

16-8-1-14

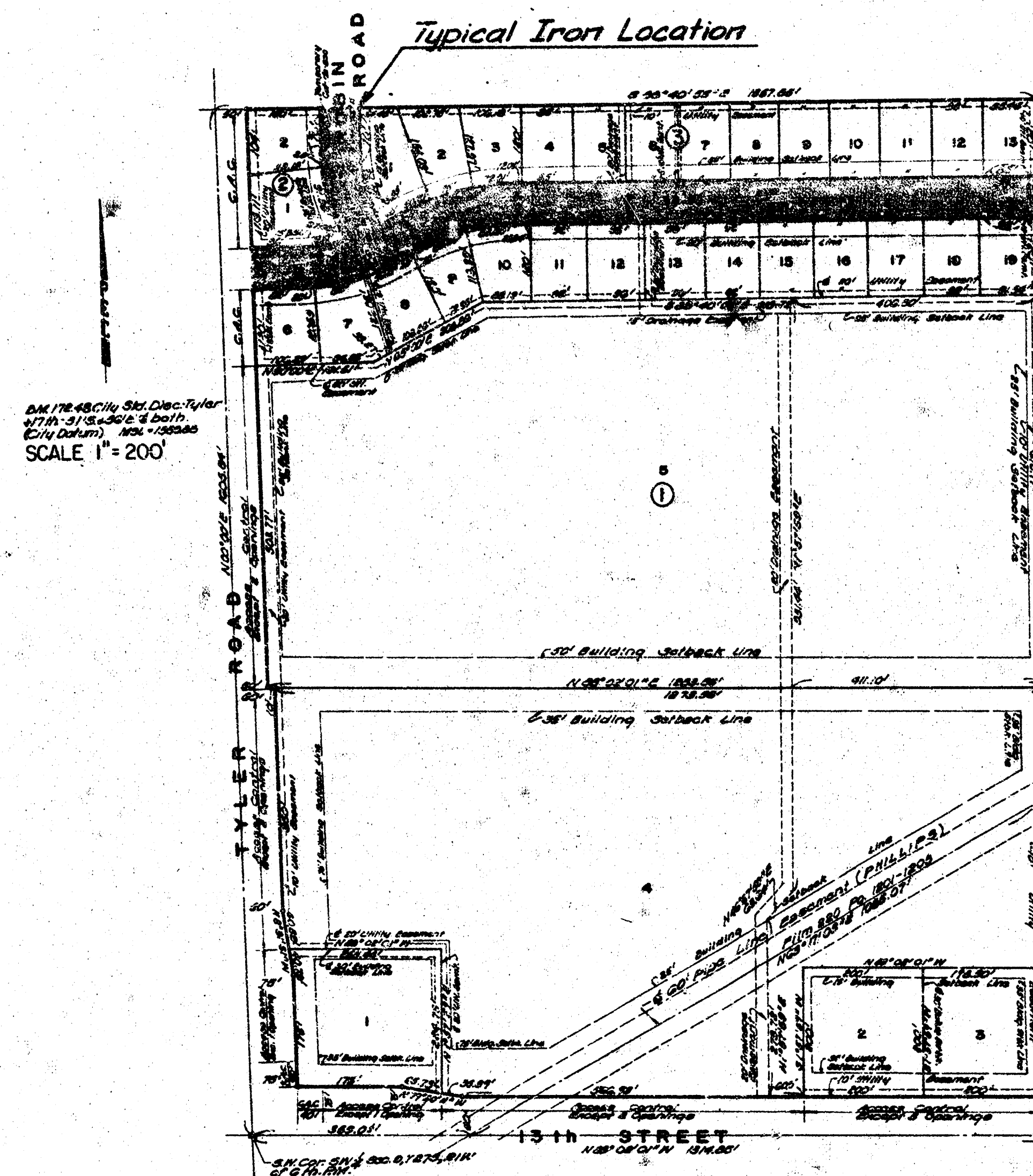
CITY OF WICHITA, KANSAS

STREET IMPROVEMENTS (NORTHWEST VILLAGE)

PROJECT NO. 472-76-245-81013 - 000-000-001

BENCH MARKS

- B.M. - C.O.W. standard disc. located 31' south and 36' east of W 1/4 corner Sec. 9, T27S, R1W, 6th P.M. Elev. = 172.48
- B.M. - Chis "I" in SW corner headwall @ concrete box approx. 50' N of 5 1/4 corner Sec. 9, E7S/W Elev. = 159.60
- B.M. - Chis "I" NE corner storm drain box N/side of 13th St. approx. 1240' ± east of SW corner Sec. 9, E7S/W Elev. = 161.52
- B.M. - Chis "I" SW corner concrete box which lies approx. 840' ± E of SW corner Sec. 9, E7S/W (N. side 13th St.) Elev. = 162.48
- B.M. - NW corner 4' x 4' concrete pad with C.O.W. M.H. behind curb on NW corner of intersection Tyler & 13th St. N. Elev. = 167.55



INDEX OF SHEETS

- 1. TITLE SHEET
- 2.-3. TYPICAL SECTION
- 4.-6. PLAN SHEETS
- 7.-11. CROSS SECTIONS

Note: Irons as shown are existing or will be set by others prior to construction.

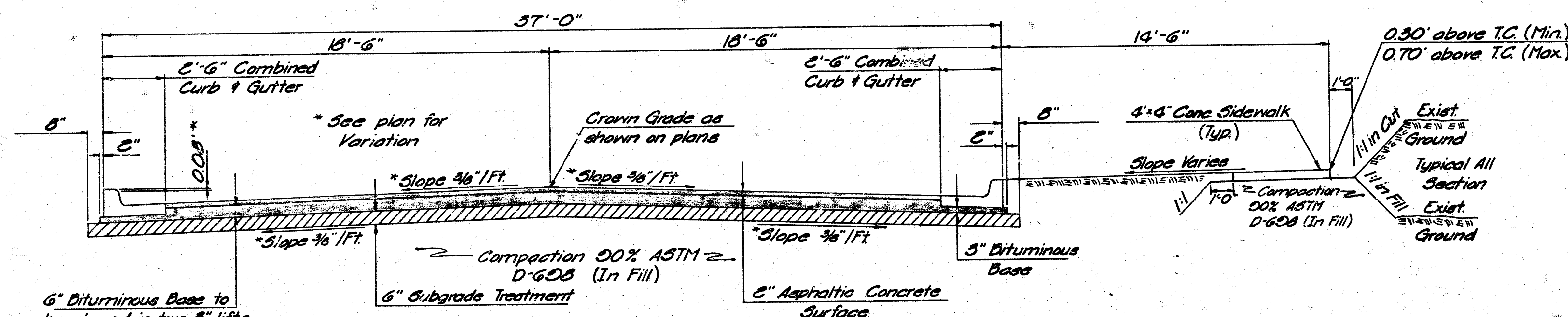
Note: 2,268 Cubic Yards of Contractor Furnished Borrow is required.

