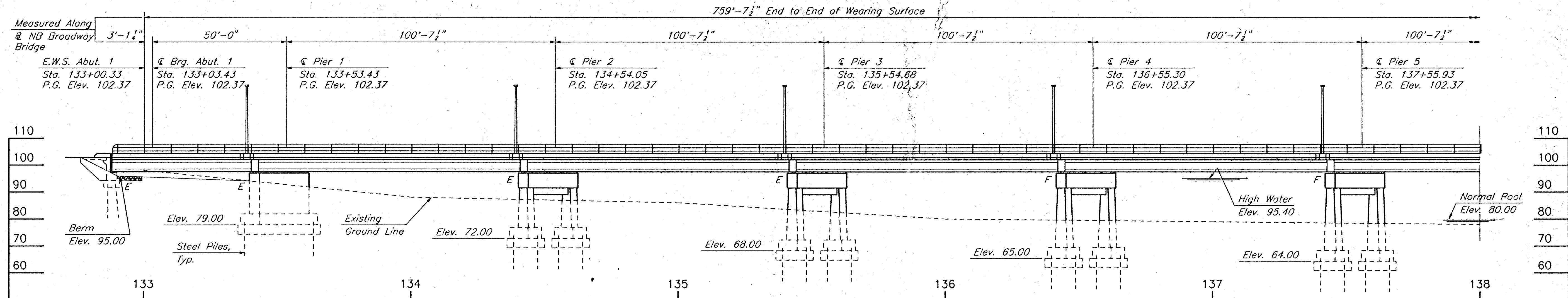
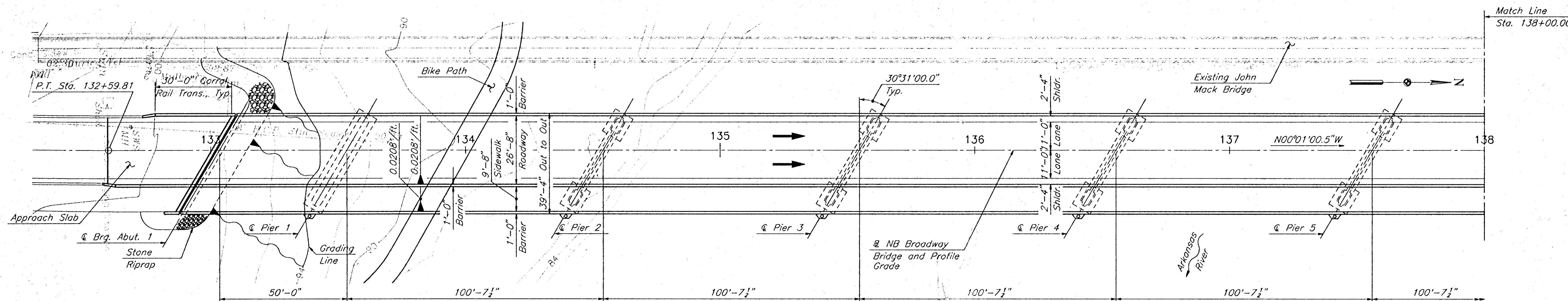


FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS		1993	27	35



ELEVATION
Scale: 1"=20'

50'-100'-7 1/2"; 100'-7 1/2"; 100'-7 1/2"; 100'-7 1/2"; 100'-7 1/2"; 100'-7 1/2";
100'-7 1/2"; 99'-8"; Prestressed Concrete Beam Spans
Pile Bent Abutments, Pedestal Type Piers
26'-8" Roadway; 9'-8" Sidewalk, 30° 31' 00.0" Skew Rt.



PLAN
Scale: 1"=20'

HYDRAULIC DATA

Drainage Area 40,490 Sq. Mi.
Design Frequency 100-Yr.
Design Discharge 26,000 CFS
Average Design Velocity 3.9 FPS
Design Highwater Elevation 1282.80 USGS (95.40 City)
Design Backwater 0.0 FT
Design Backwater Elevation 1283.10 USGS (95.70 City)
Overtopping Elevation (Sta. 147+50.00) 1284.90 USGS (97.50 City)
Overtopping Frequency > 500-Yr.
Historic Highwater Elevation 1283.70 USGS (96.30 City)
Total Waterway Area Provided 7541 Sq. Ft.
Design Waterway Area Provided 6674 Sq. Ft.

