

USR-6 DESIGN DESIGNATION 1985 ADT = 6820 2005 ADT = 8190 DHV = 900 D = 55% T = 35% V = 70 MPH	USR-24 DESIGN DESIGNATION 1985 ADT = 4220 2005 ADT = 5060 DHV = 500 D = 55% T = 32% V = 70 MPH
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STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION  
**HEN-6-11.42**  
**HEN-24-9.61**  
PART I  
CITY OF NAPOLEON  
NAPOLEON & LIBERTY TOWNSHIP  
HENRY COUNTY

HENRY COUNTY HEN-6-11.42 HEN-24-9.61 FR-73 (42)	OHIO FHWA REGION 5 FEDERAL PROJECT	1 77
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**LIMITED ACCESS**

This improvement is especially designed for through traffic and has been declared a limited access highway or freeway by action of the Director in accordance with the provisions of section 5511.02 of the Revised Code of Ohio.

FOR PART II ~ SEE HEN-6-14.20 Except The Traffic Control Which Is Included In PART I

**1985 SPECIFICATIONS**

The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal shall govern this improvement.

I hereby approve these plans and declare that the making of this improvement will not require closing of the highway to traffic and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

**CONVENTIONAL SIGNS**

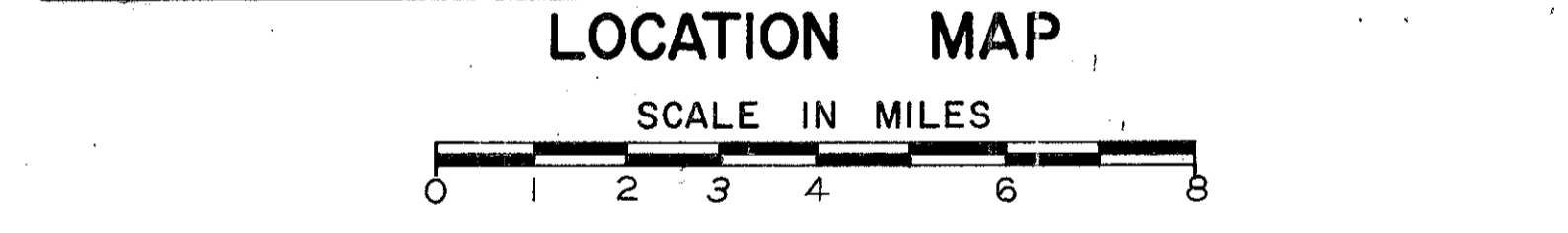
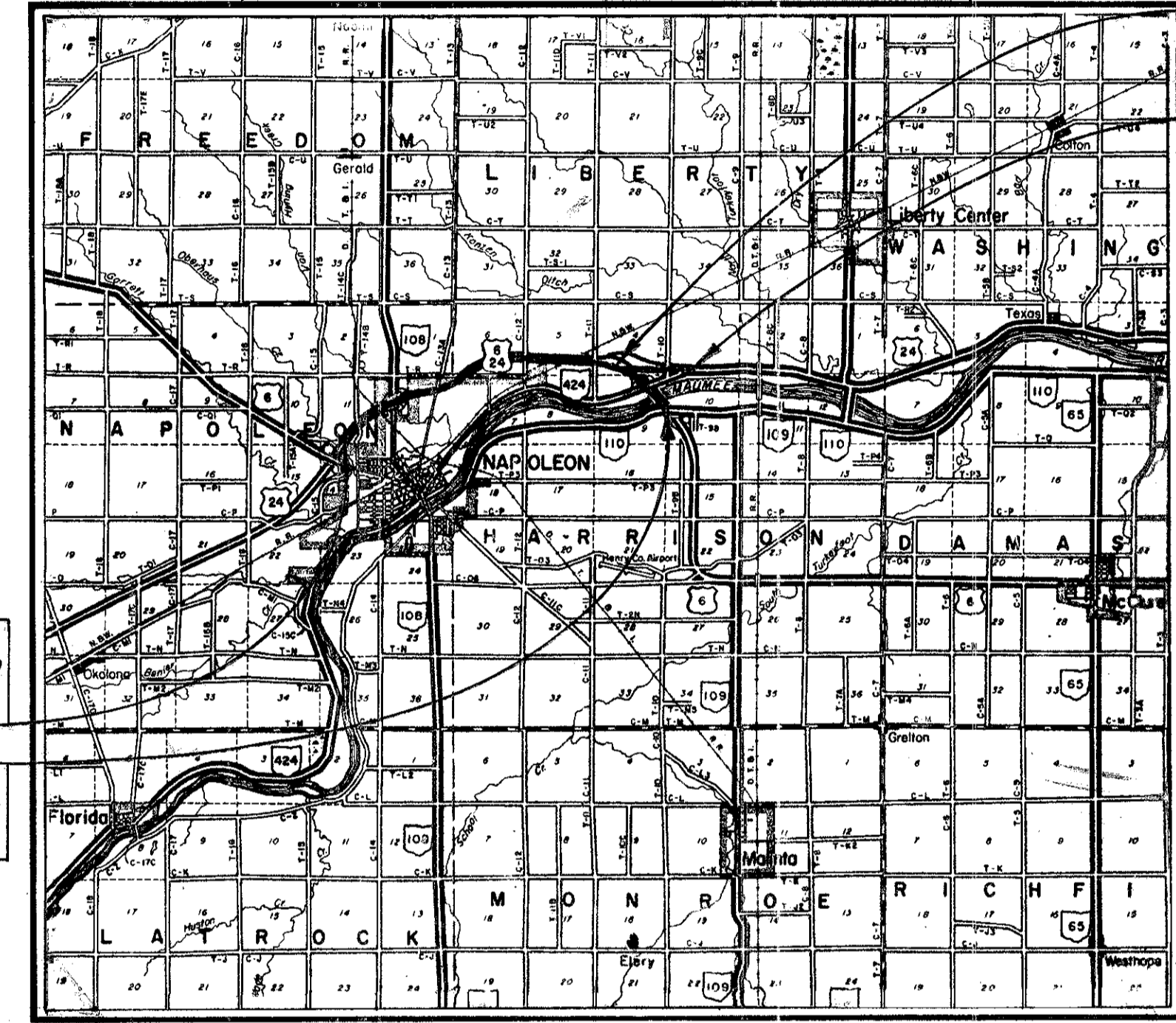
County Line	-----	Limited Access (only)	----- LA
Township Line	-----	Right of Way (only)	----- RW
Section Line	-----	Limited Access & Right of Way	----- LA & RW
Corporation Line	----- or -----	Existing Right of Way	-----
Fence Line (existing)	-x-x- (proposed) -x-x-	Property Line	— (in existing fence) —x-x-
Center Line	352 or 353	Railroad	----- or -----
Trees, Stumps	(to be removed)	Guardrail (existing)	o-o-o (proposed) o-o-o
Utility Poles: Telephone	φ		
Power	φ		
Light	φ		

**INDEX OF SHEETS**

TITLE SHEET	1
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TRAFFIC CONTROL	46-66
MAINTENANCE OF TRAFFIC SUPPLEMENTAL SHEETS	67-77
HEN 6-14.20	PART II
Sht. No. 25	not used

**LINE DATA**

USR-6 BEGIN WORK STA. 597+00.00 BEGIN PROJECT STA. 600+00.00 SUSPEND PROJECT STA. 603+02.52 RESUME PROJECT STA. 604+32.11 SUSPEND PROJECT STA. 643+23.30 RESUME PROJECT STA. 644+75.80 SUSPEND PROJECT STA. 654+60.61 RESUME PROJECT STA. 656+53.78 SUSPEND PROJECT STA. 666+31.97 RESUME PROJECT STA. 667+68.03 SUSPEND PROJECT STA. 791+54.68 RESUME PROJECT STA. 791+75.71 End Project Sta. 865+64.75 End Work Sta. 881+00.00 Length of Project = 25,932.47 Lin. Ft. or 4.911 Miles Length of Work = 28,400.00 Lin. Ft. or 5.379 Miles	USR-24 BEGIN WORK STA. 507+64.59 BEGIN PROJECT STA. 507+64.59 SUSPEND PROJECT STA. 517+42.20 RESUME PROJECT STA. 519+66.66 END PROJECT STA. 580+53.68 STATION EQUATION: STA. 580+53.68 BACK = STA. 785+63.35 AHEAD END WORK STA. 788+63.35 LENGTH PROJECT 7064.63 LIN. FT. = 1.338 MI. LENGTH WORK 7364.63 LIN. FT. = 1.395 MI. TOTAL PROJECT 25932.47 L.F. = 4.911 MI. 7064.63 L.F. = 1.338 MI. 32997.10 L.F. = 6.249 MI. TOTAL WORK 28400.00 L.F. = 5.379 MI. 7364.63 L.F. = 1.395 MI. 35764.63 L.F. = 6.774 MI.
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Portion to be improved: \_\_\_\_\_  
 State & Federal Routes: \_\_\_\_\_  
 Other Roads: \_\_\_\_\_

**SCALES**

Plan: \_\_\_\_\_  
 Profile: \_\_\_\_\_ Horizontal \_\_\_\_\_, Vertical \_\_\_\_\_  
 Cross Section: Horizontal \_\_\_\_\_, Vertical \_\_\_\_\_

BEGIN PROJECT  
STA. 507+64.59  
HEN-24-9.61

END PROJECT  
STA. 580+53.68  
HEN-24-9.61

BEGIN PROJECT  
STA. 600+00.00  
HEN-6-11.42

END PROJECT  
STA. 865+64.75  
HEN-6-11.42

**PARTS I & II**

SUPPLEMENTAL SPECIFICATIONS		
847	10-17-83	
848	10-2-85	
947	10-17-83	
932	3-25-85	

Approved R. J. Olman  
 Date 4-21-85 District Deputy Director of Transportation

Approved Walter J. Gering  
 Date 6-10-85 Engineer, Bureau of Bridges and Structural Design

Approved Wayne H. Kauble  
 Date 10-2-85 Chief Engineer, Planning And Design

Approved Waven J. Smith  
 Date 10-2-85 Director, Department of Transportation

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS (PARTS I AND II)

BP-3	12-6-76	CB-8	11-10-83				
BP-4	1-11-85	BP-13	1-11-85	TC-35.10	8-29-84	TC-21.20	1-20-84
BP-5	1-11-85	I-3C & D	4-1-80	DBR-2-73	4-10-73	TC-41.20	3-26-79
GR-1	1-11-85	HW-4B	4-1-80	TC-41.50	3-26-79	TC-22.10	3-1-79
GR-2B	2-5-82	MC-1	6-13-69	TC-42.20	3-26-79	TC-22.20	3-1-79
GR-3	1-21-85	MC-4	7-26-76	MH-1	12-18-84	TC-52.10	4-3-79
GR-3A	2-5-82	MC-9	1-30-84	MH-3	12-18-84	TC-52.20	4-3-79
GR-4	2-5-82	MC-9A	1-11-85	MH-5	6-12-75	TC-71.10	4-9-79
GR-4A	1-30-84	MC-11	8-1-78	TC-72.20	2-26-82		
GR-5	2-5-82	HW-4A	4-1-80	AS-1-81	11-27-81	TC-42.10	8-19-77
GR-6	2-5-82			TC-7.65	3-1-79		
GR-6A	2-5-82			TC-12.30	1-20-84		
				TC-21.10	1-20-84		

**UNDERGROUND UTILITIES**

48 HOURS  
**BEFORE YOU DIG**

CALL ... 800-362-2764 (TOLL FREE)  
OHIO UTILITIES PROTECTION SERVICE

NON-MEMBERS  
MUST BE CALLED DIRECTLY

Plan Prepared By:  
 DISTRICT NO. 7  
 OHIO DEPARTMENT OF  
 TRANSPORTATION

Project: HEN-6-11.42 HEN-24-9.61  
 Date of Letting: 19\_\_\_\_, Contract No. \_\_\_\_\_  
 LD0300 Rev. 11-1-78

SEAL

DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: \_\_\_\_\_  
 DIVISION ADMINISTRATOR DATE

FHWA REGION	STATE	PROJECT
5	OHIO	

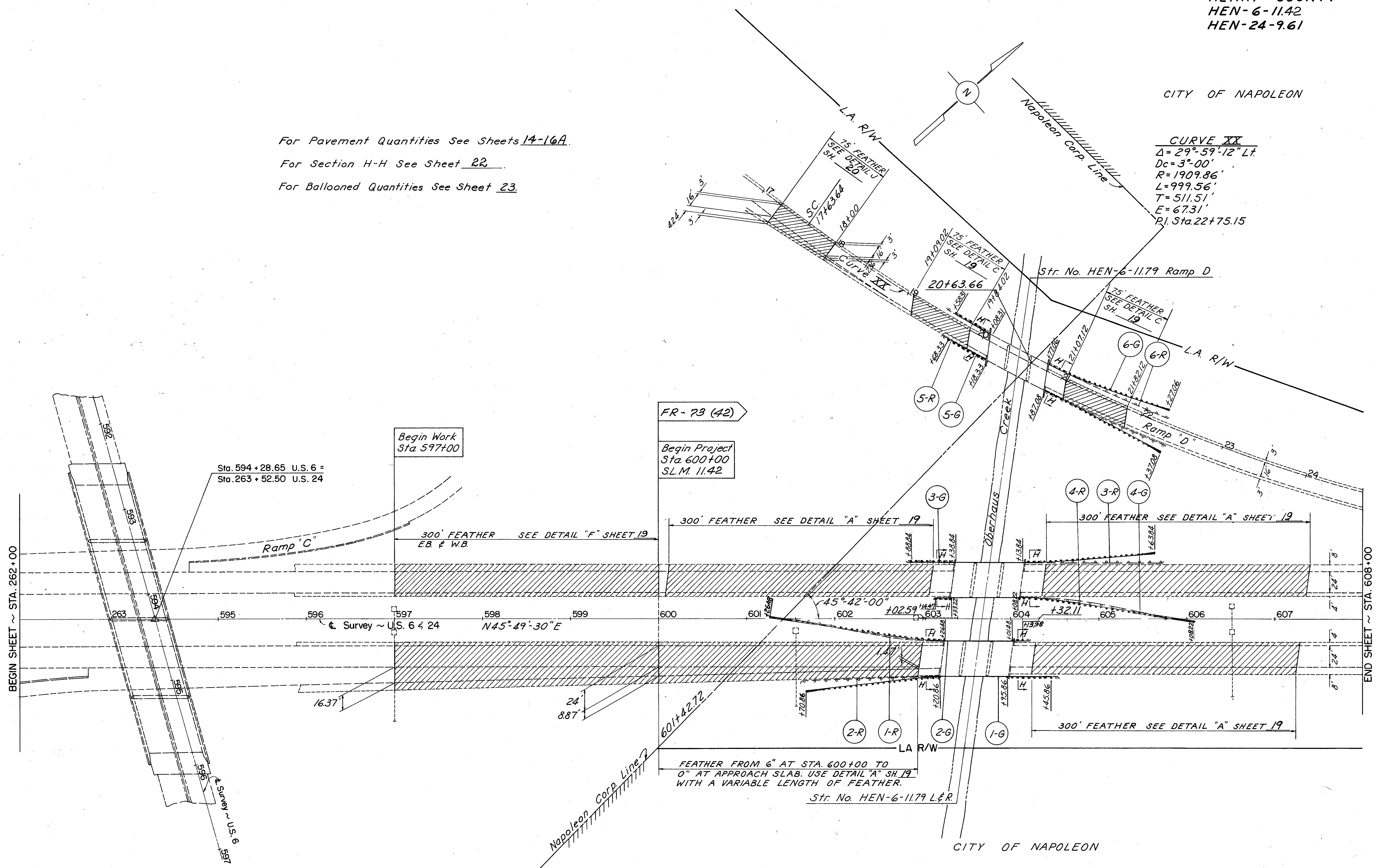
26  
77

HENRY COUNTY  
HEN-6-11.42  
HEN-24-9.61

CITY OF NAPOLEON

For Pavement Quantities See Sheets 14-16A.  
For Section H-H See Sheet 22.  
For Ballooned Quantities See Sheet 23.

