

WILLO-ESQUE DRIVE N.L. Willo-Esque First Addn To N.L. Douglas Circle.

DOUGLAS CIRCLE E.L. Willo-Esque Drive To E.L. Willo-Esque 2nd Addn.

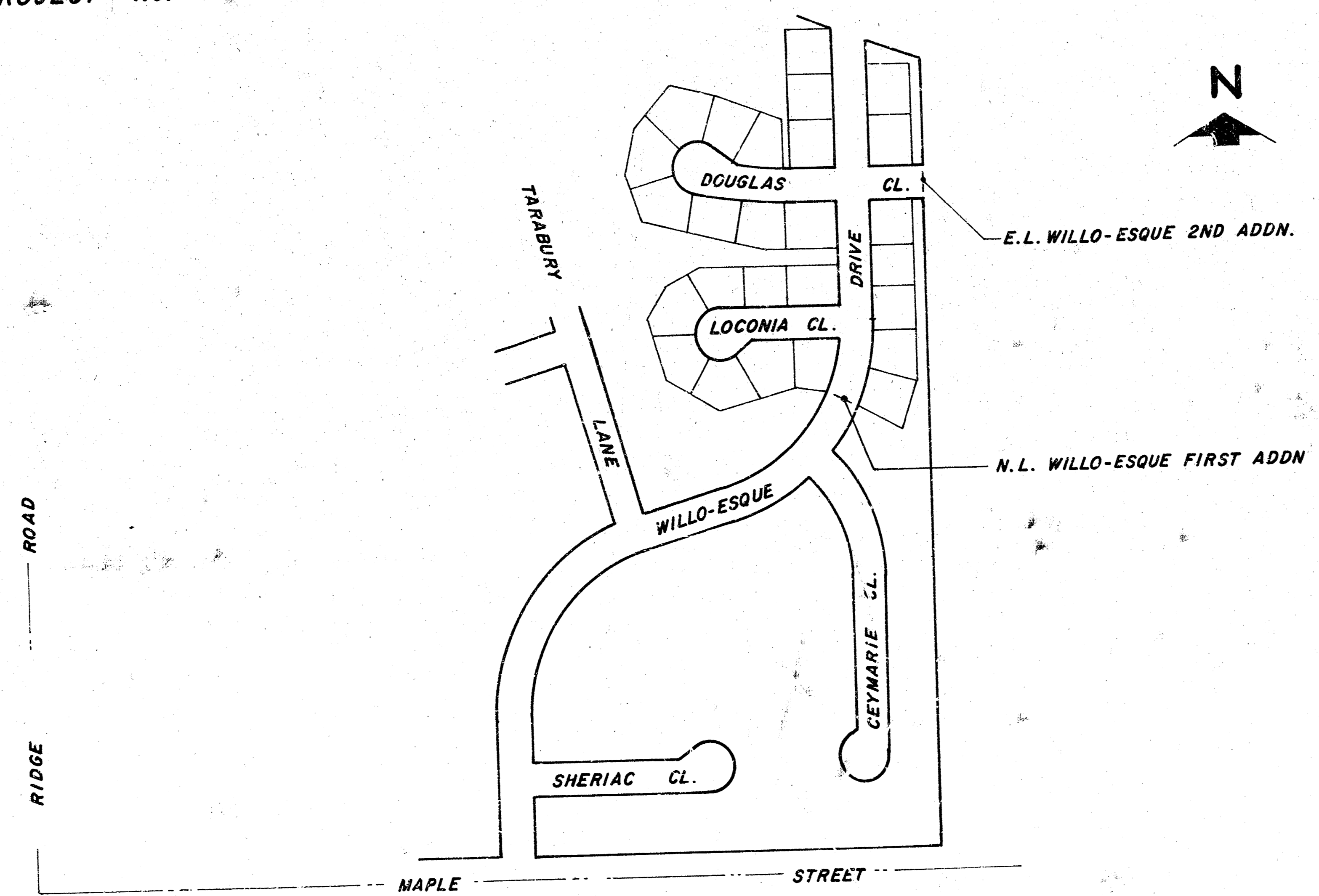
DOUGLAS CIRCLE W.L. Willo-Esque Drive To and including Cul-De-Sac.

