

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY *Shownee* PROJECT NO. *70-89-K-2446-01* BRIDGE NO. *10.71*DESCRIPTION *Fair lawn Rd over I-70* STA. *78+83.111' L + E Mainline*GEOLOGIST *Clarke* VERTICAL SCALE *1" = 10'* DATE *Mar 1990*

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
								BLOWS	ELEV.
					960				
						T.H.E. 957.93			
					950				
					940				
				19'	938.4				
				24'	933.13	Ss - tan - wtd - poorly cemented Hard, brown, concretionary nodules	27.6	So 1	933.5
					930	Sandstone - tan to tan/gray - hard Shale lenses, firm, gray	91.6	So 2	931.4
					923.23		96.9	So 3	929.2
							79.2	So 4	928.6
					920	Shale - gray, firm, sandy ss stringers, hard, gray, wavy bedded	117.0	So 5	926.3
							86.9	So 6	924.4
							30.9	So 7	921.7
							45.9	So 8	919.8
							13.0	So 9	917.2
				42.3	915.63	Sh - gray, limy, hard	30.0	So 10	914.5
				44.4	913.33	ls, gray, hard, fossiliferous	507.1	So 11	912.7
				45'	912.63	T.D. 912.63			
					910				

Qu
20 Shelby 1
1.1 Shelby 2
Pushed 4" casing

5/30/90

Proj = 70-89 K-2446-01
Fairbairn Road over I-70
Br # 10.71

DL	+	H1	-	Elev.	
ERC = 29A				979.98	Sta 9+84, 19 ⁵ L+Q Fairbairn Rd
T.	0.35	980.33			
CC = 1A			22.40	957.93	Sta 10+72, 59 L+ 2 Fairbairn Rd
					Sta 78+83, 111 L+ 2 I-70
					Sta 49+46, 59 R+ 3 Fairbairn Rd
CC = 1A				957.93	0° - 4° Silty Clay, dk brown, soft, moist
				953.93	4° - 6° Shelby Tube #1
				951.93	6° - 9° Silty Clay, dk brown to brown/black, soft, moist
				948.93	9° - 11° Shelby Tube #2

* Shelby Tubes Taken Through 8" Hollow Stem Auger

Coring	1	3'	3'
	2	7'	10'
	3	7'	17'
	4	3'	20'
		- 1'	19 ⁵

* Drive Casing to seal only
19³ - 19⁴ = 7 BPT
19⁴ - 19⁵ = 8 BPT

938.43	19 ⁵ - 19 ⁶	Ss, w/td, tan to brown, firm	* Returned cuttings, hard, brown, sharp from concretions in ss. (see Core #1)
938.33	19 ⁶ - 19 ⁸	Ss, w/td, tan to brown, firm to hard	* Returned cuttings, hard, brown, sharp from concretions in ss. (see Core #1)
			* Ss contact - 938.4 - Casing reached resistance and presence of cuttings like those found in Core #1

K-2006-01 Br #1071

Core #1
Cut 1st
Rec 1st
RQD 100% = X
23°-24°
Sa #1 23°-24°
23°-23° lost *
23°-24° Ss, tan, w/ht, soft, fine grad
Tan hollow, concretions, nodules from 23°-23°
Ss crumbles between fingers
* 23°-23° lost due to large sample is free
that fell in hole See top Core #1 Box #1

Core #2
Cut 2nd
Rec 1st
RQD 100% = X
24°-27°
Sa #2 26°-26°
24°-25° lost *
25°-27° Ss - tan/gray, firm to hard
A few soft, gray, sh. lenses
27°-27° lost *

Core #3
Cut 3rd
Rec 3rd
RQD 0°-0° = 32%
27°-31°
Sa #3 28°-28°
Sa #4 28°-29°
27°-27° lost
27°-28° Ss - hard, tan/gray
Some hard H gray, thin concretions to 28°
Few gray, soft sh. lenses
28°-30° Ss hard, gray
Some gray, soft sh. lenses
No concretions
30°-31° lost

Core #4
Cut 1st
Rec 1st
RQD 100% = 100%
31°-32°
Sa #5 31°-31°
31°-31° Ss - hard, tan/gray
Ss - tan/gray, hard
Some gray, soft sh. lenses
31°-32° Ss - tan, hard
Some gray, soft sh. lenses
32°-32° Ss - gray, hard, limy?
Some gray, soft sh. lenses

Core #5	20	K-2446-01	87#1071	
Cut 5°				
Rec 5°				
ROD	112° = 92%			
32°-37°				
Sa # 6	32°-33°			
Sa # 7	35°-36°			
Core #6				
Cut 5°				
Rec 5°				
ROD	101° = 76%			
37°-42°				
Sa # 8	37°-38°			
Sa # 9	40°-40°			
Core #7				
Cut 3°				
Rec 3°				
ROD	111° = 97%			
42°-45°				
Sa # 10	43°-43°			
Sa # 11	44°-45°			