**CURVE XX**  
 $\Delta = 29^{\circ}59'12''$  Lt.  
 $Dc = 3^{\circ}00'$   
 $R = 1909.86'$   
 $L = 999.56'$   
 $T = 511.51'$   
 $E = 67.31'$   
 P.I. Sta. 22+75.15



STA. 594+28.65 TO STA. 608+00 U.S.R. 6 & U.S.R. 24



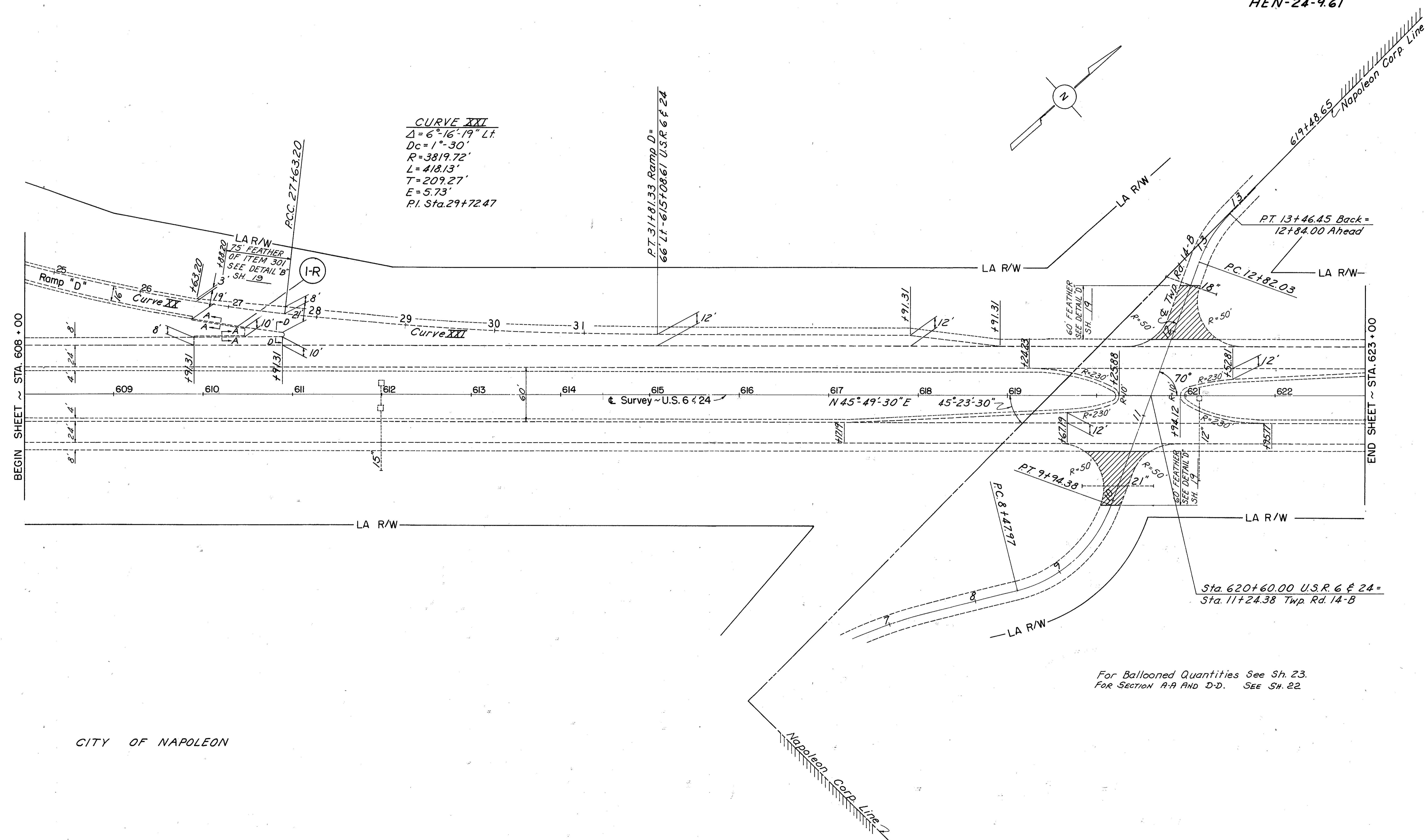
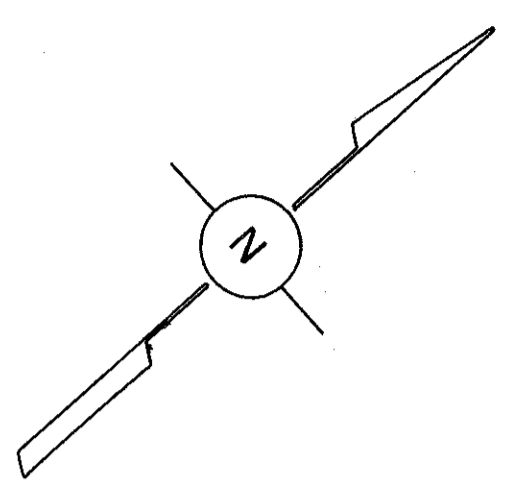
FHWA REGION	STATE	PROJECT
5	OHIO	

HENRY COUNTY  
HEN-6-11.42  
HEN-24-9.61

CITY OF NAPOLEON

CURVE XXI  
 $\Delta = 6^{\circ}16'19''$  Lt.  
 $Dc = 1^{\circ}30'$   
 $R = 3819.72'$   
 $L = 418.13'$   
 $T = 209.27'$   
 $E = 5.73'$   
 P.I. Sta. 29+72.47

P.T. 31+81.33 Ramp D =  
66' Lt - 615+08.61 U.S.R. 6 & 24

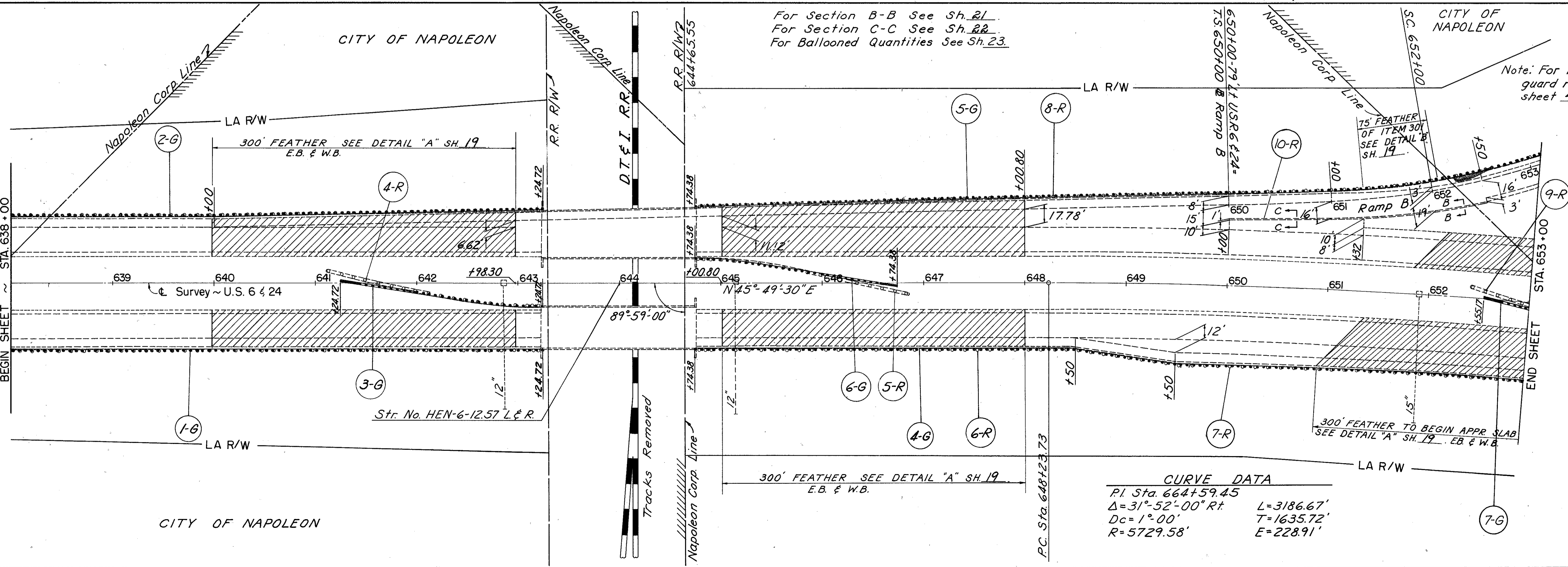
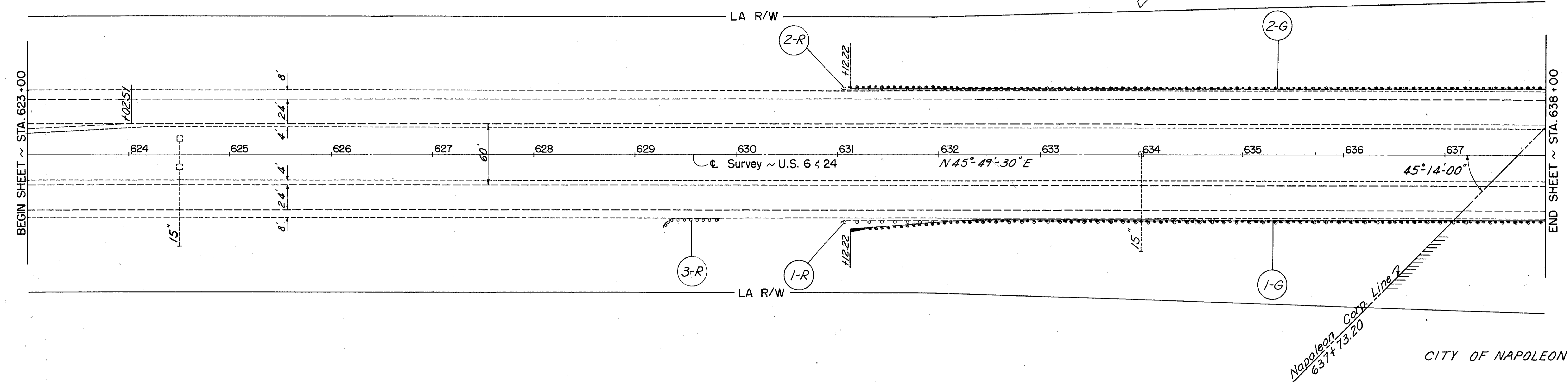
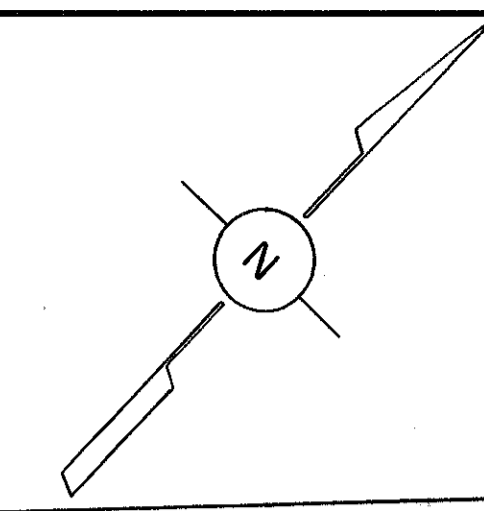


