

CITY OF WICHITA, KANSAS

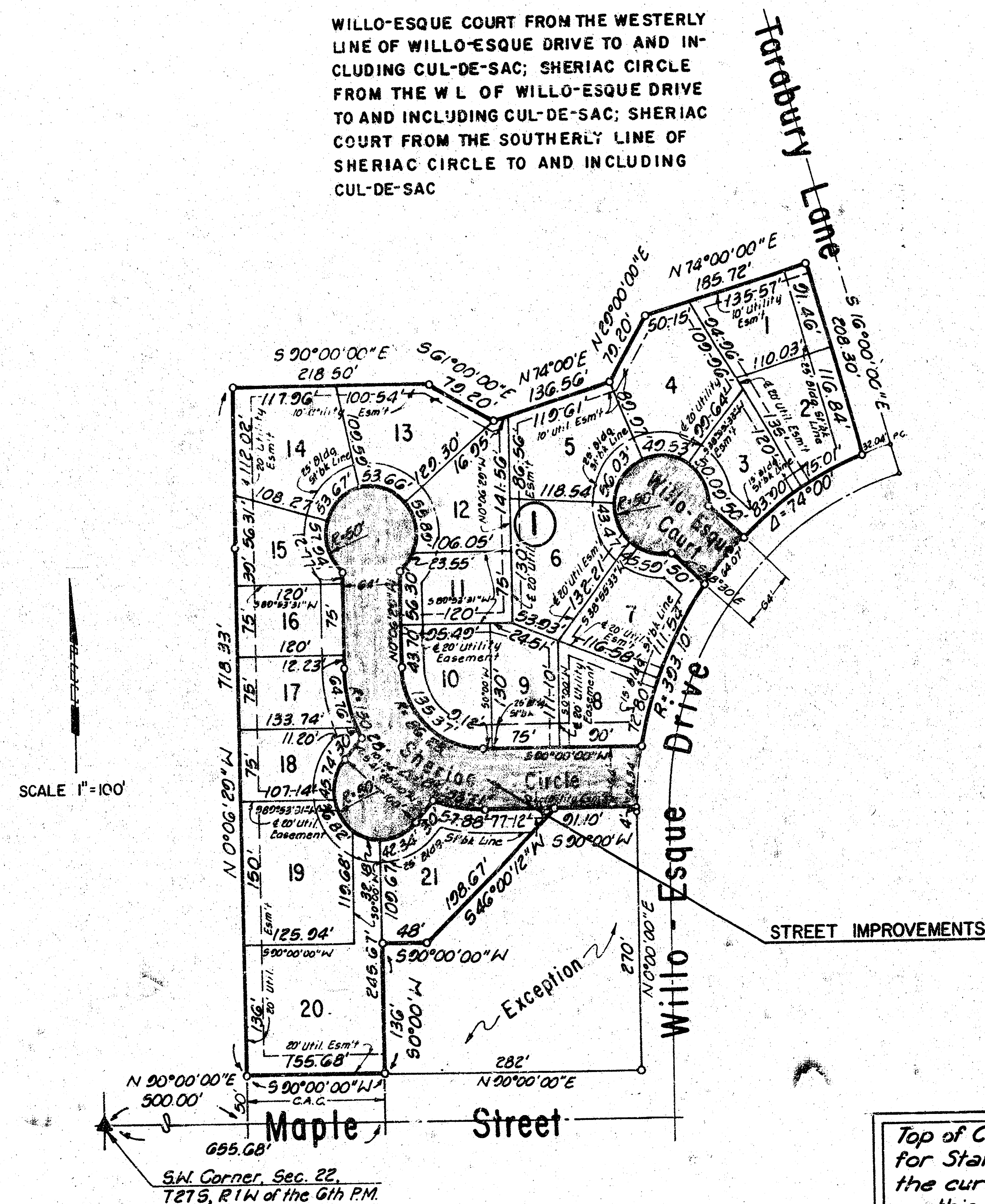
STREET IMPROVEMENTS

(WILLO-ESQUE 5TH ADDITION)

R. W. BRUGGEMAN - DIRECTOR OF ENGINEERING/CITY ENGINEER

PROJECT NO. 472 - 76 - 245 - 81106 - 000 - 000 - 001

WILLO-ESQUE COURT FROM THE WESTERLY LINE OF WILLO-ESQUE DRIVE TO AND INCLUDING CUL-DE-SAC; SHERIAC CIRCLE FROM THE W L OF WILLO-ESQUE DRIVE TO AND INCLUDING CUL-DE-SAC; SHERIAC COURT FROM THE SOUTHERLY LINE OF SHERIAC CIRCLE TO AND INCLUDING CUL-DE-SAC



BENCH MARKS

BM-C&W Disc., 52' S. & 32' W. of E's Wood-chuck & Maple. Elev. = 141.10

BM-3/4" IP, NE Cor Lot 5. Elev. = 140.24

BM-Chiseled I on B/C; W. Side of Willo-Esque Drive; 67' S. of Tarabury Lane. Elev. = 141.30

BM-Chiseled I on B/C; W. Side of Willo-Esque Drive; 26' S. of Sheriac Circle. Elev. = 136.14