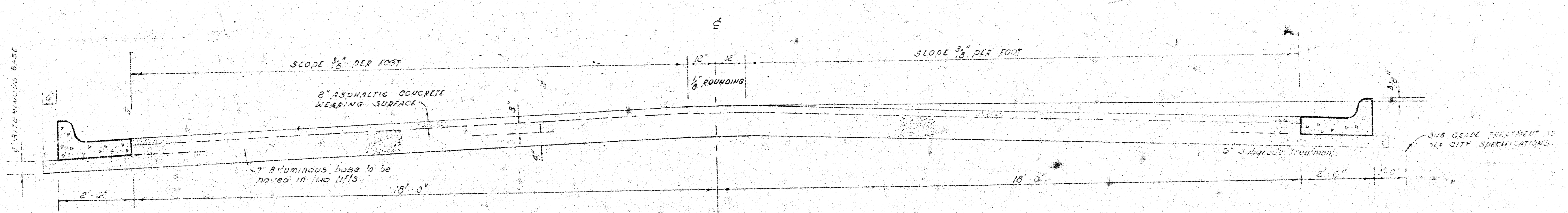
LOCONIA CIRCLE W.L. Willo-Esque Drive To and including Cui-De-Sac.

### CITY OF WICHITA, KANSAS

R.W. LINN CITY ENGINEER

PROJECT No. DAKC573028





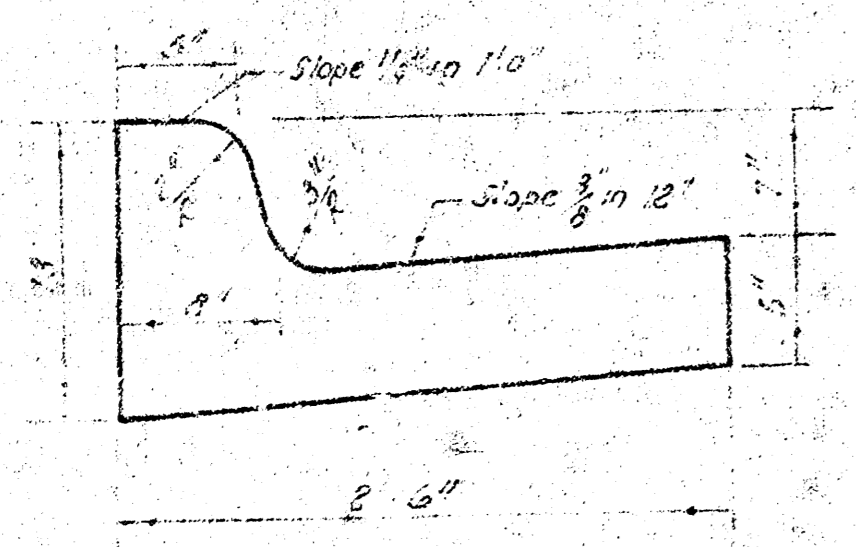
**TYPICAL SECTION**

**4' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE**

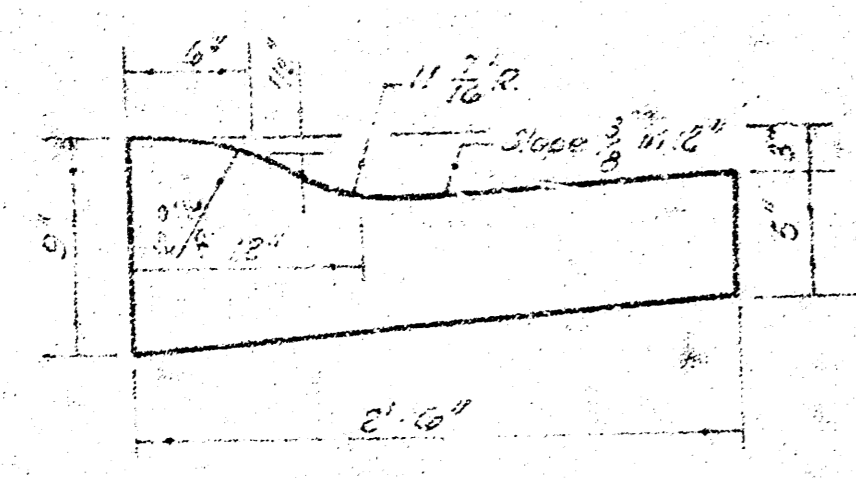
A TACK COAT OF EMULSIFIED ASPHALT (SS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQ YD BETWEEN LIFTS OF ASPHALTIC MATERIALS WHEN ORDERED BY THE ENGINEER. TACK COAT WILL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO PRICE BID FOR ASPHALTIC PAVEMENT. BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC ELECTRONIC CONTROLS FOR CROWN AND GRADE. CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF 1' 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 the curb and edge of a lift shall be paid as 30 yds 9" A.C. pavement. The bituminous base under the curb and gutter shall be paid as 30 yds 4" bituminous base.

