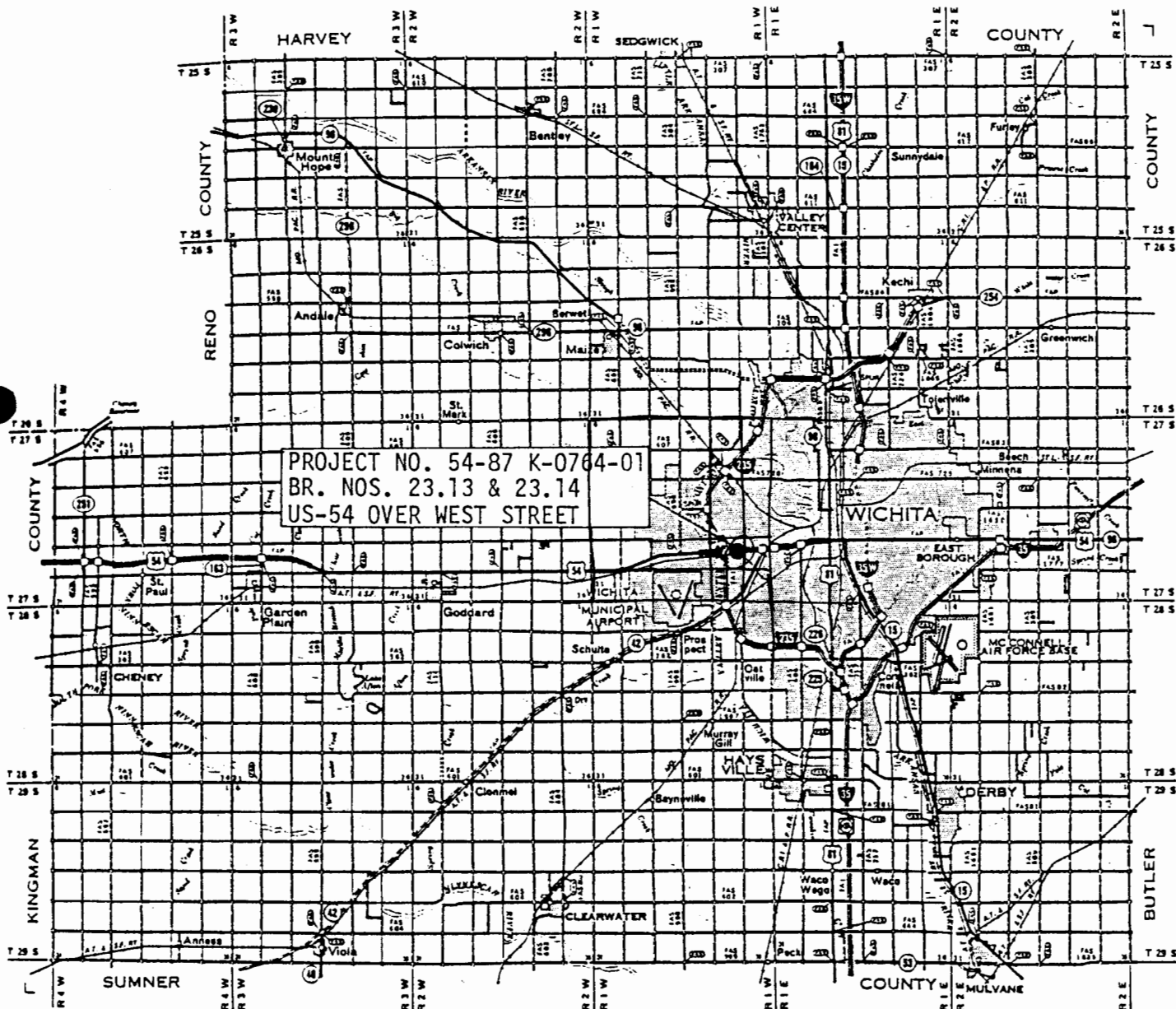




PROJECT NO. 54-87 K-0764-01
BR. NOS. 23.13 & 23.14
US-54 OVER WEST STREET

GENERAL HIGHWAY MAP
SEDGWICK COUNTY
KANSAS

STATE HIGHWAY COMMISSION OF KANSAS
DEPARTMENT OF PLANNING AND DEVELOPMENT
U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
BUREAU OF PUBLIC ROADS



1973

SW-NE-26-27S-1W

0-80

Sumner Group

Wellington FM

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY Sedgwick PROJECT NO. 54-87-K0764-0/BRIDGE NO. 23.13 & 23.14

DESCRIPTION US54 over West Street STA. 149+06, 55 Lt.