INDEX OF SHEETS

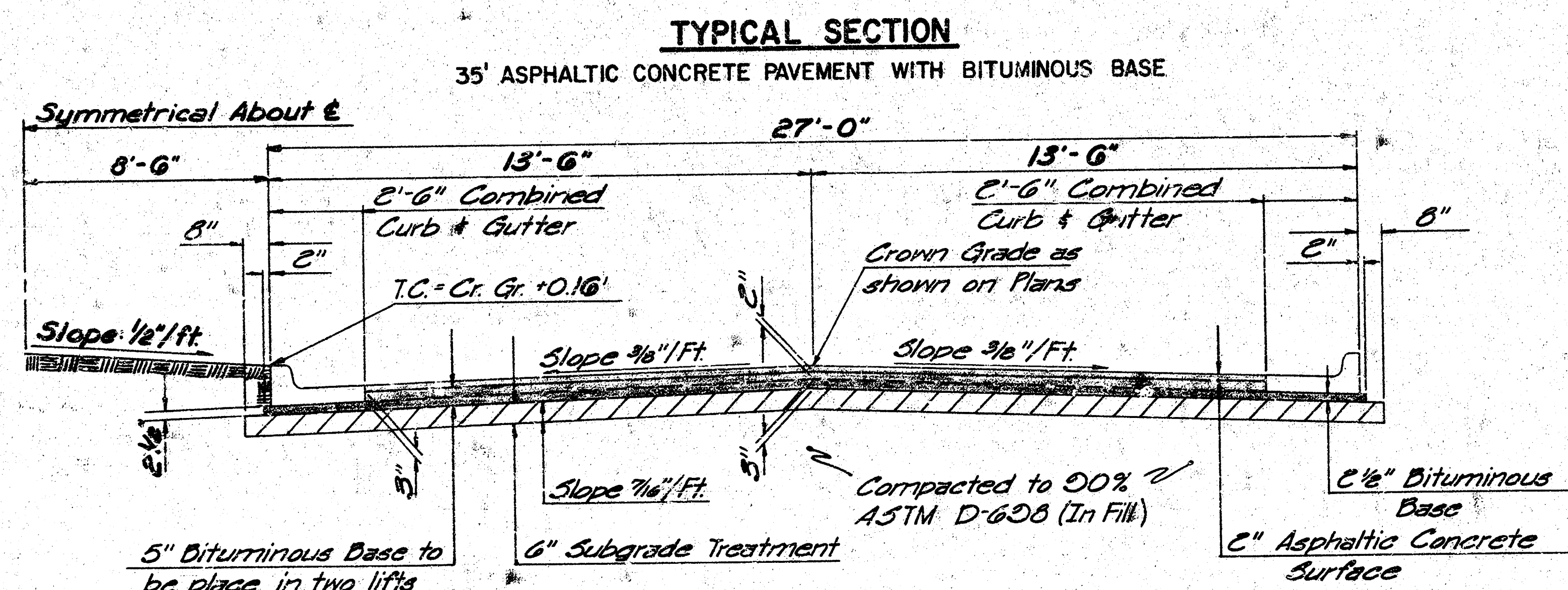
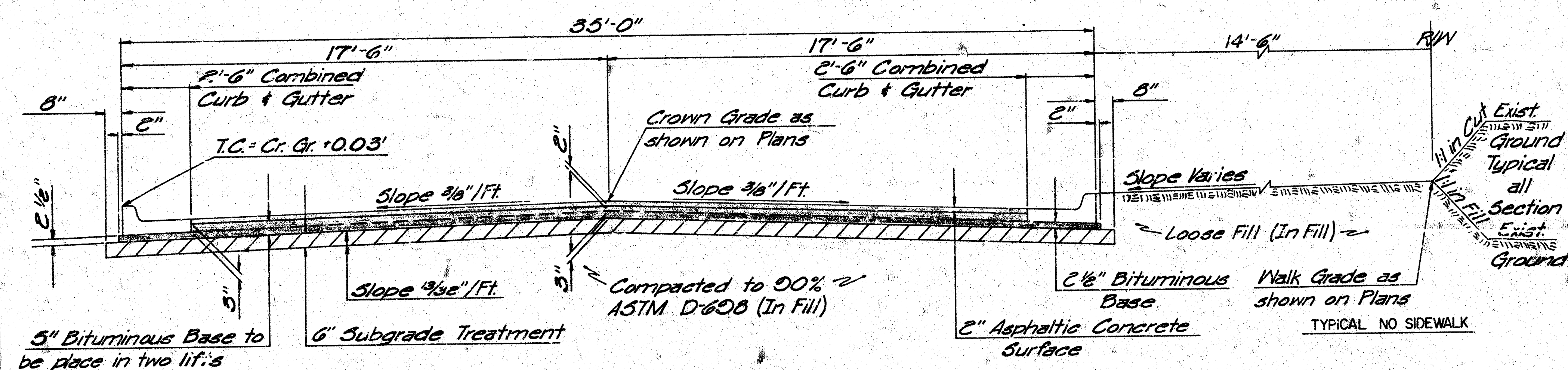
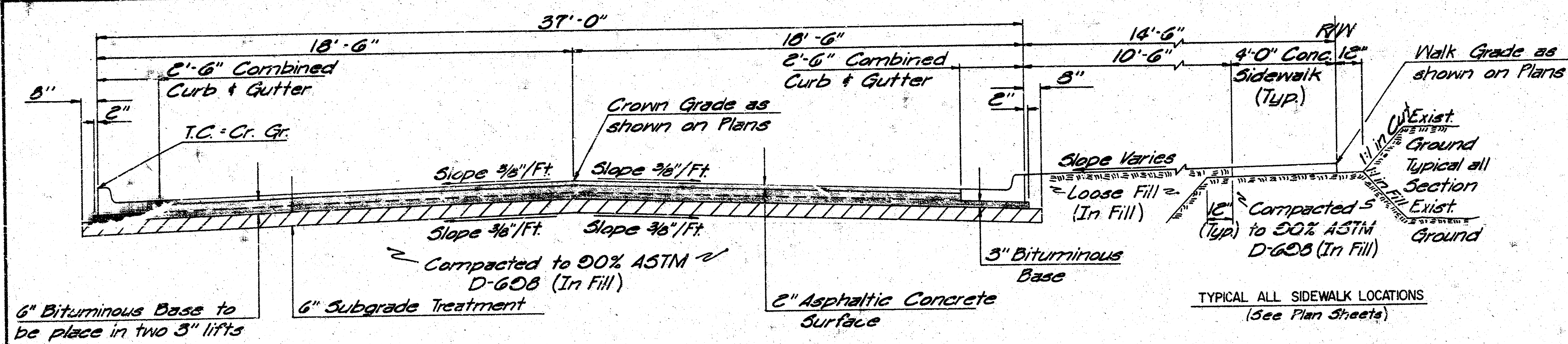
1. TITLE SHEET
2. TYPICAL SECTION
3. VALLEY GUTTER DETAILS
- 4-5. PLAN SHEETS
- 6-8. CROSS SECTIONS

NOTE: All excess excavated material from street construction shall be wasted on lots 18, 19, 20, and 21 block 1.

Top of Curb elevations are given for Standard Curb & Gutter. Since the curb and gutter to be const on this project is to be Roll Type, subtract 0.25 feet from the top of curb elevations shown. The walk grades on the plans are with respect to full curb elevations and these are the elevations the walk and property lines are to be graded to.

JULY, 1981

	Revision		By	Date
	CITY OF WICHITA, KANSAS			
	TITLE SHEET			
	STREET IMPROVEMENTS			
PROJ. NO. 472-76-245-81106-000-000-001				
ENGINEERS				
WICHITA, KANSAS				
Designed by BR	Job No. 81180	Sht. 1	8	
Drawn by BS	Date: July, 1981			



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

- + Slope 3/8"/Ft. (37' Pavement)
- + Slope 7/8"/Ft. (35' Pavement)
- + Slope 1/2"/Ft. (27' Pavement)

ROLL TYPE CURB & GUTTER DETAIL

Note: Integral Curb shall be tied to the pavement base with short deformed dowel bars spaced at 2'-0" intervals. These dowel bars shall be not less than 1/2" or more than 3/4" in diameter.