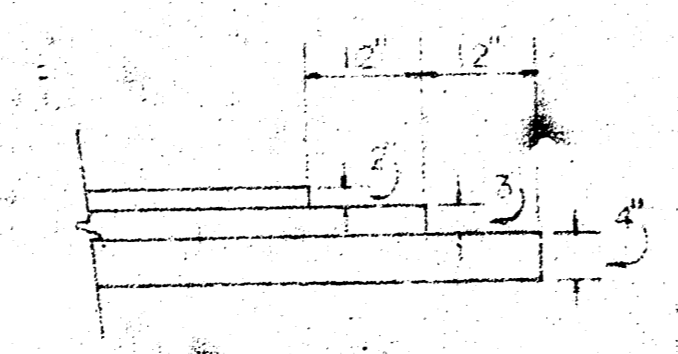
COMBINED CURB & GUTTER



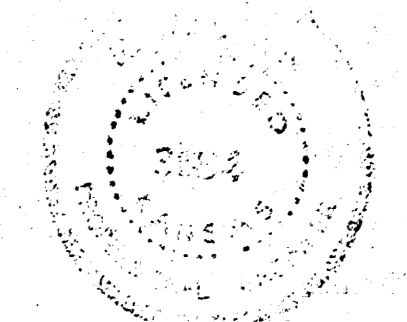
ROLL TYPE CURB & GUTTER



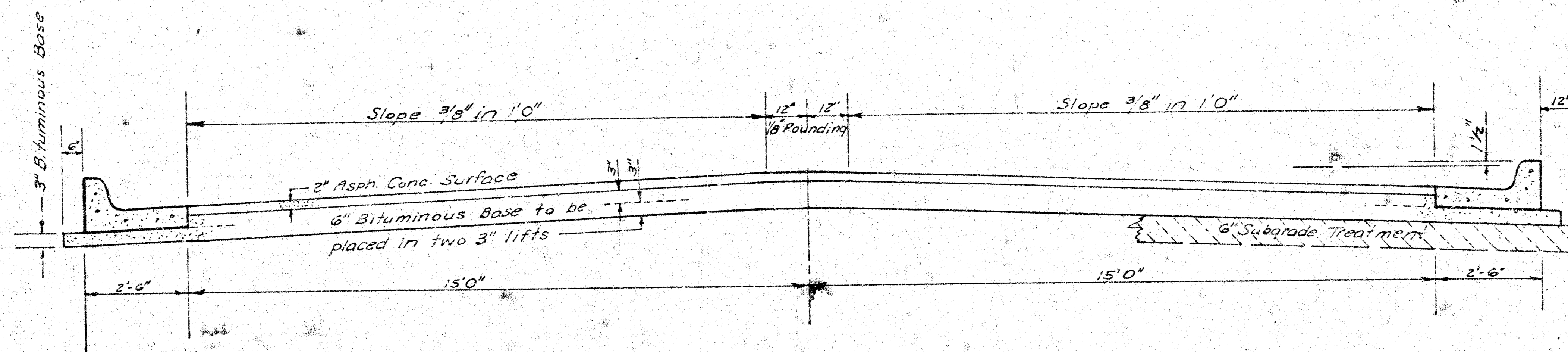
**DETAIL OF TRANSVERSE CONSTRUCTION JOINTS**



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.



CITY OF WICHITA, KANSAS  
 DEPARTMENT of PUBLIC WORKS - Engineering Division  
 R. W. LINN CITY ENGINEER  
 DATE May, 1976 Proj. No. 27