Sta. 620+60.00 U.S.R. 6 & 24 =  
Sta. 11+24.38 Twp. Rd. 14-B

For Ballooned Quantities See Sh. 23.  
For SECTION A-A AND D-D. SEE SH. 22

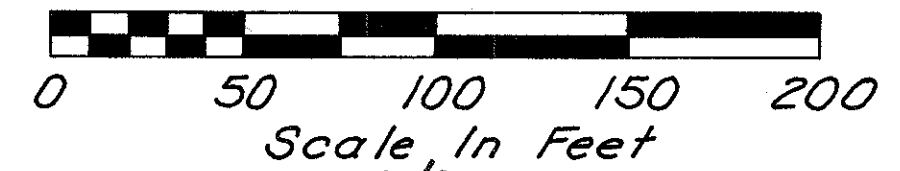
CITY OF NAPOLEON

HENRY COUNTY  
HEN-6-11.42  
HEN-24-9.61

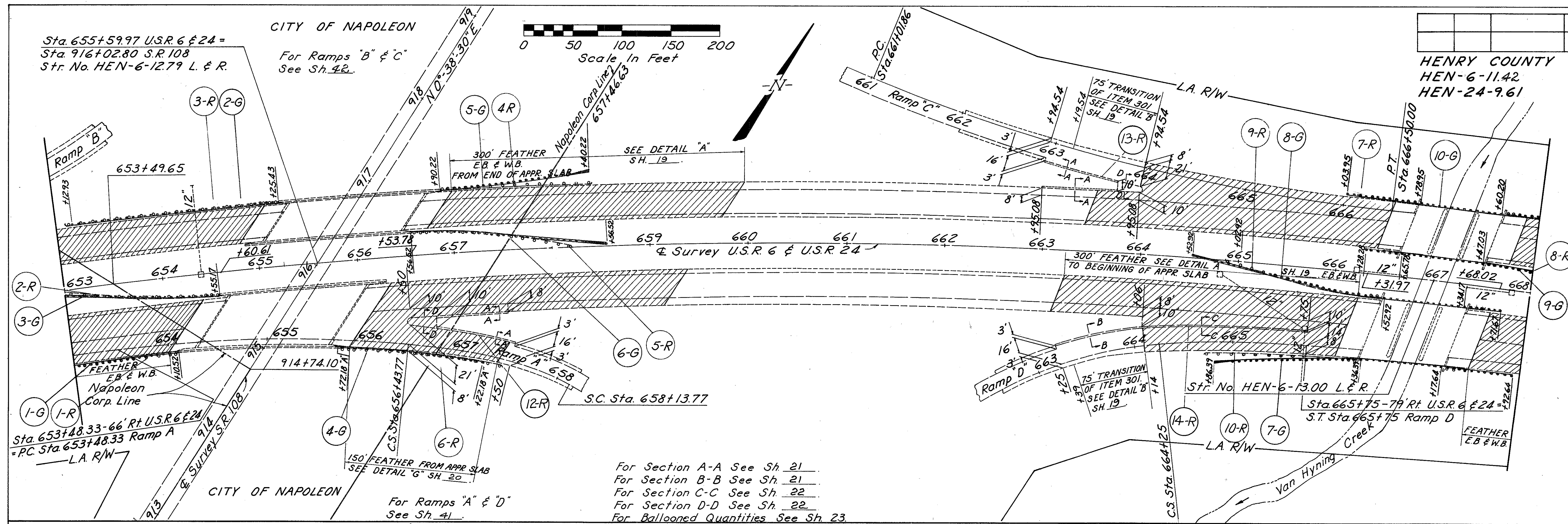


Sta. 655+59.97 U.S.R. 6 & 24 =  
Sta. 916+02.80 S.R. 108  
Str. No. HEN-6-12.79 L. & R.

CITY OF NAPOLEON  
For Ramps "B" & "C"  
See Sh. 42.

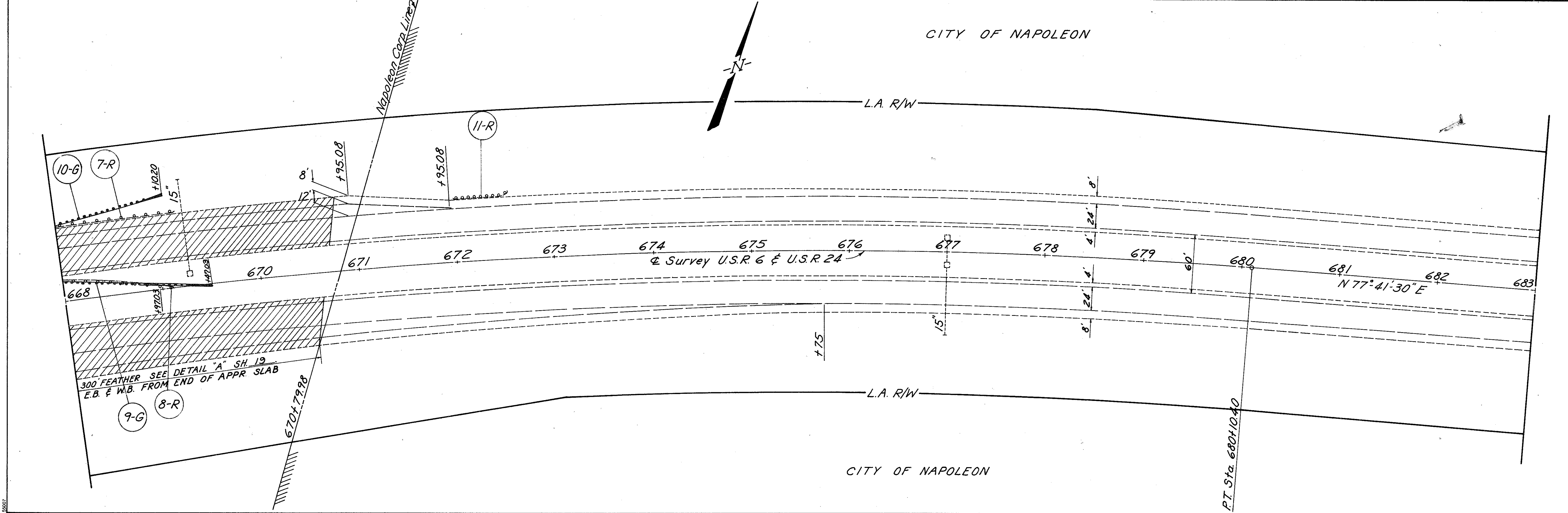


HENRY COUNTY  
HEN-6-11.42  
HEN-24-9.61



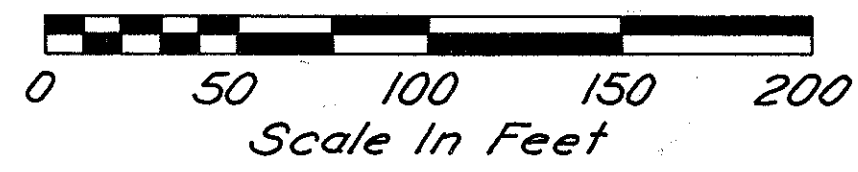
For Section A-A See Sh. 21  
For Section B-B See Sh. 21  
For Section C-C See Sh. 22  
For Section D-D See Sh. 22  
For Ballooned Quantities See Sh. 23

CITY OF NAPOLEON

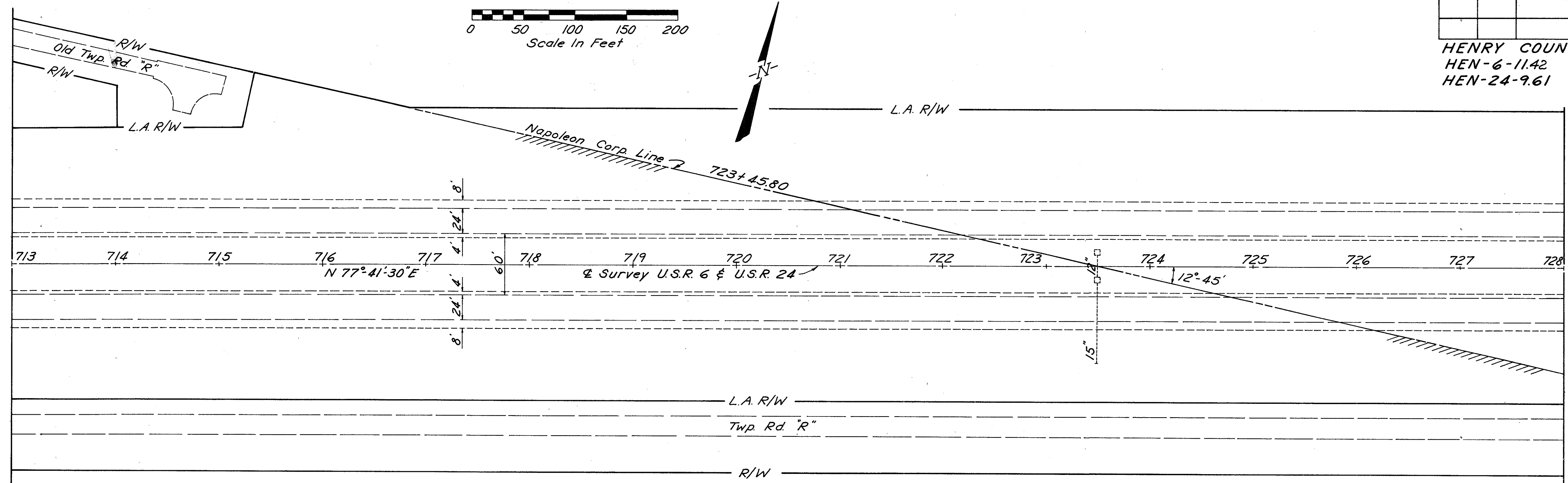




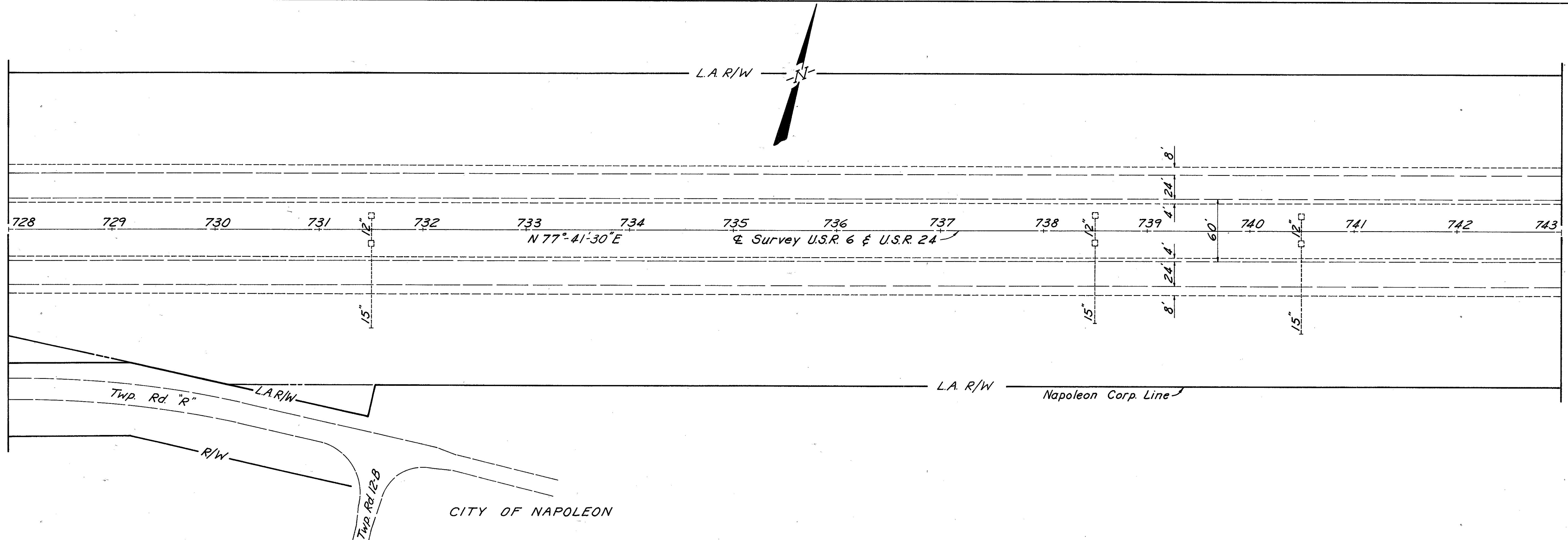




HENRY COUNTY  
HEN-6-11.42  
HEN-24-9.61

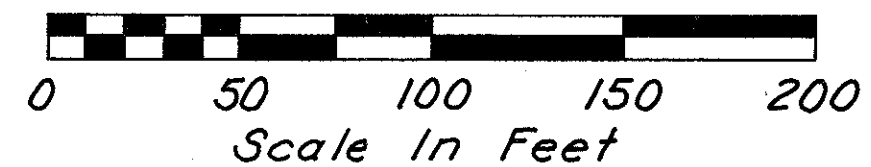


CITY OF NAPOLEON

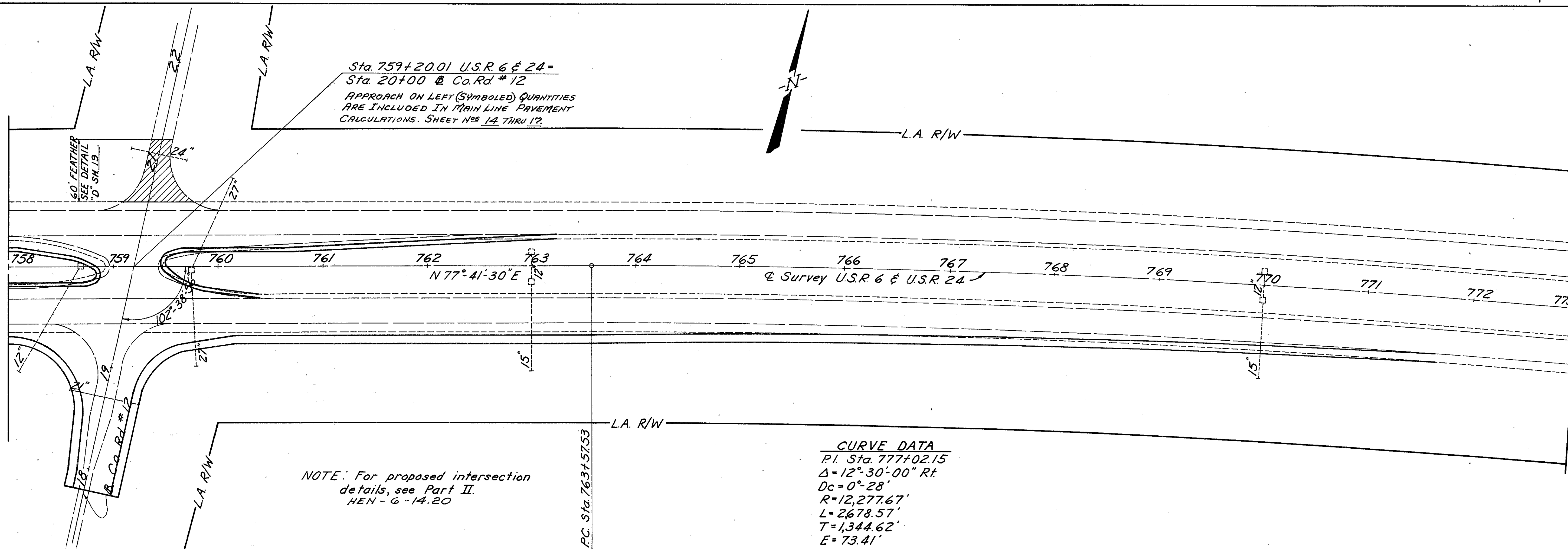
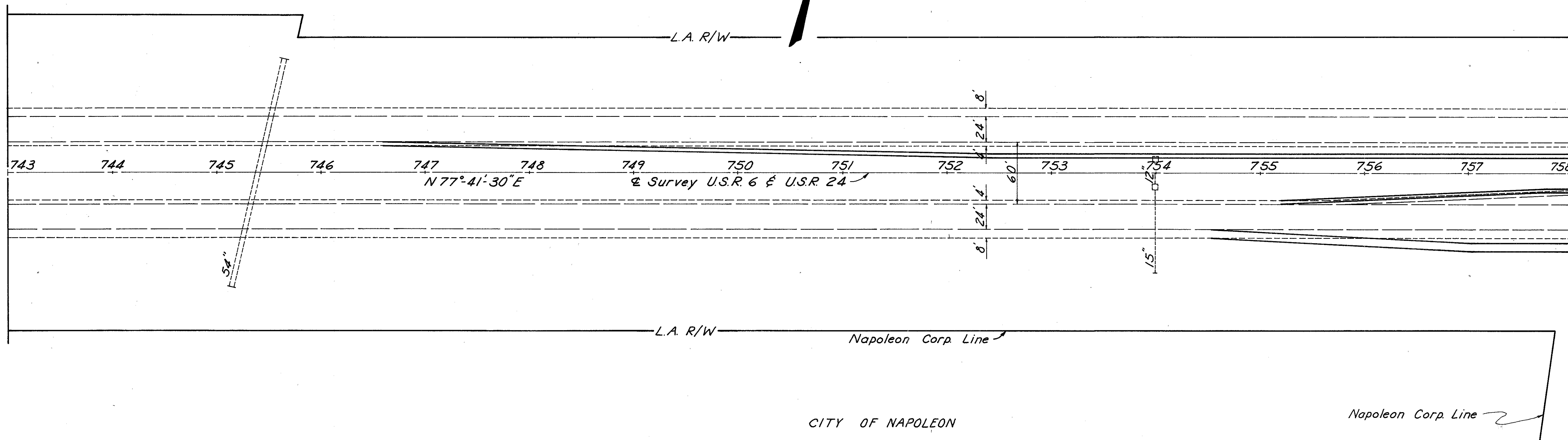