NOVEMBER, 1980

	Revision		By	Date
	CITY OF WICHITA, KANSAS			
	TITLE SHEET			
	STREET IMPROVEMENTS			
	PROJ. NO. 472-76-245-81013-000-000-001			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.				
ENGINEERS WICHITA, KANSAS				
Designed by <u>DD, C.S.B., BER</u>		Job No. <u>80305</u>		Sht. 1 of 1
Drawn by <u>GRH</u>		Date <u>Nov. 1980</u>		

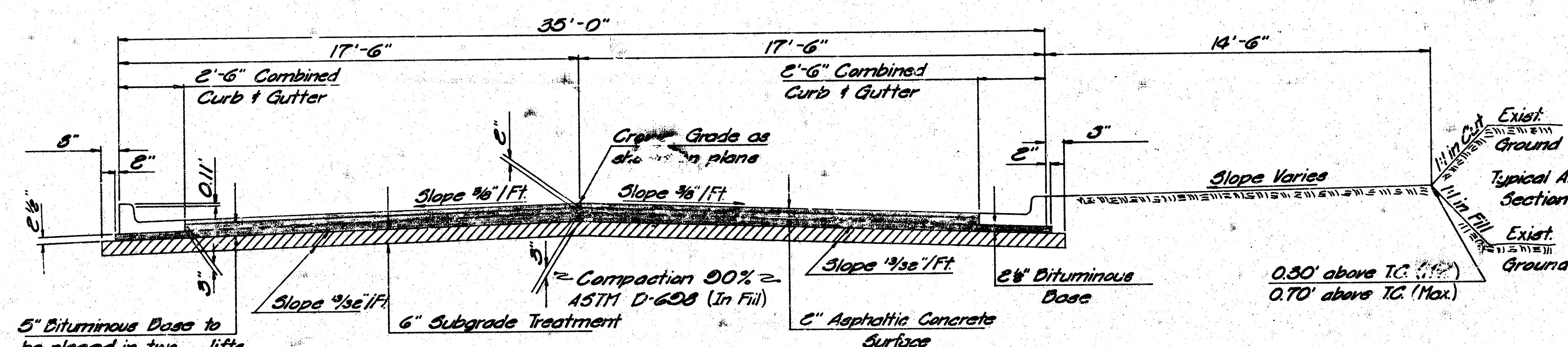
GENERAL NOTES

1. A TACK COAT OF EMULSIFIED ASPHALT (SS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE 0.05 GALLONS PER SQUARE YARD BETWEEN LIFTS OF ASPHALTIC MATERIALS WHEN ORDERED BY THE ENGINEER. TACK COAT WILL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO PRICE BID FOR ASPHALTIC PAVEMENT.
2. BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR CROWN AND GRADE. CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF 1 FOOT WITH JOINTS IN PRECEDING LIFTS AND SUCH THAT A JOINT WILL BE CONSTRUCTED ON THE PAVEMENT CENTERLINE IN THE TOP LIFT.
3. THE A.C. PAVEMENT BETWEEN COMBINED CURB AND GUTTER ON 37' BACK TO BACK STREETS SHALL BE PAID AS SQUARE YARDS 8" A.C. PAVEMENT (6" BITUMINOUS BASE). THE BITUMINOUS BASE UNDER THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS 3" BITUMINOUS BASE. THE A.C. PAVEMENT BETWEEN COMBINED CURB AND GUTTER ON 35' BACK TO BACK STREETS SHALL BE PAID AS SQUARE YARDS 7" A.C. PAVEMENT (5" BITUMINOUS BASE). THE BITUMINOUS BASE UNDER THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS 2-1/2" BITUMINOUS BASE.
4. SIDEWALKS INDICATED ON THE TYPICAL SECTION ARE FOR LOCATION ON THAT SECTION ONLY. SIDEWALKS SHALL BE CONSTRUCTED WHERE SHOWN ON THE PLAN SHEETS AS PART OF THIS PROJECT.
5. CONTRACTION JOINTS MAY BE CONSTRUCTED IN INTEGRAL CURB BY SAWING WITH AN APPROVED CONCRETE SAW. THE SAW SHALL EXTEND THROUGH THE CURB TO THE PAVEMENT. SAWED CONTRACTION JOINTS SHALL HAVE A MAXIMUM SPACING OF 10'.
6. INTEGRAL CURB SHALL BE TIED TO THE PAVEMENT BASE WITH SHORT DEFORMED DWEL BARS SPACED AT 2'-6" INTERVALS. THESE DWEL BARS SHALL NOT BE LESS THAN 1/2" NOR MORE THAN 3/4" IN DIAMETER, AND SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO INTEGRAL CURB.
7. THE 6" SUBGRADE TREATMENT SHALL BE PAID FOR PER SQUARE YARD OF MANIPULATION AND PER TON OF LIME OR CEMENT, COMPUTED AT THE RATE OF 25 POUNDS PER SQUARE YARD. THE ACTUAL RATE OF LIME OR CEMENT SHALL BE DETERMINED BY THE ENGINEER AND NO ALTERATION OF THE UNIT PRICE BID FOR LIME OR CEMENT WILL BE MADE. IF THE ENGINEER DETERMINES, BASED UPON SOIL TESTS OF THE SUBGRADE MATERIAL IN PLACE, THAT NO SUBGRADE TREATMENT IS REQUIRED, THE TOP 6" OF THE SUBGRADE SHALL BE COMPACTED TO 90% ASTM D-1557 OR 95% ASTM D-698. IN THIS EVENT, THE BID ITEMS OF MANIPULATION AND LIME OR CEMENT SHALL BE UNDERLAIN AND THE BID ITEM COMPACTED FILL SHALL BE INCREASED BY THE AMOUNT OF MANIPULATED FILL SHOWN ON THE PLANS.