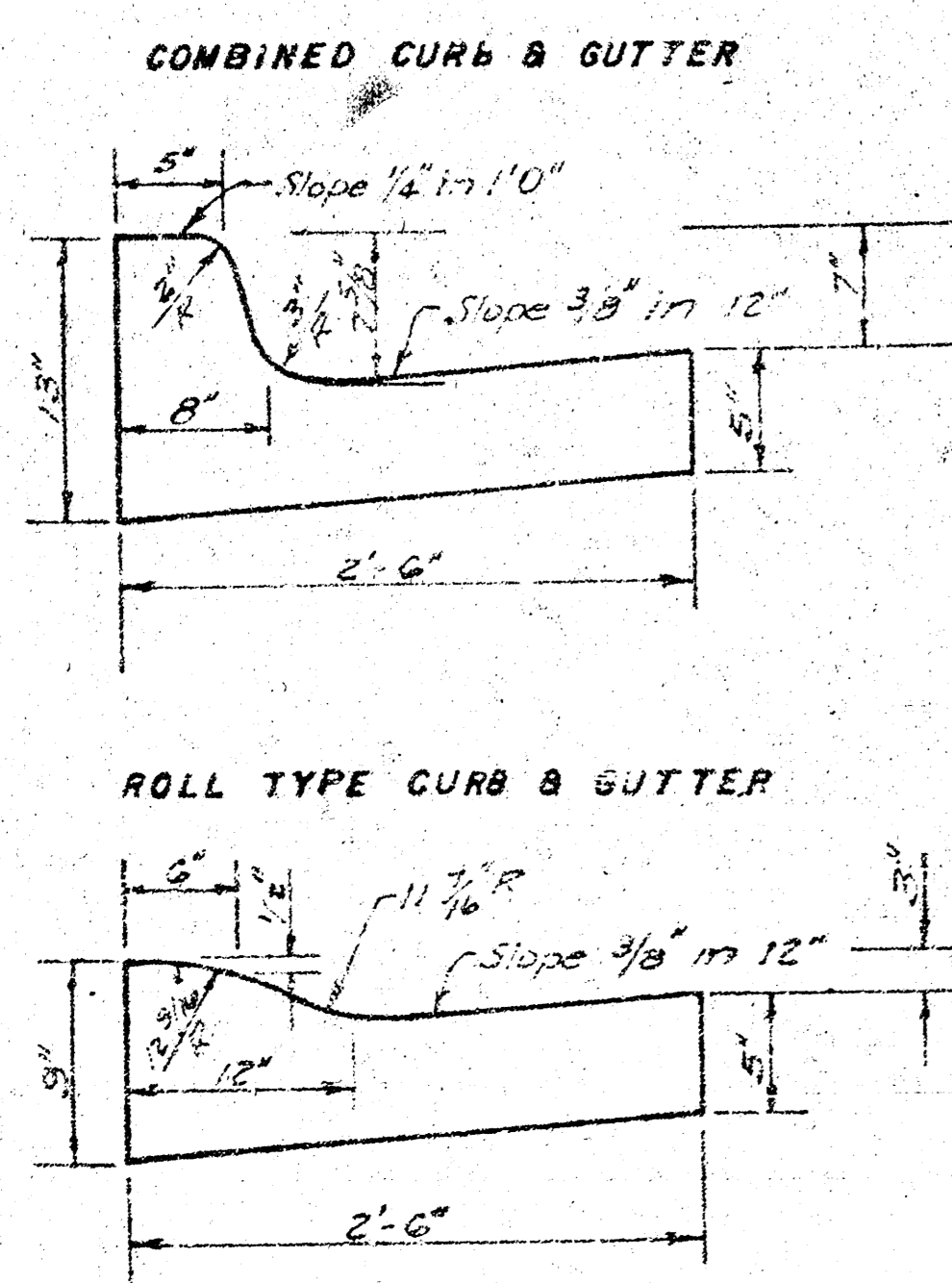


### TYPICAL SECTION

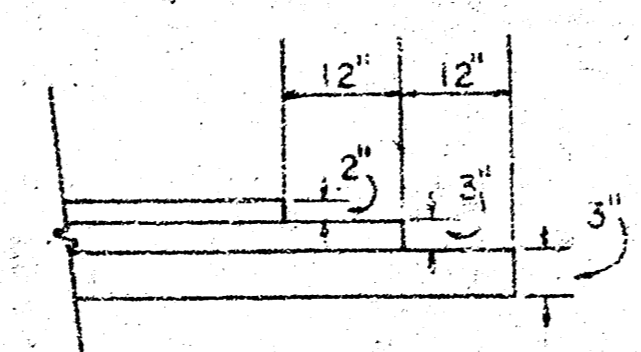
### 35' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

A TACK COAT OF EMULSIFIED ASPHALT (SS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE 0.05 GALLONS PER SQ YD 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 ELECTRONIC CONTROLS FOR CROWN AND GRADE. CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF 1' WITH JOINTS IN PRECEDING LIFTS AND PLACED SUCH THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE IN THE TOP LIFT.

*The A.C. Pavement between the comb. curb & gutter shall be paid as Sq.Yds. 8" A.C. Pavement (6" Bituminous Base).  
The Bituminous Base under the Comb. Curb & Gutter shall be paid as Sq.Yds. 3" Bituminous Base.*