GEOLOGIST Koontz VERTICAL SCALE 1 inch = 10 feet DATE 2-83

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
								BLOWS	ELEV.
						T.H.E. 1304.0			
5 1/2" Hawthorne	Recent to Pleistocene	4" Casing	1292.2	3.0	1300	Silty Sand, Fine, tan-brown. 1301.0	Standard penetration Test Number	Blows per last foot penetrated	
				5.5		Sand, Silty & Clayey, brown, fine grained 1298.5			
				7.0		Sand, Clayey, tan to yellow-tan fine to med. 1297.0			
				9.0		Clay, very sandy, tan, drills some firmer 1295.0			
				13.0	1290	Easier, less clay-sand, Clayey tan to yellow-tan 1291.0			
				18.0		Sand and small gravel, fairly clean, losing H ₂ O. Contains thin clayey seams, tan. 1286.0			
					1280				
					1270				
				44.0	1260	Sand and gravel with some Silty Clay binder in zones. Some sand is medium to coarse with gravel to pea size. 1260.0			
				51.3		Sand and gravel with some tan-yellow clay (some fairly coarse Gravel. 1252.7			
NXM Barrel	Wellington Formation			57.0	1250	Fine uniform grained Sand. Contains a few minor clayey seams and streaks, yellow-tan clay, sandy to silty. 1245.5	2	28	1251.2
				58.5			Bottom casing	38	1247.0
				60.5		Core #1 cut 5 ² Rec. 47			
				63.5	1240	(See attached Sheet) 1240.5	3		1243.5
				68.5		Core #2 cut 5 ² Rec. 46			
						(See attached Sheet) 1235.5			
						T.D. = 68.5 Elev. 1235.5			

CD#2 Project 54-87-K0764-01 Sedgwick County
Sta. 149+06, 55 ft.

Core Descriptions

Core No. 1

Cut 52 Rec. 47

Elev. Depth

1245.5 58.5

Description

Top Core No. 1

1.6 Calcium cemented Conglomerate, Contains sand and shale grains, ironstone etc (good HCl reaction)

3.1 Shale, green-gray clay to limy
A few calcite inclusions, soft to fairly firm

4.7 Total Recovery

Core #2

Cut 50

Rec. 46 (0.2[±] Left in Hole)

1240.5 63.5

Top Core No. 2

0.8 Shale, green-gray clayey to limy with HCl calcite inclusions

3.2 Shale, dark-gray and gray, mostly clayey and silty, but contains a few ^{HCl} limy zones.
Fairly firm

0.2 Siltstone, hard gray (no HCl)

0.4 Shale, dark-gray and gray, fairly firm, clayey and silty

4.6 Total Recovery

C.D. No. 2 Project 54-87-K0764-01 Sedgwick County
Sta. 149+06, 55 Lf.

Split Spoon Samples and Standard Penetration Tests			
Sample No.	Elev.	Blow Count	Description
CD2-1	1260.0-59.5	3	Sand and gravel with some tan-yellow clay (some fairly coarse gravel)
	1259.5-59.0	2	
	1259.0-58.5	6	
	Total = 11		(blows per last foot of penetration = 8)
CD2-2	1252.7-52.2	8	Fine uniform grained sand. Contains a few minor clayey seams and streaks, yellow-tan clay, sandy to silty.
	1252.2-51.7	11	
	1251.7-51.2	17	
	Total = 36		(blows per last foot of Penetration = 28)
CD2-3	1247.0-46.5	15	Yellow-tan to yellow-green clay (residual shale) contains minor amount of fine sand in upper part, limy particles in lower part (firmer with depth)
	1246.5-46.0	19	
	1246.0-45.5	19	
	Total = 53		(blows per last foot of Penetration = 38)