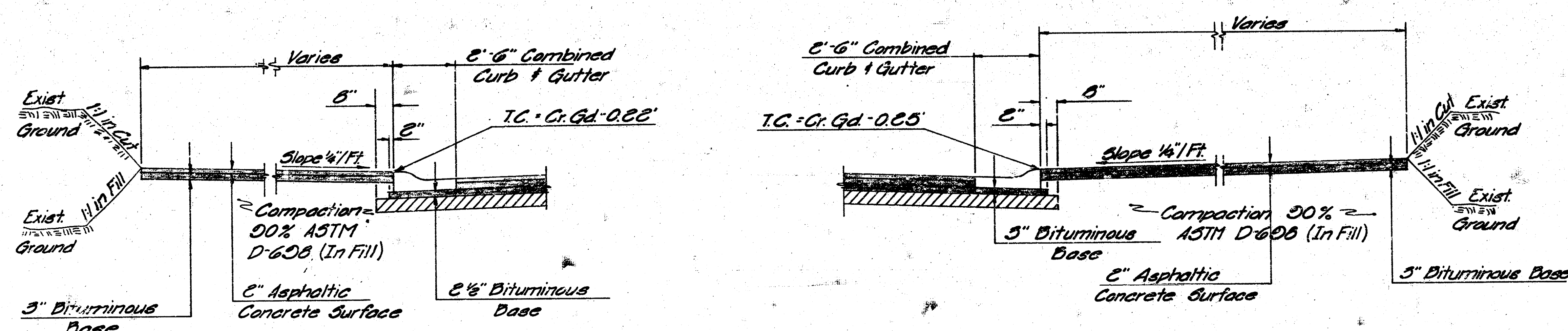
TYPICAL SECTION

37' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE



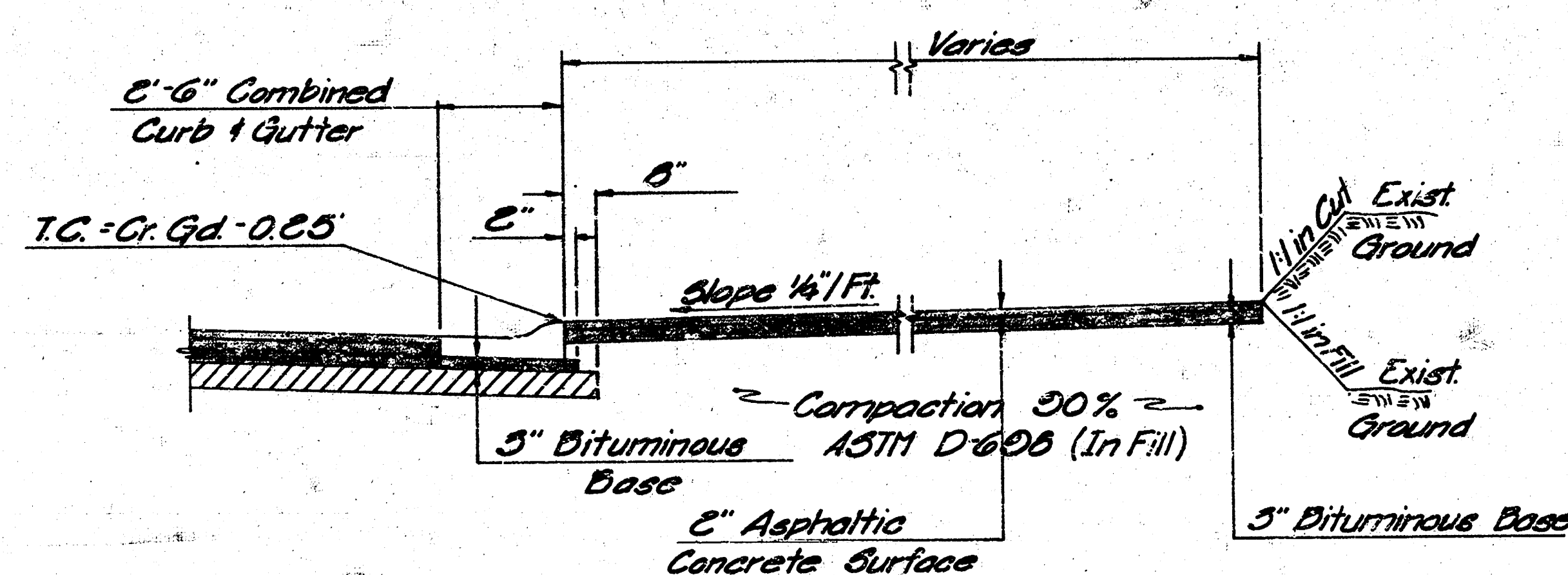
TYPICAL SECTION

35' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE



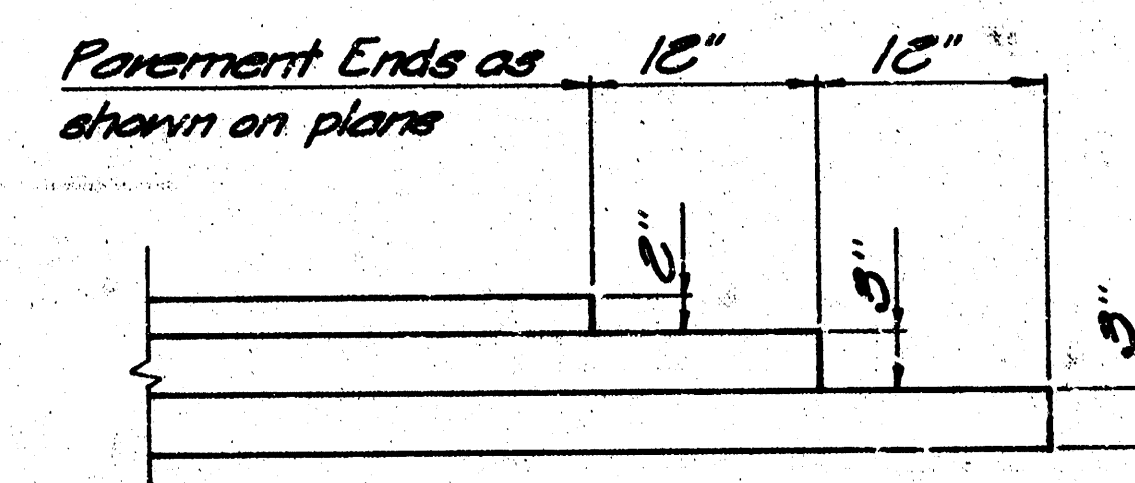
PARTIAL SECTION

35' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE at Temporary Cul-de-sac



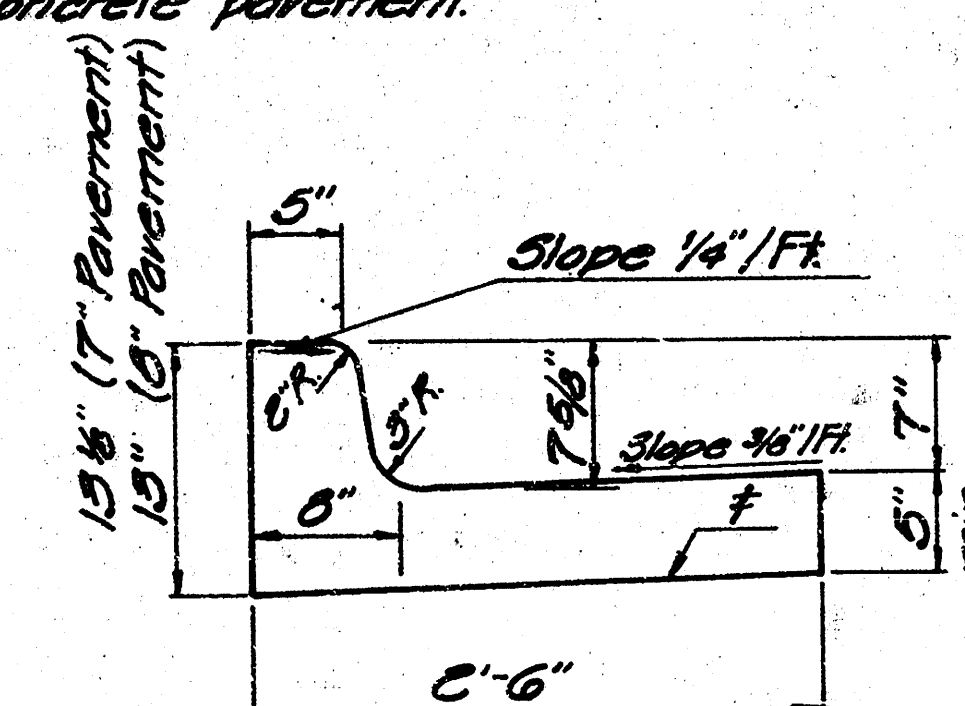
PARTIAL SECTION

37' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE at Temporary Cul-de-sac