### 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.

CITY OF WICHITA KANSAS

DEPARTMENT of PUBLIC WORKS - Engineering

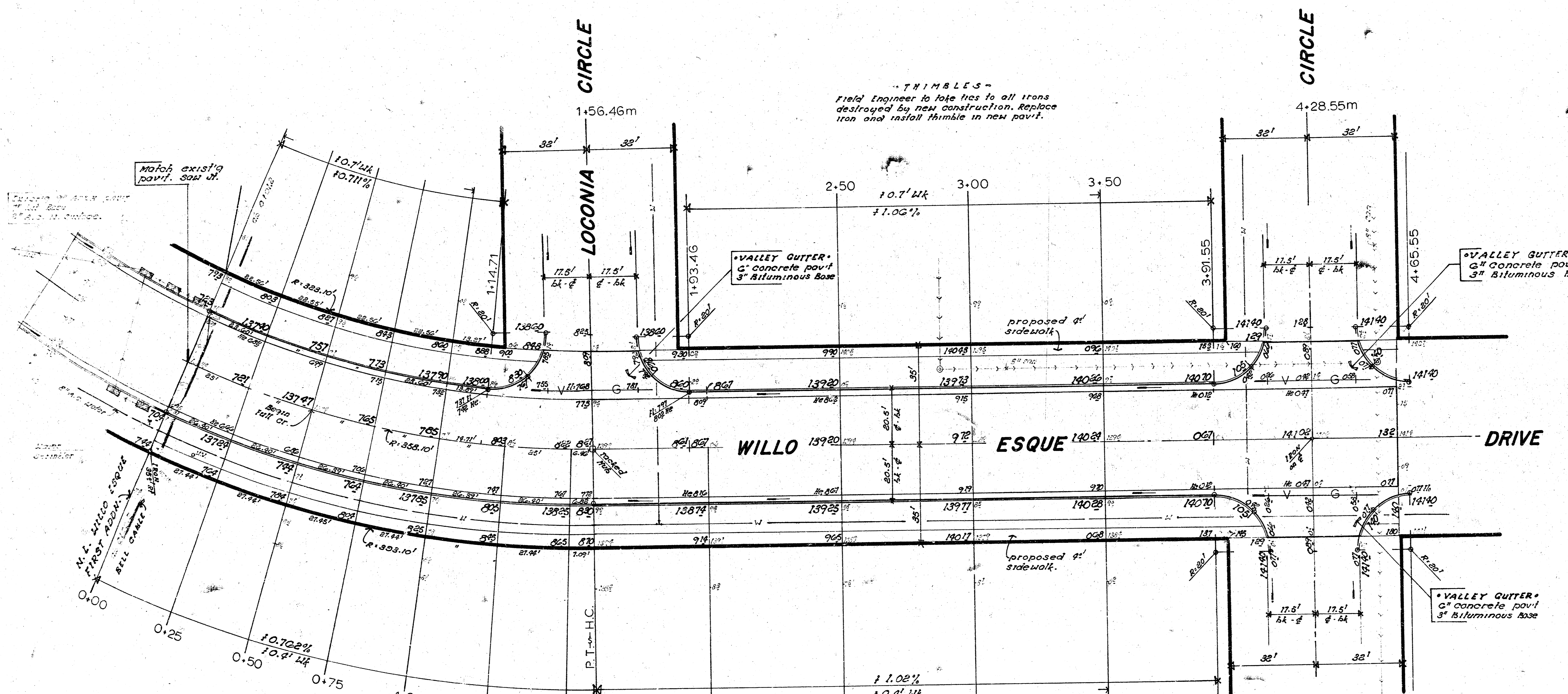
Division

R. W. LINN CITY ENGINEER

DATE May - 76 Proj. No.

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B.M. 13234 R.R. Spike N. to p. pole S. Side MAPLE 95' E.C.L. WILLO ESQUE DRIVE  
 B.M. 13195 "C" Top curb S. Return S.W. Cor WILLO ESQUE DR & GEYMARIE.



"TRIMBLES"  
 Field Engineer to take has to all irons destroyed by new construction. Replace iron and install thimble in new pav't.

"VALLEY GUTTER"  
 6" concrete pav't  
 3" Bituminous Base

"VALLEY GUTTER"  
 6" concrete pav't  
 3" Bituminous Base

"VALLEY GUTTER"  
 6" concrete pav't  
 3" Bituminous Base

**CAUTION**  
 UNDERGROUND  
 UTILITIES  
 Plans of this work are on file at the City Engineer's Office  
 Telephone C-3 142-1000

$\Delta = 25^\circ 02' 00''$   $04.79998$  min/H arc  
 CURVE DATA Based on  $\phi = 358.10'$   $TAN = 79.50'$

STATION	ARC	chord length	chord length	DEFLECTION	TOTAL DEFLECTION
		of 0.5 to 1.0' of arc	of 0.5 to 1.0' of arc		
0+00				0° 00' 00"	0° 00' 00"
0+25	23.00'	23.04'	22.95'	2° 00' 00"	2° 00' 00"
0+50					4° 00' 00"
0+75					6° 00' 00"
1+00	23.00'	23.04'	22.95'	2° 00' 00"	8° 00' 00"
1+25	14.71'	14.71'	13.82'	1° 10' 32"	9° 10' 32"
1+50	10.23'	9.93'	11.09'	0° 59' 28"	10° 00' 00"
1+75	25.00'	23.04'	22.95'	2° 00' 00"	12° 00' 00"
P.T. 1+92.42	6.92'	5.95'	6.96'	0° 31' 00"	12° 31' 00"