STANDARD INTEGRAL CURB & GUTTER DETAIL

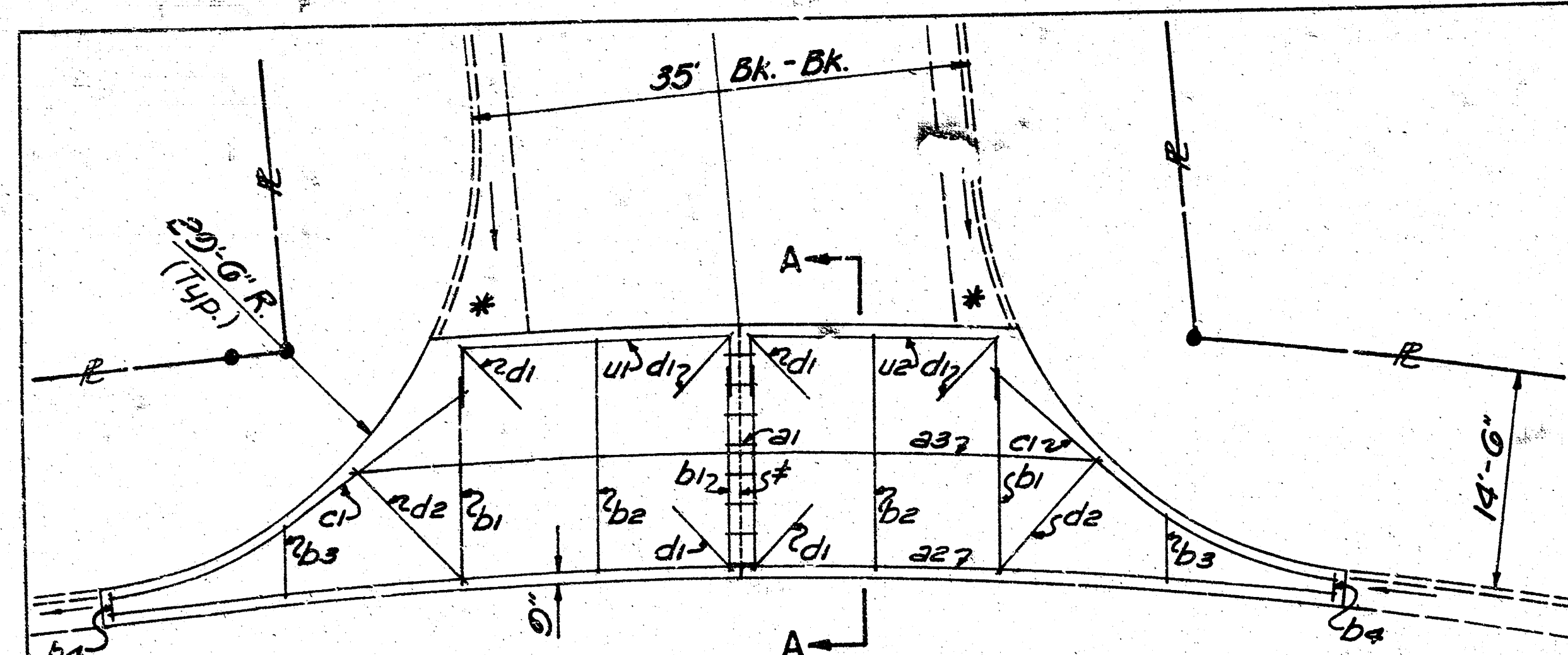
ROLL TYPE INTEGRAL CURB & GUTTER DETAIL

Note: Roll Type Integral Curb shall be poured monolithic with Valley Gutter.

GENERAL NOTES

- 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.
- 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.
- THE A.C. PAVEMENT BETWEEN COMBINED CURB AND GUTTER ON 35' BACK TO BACK AND 29' 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.
- SIDEWALKS INDICATED ON THE TYPICAL SECTION ARE FOR LOCATION ON THAT SECTION ONLY. SIDEWALKS SHALL BE CONSTRUCTED WHERE SHOWN ON THE PLAN SHEET AS PART OF THIS PROJECT.
- 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'.
- STANDARD INTEGRAL CURB SHALL BE TIED TO THE PAVEMENT BASE WITH SHORT DEFORMED DOWEL BARS SPACED AT 2'-6" INTERVALS. THESE DOWEL 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. ROLL TYPE INTEGRAL CURB SHALL BE POURED MONOLITHIC WITH THE VALLEY GUTTER.
- 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 UNDERRUN AND THE BID ITEM COMPACTED FILL SHALL BE INCREASED BY THE AMOUNT OF MANIPULATED FILL SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH APPLICABLE STATE LAWS.

Revision		By	Date
CITY OF WICHITA, KANSAS			
TYPICAL SECTIONS			
STREET IMPROVEMENTS			
WILLO-ESQUE 5th ADDITION			
PROJ. NO. 472-75-243-81106-000-000-001			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.			
ENGINEERS			
WICHITA, KANSAS			
Designed by BR	Job No. 81106	Sh. 2 of 8	
Drawn by ES	Date July, 1981		

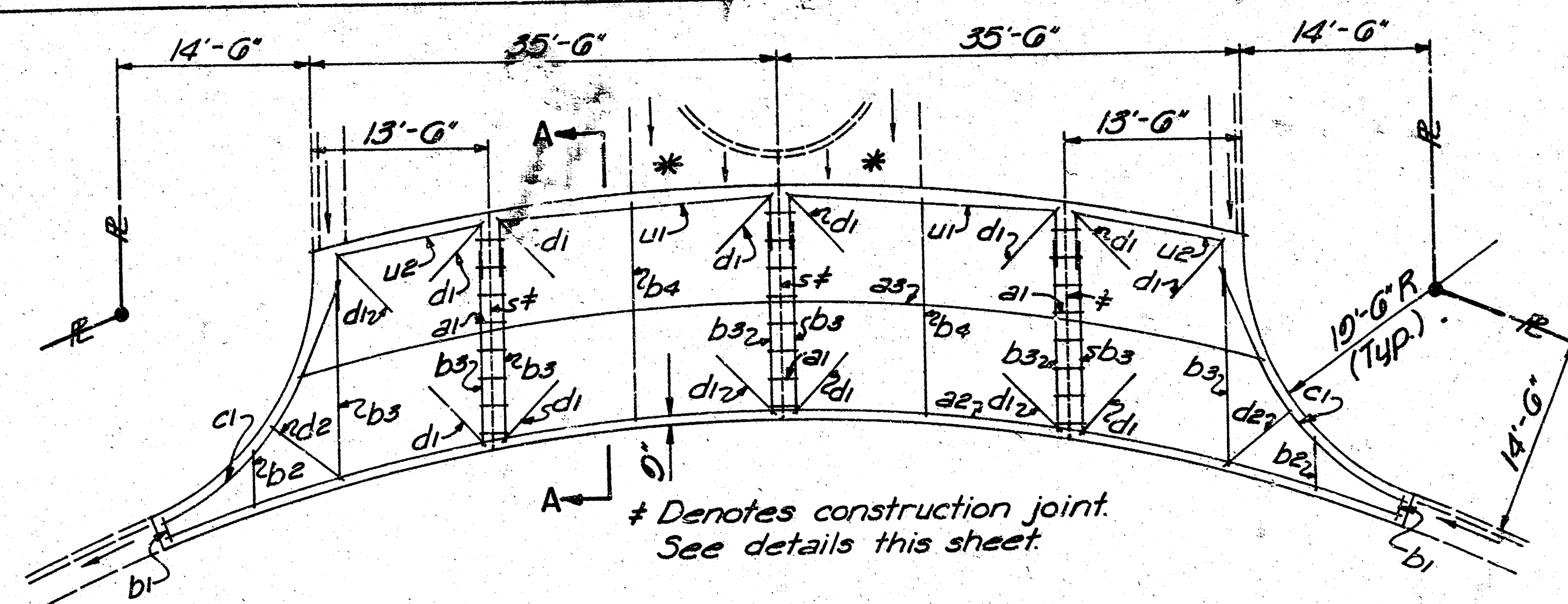


* Denotes Construction Joint.
See Details this sheet.