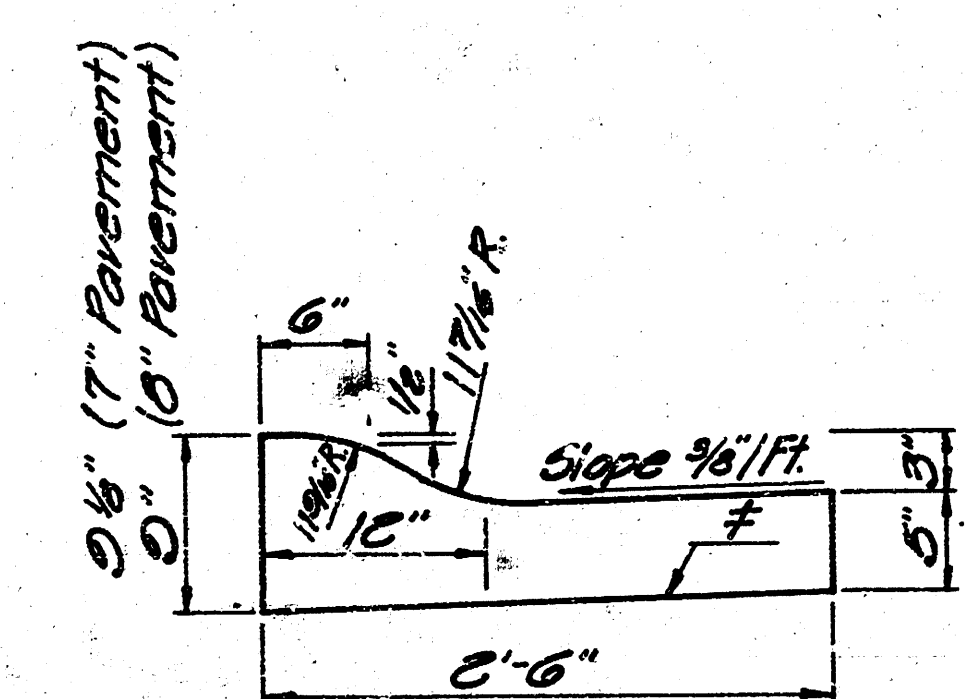


DETAIL OF TRANSVERSE CONSTRUCTION JOINTS

Transverse Construction Joints shall be constructed in flexible base pavements at locations where pavement temporarily ends to facilitate future pavement construction as shown by detail. The cost of constructing the Transverse Construction Joints shall not be measured or paid for directly but shall be included in the bid price for square yards of asphaltic concrete pavement.



STANDARD CURB & GUTTER DETAIL



ROLL TYPE CURB & GUTTER DETAIL

CITY OF WICHITA, KANSAS	
TYPICAL SECTIONS	
STREET IMPROVEMENTS	
NORTHWEST VILLAGE	
PROJ. NO. 472-76-245-8103-000-000-001	
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.	
ENGINEERS	
WICHITA, KANSAS	
Designed by	Checked by
Drawn by	Date
Job No. 003005	

Scale 1" = 10'

32' 32' 34' Fe-Fe

Fe-Fe

Fe-Cb

30' R. (Typ) Fe-Cb

35' 16' 0' 15'-0" 15'-0" 15'-0"

Integral Curb (Typ)

0' cl. (Typ) 15'-0"

* Denotes Construction Joint. See this sheet.

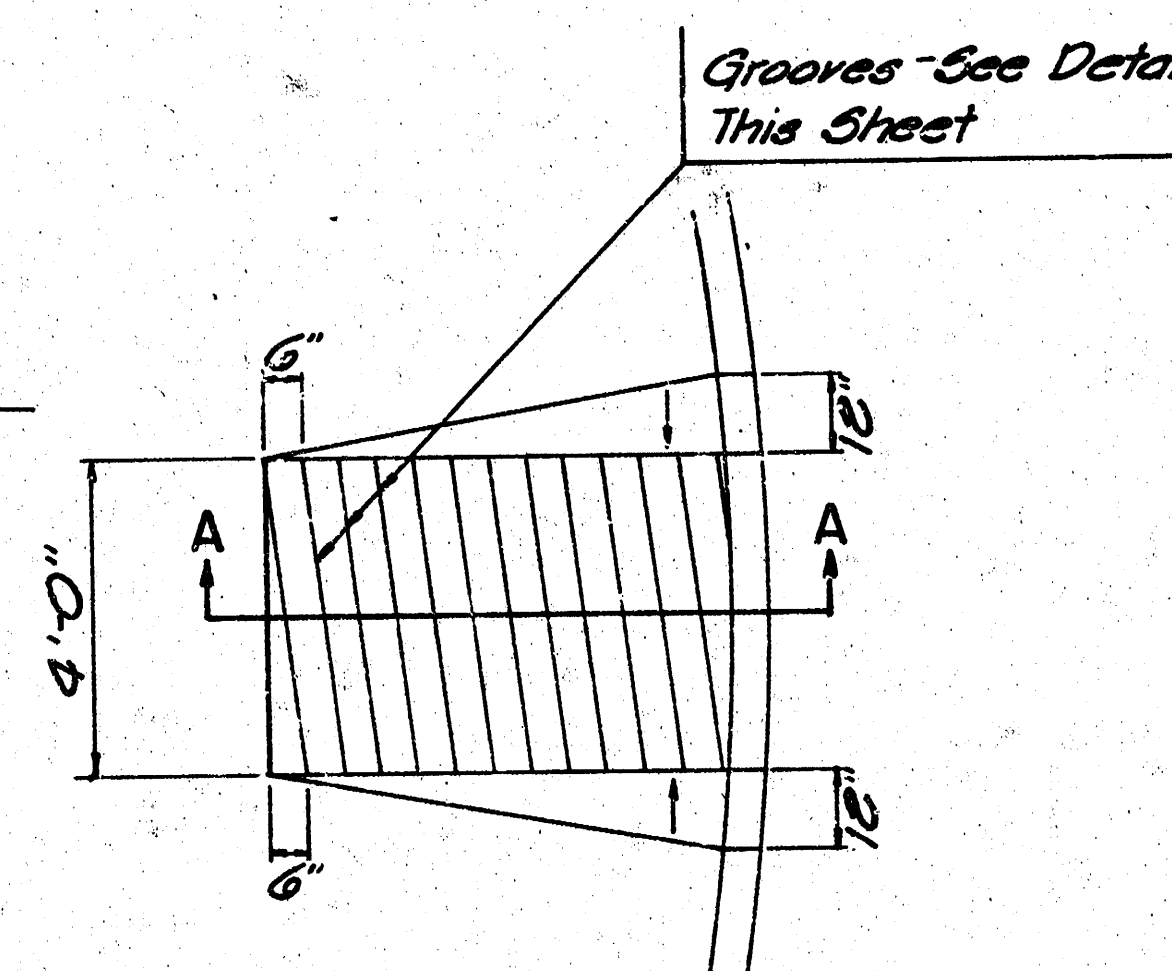
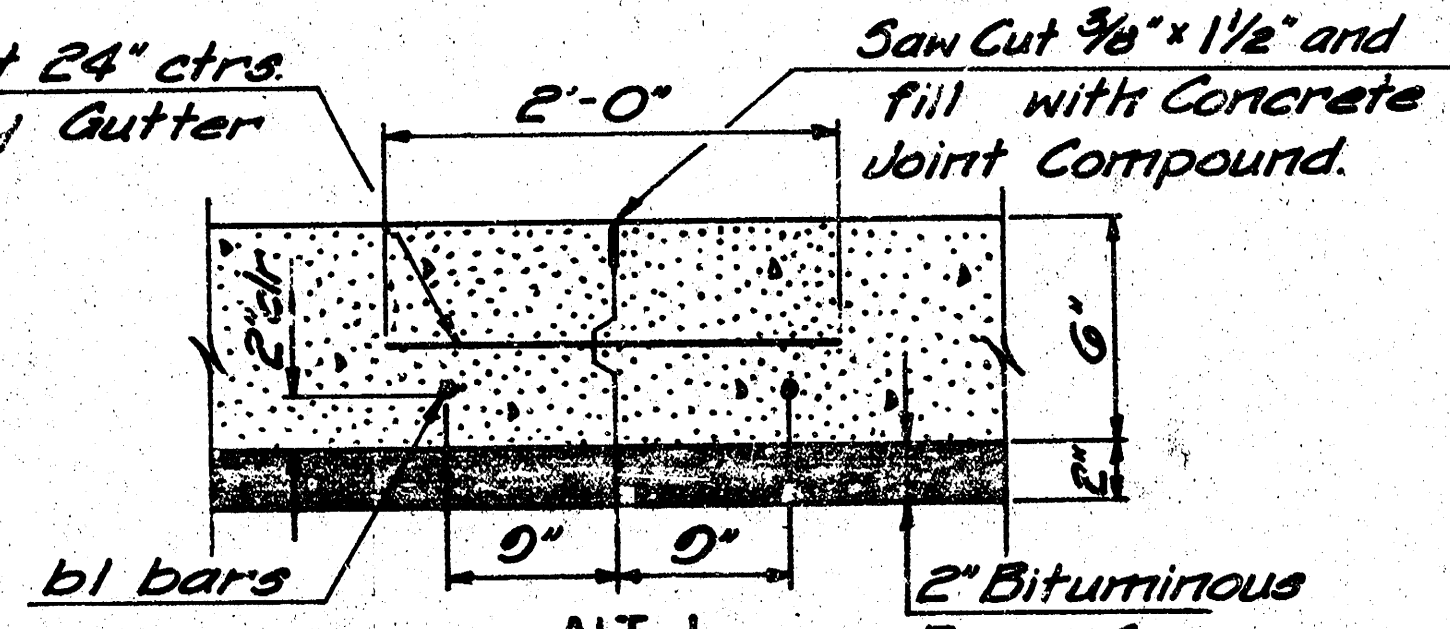
Hand-drawn diagrams of various stepped profiles (a1, a2, a3, u1, u2, u3) with dimensions in feet and inches. The profiles are shown in perspective, with dimensions labeled along the top and side edges.