CITY OF NAPOLEON

STA. 713+00 TO STA. 743+00 U.S.R. 6 & U.S.R. 24



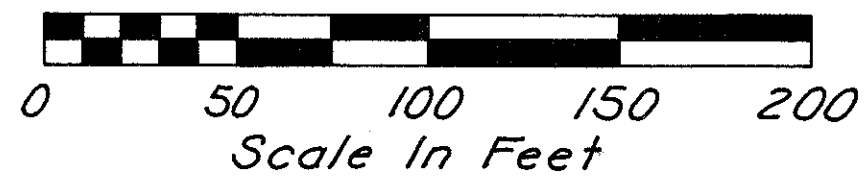
HENRY COUNTY  
HEN-6-11.42  
HEN-24-9.61



CURVE DATA

PI. Sta.	777+02.15
$\Delta$	$12^{\circ} 30' 00''$ Rt.
Dc	0'-28"
R	12,277.67'
L	2678.57'
T	1,344.62'
E	73.41'



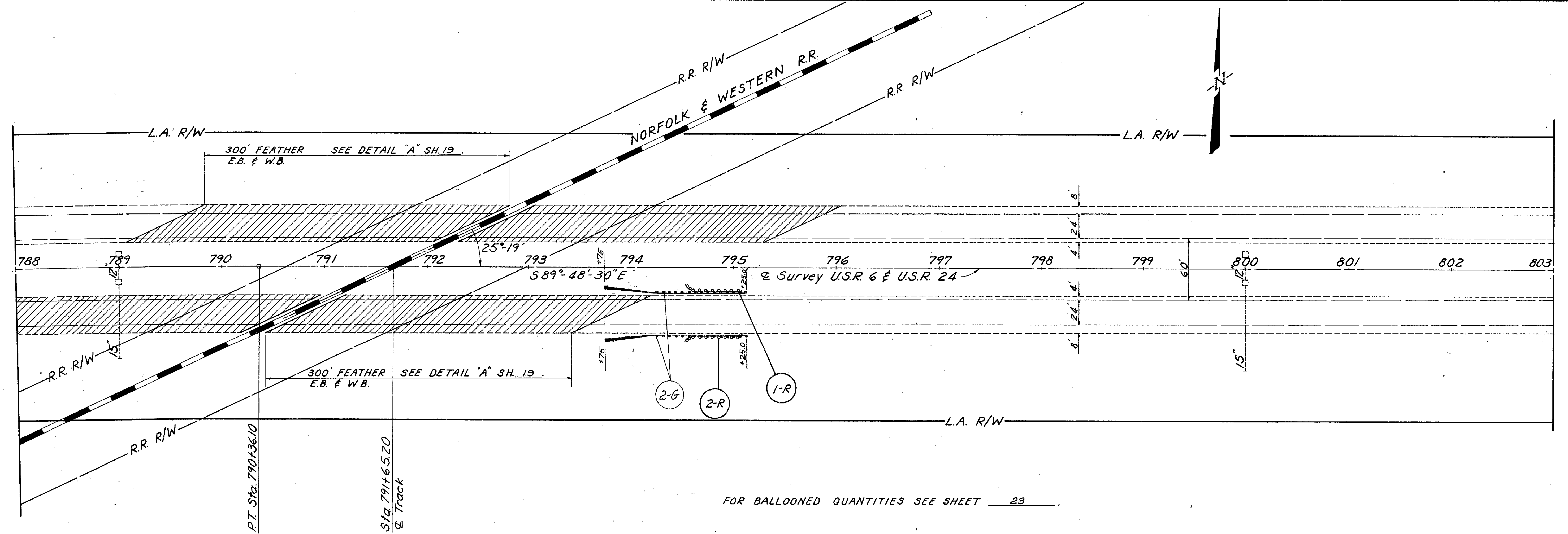
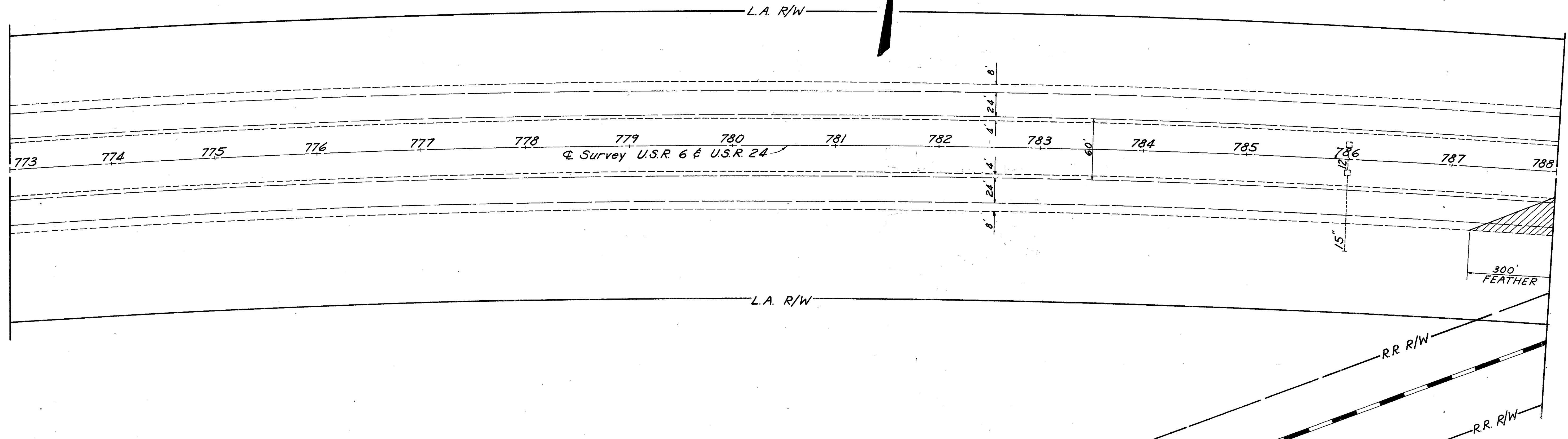


**CURVE DATA**  
 P.I. Sta. 777+02.15  
 $\Delta = 12^\circ 30' 00''$  Rt.  
 $D_c = 0^\circ 28'$   
 $R = 12,277.67'$   
 $L = 2,678.57'$   
 $T = 1,344.62'$   
 $E = 73.41'$

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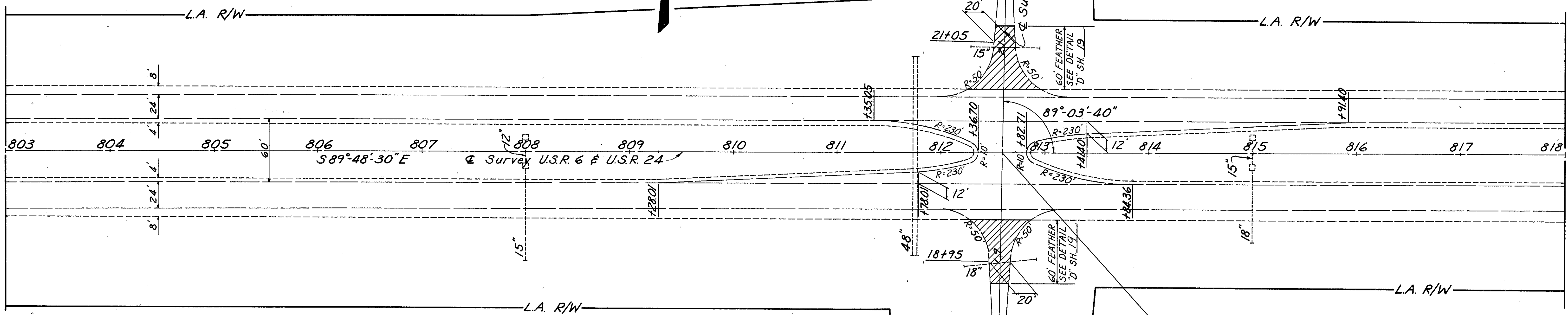
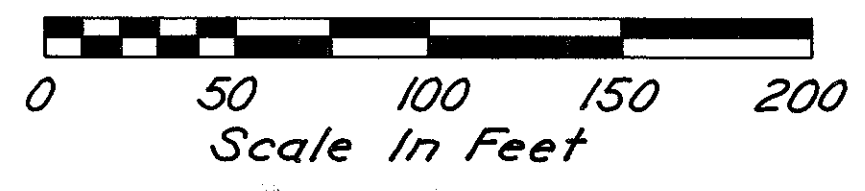
33  
77

HENRY COUNTY  
 HEN-6-11.42  
 HEN-24-9.61

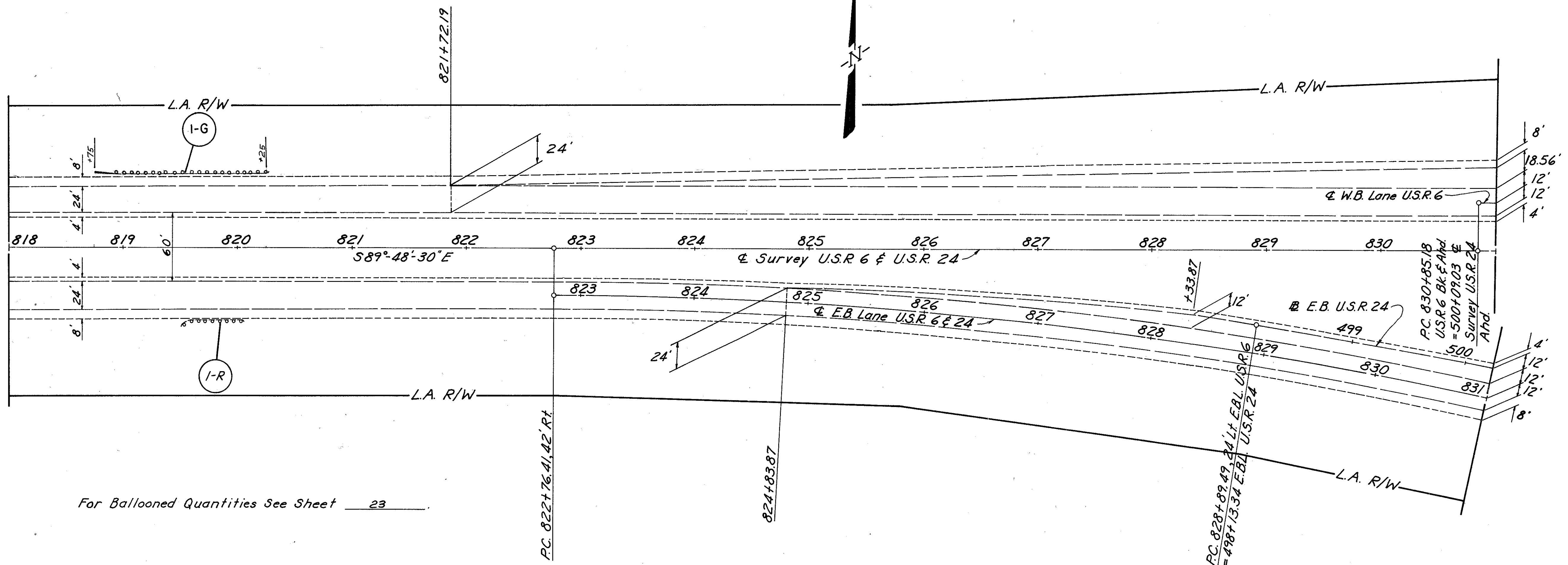


FOR BALLOONED QUANTITIES SEE SHEET 23

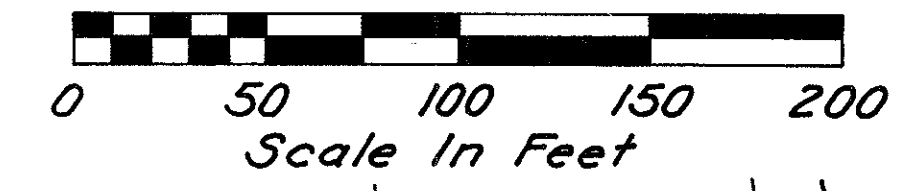
STA. 773+00 TO STA. 803+00 U.S.R. 6 & U.S.R. 24



Sta. 812+59.70 U.S.R. 6 & 24 =  
Sta. 20+00 Twp. Rd. 11  
MEDIAN X-OVER AND APPROACH QUANTITIES  
ARE INCLUDED IN MAIN LINE PAVEMENT  
CALCULATIONS. SHEET NOS 14 THRU 17.

