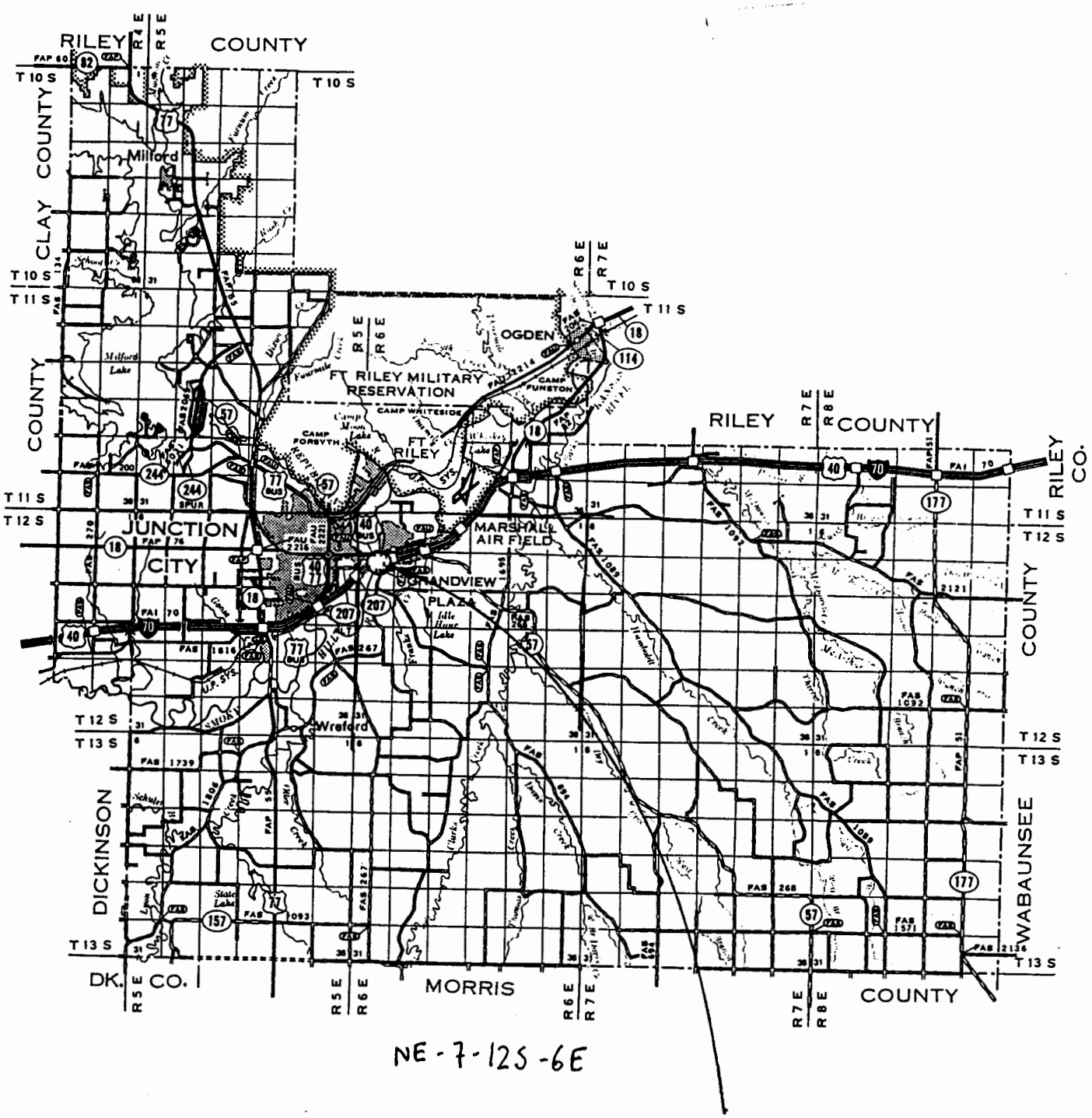
NOT SAMPLE



NE-7-12S-6E

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

BRIDGE FOUNDATION GEOLOGY REPORT

70-31 K-2611-02
Bridge No. 9.16, Sta. 588+96.25
Eastbound I-70 over Smoky Hill River
Geary County

ROUTE NO. I-70 E.B. SOUNDING NO. CD #2 SHEET 1 OF 2

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY Geary PROJECT NO. 70-31-K-2611-02 BRIDGE NO. 9.16

DESCRIPTION I-70 over Smoky Hill River STA. 590+46, Rt. 61' E. Proj.