VALLEY GUTTER DETAIL

For Willo-Esque Court &
Sheriac Circle

* Any additional materials or
labor required due to flare
from typical section shall be
subsidiary to base bid for
combined Curb & Gutter.



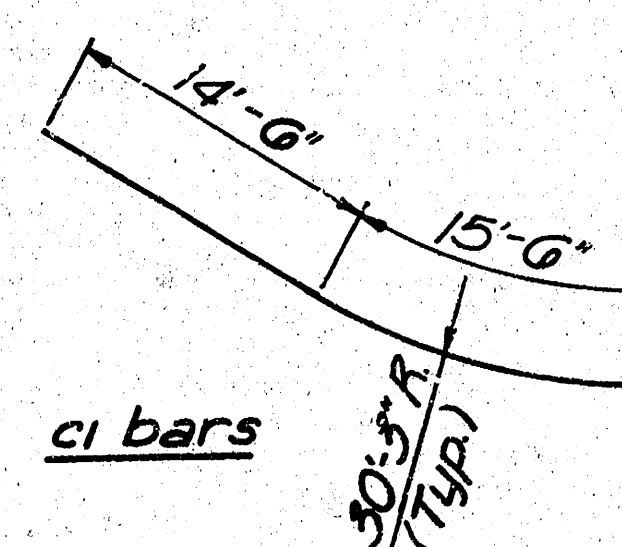
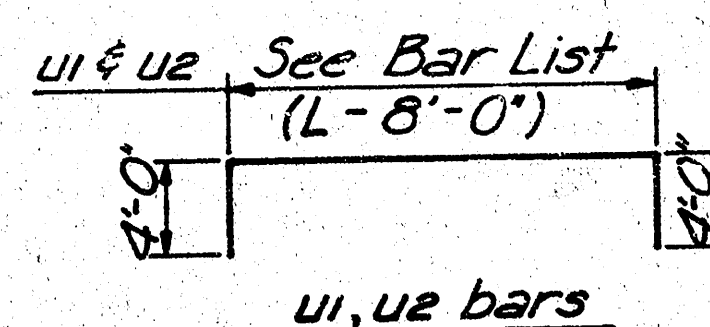
* Denotes construction joint.
See details this sheet.

VALLEY GUTTER DETAIL

For Sheriac Court

WILLO-ESQUE COURT VALLEY GUTTER BAR LIST			
Bar	No.	Size	Length
a1	8	#4	3'-0"
a2	1	#6	65'-0"
a3	1	#6	50'-0"
b1	4	#6	13'-6"
b2	2	#6	15'-6"
b3	2	#6	5'-0"
b4	2	#6	2'-0"
c1	2	#6	30'-0"
d1	6	#6	6'-0"
d2	2	#6	12'-0"
u1	1	#6	25'-0"
u2	1	#6	25'-0"

Reinf. Steel = 620 Lbs.

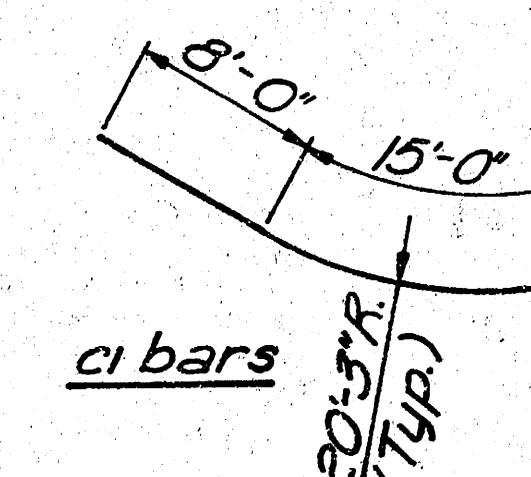
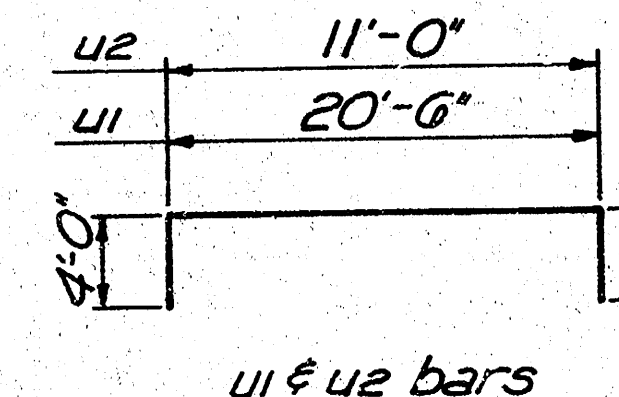


BENDING DIAGRAMS

For Willo-Esque Court &
Sheriac Circle

SHERIAC COURT VALLEY GUTTER BAR LIST			
Bar	No.	Size	Length
a1	24	#4	3'-0"
a2	1	#6	95'-6"
a3	1	#6	75'-0"
b1	2	#6	2'-0"
b2	2	#6	4'-0"
b3	8	#6	13'-6"
b4	2	#6	15'-6"
c1	2	#6	23'-0"
d1	14	#6	6'-0"
d2	2	#6	6'-0"
u1	2	#6	28'-0"
u2	2	#6	10'-0"

Reinf. Steel = 900 Lbs.