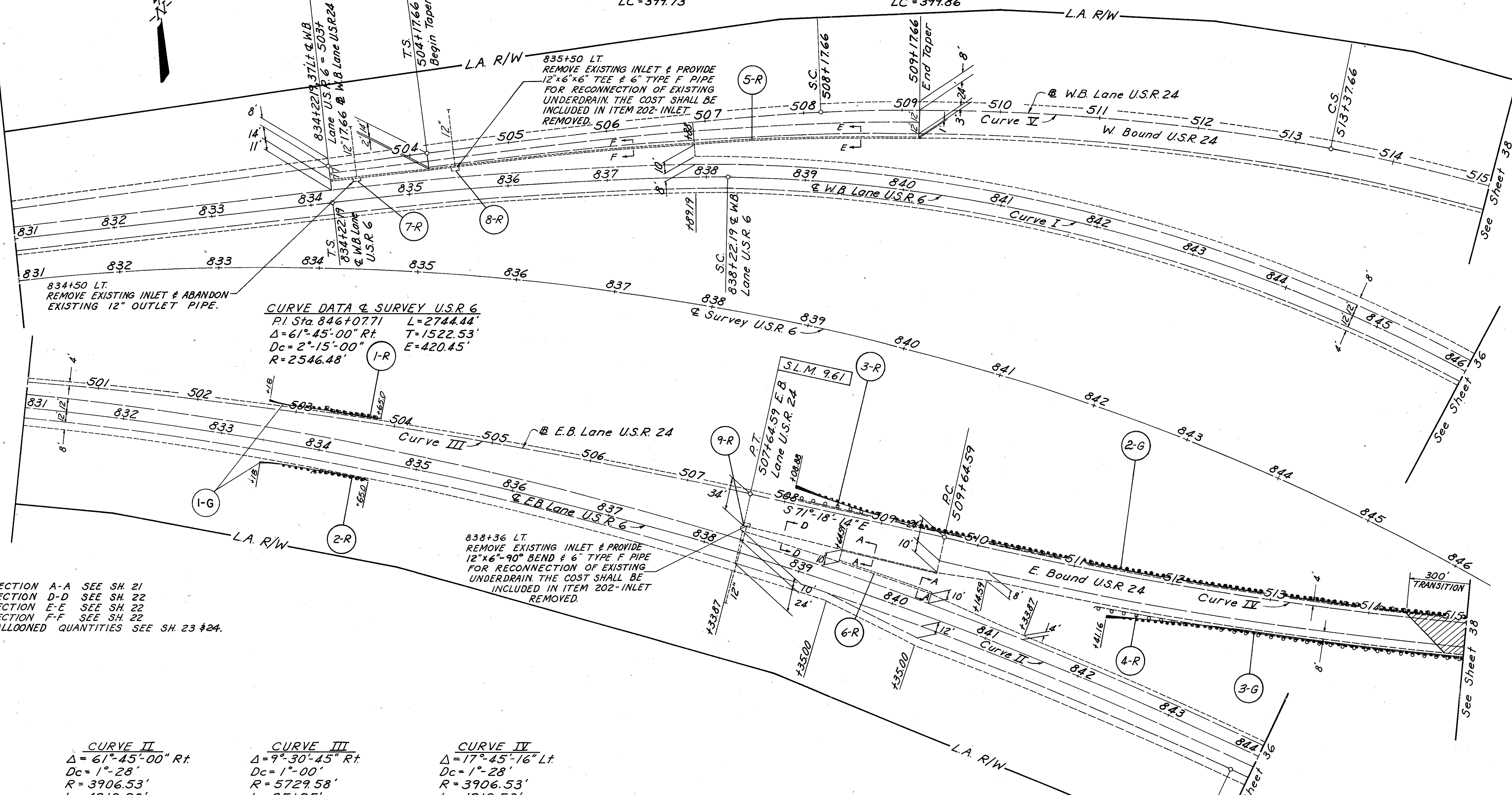


For Ballooned Quantities See Sheet 23



**CURVE I**  
 $\Delta = 61^\circ-45'-00''$  Rt.  $\theta_s = 7^\circ-00'-00''$   
 $D_c = 3^\circ-30'-00''$   $P = 4.07'$   
 $R = 1637.02'$   $K = 199.90'$   
 $L_c = 1364.29'$   $X_c = 399.40'$   
 $L_s = 400.00'$   $Y_c = 16.27'$   
 $T_s = 1181.12'$   $LT = 266.88'$   
 $E_s = 275.02'$   $ST = 133.52'$   
 $LC = 399.73'$

**CURVE V**  
 $\Delta = 23^\circ-00'-00''$  Rt.  $\theta_s = 5^\circ-00'-00''$   
 $D_c = 2^\circ-30'-00''$   $P = 2.91'$   
 $R = 2291.83'$   $K = 199.95'$   
 $L_c = 520.00'$   $X_c = 399.70'$   
 $L_s = 400.00'$   $Y_c = 11.63'$   
 $T_s = 666.82'$   $LT = 266.77'$   
 $E_s = 49.90'$   $ST = 133.43'$   
 $LC = 399.86'$



**CURVE DATA & SURVEY U.S.R. 6**  
 P.I. Sta. 846+07.71  $L = 2744.44'$   
 $\Delta = 61^\circ-45'-00''$  Rt.  $T = 1522.53'$   
 $D_c = 2^\circ-15'-00''$   $E = 420.45'$   
 $R = 2546.48'$

834+50 LT.  
REMOVE EXISTING INLET & ABANDON  
EXISTING 12" OUTLET PIPE.

838+36 LT.  
REMOVE EXISTING INLET & PROVIDE  
12"x6"-90° BEND & 6" TYPE F PIPE  
FOR RECONNECTION OF EXISTING  
UNDERDRAIN. THE COST SHALL BE  
INCLUDED IN ITEM 202-INLET  
REMOVED.

835+50 LT.  
REMOVE EXISTING INLET & PROVIDE  
12"x6"x6" TEE & 6" TYPE F PIPE  
FOR RECONNECTION OF EXISTING  
UNDERDRAIN. THE COST SHALL BE  
INCLUDED IN ITEM 202-INLET  
REMOVED.

FOR SECTION A-A SEE SH. 21  
 FOR SECTION D-D SEE SH. 22  
 FOR SECTION E-E SEE SH. 22  
 FOR SECTION F-F SEE SH. 22  
 FOR BALLOONED QUANTITIES SEE SH. 23 & 24.

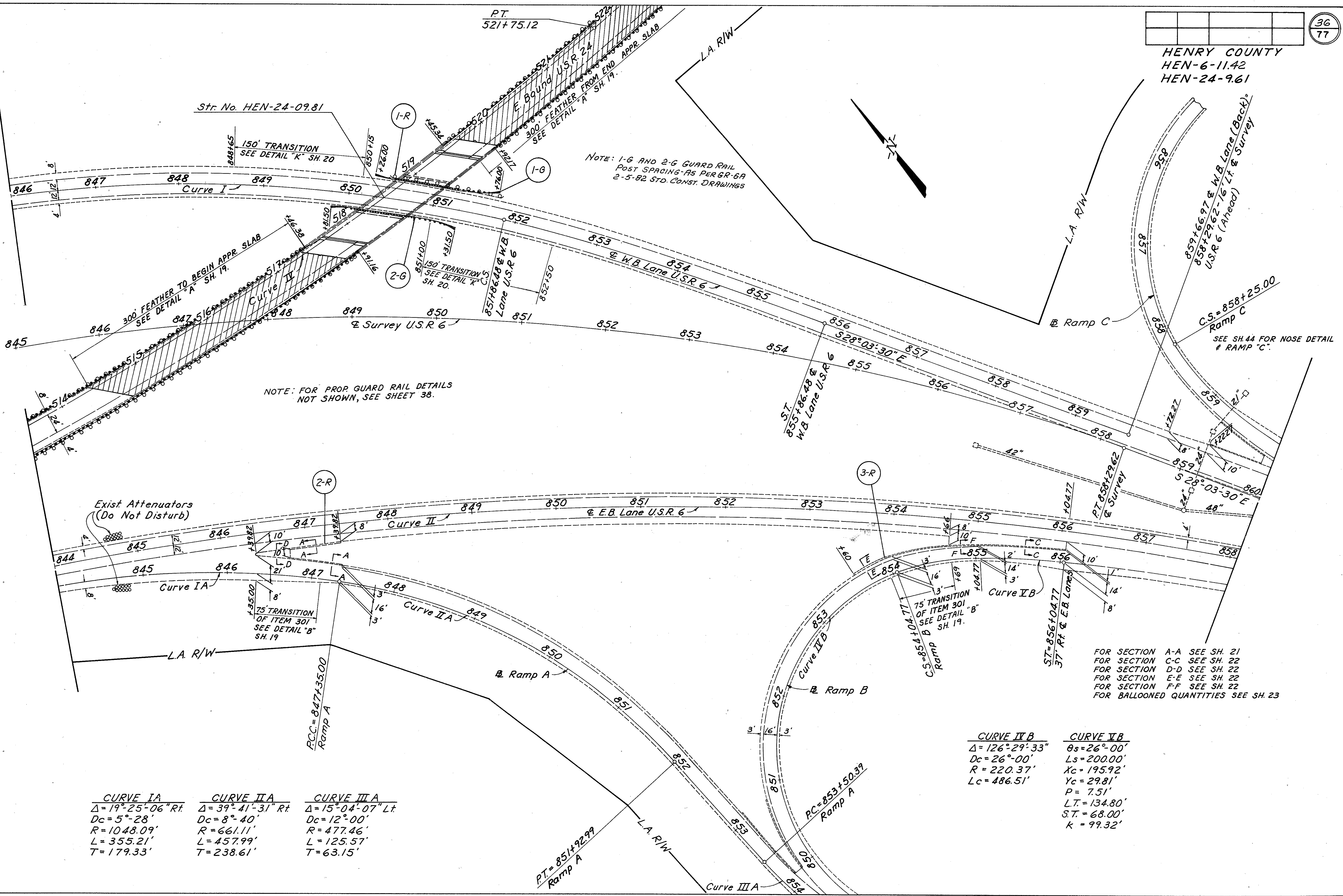
**CURVE II**  
 $\Delta = 61^\circ-45'-00''$  Rt.  
 $D_c = 1^\circ-28'$   
 $R = 3906.53'$   
 $L = 4210.23'$   
 $T = 2335.70'$   
 $E = 645.00'$

**CURVE III**  
 $\Delta = 9^\circ-30'-45''$  Rt.  
 $D_c = 1^\circ-00'$   
 $R = 5729.58'$   
 $L = 951.25'$   
 $T = 476.72'$   
 $E = 19.80'$

**CURVE IV**  
 $\Delta = 17^\circ-45'-16''$  Lt.  
 $D_c = 1^\circ-28'$   
 $R = 3906.53'$   
 $L = 1210.53'$   
 $T = 610.16'$   
 $E = 47.36'$



HENRY COUNTY  
HEN-6-11.42  
HEN-24-9.61



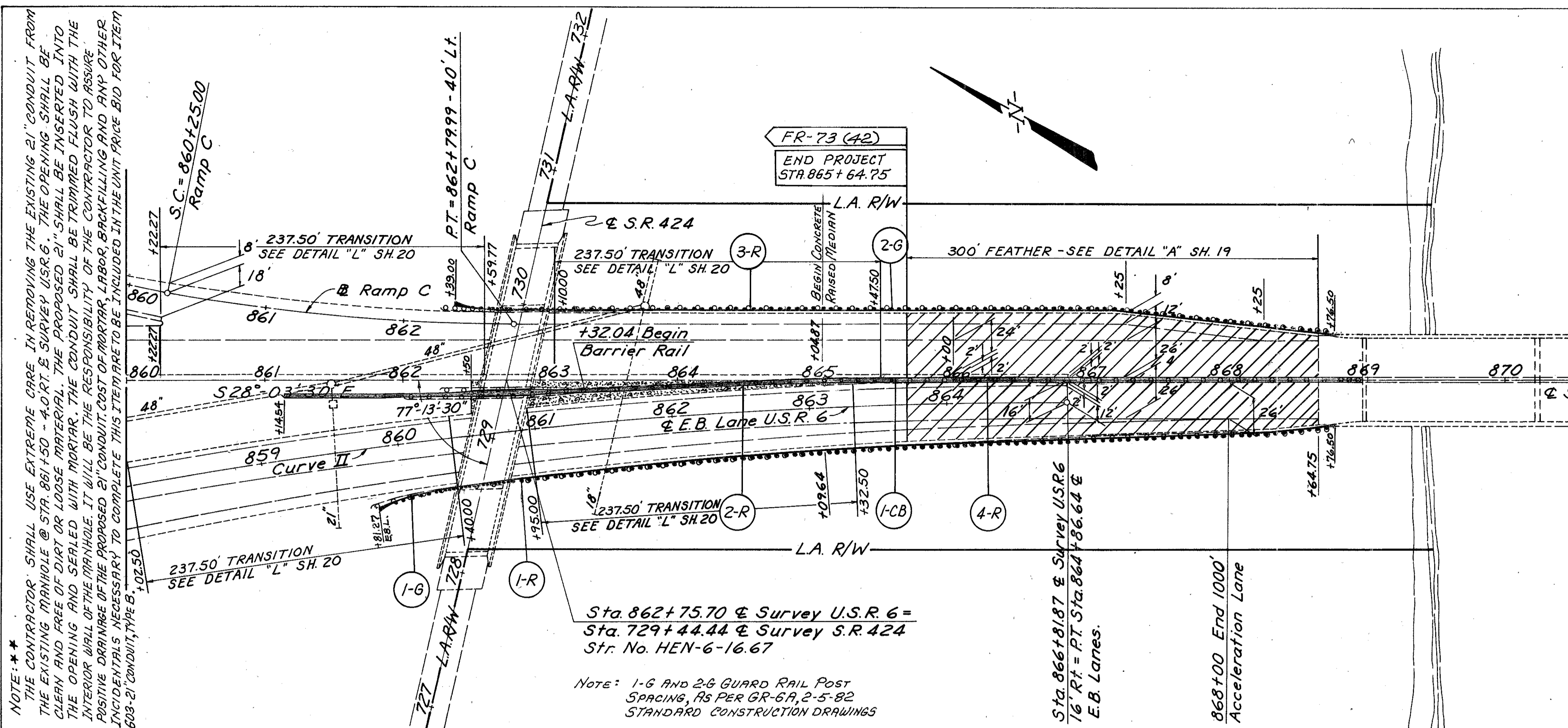
NOTE: 1-G AND 2-G GUARD RAIL  
POST SPACING AS PER GR-6A  
2-5-82 STD. CONST. DRAWINGS

NOTE: FOR PROP GUARD RAIL DETAILS  
NOT SHOWN, SEE SHEET 38.