May 1990

FD-89-K-2746-01

Shawnee Co

Fairlawn Rd over I-70

Sta 78+83, 111' L+ of mainline

Core No. 1

Depth: 19² to 24⁸

Elevation: 938.13 to 933.13

Cut: 5°

Recovered: 1⁶

RQD: N/A

Core No. 2

Depth: 24⁸ to 27³

Elevation: 933.13 to 930.63

Cut: 2⁵Recv: 1⁵

RQD: N/A

Core No. 3

Depth: 27³ to 31°

Elevation: 930.63 to 926.93

Cut: 3⁷Recv: 3⁵

RQD: 32%

Core No. 4

Depth: 31° to 32³

Elevation: 926.93 to 925.63

Cut: 1³Recv: 1³

RQD: 100%

May 1990

70-89-K-2446-01

Shawnee Co

Fairlawn Rd over I-70

Sta 78+83, 111' Lt of Mainline

Core No: 5

Depth: 32³ to 37³

Elevation: 925.63 to 920.63

Cut: 5°

Recv: 5°

RQD: 88%

Core No: 6

Depth: 37³ to 42³

Elevation: 920.63 to 915.63

Cut: 5°

Recv: 5°

RQD: 76%

Core No: 7

Depth: 42³ to 45³

Elevation: 915.63 to 912.63

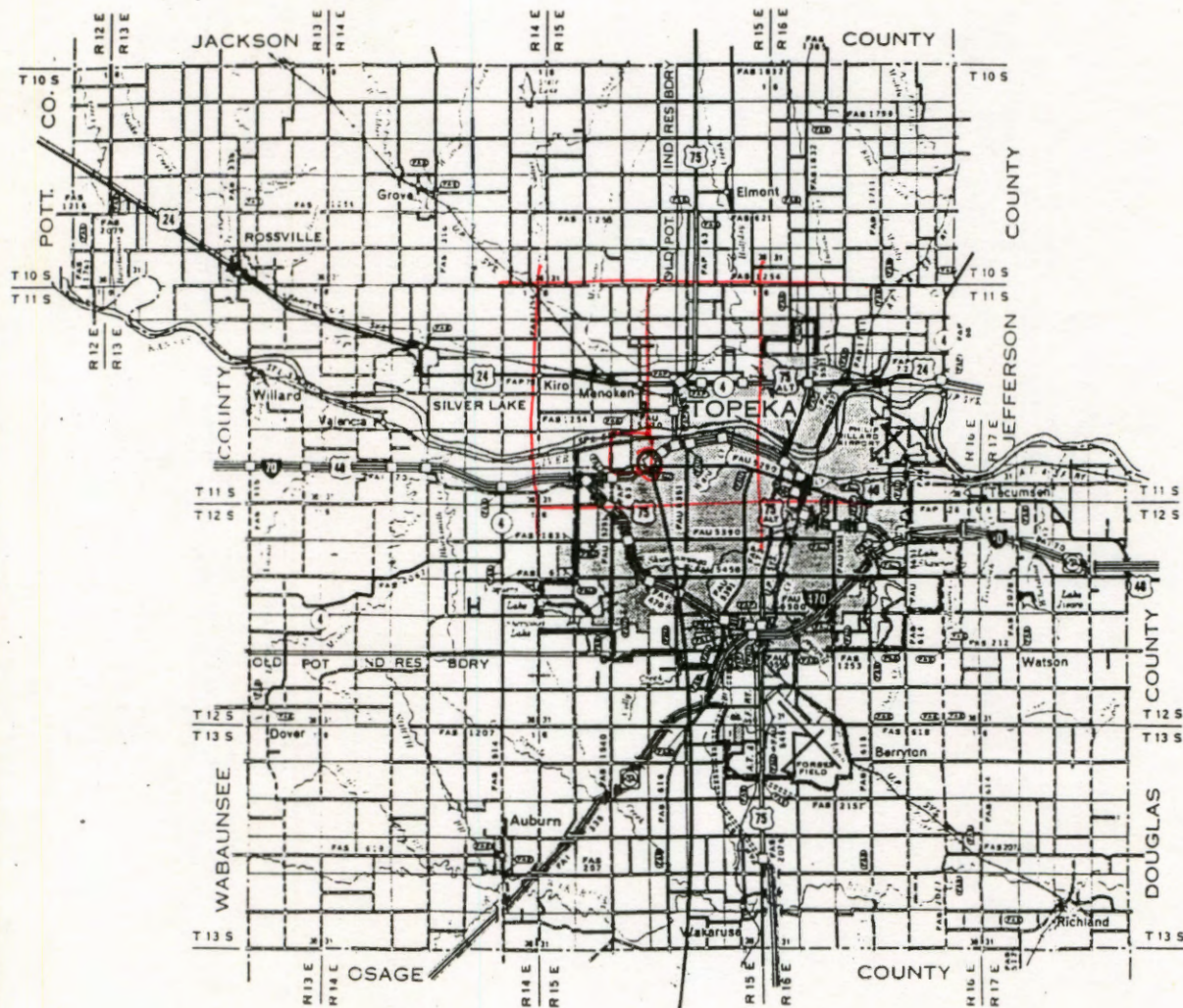
Cut: 3°

Recv: 3°

RQD: 97%

BRIDGE FOUNDATION GEOLOGY REPORT

Duplicate



LEGEND

ROADS AND ROADWAY FEATURES

PRIMITIVE ROAD	-----
UNIMPROVED ROAD	-----
GRAVEL AND GRAVELLED ROAD	-----
PAVED SURFACE ROAD	-----
GRAVEL OR STONE ROAD	-----
NOT GRAVELLED OR GRAVELLED	-----
GRAVEL OR STONE ROAD	-----
GRAVELLED AND GRAVELLED	-----
GRAVEL OR STONE ROAD WITH	-----
STABILIZED SURFACE	-----
BITUMINOUS ROADWAY TYPE	-----
PAVED ROAD	-----
GRAVELLED 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 NUMBERED HIGHWAY	-----
END OF DESIGNATED SYSTEM OR	-----
RAILROAD 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

SCALE
1:1000

SE-28-1W-1SE

6-45

Wabaunsee

white cloud member

70-89-K-2446-01

Br.No. 70-89-10.71
FAIRLAWN ROAD over I-70