- a1**: Dimensions: 18'-0", 19'-6", 18'-0"
- a2**: Dimensions: 24'-0", 2'-0", 1'-0"
- a3**: Dimensions: 13'-0", 2'-0", 3'-0"
- u1**: Dimensions: 18'-0", 19'-6", 18'-0"
- u2**: Dimensions: 9'-6", 2'-0", 3'-0"
- u3**: Dimensions: 2'-0", 3'-0", 1'-0"

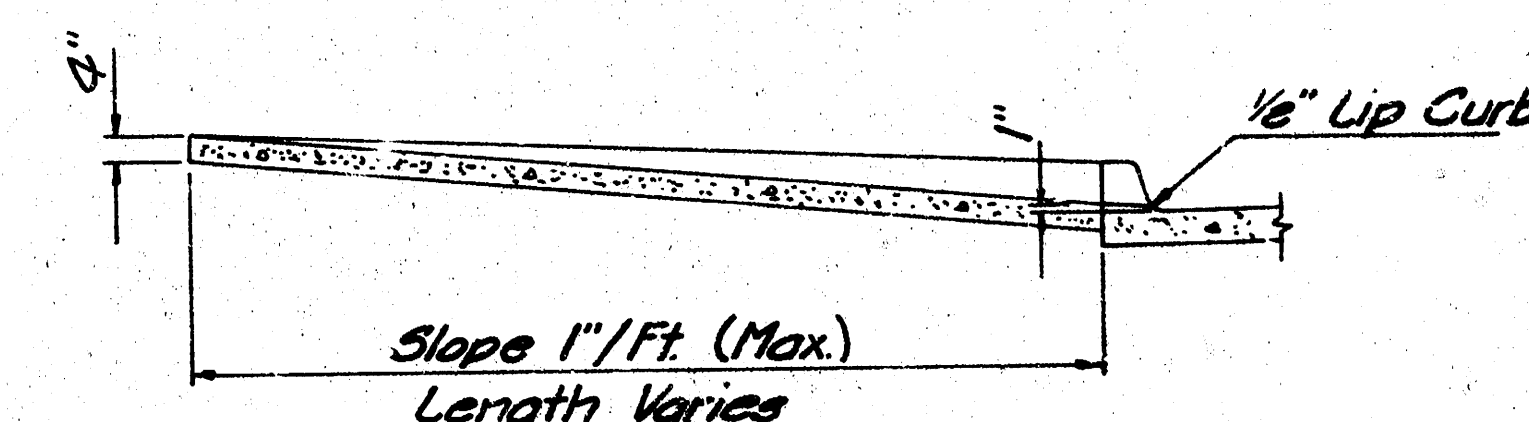


* Denotes Construction Joint, See detail this sheet.
+ Any additional Materials or Labor required due to flare from typical section shall be subsidiary to base bid for "Combined Curb & Gutter."

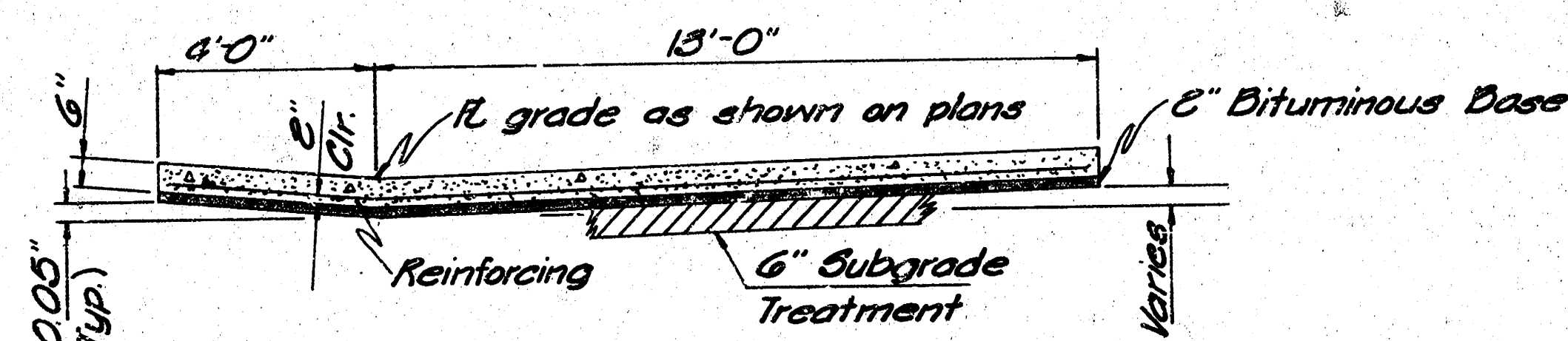
2'-0" Saw Cut $\frac{3}{8}$ " x $1\frac{1}{2}$ " and fill with Concrete Joint Compound.