FOR SECTION A-A SEE SH. 21  
FOR SECTION C-C SEE SH. 22  
FOR SECTION D-D SEE SH. 22  
FOR SECTION E-E SEE SH. 22  
FOR SECTION F-F SEE SH. 22  
FOR BALLOONED QUANTITIES SEE SH. 23

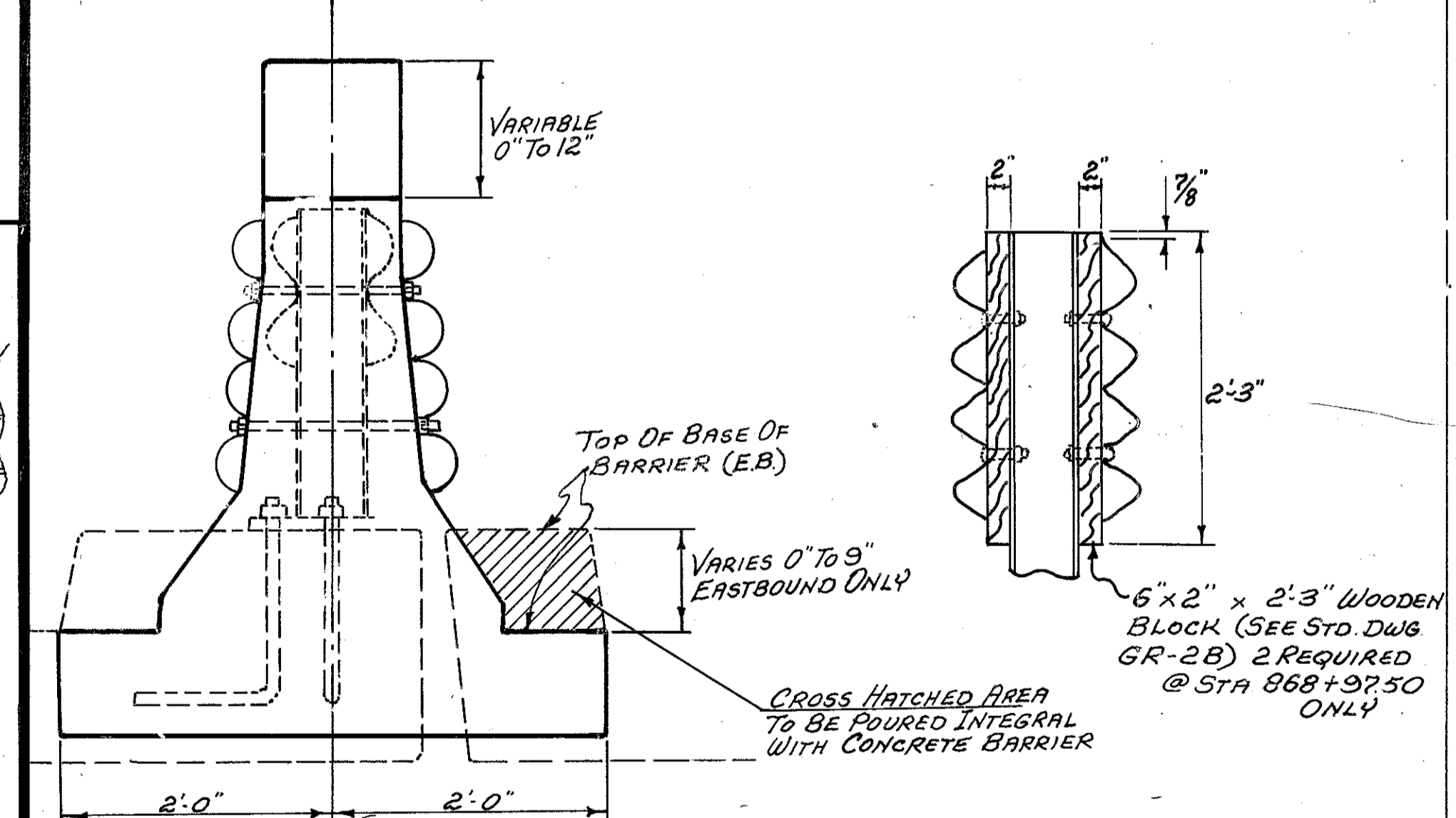
CURVE IA	CURVE IIA	CURVE IIIA
$\Delta = 19^\circ 25' 06''$ Rt.	$\Delta = 39^\circ 41' 31''$ Rt.	$\Delta = 15^\circ 04' 07''$ Lt.
$Dc = 5'-28''$	$Dc = 8'-40''$	$Dc = 12'-00''$
$R = 1048.09'$	$R = 661.11'$	$R = 477.46'$
$L = 355.21'$	$L = 457.99'$	$L = 125.57'$
$T = 179.33'$	$T = 238.61'$	$T = 63.15'$

CURVE IIB	CURVE IIB
$\Delta = 126^\circ 29' 33''$	$\theta_s = 26^\circ 00'$
$Dc = 26'-00''$	$Ls = 200.00'$
$R = 220.37'$	$Xc = 195.92'$
$Lc = 486.51'$	$Yc = 29.81'$
	$P = 7.51'$
	$L.T. = 134.80'$
	$S.T. = 68.00'$
	$K = 99.32'$

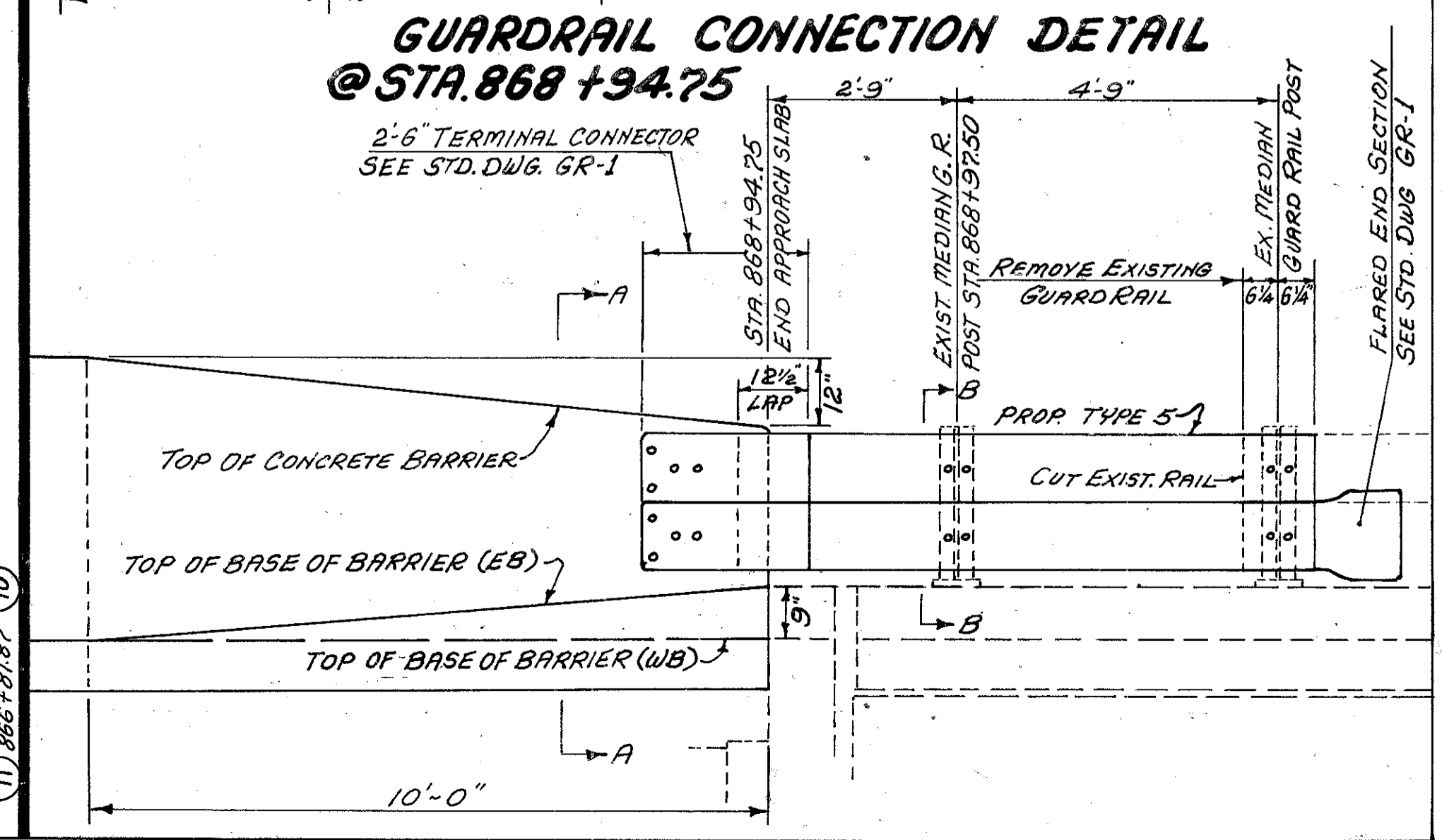
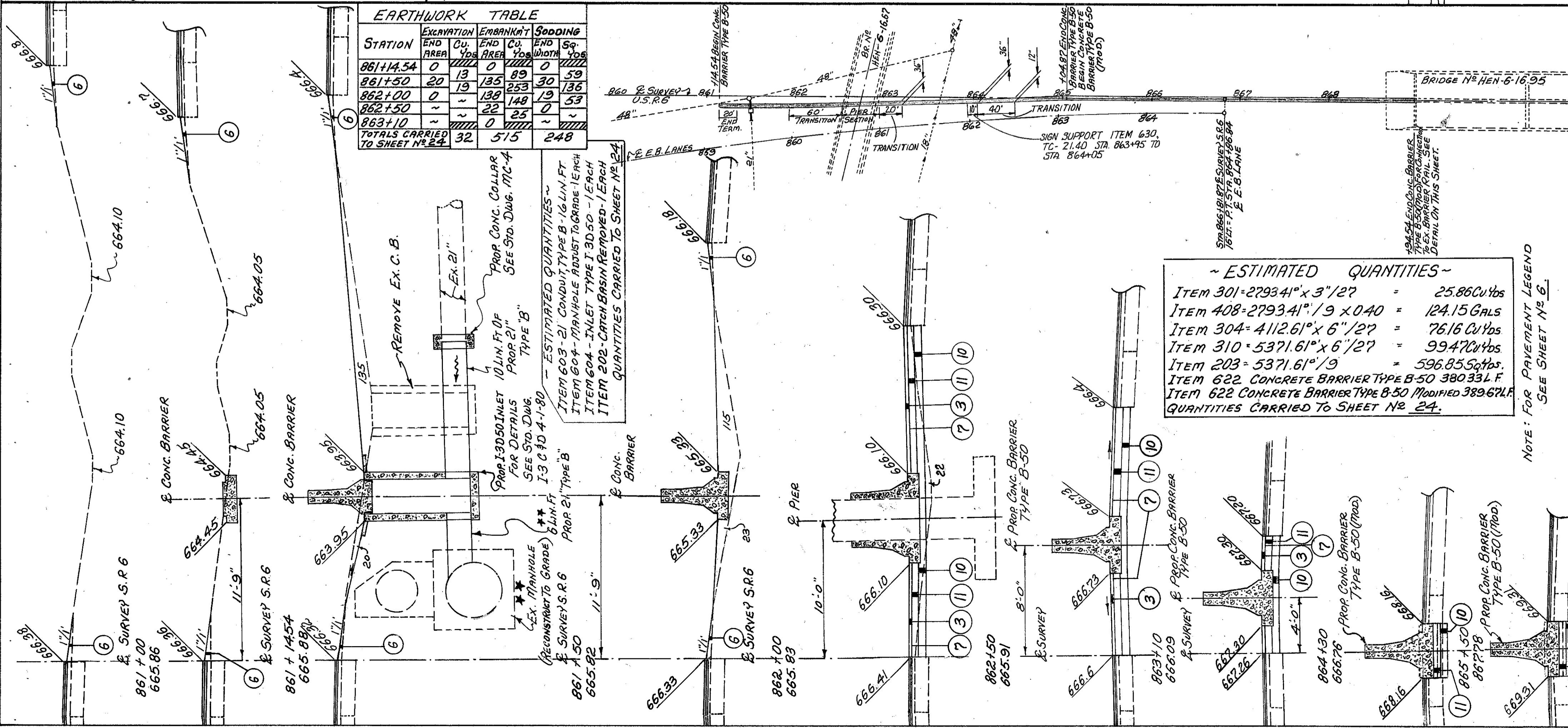


THIS CONNECTION SHALL BE MADE WITH A 8'-6 1/4" LENGTH OF GALVANIZED BARRIER GUARDRAIL, TYPE 5 AND WITH A 8'-6 1/4" LENGTH OF WHEELGUARD WITH SLOTTED EXPANSION GALVANIZED TERMINAL CONNECTORS, AS PER GR-3, (SEE SECTION A-A - CONCRETE INSERT ANCHOR ASSEMBLY), AND GALVANIZED FLARED END SECTION, AS PER GR-1. THE TERMINAL CONNECTORS SHALL BE ATTACHED TO THE CONCRETE BARRIER WITH FOUR (4) 7/8" x 15" AND FOUR (4) 7/8" x 18" HEX HEAD GALVANIZED BOLTS, NUTS AND WASHERS. PAYMENT FOR THE TYPE 5 GUARD RAIL, TERMINAL CONNECTORS, FLARED END, DRILLING HOLES, SPACER BLOCKS, GALVANIZED STEEL BOLTS, NUTS, WASHERS, LABOR AND ANY OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THIS CONNECTION, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 622, CONCRETE BARRIER, TYPE B-50, MODIFIED, AS PER PLAN.

