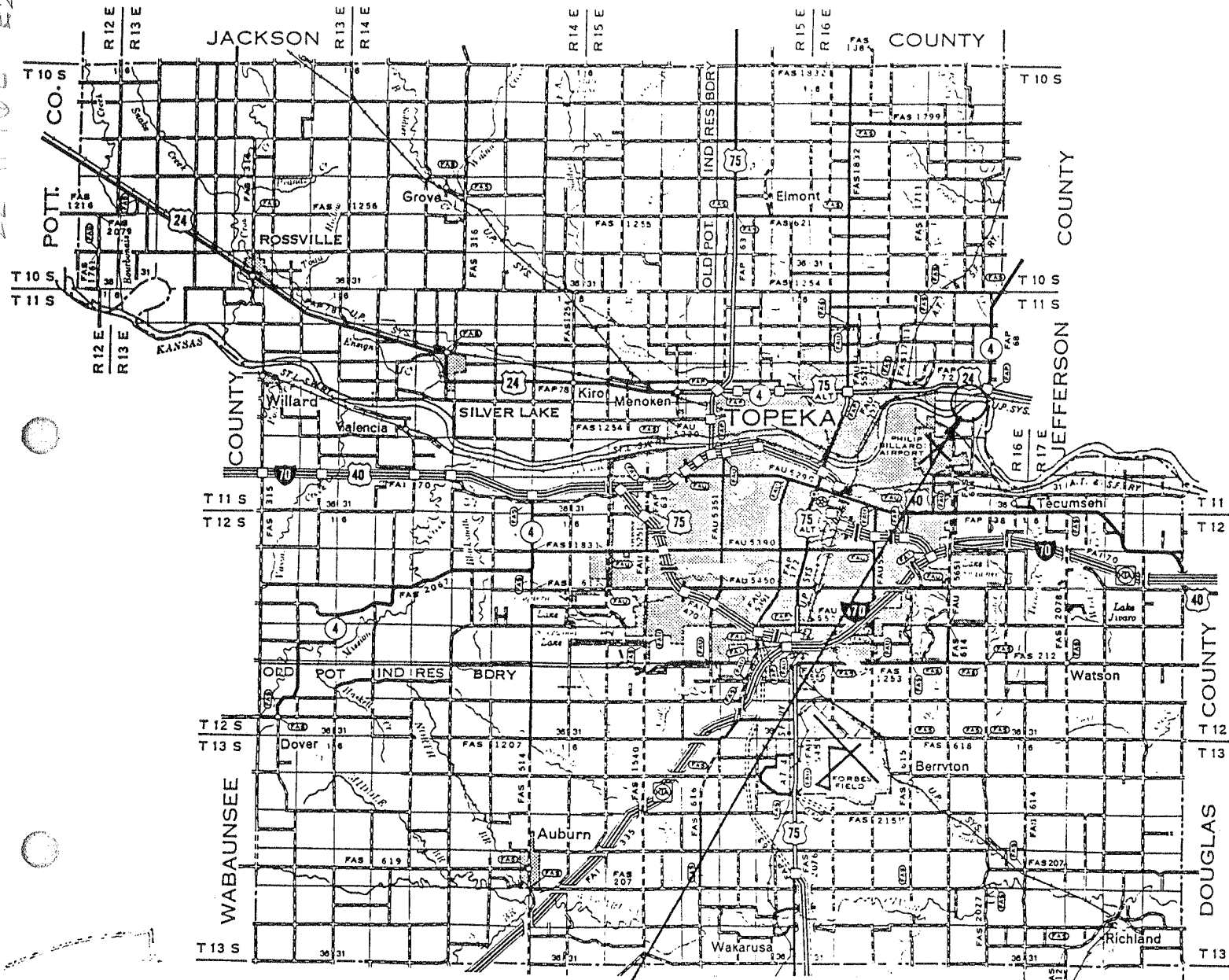


1. ROUTE-COUNTY NO. 004-089	7. SOUNDING NO. 7	8. SHEET 01 OF 04
2. BRIDGE STA. 637+48.25	4. PROJECT NO. K-3362-01	9. BRIDGE NO. 28.66
3. DESCRIPTION Oakland Expressway over Kansas River		10. HOLE STA. 644+50
6. GEOLOGIST Billinger	5. VERTICLE SCALE 1"=10'	11. DATE 4-30-93
7. DRILLER Shall	8. RIG B-61	12. ELEVATION TOP OF HOLE 868.3
9. GROUND WATER ELEV. 852.3	10. TOTAL DEPTH OF HOLE 845	11. ELEVATION TOP OF ROCK 826.5

BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV.
Casing	Alluvium	/ / / / / / / / / /	0°	868.3	Silt, Sandy, brown			
		. . . . .	7°	861.3				
		. . . . .			850	Sand, Fine to Coarse clean.		
		. . . . .	30°	840 838.3				
		. . . . .	32°	836.3		Gravel + coarse sand		
		. . . . .		830	Sand, and some small gravel			
		/ / / / / / / / / /	418	826.5	Shale weathered, upper 10'			
	Tecumseh Shale			820		10.3	820.9	
			2		Shale, gray, firm	8.2	817.2	
			3			8.4	812.5	
			4		810	9.96	809.8	
			5			6.3	805.4	
			6	66°	801.7	6.4	802.3	
			7		800	shale, limy, gray	8.8	798.4
			8			shale, gray, firm	8.04	794.3

DRILLING LOG (con't sheet)		SOUNDING NO. 7		PROJECT NO. K-3362-01		SHEET 02 OF 04		
ELEVATION TOP OF HOLE 868.3		GROUND WATER ELEV. 852.3		TOTAL DEPTH OF HOLE 845		ELEVATION TOP OF ROCK 826.5		
BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OF CASING DRIVE	
							<del>          </del>	ELEV.
	Tecumseh shale		78 <sup>9</sup>	789.4	Shale, gray, firm			
	Avoca ls.		83 <sup>9</sup>	784.9	Limestone, unit bedded, gray, hard upper 1' impure gradational, fossiliferous	761.0		787.8
	King Hill shale		84.5	783.8	Shale, clayey, greenish limestone, earthy, dull white-gray	764.3		785.5

22-11-16 E2 E2



Proj.No. 004-089 K-3362-05  
 Br.No. 004-089-28.66  
 Oakland Expressway over the Kansas River  
 Sta.637+48.25  
 Shawnee County

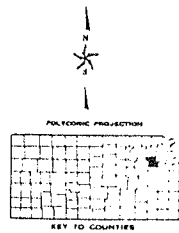
**LEGEND**

**ROADS AND ROADWAY FEATURES**

PRIMITIVE ROAD	-----
UNIMPROVED ROAD	.....
GRADED AND DRAINED ROAD	-----
SOIL SURFACED ROAD	-----
GRAVEL OR STONE ROAD	-----
NOT GRADED OR DRAINED	-----
GRAVEL OR STONE ROAD	-----
GRADED AND DRAINED	-----
GRAVEL OR STONE ROAD WITH STABILIZED SURFACE	-----
BITUMINOUS ROAD-LOW TYPE	-----
PAVED ROAD	-----
DIVIDED HIGHWAY	-----
HIGHWAY WITH FULL CONTROL OF ACCESS AND INTERCHANGE	-----

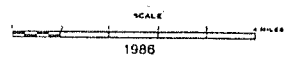
**ROAD SYSTEM DESIGNATION**

FEDERAL-AID INTERSTATE HIGHWAY SYSTEM	-----
FEDERAL-AID PRIMARY HIGHWAY SYSTEM	-----
FEDERAL-AID SECONDARY HIGHWAY SYSTEM	-----
INTERSTATE NUMBERED HIGHWAY	-----
U.S. NUMBERED HIGHWAY	-----
STATE HIGHWAY SYSTEM OR STATE NUMBERED HIGHWAY	-----
END OF DESIGNATED SYSTEM OR MARKED ROUTE	-----



GENERAL HIGHWAY MAP  
**SHAWNEE COUNTY**  
 KANSAS

PREPARED BY THE  
 KANSAS DEPARTMENT OF TRANSPORTATION  
 BUREAU OF TRANSPORTATION PLANNING  
 IN COOPERATION WITH THE  
 U.S. DEPARTMENT OF TRANSPORTATION  
 FEDERAL HIGHWAY ADMINISTRATION



FA SYSTEM REVISED TO MAR. 15 1968