* Discharges for the 10-Yr. through 500-Yr. coincide in this reach.

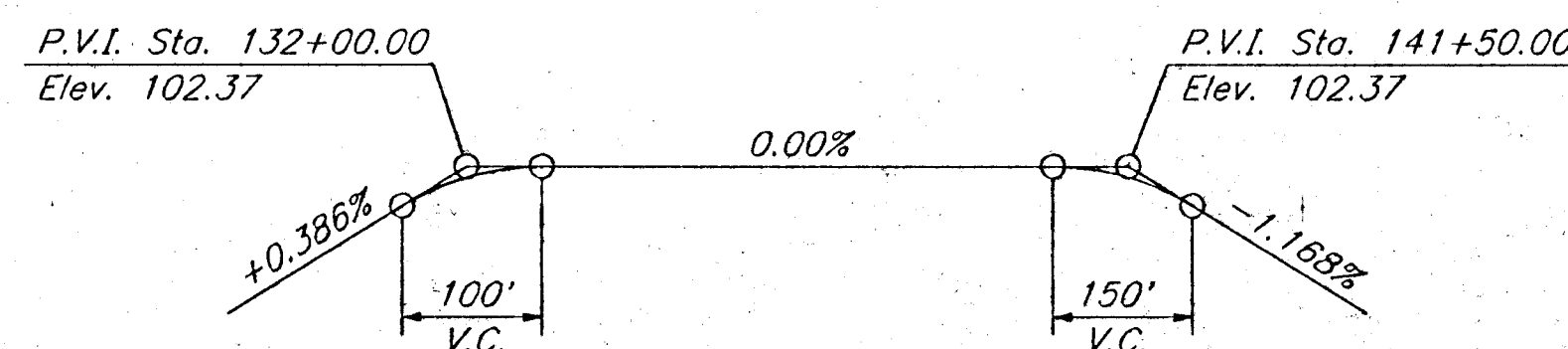
Notes: For General Notes and Typical Section, see Sheet 28.
Design plan elevations are based on City datum.

CURVE DATA NB BROADWAY

P.I. STA. 131+79.53
 $\Delta = 4^\circ 49' 10.6''$
 $D = 3^\circ 00' 00.0''$
 $R = 1909.86'$
 $T = 80.37'$
 $L = 160.65'$
 $E = 1.69''$
 $S.E. = R.C.$

BENCH MARKS

#3 Set chis "a" W side top conc. base light pole in mall SW cor. parking lot just N of Marion Rd. Sta. 144+70 NB Q, 100' Rt. Elev. 101.725
#4 C.O.W. disc S.E. cor. John Mack Bridge in E edge at E side walk Sta. 232+80 SB Q, 22' Rt. Elev. 102.89 = Elev. 1290.29 (USGS)



PROFILE GRADE NB BROADWAY
No Scale

THESE ARE PRELIMINARY PLANS

Subject to modification resulting from subsequent review and final design.

NO.	DATE	REVISIONS	BY	APP'D
3	6-11-93	Hydraulic Data, Pier Fixity	FWG	WCC
2				
1				
NO	DATE	REVISIONS	BY	APP'D

CITY OF WICHITA

BR. NO. 5304008700AR31 STA. 136+80.14

CONSTRUCTION LAYOUT

N.B. BROADWAY OVER THE ARKANSAS RIVER

SHEET NO.	SCALE	AS SHOWN	APP'D
DESIGNED	FWG	QUANTITIES	TRACED
DESIGN CK.	WCC	QUAN. CK.	TRACE CK.

14106 K:\B14106\P4 06/11/93 09:13

HNTB

HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

K:\B14106\P4 06/11/93 09:13