**SECTION AA**      **SECTION BB**



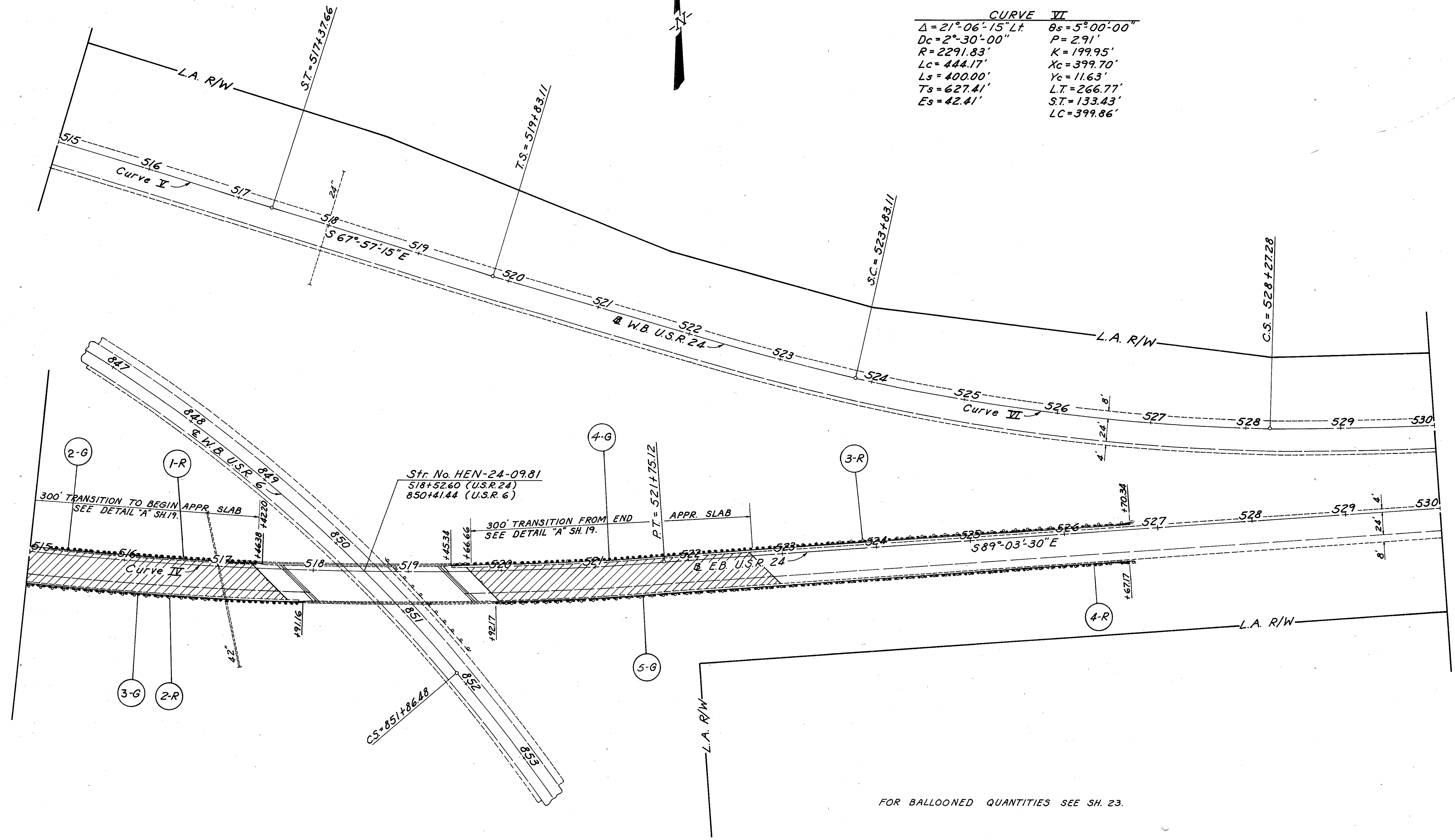
STATION	EXCAVATION		EMBANKMENT		SPOILING	
	END AREA	CU YDS	END AREA	CU YDS	WHOLE	YDS
861+14.54	0	0	0	0	0	0
861+50	20	13	135	89	30	59
862+00	0	0	138	148	19	136
862+50	0	0	22	25	0	0
863+10	0	0	0	0	0	0
<b>TOTALS CARRIED TO SHEET NO. 24</b>	<b>20</b>	<b>13</b>	<b>515</b>	<b>248</b>		





HENRY COUNTY  
HEN-6-11.42  
HEN-24-9.61

CURVE VI	
$\Delta = 21^{\circ}06'15''$ Lt.	$\theta_s = 5^{\circ}00'00''$
$D_c = 2^{\circ}30'00''$	$P = 2.91'$
$R = 2291.83'$	$K = 199.95'$
$L_c = 444.17'$	$X_c = 399.70'$
$L_s = 400.00'$	$Y_c = 11.63'$
$T_s = 627.41'$	$L.T. = 266.77'$
$E_s = 42.41'$	$S.T. = 133.43'$
	$LC = 399.86'$

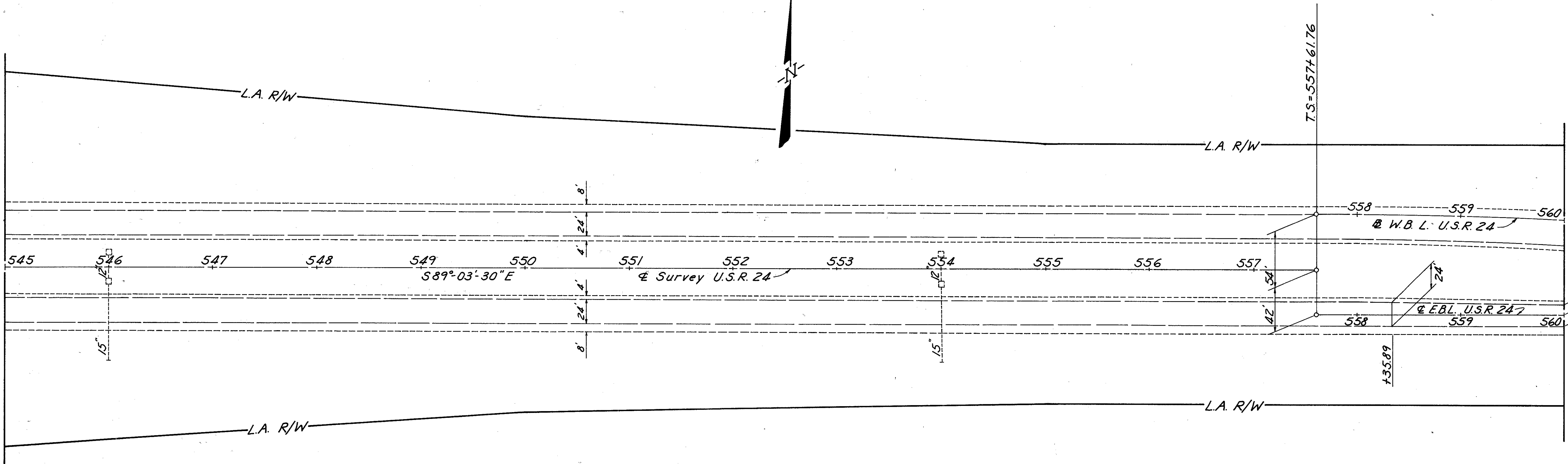
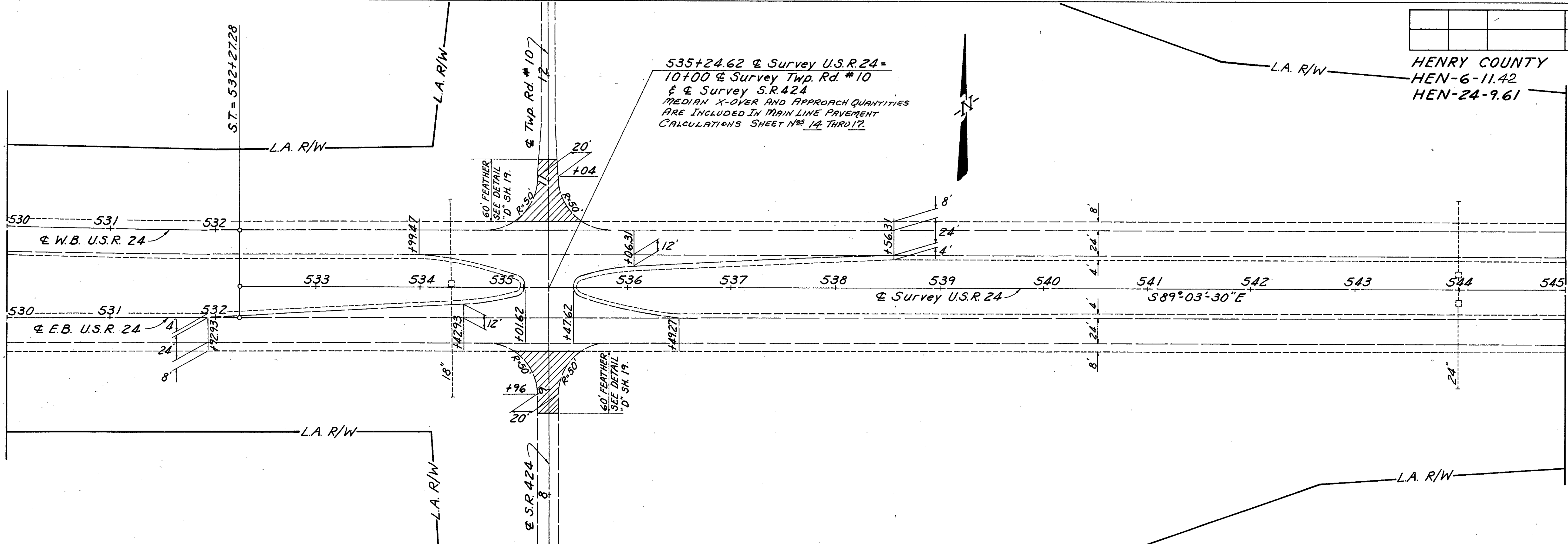


FOR BALLOONED QUANTITIES SEE SH. 23.



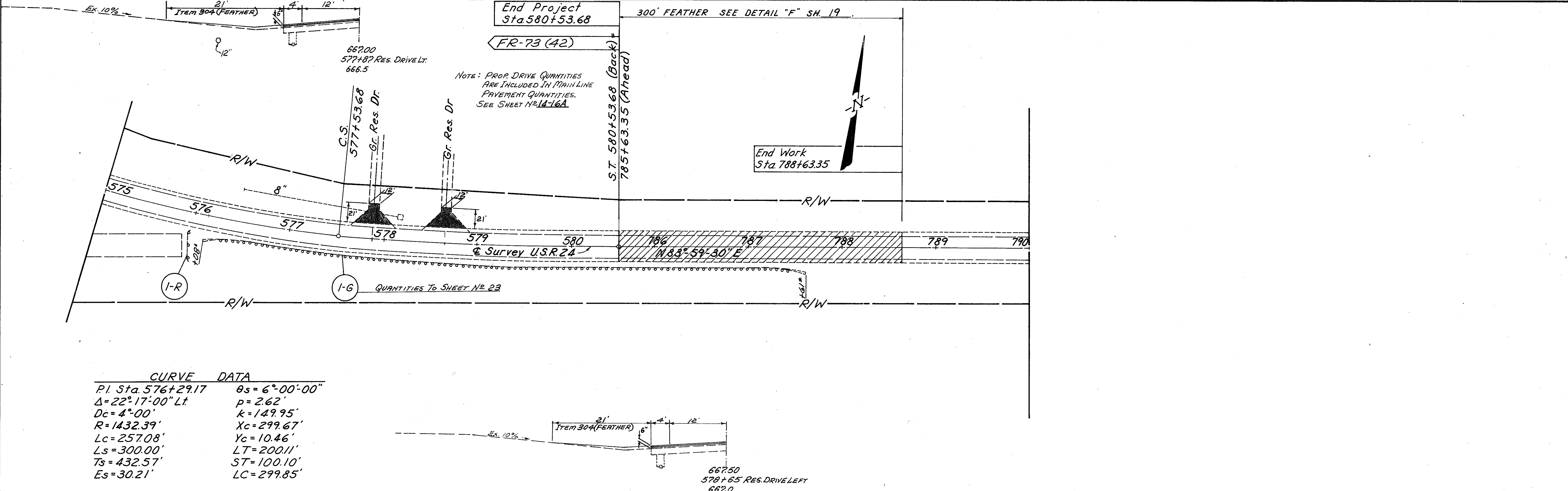
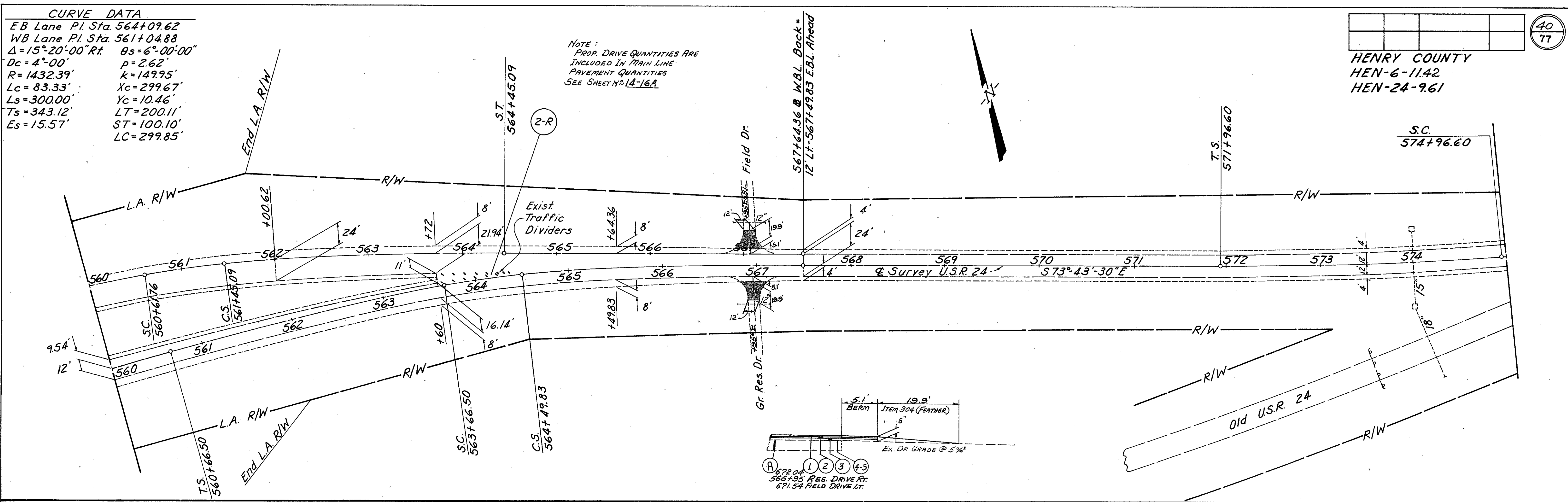
HENRY COUNTY  
HEN-6-11.42  
HEN-24-9.61

535+24.62 @ Survey U.S.R. 24 =  
10+00 @ Survey Twp. Rd. #10  
& @ Survey S.R. 424  
MEDIAN X-OVER AND APPROACH QUANTITIES  
ARE INCLUDED IN MAIN LINE PAVEMENT  
CALCULATIONS SHEET NOS 14 THRU 17.