HANDICAP RAMP DETAIL



SECTION A-A



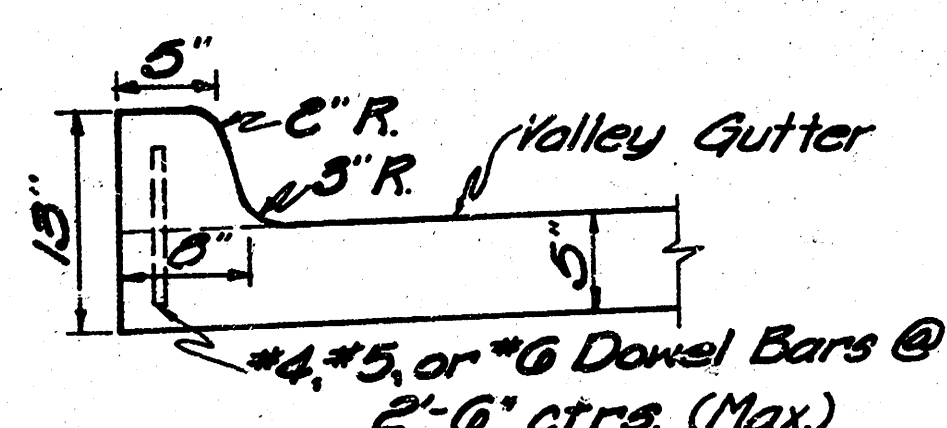
SECTION B-B

[illegible]

CONSTRUCTION JOINT

DETAILS

Note: Use Alt. 1 for single Panel Construction. Use Alt. 2 for Monolithic Construction.



**STANDARD INTEGRAL
CURB & GUTTER DETAIL**



GROOVE DETAIL
*Grooves required
only in ramp*

CITY OF WICHITA, KANSAS

PAVING DETAILS

STREET IMPROVEMENTS NORTHWEST VILLAGE

PROJ. NO. 472-76-245-81013-000-000-001

PROFESSIONAL ENGINEERING CONSULTANTS, P.C.

ENGINEERS
WICHITA, KANSAS

Designed by	CSA BER
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Checked by	
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Date _____

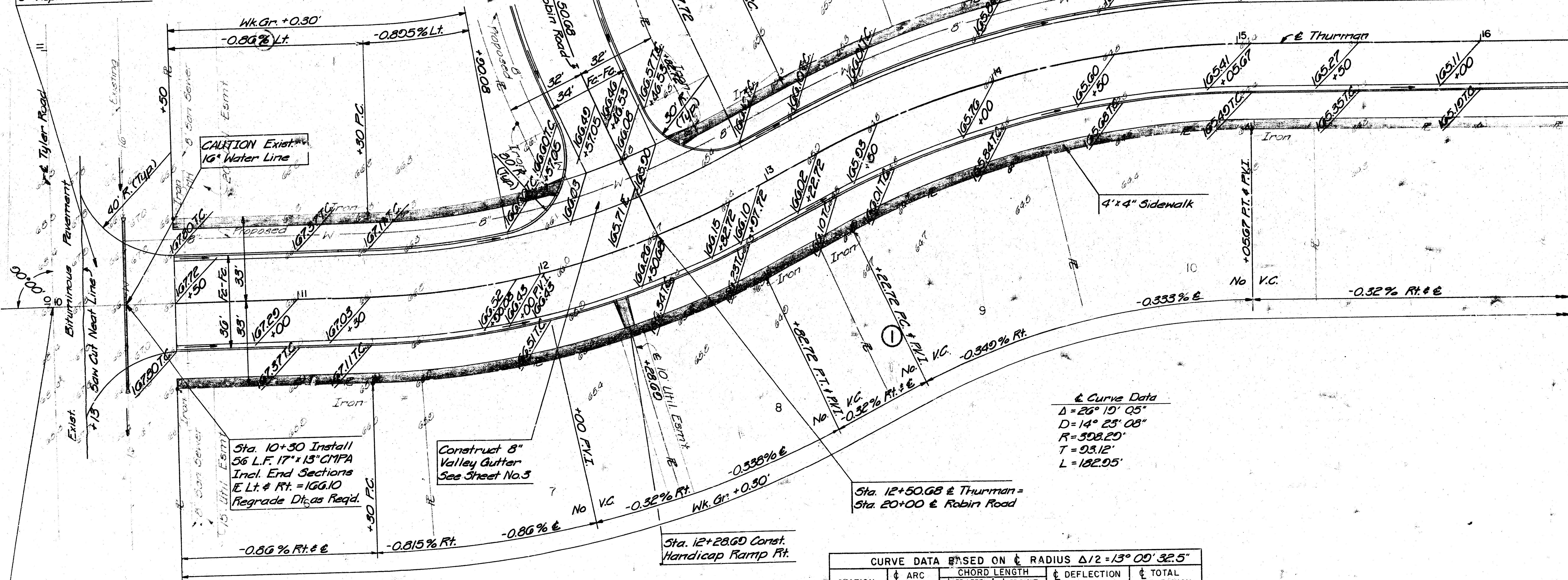
Job No. **BC305**

Sheet 3 of 11

CURVE DATA BASED ON $\Delta/2 = 12^\circ 30' 00''$					
STATION	ARC LENGTH	CHORD LENGTH		DEFLECTION ANGLE	TOTAL DEFLECTION
		8' OFF LEFT FACE CURB	8' OFF RIGHT FACE CURB		
11+30.00	—	—	—	0° 00' 00"	0° 00' 00"
11+50.00	20.00'	18.51'	21.48'	1° 38' 13.0"	1° 38' 13.0"
11+75.00	25.00'	23.14'	26.85'	2° 02' 46.6"	3° 40' 59.6"
11+90.08	15.08'	13.06'	—	1° 14' 04"	—
12+00	25.00'	23.14'	26.85'	2° 02' 46.6"	5° 43' 46.2"
12+25	—	—	—	—	—
12+50	—	—	—	—	—
12+75	25.00'	23.14'	26.85'	2° 02' 46.6"	11° 52' 06.0"
12+82.72	7.72'	7.15'	8.20'	0° 37' 54.0"	12° 30' 00"

Curve Data
 $\Delta = 25^\circ 00' 00''$
 $D = 16^\circ 22' 13''$
 $R = 350.00'$
 $T = 77.50'$
 $L = 152.72'$

Const. 200 SY.
 5" Asphalt Hookup



Sta. 10+00 & Thurman =
 Sta. 10+00 & Tyler Rd.