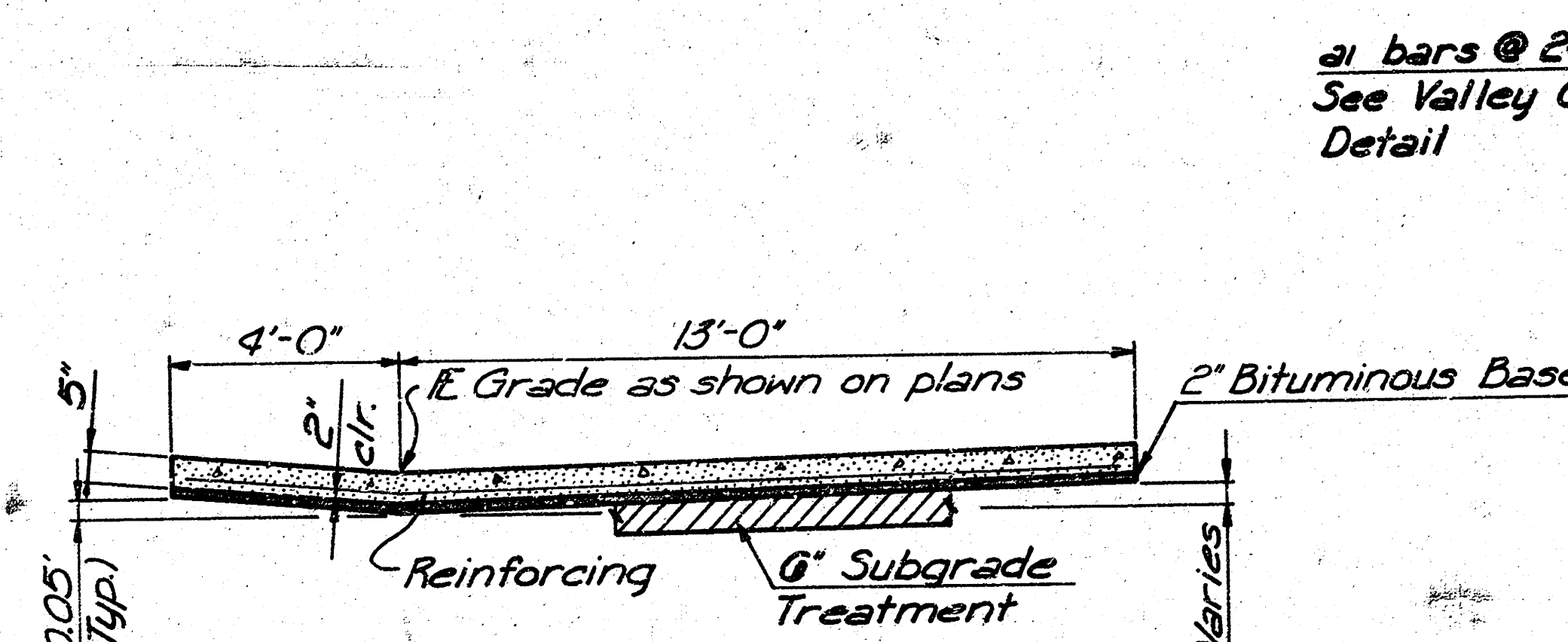


BENDING DIAGRAMS

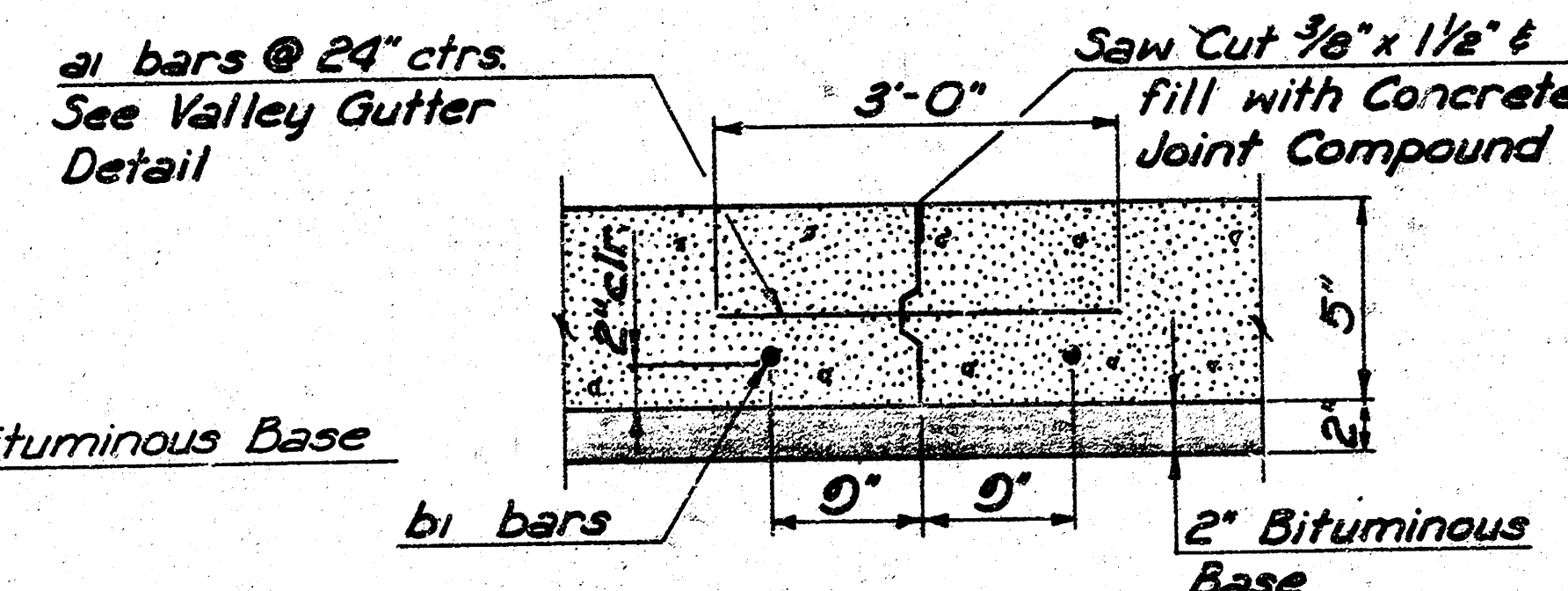
For Sheriac Court

SHERIAC CIRCLE VALLEY GUTTER BAR LIST			
Bar	No.	Size	Length
a1	8	#4	3'-0"
a2	1	#6	87'-0"
a3	1	#6	53'-0"
b1	4	#6	13'-6"
b2	2	#6	15'-6"
b3	2	#6	5'-0"
b4	2	#6	2'-0"
c1	2	#6	30'-0"
d1	6	#6	6'-0"
d2	2	#6	11'-0"
u1	1	#6	27'-0"
u2	1	#6	25'-0"

Reinf. Steel = 630 Lbs.