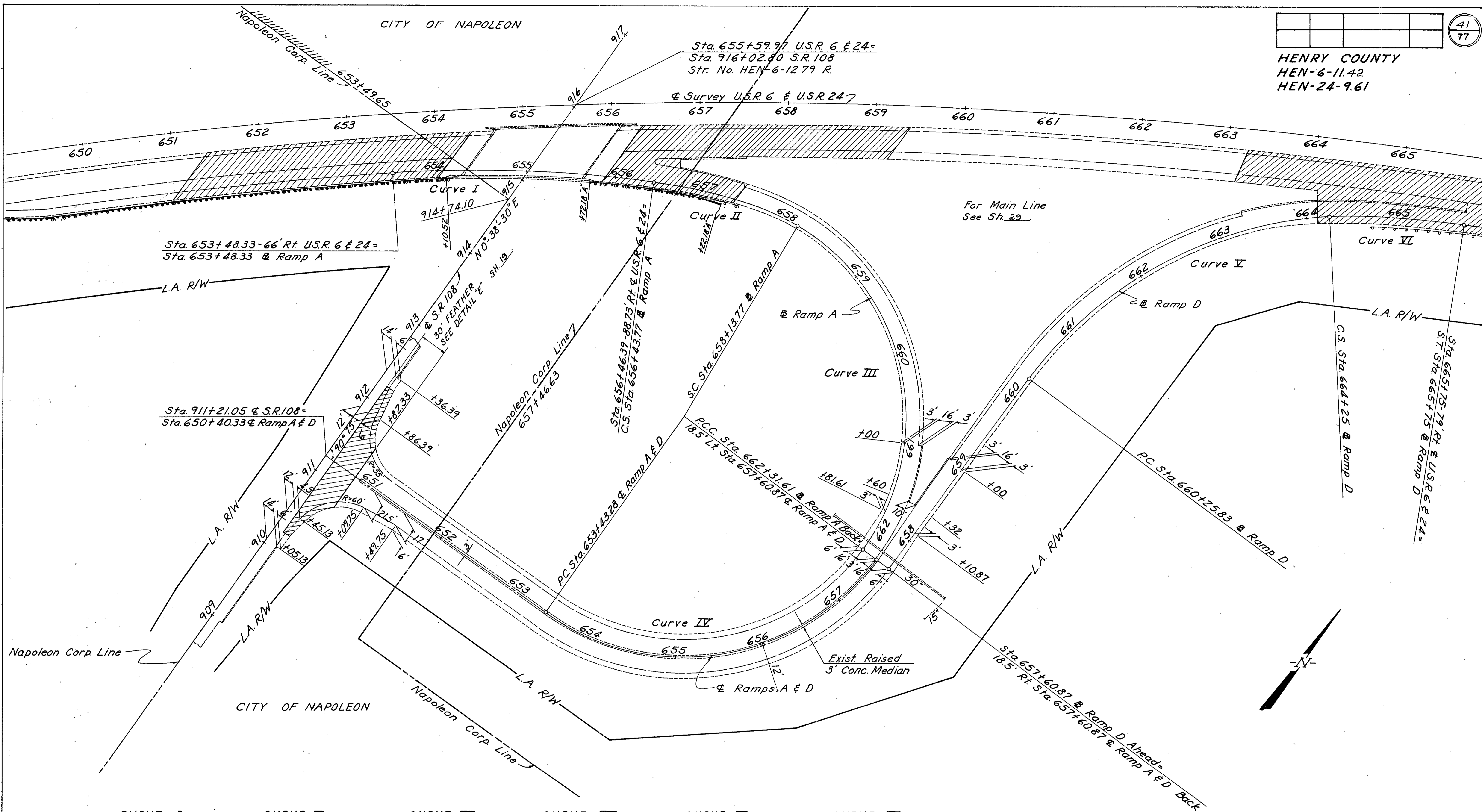


**CURVE DATA**  
 EB Lane P.I. Sta. 564+09.62  
 WB Lane P.I. Sta. 561+04.88  
 $\Delta = 15^\circ 20' 00''$  Rt.  $\theta_s = 6^\circ 00' 00''$   
 $D_c = 4^\circ 00'$   $p = 2.62'$   
 $R = 1432.39'$   $k = 149.95'$   
 $L_c = 83.33'$   $X_c = 299.67'$   
 $L_s = 300.00'$   $Y_c = 10.46'$   
 $T_s = 343.12'$   $LT = 200.11'$   
 $E_s = 15.57'$   $ST = 100.10'$   
 $LC = 299.85'$

NOTE:  
 PROP. DRIVE QUANTITIES ARE  
 INCLUDED IN MAIN LINE  
 PAVEMENT QUANTITIES  
 SEE SHEET NO. 14-16A



**CURVE DATA**  
 P.I. Sta. 576+29.17  $\theta_s = 6^\circ 00' 00''$   
 $\Delta = 22^\circ 17' 00''$  Lt.  $p = 2.62'$   
 $D_c = 4^\circ 00'$   $k = 149.95'$   
 $R = 1432.39'$   $X_c = 299.67'$   
 $L_c = 257.08'$   $Y_c = 10.46'$   
 $L_s = 300.00'$   $LT = 200.11'$   
 $T_s = 432.57'$   $ST = 100.10'$   
 $E_s = 30.21'$   $LC = 299.85'$

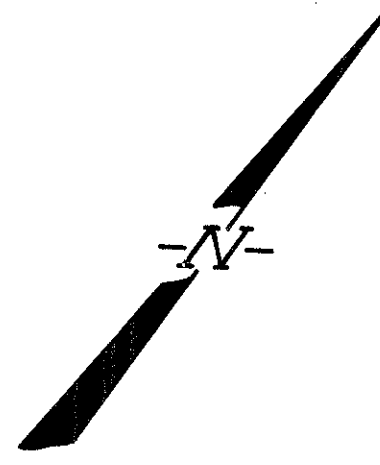


CURVE I	CURVE II	CURVE III	CURVE IV	CURVE V	CURVE VI
$\Delta = 11^{\circ} 49' 04''$ Rt.	$\Delta s = 22^{\circ} 52' 50''$ Rt.	$\Delta = 95^{\circ} 45' 46''$ Rt.	$\Delta = 89^{\circ} 06' 35''$ Lt.	$\Delta = 50^{\circ} 49' 27''$ Rt.	$\Delta s = 9^{\circ} 32' 57''$ Rt.
$Dc = 4^{\circ} 00'$	$Ls = 170.00'$	$Dc = 22^{\circ} 55' 06''$	$Dc = 21^{\circ} 20' 21''$	$Dc = 12^{\circ} 43' 57''$	$Ls = 150.00'$
$R = 1432.40'$	$Pa = 3.96'$	$R = 250.00'$	$R = 268.50'$	$R = 450.00'$	$P = 2.08'$
$L = 295.44'$	$T1 = 106.17'$	$L = 417.84'$	$L = 417.59'$	$L = 399.17'$	$K = 74.93'$
$T = 148.25'$	$T2 = 66.12'$	$T = 276.50'$	$T = 264.36'$	$T = 213.79'$	$Xc = 149.59'$
$E = 7.65'$		$E = 122.76'$	$E = 108.30'$	$E = 48.20'$	$Yc = 8.32'$
					$L.T. = 100.14'$
					$S.T. = 50.13'$
					$L.C. = 149.82'$



HENRY COUNTY  
HEN-6-11.42  
HEN-24-9.61

CITY OF NAPOLEON



**CURVE VII**  
 $\Delta s = 8^{\circ}00'00''$  Lt.  
 $Ls = 200.00'$   
 $P = 2.33'$   
 $K = 99.93'$   
 $Xc = 199.61'$   
 $Yc = 9.30'$   
 $LT = 133.47'$   
 $ST = 66.79'$   
 $LC = 199.83'$   
 P.I. Sta. 651+33.47

**CURVE VIII**  
 $\Delta = 20^{\circ}21'47''$  Lt.  
 $Dc = 8^{\circ}00'$   
 $R = 716.20'$   
 $L = 254.54'$   
 $T = 128.63'$   
 $E = 11.46'$   
 P.I. Sta. 653+28.63

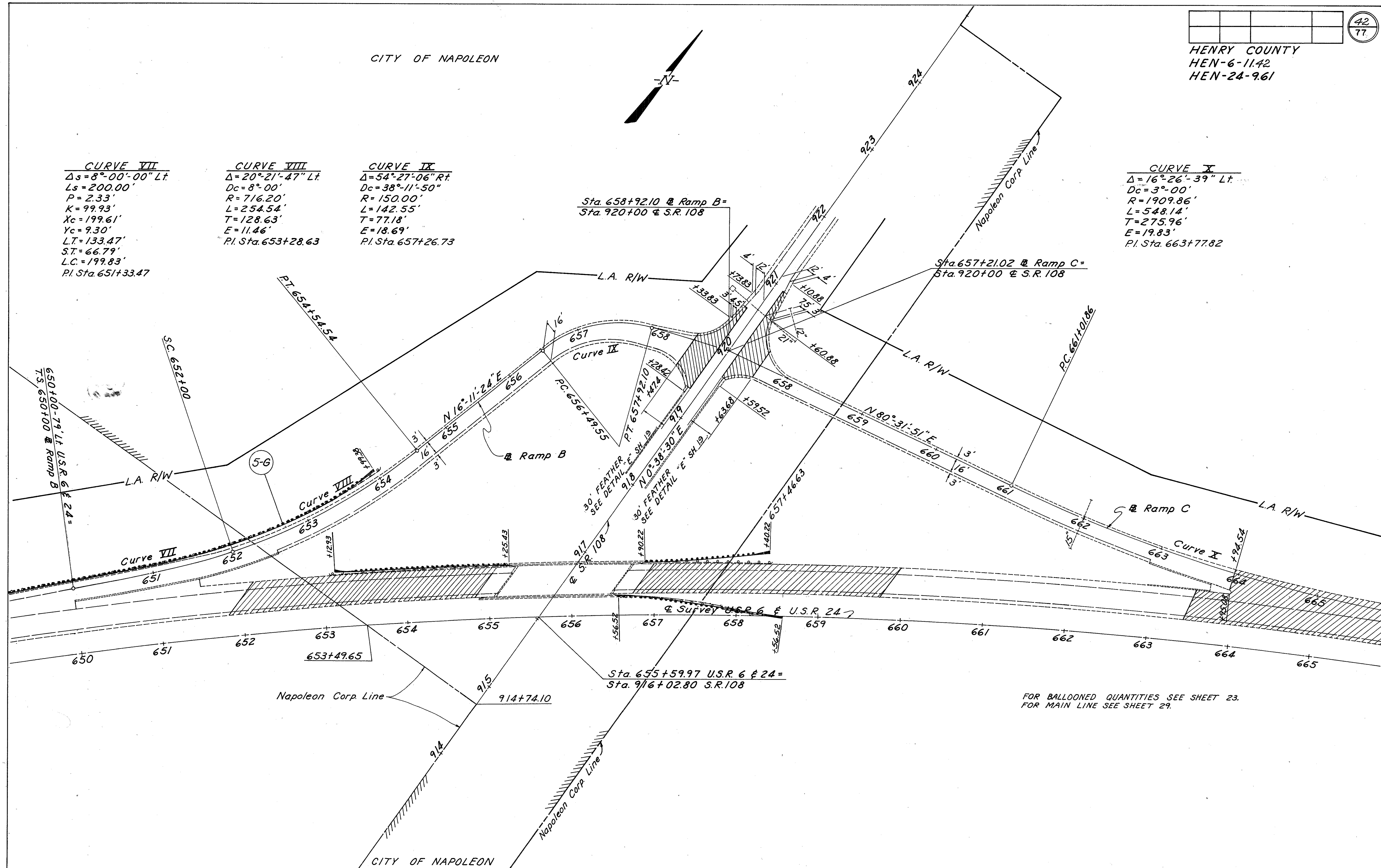
**CURVE IX**  
 $\Delta = 54^{\circ}27'06''$  Rt.  
 $Dc = 38^{\circ}11'50''$   
 $R = 150.00'$   
 $L = 142.55'$   
 $T = 77.18'$   
 $E = 18.69'$   
 P.I. Sta. 657+26.73

**CURVE X**  
 $\Delta = 16^{\circ}26'39''$  Lt.  
 $Dc = 3^{\circ}00'$   
 $R = 1909.86'$   
 $L = 548.14'$   
 $T = 275.96'$   
 $E = 19.83'$   
 P.I. Sta. 663+77.82

Sta. 658+92.10 @ Ramp B =  
Sta. 920+00 @ S.R. 108

Sta. 657+21.02 @ Ramp C =  
Sta. 920+00 @ S.R. 108

Sta. 655+59.97 U.S.R. 6 @ 24 =  
Sta. 916+02.80 S.R. 108



FOR BALLOONED QUANTITIES SEE SHEET 23.  
FOR MAIN LINE SEE SHEET 29.



