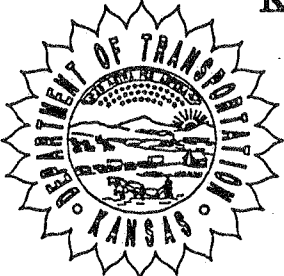


22-11-16E  
FR SE NE



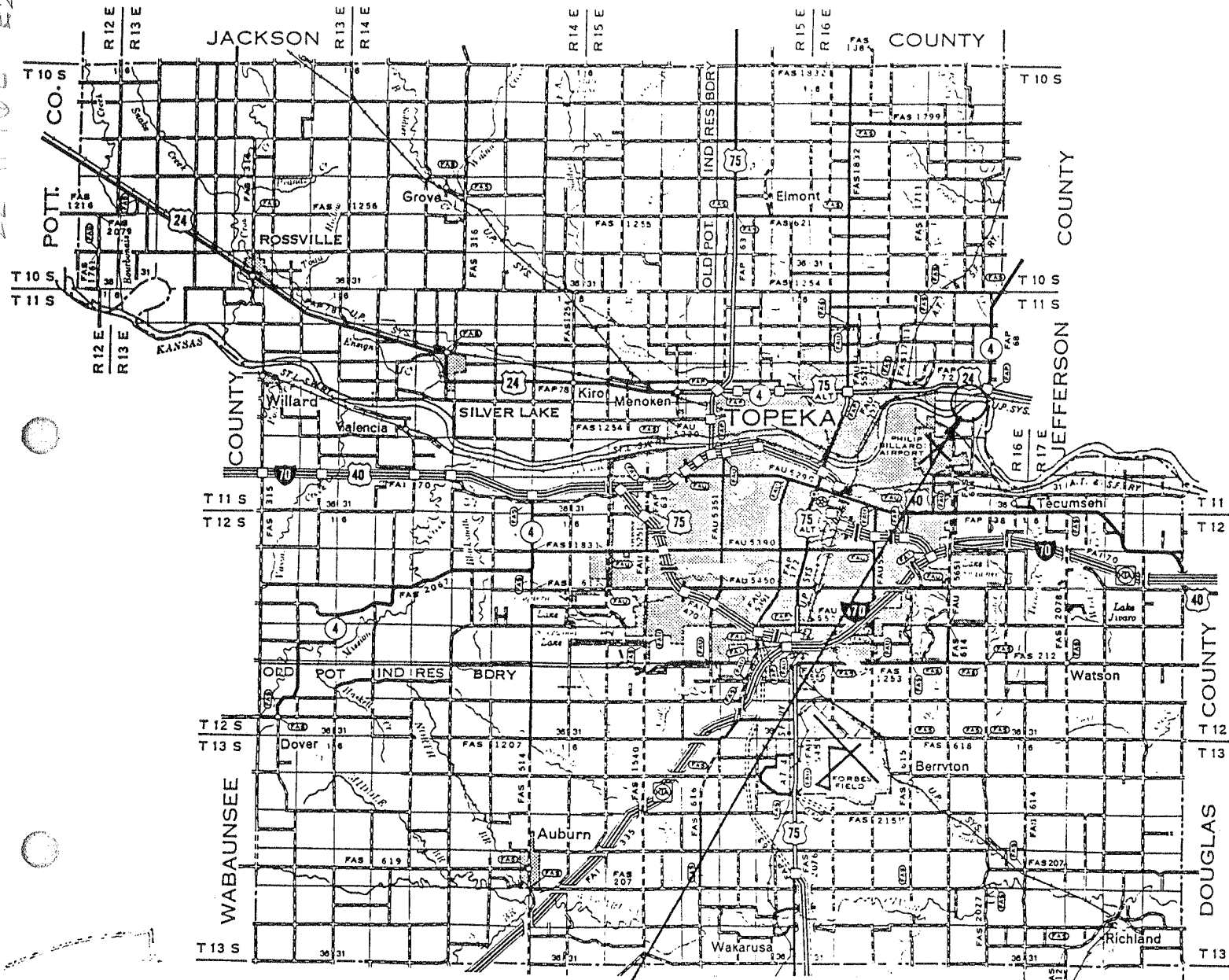
# KANSAS DEPARTMENT OF TRANSPORTATION

1. ROUTE-COUNTY NO. 004-089	7. SOUNDING NO. 5	12. SHEET 01 OF 09
2. BRIDGE STA. 637+48.25	8. PROJECT NO. K-3362-01	13. BRIDGE NO. 28.66
3. DESCRIPTION Oakland Expressway	14. HOLE STA. 618+50	15. DATE 4-19-93
4. GEOLOGIST Billinger	9. VERTICLE SCALE 1"=10'	16. ELEVATION TOP OF HOLE 865.9
5. DRILLER Shall	10. RIG B-61	17. ELEVATION TOP OF ROCK 794.4
6. GROUND WATER ELEV. 855.9	11. TOTAL DEPTH OF HOLE 107'6"	

BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV.
			0°	865.9				
Casing	Alluvium	[Diagonal Hatching]		860	Silt, slightly sandy brown grading to gray-brown			
				850				
			25°	840.9	Silt, sandy, gray			
		[Dotted Pattern]	35°	830.9				
				820	Sand with gravel beds.			
				810				
				800				
			71°5'	794.4				

DRILLING LOG (con't sheet)		SOUNDING NO. 5		PROJECT NO. K-3362-01		SHEET 02 OF 04		
ELEVATION TOP OF HOLE 865.9		GROUND WATER ELEV. 855.9		TOTAL DEPTH OF HOLE 1076		ELEVATION TOP OF ROCK 794.4		
BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OF CASING DRIVE	
							BLOWS	ELEV.
Diamond	Tecumseh shale	1	79 <sup>05</sup>	790	Shale, gray, firm	2.9		789.8
		2		786.9		5.9		787.1
	Avoca Ls	3	83 <sup>95</sup>	782.0	Limestone, gray, massive impure zones.	542.7		785.2
		4	86 <sup>0</sup>	779.9	Shale, gray-green	792.8		782.6
	King Hill shale	5	89 <sup>3</sup>	776.6	Limestone, greenish	38.7		780.8
		6	91 <sup>9</sup>	774.0	shale, limy, greenish gray	265.4		778.3
	Beil Ls	7	100 <sup>7</sup>	765.2	Limestone, massive, gray upper 1° shaly breaks	12.4		774.9
		8	104 <sup>45</sup>	761.5	shale, fissile, black	116.0		772.3
	Queen Hill shale Big Spring Ls	9	107 <sup>6</sup>	758.3	Limestone, gray	193.4		768.3
					125.8		766.2	
					93.1		762.7	
					503.5		760.8	

22-11-16 E2 E2

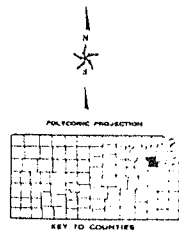


Proj.No. 004-089 K-3362-05  
 Br.No. 004-089-28.66  
 Oakland Expressway over the Kansas River  
 Sta.637+48.25  
 Shawnee County

**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 .....



FA SYSTEM REVISED TO MAR. 15 1988

**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

