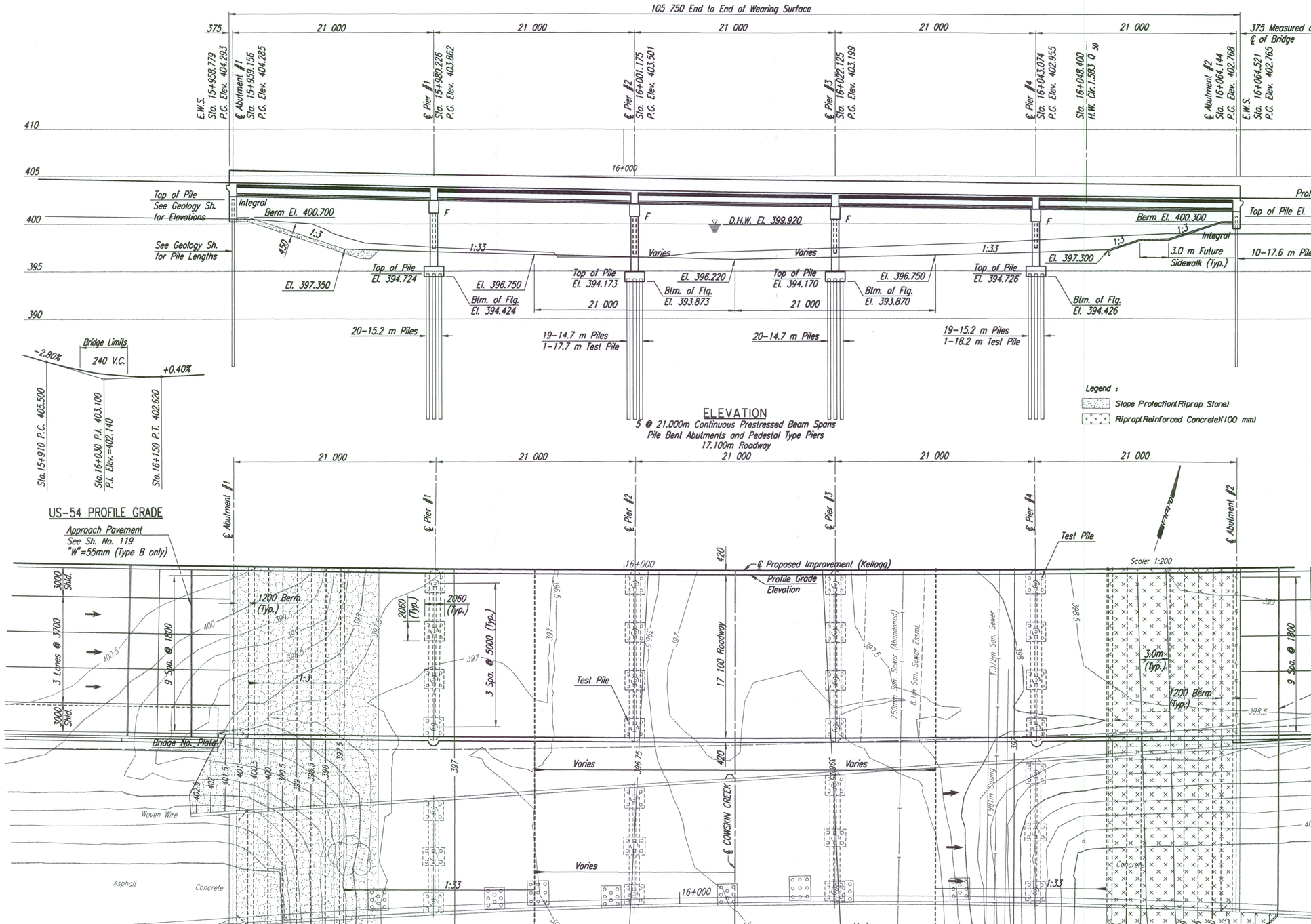
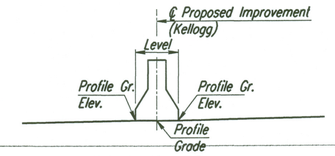
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	54-87 K-6657-01	2002	502	1122



ELEVATION

5 @ 21.000m Continuous Prestressed Beam Spans
Pile Bent Abutments and Pedestal Type Piers
17.100m Roadway

US-54 PROFILE GRADE



KELLOGG MEDIAN DETAIL

DRAINAGE DATA

Drainage Area---------- 277km²
Design Frequency---------- 50 years
Design Discharge (Q50)---------- 399 m³/s
Design High Water Elevation---------- 399.920
Design Backwater---------- 0.183m
Design Backwater Elevation---------- 400.065

Overtopping Elevation Sta. 16+120.000--402.560
Overtopping Discharge---------- 1330 m³/s
Overtopping Frequency----------->500 years

Discharge at Q100---------- 493 m³/s
Backwater at Q100---------- 0.244m
Backwater Elevation at Q100-------- 400.321

Historic High Water Elevation---------- 400.964
Ordinary High Water Elevation----------398.068
Total Waterway Provided---------- 467.9 Sq. M
Design Waterway Provided---------- 271.7 Sq. M

Legend :
Slope Protection(Riprap Stone)
Riprap(Reinforced Concrete)(100 mm)

PLAN

BM #25-C.O.W. Std. Disc. SW corner S. bridge over Cowskin Creek Sta. 15+963.766, 61.66m Rt. Elev. 403.181

BM #26-Chis. "a" center east end ditch inlet in Kellogg median, 73m ± west of Seville. Sta. 16+350.729, 25.78m Rt. Elev. 401.820

Note:
The thermal movement at the Abutments is +/- 13mm.

No.	Revisions	By	Date
1			

CITY OF WICHITA
BR. NO. 54-87-19.30 (493) E.B. STA. 16+011.650

CONSTRUCTION LAYOUT
EAST BOUND KELLOGG (US-54) OVER COWSKIN CREEK
SEDGWICK COUNTY

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	RAS	Checked by	RAS	
Drawn by	WLL/BJS	Date	April, 2002	Job No. 97362

Drawn by: wll/bjs
Plotted by: drp 3-25-2002
h:/1997/97362/001/bridge/cowsktn/mainline\cowlayeb