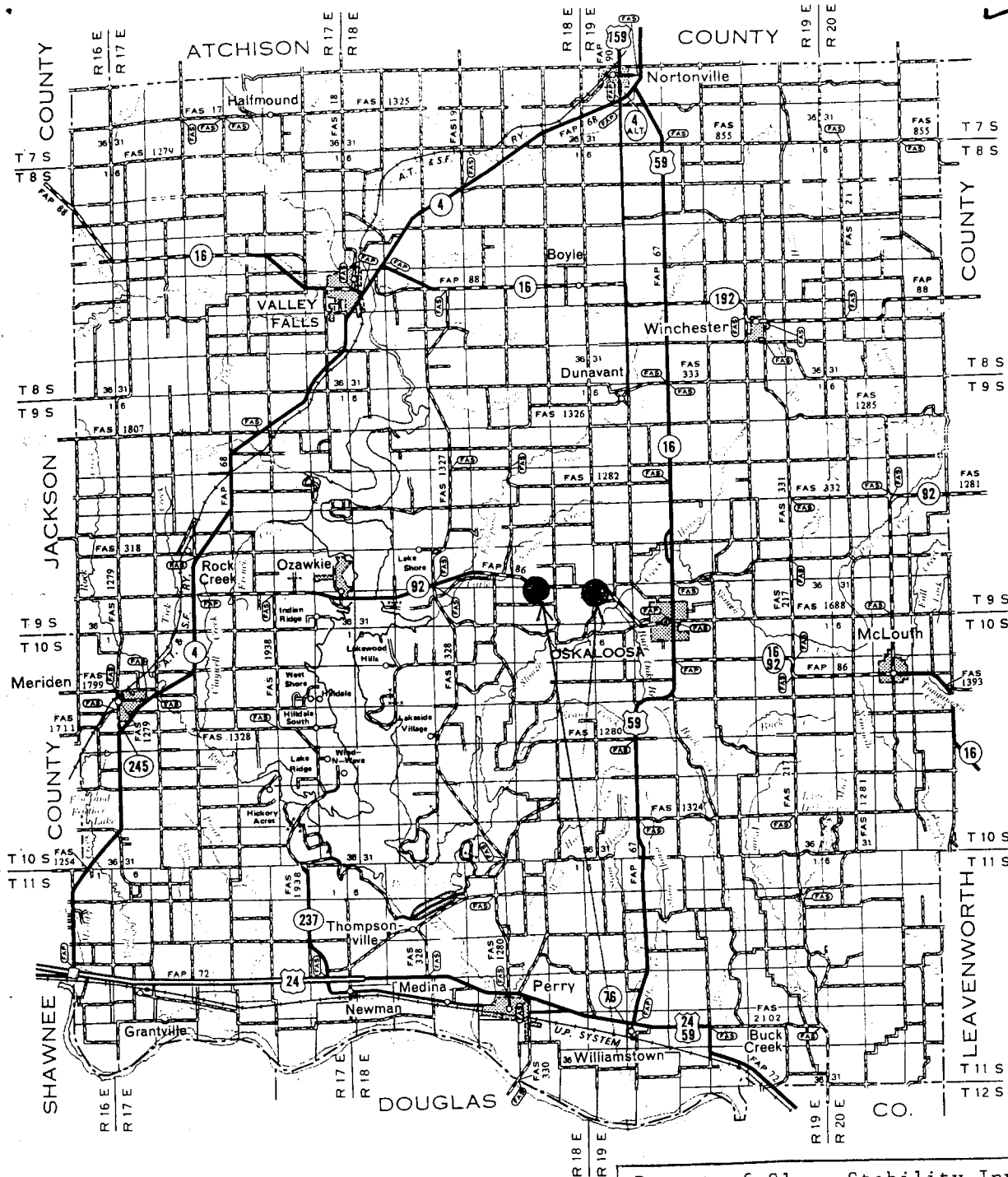




Report of Slope Stability Investigation
92-44 K-4371-01

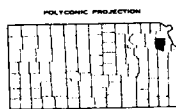
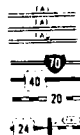
LEGEND

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 INTERCHANGES

ROAD SYSTEM DESIGNATION

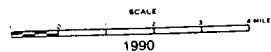
- FEDERAL AID INTERSTATE HIGHWAY SYSTEM
- FEDERAL AID PRIMARY HIGHWAY SYSTEM
- FEDERAL AID SECONDARY HIGHWAY SYSTEM
- INTERSTATE NUMBERED HIGHWAY
- U.S. NUMBERED HIGHWAY
- STATE HIGHWAY SYSTEM (SH)
- STATE NUMBERED HIGHWAY
- IND. OF DESIGNATED SYSTEM OR MARKED ROUTE



