

22-11-16E
EZ SE NE



1. ROUTE-COUNTY NO. 004-089	7. SOUNDING NO. 8	12. SHEET 01 OF
2. BRIDGE STA. 637+48.25	8. PROJECT NO. K-3362-05	13. BRIDGE NO. 28.66
3. DESCRIPTION SB. Oakland Expressway over Ke. River	14. HOLE STA. 628+99, 66 Rt	
4. GEOLOGIST Randy Billinger	15. DATE 1-20-94	
5. DRILLER Bryan Shall	16. ELEVATION TOP OF HOLE 864.7	
6. GROUND WATER ELEV. 856.7	17. ELEVATION TOP OF ROCK 827.6	

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°	864.7				
3" hollow auger casing	Kansas River Alluvium		98	854.9	Silt, very soft, brown			
			37'	827.6	Sand, silty, medium to coarse. lower 20 grades to coarse sand and small gravel			
			40'	824	shale, weathered, gray			
Hawthorn	Tecumseh Shale Frm.				shale, firm, dark gray			

DRILLING LOG (con't sheet)			1. SOUNDING NO. 8		2. PROJECT NO. K-3362-05		3. SHEET 02 OF	
4. ELEVATION TOP OF HOLE 864.7			5. GROUND WATER ELEV. 856.7		6. TOTAL DEPTH OF HOLE 108°		7. ELEVATION TOP OF ROCK 827.6	
BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							Depth	ELEV.
Diamond	Tecumseh Shale Frm.	1		790	Shale, firm, dark gray		75 ⁵	789.2
		2	81 ⁵	783.2			80°	784.7
	Avoca LS Mbr.	3	86 ²	778.5	Limestone, unit bedded, gray, hard. shaly break 1° from top, 0 ³ thick.		83 ³	781.4
			87 ⁵	777.2	Shale, gray green very firm		85 ⁸	778.9
Hawthorn	King Hill shale Mbr			774.9	very limy shale with ls. stringers, gray-green			
			93 ⁹	770.8	shale, very firm, gray-green			
	Beil LS Mbr.		102 ⁸	761.9	Limestone, upper 3 ⁶ has numerous shaly zones, lower 5 ³ is a harder more massive limestone with minor shaly zones, gray			
	Queen Hill Shale		106 ⁴	758.3	Shale, black, fissile, hard			
	Big Spring		108°	756.7	Limestone, hard			
				750				

Core Hole 8

004-089-K-3362-05

Bridge 28.66

03 of 03

Core 1

73°-77°

73°-77°

Shale, dark gray, very firm

cored 4⁵Recov. 4⁵sample
1

74°-75°

shale, dark gray, very firm

RQD = $4^3/4^5 \times 100$

= 95.6%

Core 2

77°-82°

77°-81°

shale, dark gray, very firm

cored 4⁸Recov. 4⁸

sample

2

79°-80°

shale, dark gray, very firm

RQD = 100%

Core 3

82°-86°

82°-82°

Limestone, shaly, dark gray

cored 4⁵

82°-86°

Limestone, hard, unit bedded, gray, fossiliferous

Recov 4⁴

86°-86°

Shale, gray, very firm

RQD = $4^3/4^5 \times 100$

= 93.3%

sample

3

82°-83°

Limestone, dark gray, impure

sample

4

85°-85°

Limestone, gray, very hard

BM 61

864.17

T

5.36

869.53

28+99, 66 Rt

4.83

864.70

BM 61

5.36

864.17

Project # 004-089-K-3362-05 Bridge # 28.66
Oakland Expressway over KS River

Core Hole 8

864.7

00-98

5 ft

Log

98-371

Sand, silty, lower 20 fts coarser with some gravel

Sta 628199, 66RT

8-61

371-385

Shale, weathered

Road Bryan chuck

385-815

Shale, firm, dark gray, lower 5 grades to limy shale

4-80

limy shale

North Bank of the KS River

815-823

LS, hard, gray, very fossiliferous

AVOCA

823-826

LS, shaly, dark gray

826-859

LS, hard, unit bedded, gray, fossiliferous

859-862

LS, shaly, impure, dark gray, fossiliferous

862-875

Shale, gray, grades to gray green

875-898

very shaly LS to very limy shale, much firmer

898-939

Shale, gray-green

939-941

LS, shaly, gray

941-946

LS, hard, gray

946-950

LS, shaly

950-960

LS, hard

960-975

LS, shaly zones

975-1015

LS, hard, gets harder as you go down

1015-1022

gray

1022-1028

LS, shaly

1028-1064

LS, hard

1064-1066

Shale, black, fissile

Queen Hill
Big Spring
LS

1080

515

Note:
Set casing to 388
Strat from 388 to 730
Core 730 to 868
Strat 868 to 1080

KANSAS DEPARTMENT OF TRANSPORTATION

Report of sample of Geology CoresLaboratory No. 94-0201Date Rep'td. January 27, 1994Date Rec'd. January 25, 1994Specification No. - - Quantity - - -Source of material ProjectSample from ProjectSubmitted by John Jimenez, Lawrence Geology OfficeIdentification marks Tags with samplesProject or POV 4-89 K-3362-05, Bridge #28.66, Shawnee County, District 1Type of construction Bridge Kansas River Bridge Core Hole 8