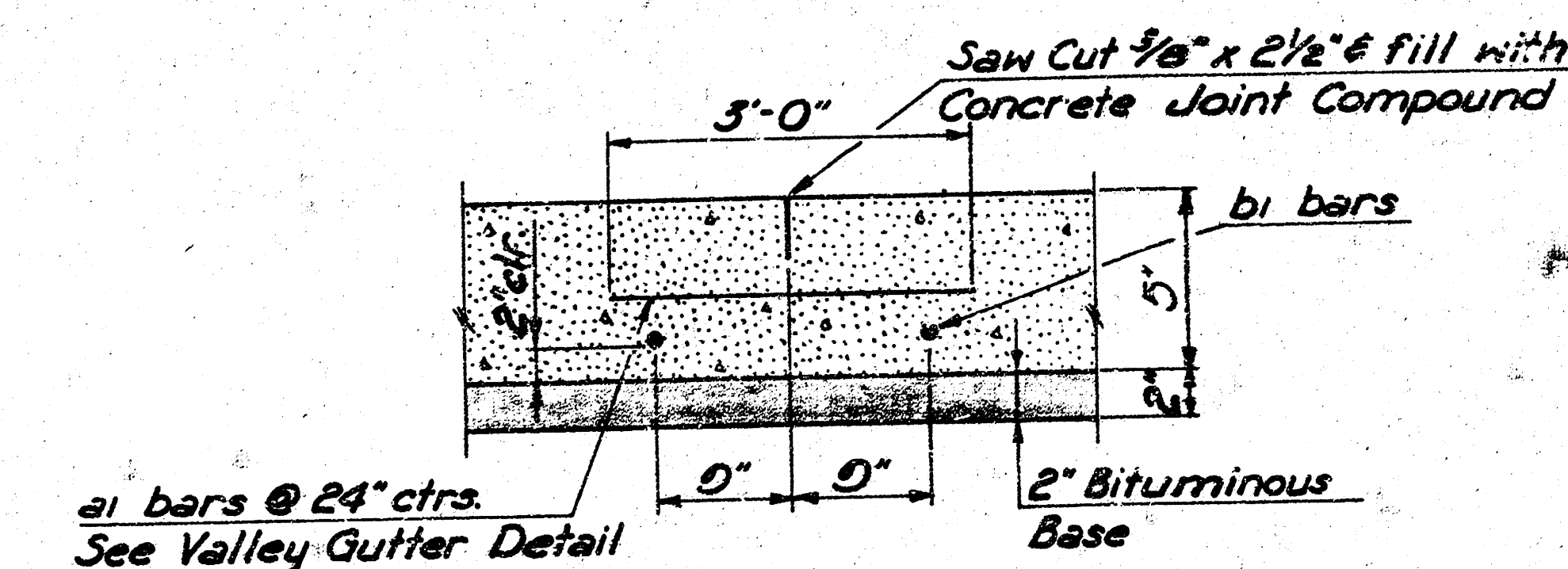


SECTION A-A



ALT. 1

CONSTRUCTION JOINT DETAILS



ALT. 2

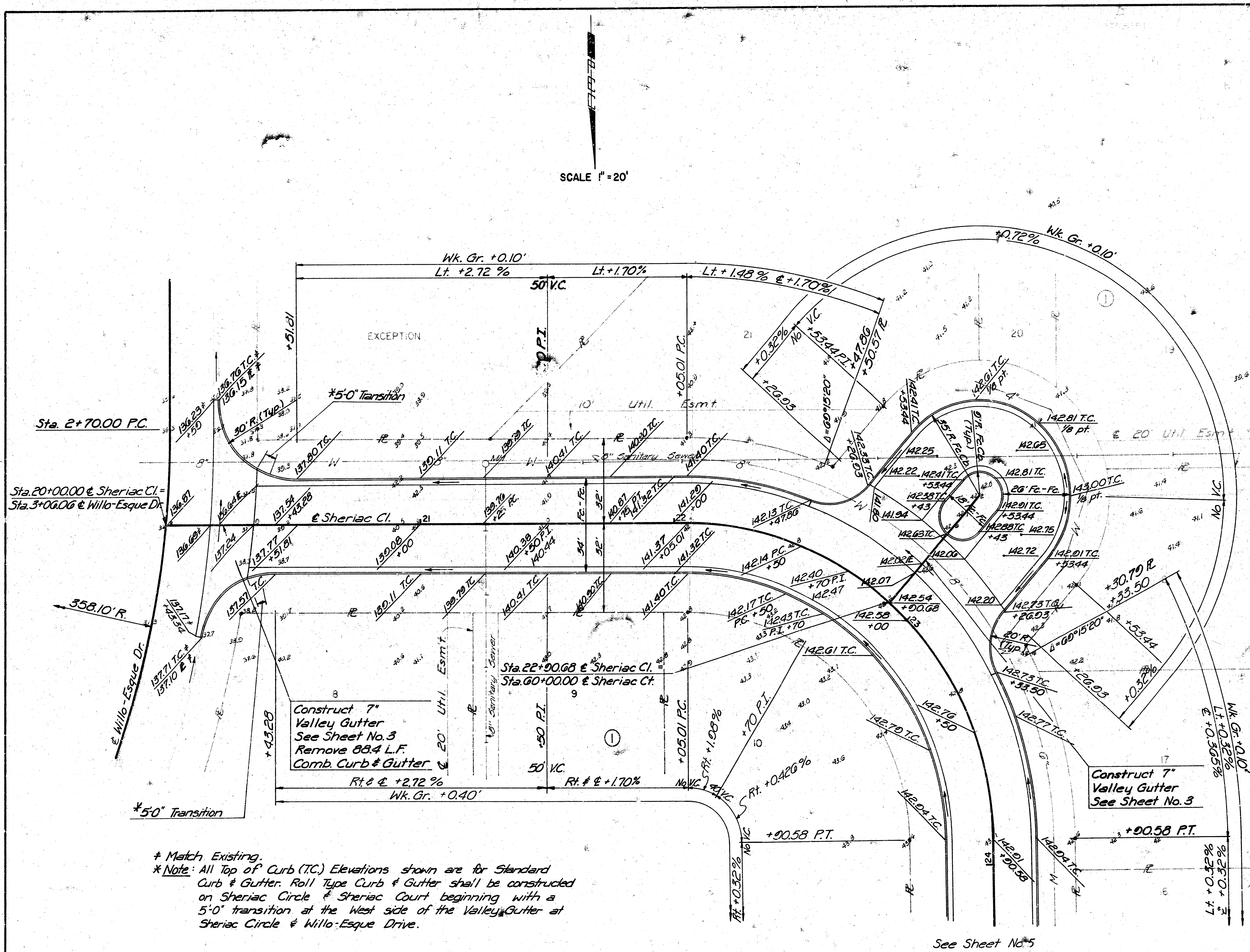
CITY OF WICHITA, KANSAS			
VALLEY GUTTER DETAILS			
STREET IMPROVEMENTS			
WILLO-ESQUE 5th ADDITION			
PROJ. NO. 472-76-245-81106 -000-000-001			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.			
ENGINEERS			
WICHITA, KANSAS			
Designed by	BR	Checked by	3/
Drawn by	GH	Date	July 1, 1981
		Job No.	81180

SCALE 1" = 20'