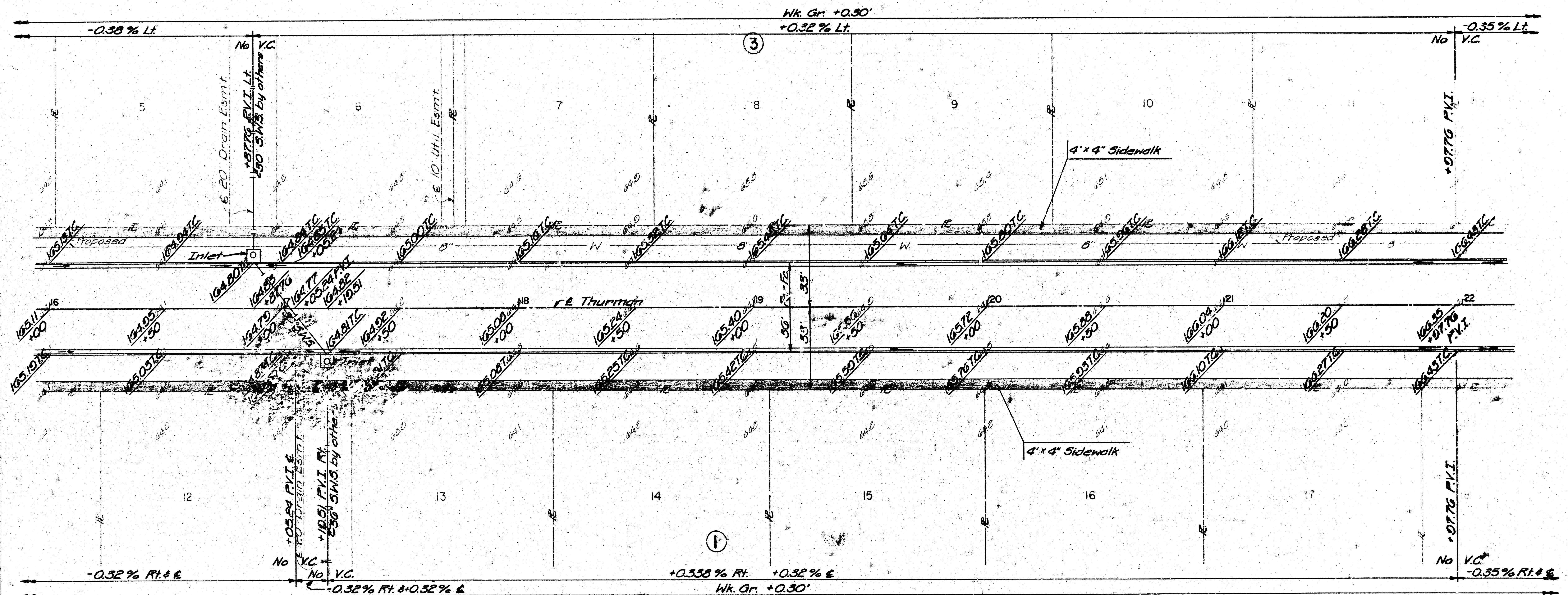
EARTHWORK			
	EXCAVATION	COMPACTED FILL	MANIPULATION
PROPERTY	6.52 CY	287.03 CY	5,128.03 CY
10%	6.15 CY	28.70 CY	2,125.03 CY
Total	67.67 CY	316.73 CY	2,337.53 CY
CITY	710.7 CY	13.22 CY	574.72 CY
10%	711.1 CY	1.32 CY	574.73 CY
Total	712.1 CY	14.54 CY	632.10 CY

Note: Construct 4' x 4' Conc.
 Sidewalk Rt. & Lt. on
 Thurman as shown.

CURVE DATA BASED ON $\Delta/2 = 13^\circ 00' 32.5''$					
STATION	ARC LENGTH	CHORD LENGTH		DEFLECTION ANGLE	TOTAL DEFLECTION
		8' OFF LEFT FACE CURB	8' OFF RIGHT FACE CURB		
13+22.72	—	—	—	0° 00' 00"	0° 00' 00"
13+50.00	27.28'	20.76'	25.40'	1° 57' 43.5"	1° 57' 43.5"
13+75	25.00'	20.63'	23.36'	1° 47' 53.5"	3° 45' 37.0"
14+00	—	—	—	—	—
14+25	—	—	—	—	—
14+50	—	—	—	—	—
14+75	—	—	—	—	—
15+00	25.00'	20.63'	23.36'	1° 47' 53.5"	12° 45' 04.5"
15+05.67	5.67'	6.04'	5.30'	0° 24' 28"	13° 00' 32.5"

Revision		By	Date
CITY OF WICHITA, KANSAS			
THURMAN			
STREET IMPROVEMENTS			
PROJ. NO. 472-76-245-81013-000-000-001			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.			
ENGINEERS WICHITA, KANSAS			
Designed by DD, BER	Job No. 80305	Sht. 4	47
Drawn by GRH	Date Nov. 1980		

SCALE 1"=20'

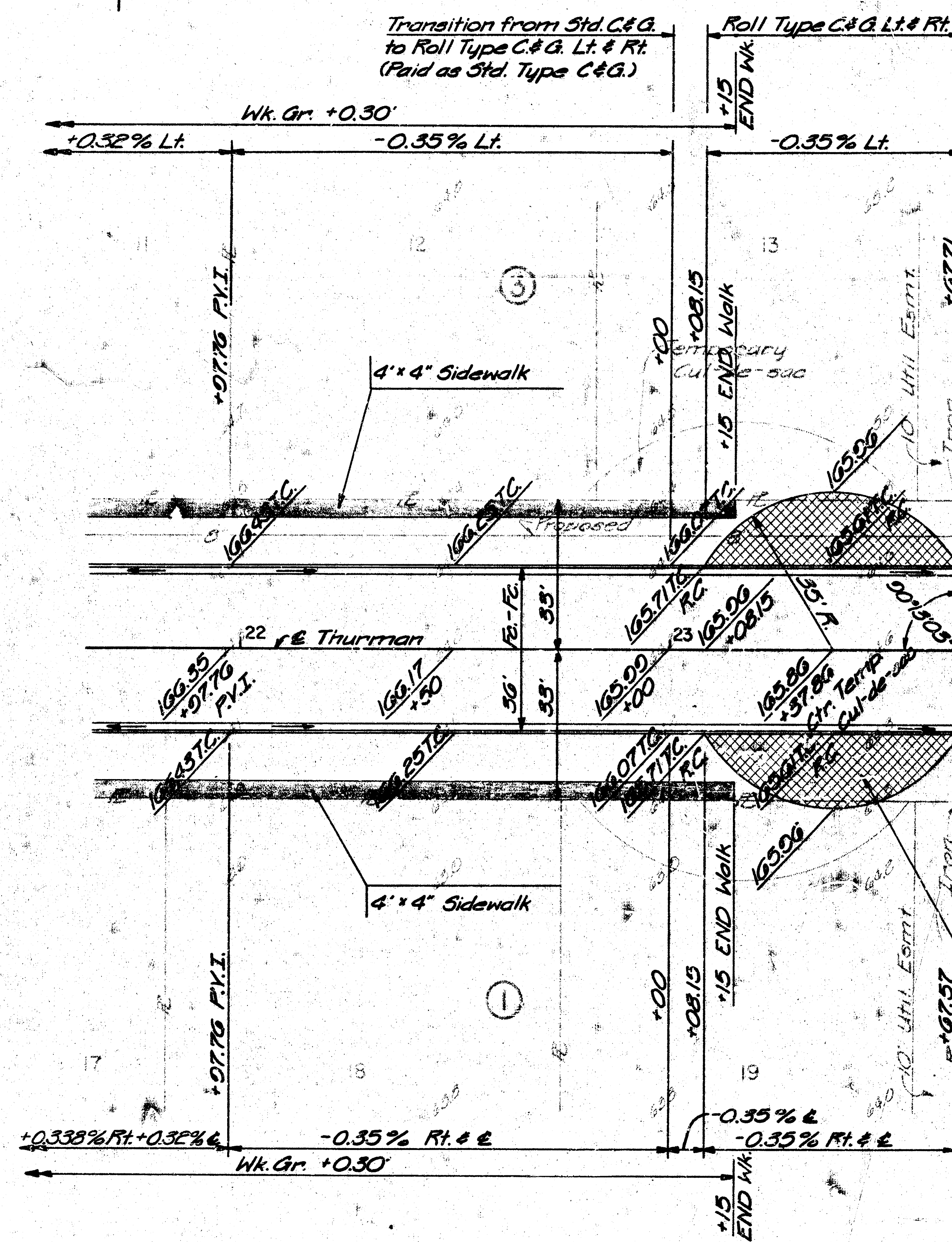


EARTHWORK			
	EXCAVATION	COMPACTED FILL	MANIPULATION
PROPERTY	106.71 C.Y.	457.78 C.Y.	6,482.00 C.Y.
10%	10.67 C.Y.	45.78 C.Y.	648.20 C.Y.
Total	117.38 C.Y.	470.56 C.Y.	6,664.40 C.Y.
CITY	14.56 C.Y.	4.17 C.Y.	133.33 C.Y.
10%	1.46 C.Y.	0.42 C.Y.	13.33 C.Y.
Total	16.02 C.Y.	4.59 C.Y.	146.66 C.Y.