TEST RESULTS

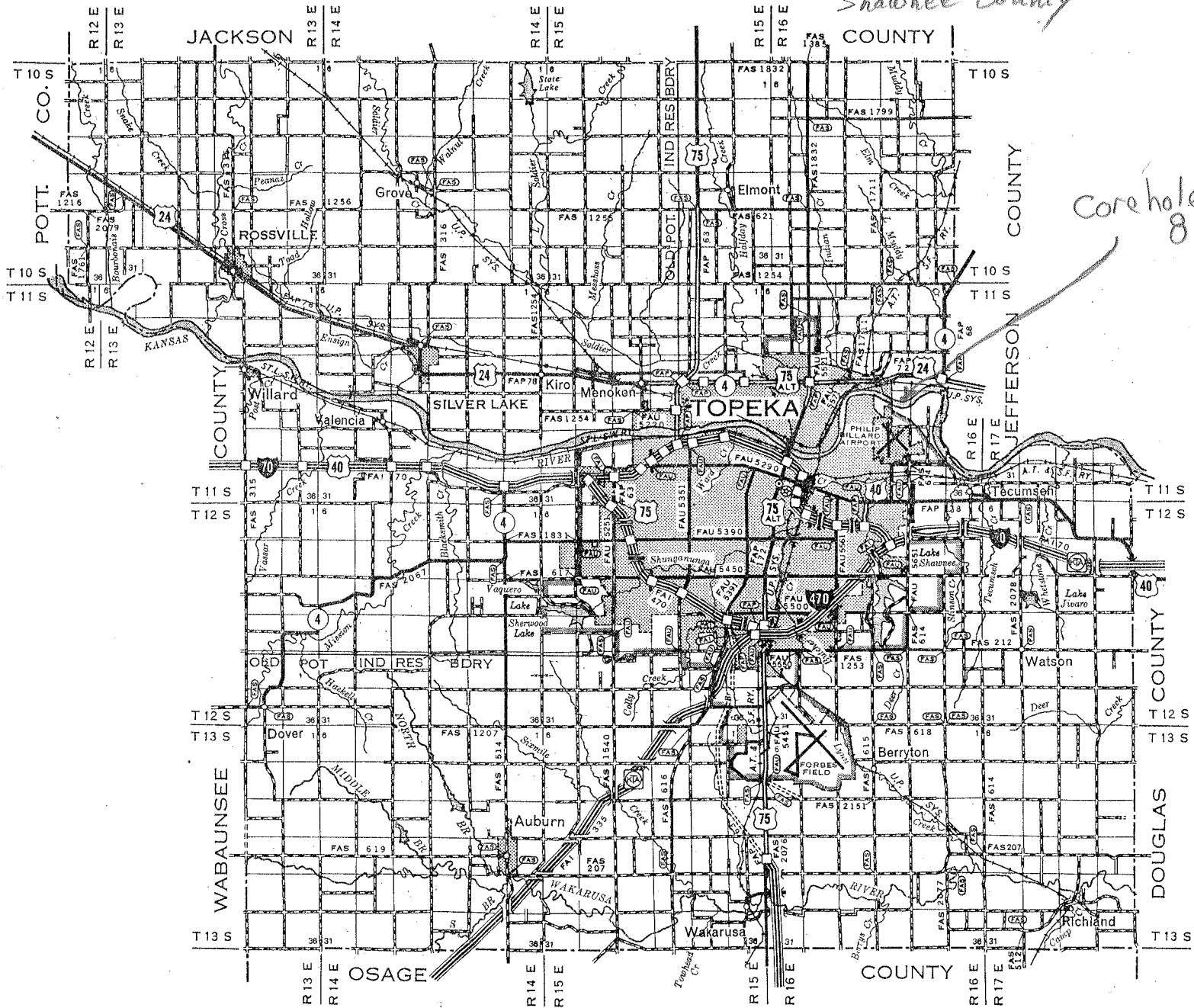
Sample No.	Station	Dist.ft. CL	Depth ft.	Description	Qu. t.s.f.	Sample p.c.f. by Dry Wt.	Moisture (% of Dry Wt.)
CD-1	628+99	66' Rt	748-755	Sh, gry, firm	15.354	128.3	10.9
CD-2	"	"	794-800	Sh, gry, firm	11.760	124.8	11.8
CD-3	"	"	826-833	Ls, gry impure hard	394.912	161.3	1.7
CD-4			852-858	Ls, gry hard massive	640.231	164.8	0.7

cc: L.S. Ingram
L.A. Rockers
J. Jimenez ✓
J.J. Brennan
Soil Section
File

Reported by Maris Hunt forTitle James J. Brennan, Soils Engineer

Project 004-089-K-3362-05

Br. No. 004-089-28.66
Oakland Expressway over Kansas River
Shawnee County



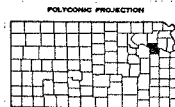
LEGEND

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, 1968

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

SCALE
1986