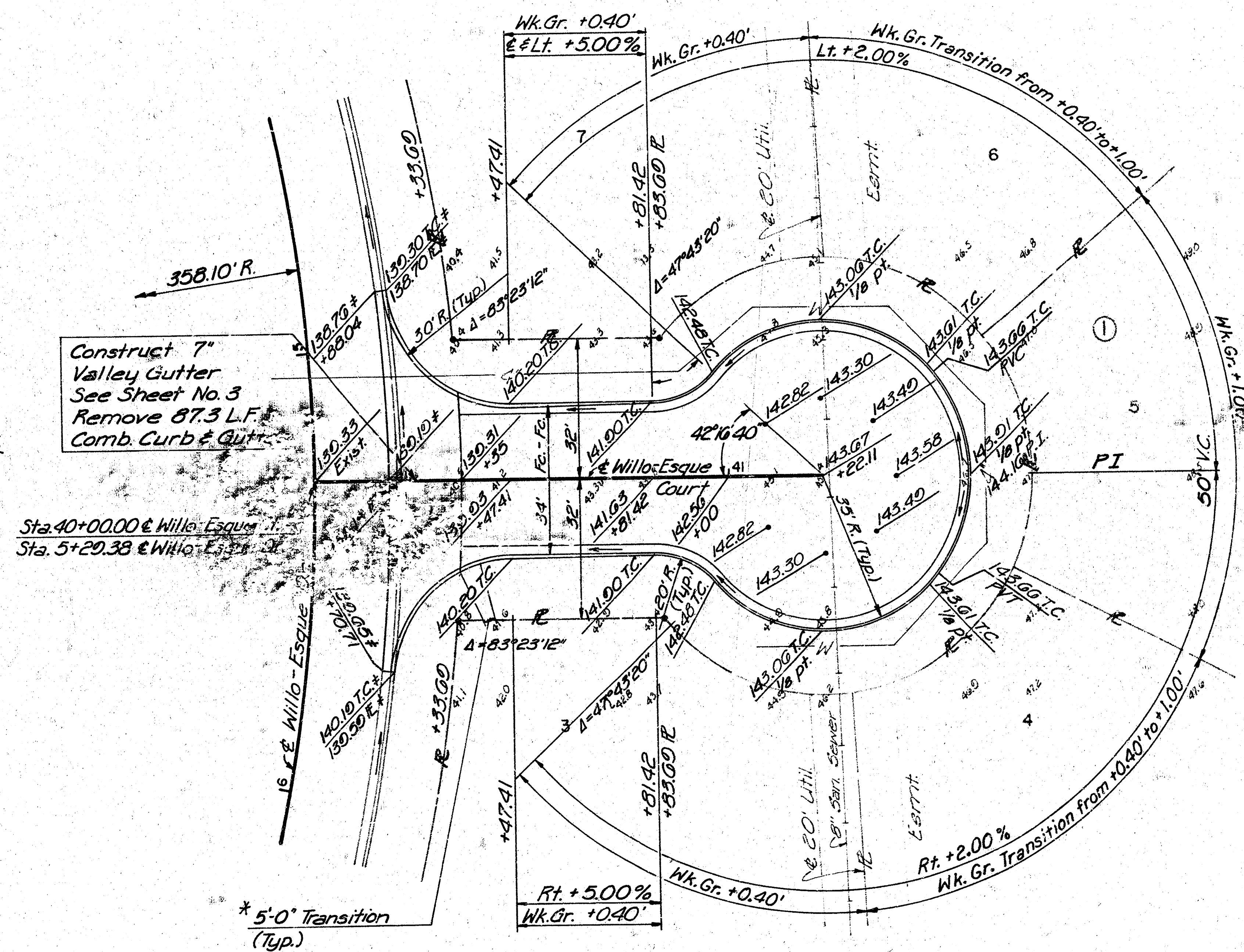
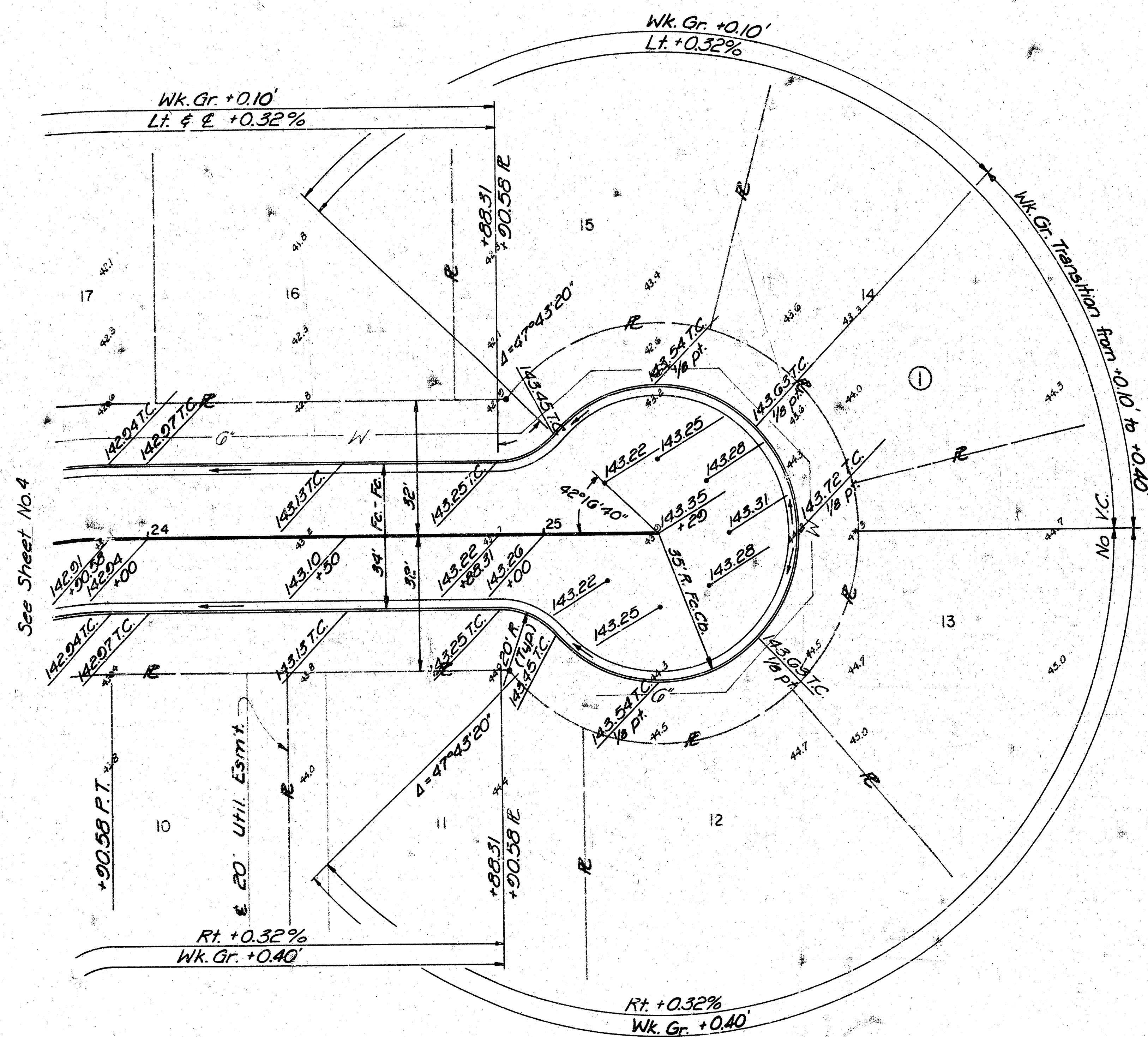
CURVE DATA BASED ON $\Delta/2 = 44^\circ 56' 45.5''$					
STATION	ARC LENGTH	CHORD LENGTH	DEFLECTION ANGLE	TOTAL DEFLECTION	
22+05.01			0° 00' 00"	0° 00' 00"	
+25	10.00'	24.19'	15.75'	4° 50' 30"	4° 50' 30"
+47.86	22.86'	27.65'		5° 32' 12"	
+50	25.00'		10.72'	6° 03' 18.5"	10° 53' 48.5"
+75		30.28'			16° 57' 07.0"
23+00					23° 00' 25.5"
+25	25.00'	30.28'	10.72'	6° 03' 18.5"	29° 03' 44.0"
+33.50	8.50'	10.30'		2° 03' 31"	
+50	25.00'		10.72'	6° 03' 18.5"	35° 07' 02.5"
+75	25.00'	30.28'	10.72'	6° 03' 18.5"	41° 10' 21.0"
23+00.58	15.58'	18.87'	12.20'	3° 46' 24.5"	44° 56' 45.5"