GEOLOGIST Alex Kotoman-z VERTICAL SCALE 1" = 10' DATE 3-15-1989

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE BLOWS	ELEV.
						Pier #4			
						T.H. El. 1053.3			
	Alluvium				1050			Washed Hydraulic	1043.8
	Eosly Creek Fm.			20.6		1032.7			
				22.1	1030	1030.9 Wthd. Ls. jointed,			
				25.8		1027.5 Sh, limy, some firmness			
							Sa. #1		1026.8
						Sh, limy, maroon & lt greenish tan, (Disturbed); soft.		Qu. 7.31 t.s.f.	1025.4
					1020				
	Middleburg Mbr.			35.7		1017.6			
				36.4		1016.9 Ls., hard, dense, lt. grayish white			
				36.8		1016.3 Sh., limy, hard, dk. gray.	Sa. #2	Qu. 420 t.s.f.	
				40.1		1013.2 Ls., hard, dense, lt. gray.			1014.0
				40.7		1012.6 Sh., limy, hard, lt. gray.			
				41.5		1011.8 Ls., shaly, hard, lt. gray.			
				42.9	1010	1010.2 Sh, limy, firm, core shows hair line partings when exposed to air, lt. gray.	Sa. #3	Qu. 178.3 t.s.f.	
	Hooser Mbr.					lower of gypsum.			
						Sh, limy, hard, lt.-gray.	Sa. #4	Qu. 136.5	1007.8 t.s.f.
				50.0		1003.3	Sa. #5	Qu. 540	1005.2 t.s.f.
				51.9		1001.4 Ls., dense, hard, lt. grayish white	Sa. #6	Qu. 313	1002.3 t.s.f.
				53.2	100	1000.1 Ls., shaly, hard, lt. gray, lower 3" gypsum		t.s.f.	1000.6
	Ess Mbr.					Ls., shaly, hard, dk.-gray.			
				58.3		995.1			
				60.0		993.3 Sh, limy, with gypsum band, gray, hard.			
					990				

ROUTE NO. I-70 E.B. SOUNDING NO. CD#2 SHEET 2 OF 2

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY Geary PROJECT NO. 70-31-K-2611-02 BRIDGE NO. 9.16

DESCRIPTION STA. 590+46, Rt. 61' E Proj.

GEOLOGIST VERTICAL SCALE DATE

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE BLOWS	STANDARD PENETRATION OR CASING DRIVE ELEV.
						Core #1, 26'5"-28'5" (1026.8-1024.8) Cut 2'0" Rec. 1'4" R.Q.D. 55 % Core Rec. 70 % Core #2, 28'5"-33'0" (1024.8-1020.3) Cut 4'5" Rec. 2'6" R.Q.D. 0 % Core Rec. 58 % Core #3, 33'0"-38'0" (1020.3-1015.3) Cut 5'0" Rec. 3'4" R.Q.D. 16 % Core Rec. 68 % Core #4, 38'0"-41'1" (1015.3-1012.2) Cut 3'1" Rec. 2'8" R.Q.D. 40 % Core Rec. 90 % Core #5, 41'1"-45'9" (1012.2-1007.4) Cut 4'8" Rec. 4'5" R.Q.D. 21 % Core Rec. 94 % Core #6, 45'9"-50'0" (1007.4-1003.3) Cut 4'1" Rec. 3'9" R.Q.D. 19 % Core Rec. 95 % Core #7, 50'0"-55'0" (1003.2-998.3) Cut 5'0" Rec. 5'0" R.Q.D. 53 % Core Rec. 100 % Core #8, 55'0"-60'0" (998.3-993.3) Cut 5'0" Rec. 4'9" R.Q.D. 0 % Core Rec. 98 %			