FA SYSTEM REVISED TO MAR. 26, 1991

GENERAL HIGHWAY MAP JEFFERSON 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



2DCφ



KANSAS DEPARTMENT OF TRANSPORTATION

1. ROUTE-COUNTY NO. 92-44	7. SOUNDING NO. CD #2	12. SHEET 1 OF 2
2. BRIDGE STA. 533+84	8. PROJECT NO. K-4371-01	13. BRIDGE NO. 92-44-11.04
3. DESCRIPTION K-92 over Big Slough Creek	14. HOLE STA. 534+48	15. DATE 6/23/94
4. GEOLOGIST Art Peterson	16. VERTICLE SCALE 1" = 10'	17. ELEVATION TOP OF HOLE 967.5
5. DRILLER Bob Bergman	18. RIG B-61	19. ELEVATION TOP OF ROCK 961.3
6. GROUND WATER ELEV. 945.6	20. TOTAL DEPTH OF HOLE 41'	

BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV.
					Abut. #2			
					T.H.E.I. = 967.5			
3 1/2" Hawthorne	Soil Mantle		6 3/4		Silt, clay binder, brown to orange with sand and gravel near mantle-bedrock contact.			
	King Hill Shale Mbr.		10 3/4	960	960.4 LS, fractured, gray, orange stains	Sa*1	Qu = 3.26	959.5
	Beil LS. Mbr.		18 1/2	950	957.3 Shale, gray weathers orange-tan, limy Limestone, shaly, lt gray to gray contains shale stringers, fossiliferous (Fusulines)	Sa*1	Qu = 167.45	954.35
	Queen Hill Sh. Mbr.		22 3/4		948.8 Shale gray, lower 1' dk gray-black fissile	Sa*3	Qu = 370.93	950.5
	Big Spring LS. Mbr.		27 1/4	940	945.3 Limestone, shaly, lt gray-gray, fossiliferous (Fusulines)	Sa*4	Qu = 13.60	947.1
	Doniphan Sh. Mbr.		33 3/4		940.4 Shale, gray to green, limy to very limy contains shaly limestone (27'6"-29'6")	Sa*5	Qu = 168.73	943.6
	Spring Branch LS. Mbr.		38 3/4	930	934.3 Limestone, lt gray-tan, fossiliferous	Sa*6	Qu = 287.85	940.4
	Stull Sh. Mbr.		41'		929.2 Shale, sandy contains thin sandstone stringers, lt gray to gray	Sa*7	Qu = 219.82	932.9
					926.0	Sa*8	Qu = 2.088	927.7
				920	Core #1: 6' - 10' (961.3 - 957.2) Cut 3' Rec. 2' Core Rec. 74% RQD 46%			
					Core #2: 10' - 14' (957.2 - 953.5) Cut 3' Rec. 3' Core Rec. 100% RQD 35%			

15.7
10.2
8.5

DRILLING LOG (con't sheet)		SOUNDING NO. CD#2		PROJECT NO. K-4371-01		SHEET 2 OF 2		
ELEVATION TOP OF HOLE 967.5		GROUND WATER ELEV. 945.6		TOTAL DEPTH OF HOLE 41 ⁵		ELEVATION TOP OF ROCK 961.3		
BIT TYPE & NO.	GEOLOGIC NAME	STRATIGRAPHIC COLUMN	DEPTH	ELEVATION	CLASSIFICATION OF MATERIALS DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
							BLOWS	ELEV.
					Core #3: 14 ⁰ - 17 ¹ (953.5 - 950.4) Cut 3 ¹ Rec. 3 ¹ Core Rec. 100% RQD 89%			
					Core #4: 17 ¹ - 22 ⁰ (950.4 - 945.5) Cut 4 ⁹ Rec. 4 ⁹ Core Rec. 100% RQD 93%			
					Core #5: 22 ⁰ - 26 ⁸ (945.5 - 940.7) Cut 4 ⁸ Rec. 4 ⁸ Core Rec. 100% RQD 100%			
					Core #6: 26 ⁸ - 31 ⁹ (940.7 - 935.6) Cut 5 ¹ Rec. 5 ¹ Core Rec. 100% RQD 29%			
					Core #7: 31 ⁹ - 36 ⁹ (935.6 - 930.6) Cut 5 ⁰ Rec. 5 ⁰ Core Rec. 100% RQD 70%			
					Core #8: 36 ⁹ - 41 ⁵ (930.6 - 926.0) Cut 4 ⁵ Rec. 4 ⁵ Core Rec. 100% RQD 98%			