Curve Data
 $\Delta = 89^\circ 53' 31''$
 $D = 48^\circ 26' 27''$
 $R = 118.28'$
 $T = 118.06'$
 $L = 185.57'$
 $L_c = 167.18'$

* Match Existing.
 * Note: All Top of Curb (TC) Elevations shown are for Standard Curb & Gutter. Roll Type Curb & Gutter shall be constructed on Sheriac Circle & Sheriac Court beginning with a 5'-0" transition at the West side of the Valley Gutter at Sheriac Circle & Willo-Esque Drive.

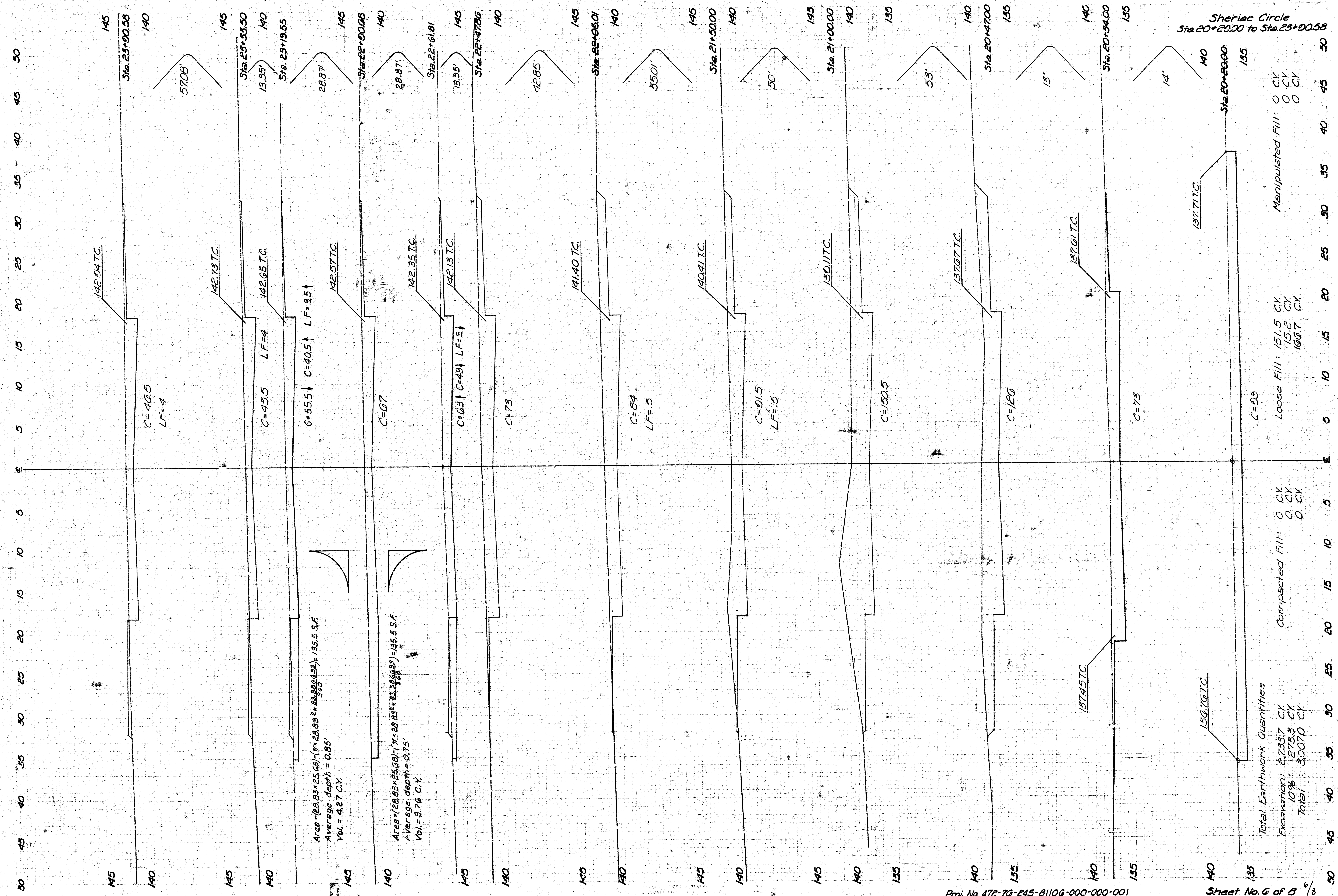


No.	Revision	By	Date
CITY OF WICHITA, KANSAS SHERIAC CIRCLE STA. 20+00.00 TO STA. 23+00.58 SHERIAC COURT STA. 60+00.00 TO STA. 60+53.44 PROJ. 472-76-245-81106-000-000-001 PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERING WICHITA, KANSAS Designed by BR Job No. 81180 Sht. 4/8 Drawn by GH Date July, 1981			



No.	Revision	By	Date
CITY OF WICHITA, KANSAS SHERIAC CIRCLE STA. 23190.58 TO STA. 25129.00 WILLO-ESQUE COURT STA. 40100.00 TO STA. 41122.11 PROJ. NO. 472-76-245-81106-000-000-001			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS			
Designed by <i>BR</i>	Job No. <i>51100</i>	Sht. <i>4</i> of <i>3</i>	
Drawn by <i>CH</i>	Date <i>July 1981</i>		

ORIGINAL
 SURVEY
 FIELD
 BOOK



Manipulated Fill: 0 C.Y.
 0 C.Y.
 0 C.Y.

Loose Fill: 151.5 C.Y.
 155.2 C.Y.
 166.7 C.Y.

Compacted Fill: 0 C.Y.
 0 C.Y.
 0 C.Y.

Total Earthwork Quantities
 Excavation: 2,733.7 C.Y.
 10%: 273.3 C.Y.
 Total: 3,007.0 C.Y.

DIVISION OF HIGHWAYS
 PROJECT NO. 472-70-245-91100-000-001
 SHEET NO. 7 OF 8

