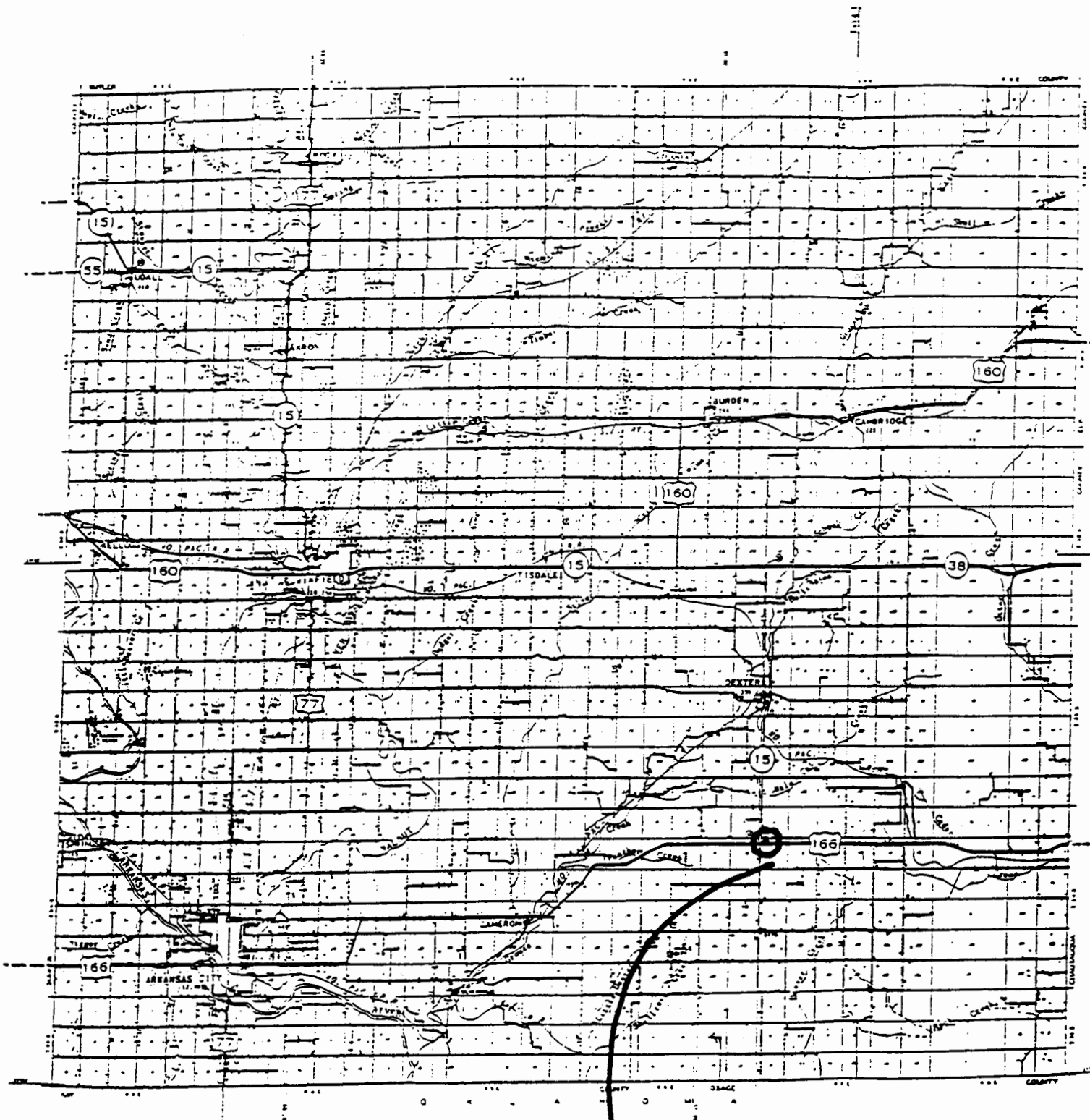


BRIDGE FOUNDATION GEOLOGY REPORT
Job No. 02905163C



NW - 7-34J-SE
0-56'

166-18 K-435501
Cowley County
Bridge at Sta. 981+78

COWLEY-18

Florena sh - Eskridge shale

Council Grove

LOG OF STATION: 981 + 63.5 RT 18.5', BORING NO. B-4-2

Page 1 of 2

OWNER KANSAS DEPARTMENT OF TRANSPORTATION				ENGINEER COOK, FLATT & STROBELL													
SITE COWLEY COUNTY, KANSAS				PROJECT 166-18K-4355-01													
GRAPHIC LOG	DESCRIPTION			DEPTH (FT.)	HORIZON	SAMPLES				TESTS							
						SPT - N BLOWS/FT.	TYPE	RECOVERY, in.	KDOT TEXTURAL SYMBOL	IN-SITU MOISTURE, %	IN-SITU DRY DENSITY, PCF	KDOT SAMPLE NUMBER	ATTERBERG LIMITS & QU RESULTS LL, PL, PI				
	1.5	CLAY, Very Dark Grayish Brown, 10YR 3/2		1217.8			PA										
		CLAY with Gravel, Very Dark Grayish Brown, 10YR 3/2			5		13	SS	16		18.2		1	46,20,26			
	7.5			1211.8			PA										
		CLAY with Gravel, Grayish Brown, 10YR 5/2			10		9	SS	18		28.3		2				
	11.0			1208.3			PA										
		CLAY with Gravel, Brown, 10YR 5/3															
	14.0			1205.3													
		CLAY with Shale and Limestone Fragments, Gray Brown, 10YR 5/2			15		50/4"	SS	8		18.6		3				
	16.0			1203.3				PA									
		**LIMEY SHALE with Limestone Stringers, Gray															
	19.0			1200.3													
	19.5	**LIMEY SHALE, Gray		1199.8	20		50/6"	SS PA	3				4				
		**LIMEY SHALE with Limestone Stringers, Gray (Florena)															
	25.0			1194.3	25		50/0"	SS PA	0				5				
	**SHALE, Maroon to Light Gray (Eskridge)																
29.0			1190.3														
	**SHALE, Maroon to Gray Brown (Eskridge)			30		50/4"	SS PA	3		16.2		6					
Continued Next Page																	

Continued Next Page

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WATER LEVEL OBSERVATIONS				BORING STARTED 7-15-93			
WL	8.5	W.D.	8.5	A.B.	BORING COMPLETED 7-15-93		
WL					RIG	CME 45	FOREMAN LR
WL					APPROVED	EMK	JOB # 02905163C

Terracon

Page 2 of 2

[illegible]

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES
BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WATER LEVEL OBSERVATIONS						Terracon	BORING STARTED 7-15-93	
WL	▽	8.5	W.D.	▽	8.5		A.B.	BORING COMPLETED 7-15-93
WL								RIG CME 45 FOREMAN LR
WL								APPROVED EMK JOB # 02905163C
WL								