Revision		By	Date
CITY OF WICHITA, KANSAS			
THURMAN			
STREET IMPROVEMENTS			
PROJ. NO. 472-76-245-81013-000-000-001			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.			
ENGINEERS			
WICHITA, KANSAS			
Designed by D.D. BER	Job No. 80305	Sh. 5	
Drawn by GRH	Date Nov. 1980		

SCALE 1"=20'

SCALE 1"=20'



EARTHWORK			
	EXCAVATION	COMPACTED FILL	MANIPULATION
PROPERTY	0.00 CY	210.26 CY	676.76 SY
10%	0.00 CY	21.03 CY	67.68 SY
Total	0.00 CY	231.29 CY	744.44 SY
CITY	0.00 CY	4.17 CY	37.25 SY
10%	0.00 CY	0.42 CY	3.73 SY
Total	0.00 CY	4.59 CY	40.98 SY

THIS SHEET VOID
AS OF 3-28-91

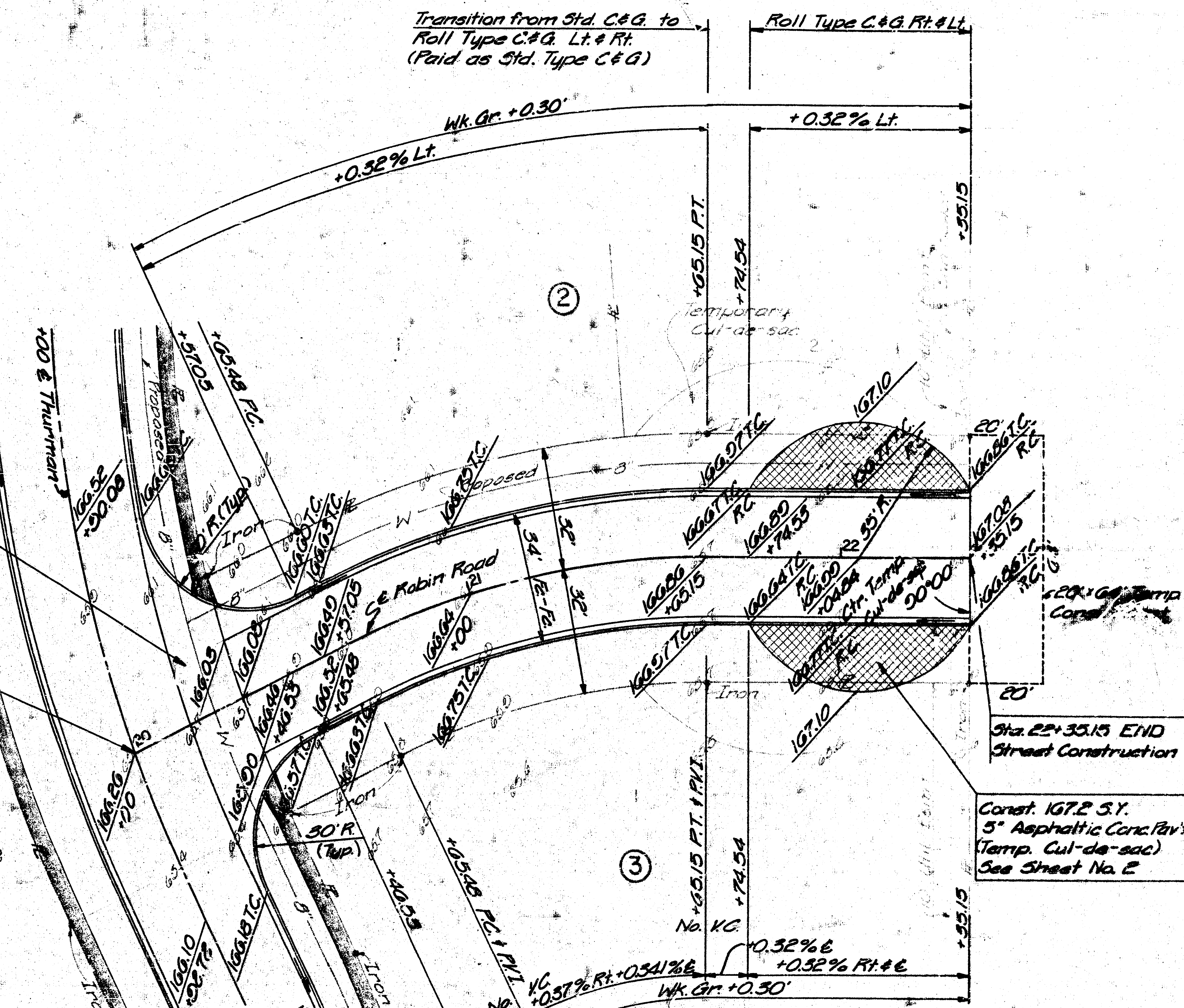
8" Valley Gutter
See Sheet No. 4

Sta. 20+00 & Robin Rd.
Sta. 12+50.65 & Thurman

520' x 66" Temp.
Corot. Esmt.

Sta. 23+07.04 END
Street Construction

Const. 153.0 S.Y.
5" Asphaltic Conc. Pavt.
(Temp. Cul-de-sac)
See Sheet No. E



EARTHWORK			
	EXCAVATION	COMPACTED FILL	MANIPULATION
PROPERTY	61.90 CY	30.47 CY	814.63 SY
10%	6.19 CY	3.05 CY	81.46 SY
Total	68.09 CY	33.52 CY	896.09 SY
CITY	2.17 CY	0.00 CY	2.30 SY
10%	0.22 CY	0.00 CY	0.24 SY
Total	2.39 CY	0.00 CY	2.54 SY

Curve Data
 $\Delta = 20^\circ 19' 05''$
 $D = 20^\circ 24' 22''$
 $R = 210.08'$
 $T = 50.73'$
 $L = 99.67'$

CURVE DATA BASED ON $\Delta/2 = 13^\circ 09' 32.5''$				
STATION	ARC LENGTH	CHORD LENGTH	DEFLECTION ANGLE	TOTAL DEFLECTION
20+65.48	—	—	0° 00' 00"	0° 00' 00"
20+75	9.52'	10.62'	1° 15' 24.5"	1° 15' 24.5"
21+00	25.00'	27.87'	3° 18' 02.5"	4° 33' 27.0"
21+25	25.00'	27.87'	3° 18' 02.5"	7° 51' 29.5"
21+50	25.00'	27.87'	3° 18' 02.5"	11° 09' 32.0"
21+65.15	15.15'	16.80'	2° 00' 00.5"	13° 09' 32.5"



No.	Revision	By	Date
CITY OF WICHITA, KANSAS			
THURMAN & ROBIN ROAD			
STREET IMPROVEMENTS			
PROJ. NO. 472-76-245-81013-000-000-001			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.			
ENGINEERS WICHITA, KANSAS			
Designed by	O.D. BEE	Job No.	80305
Drawn by	GRH	Date	Nov. 1980
Sheet	6	Of	7