NOTE TO FIELD ENGINEER & CONTRACTOR  
 TYPE OF SUBGRADE TREATMENT SHALL BE DETERMINED BY THE FIELD ENGINEER. SUBGRADE TREATMENT MAY CONSIST OF LIQUE TREATMENT, CEMENT TREATMENT, SUBGRADE MODIFICATION, OR ANY COMBINATION OF THESE.

"PROPERTY" "CITY"

EXCAVATION	COMP. FILL	EXCAVATION	COMP. FILL
560.3 cu yds	86.4 cu yds	450.0 cu yds	4.1 cu yds
110% 66.0	110% 9.5	110% 49.0	10% .4
762.3 cu yds	95.9 cu yds	499.0 cu yds	4.5 cu yds

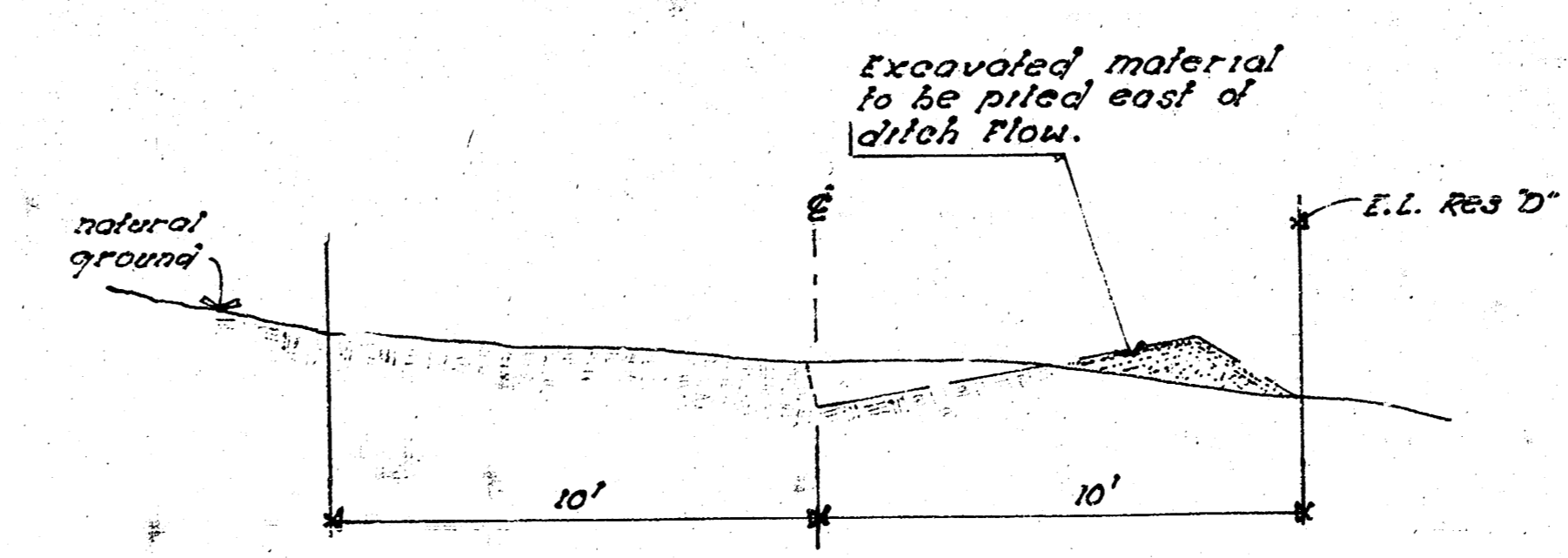
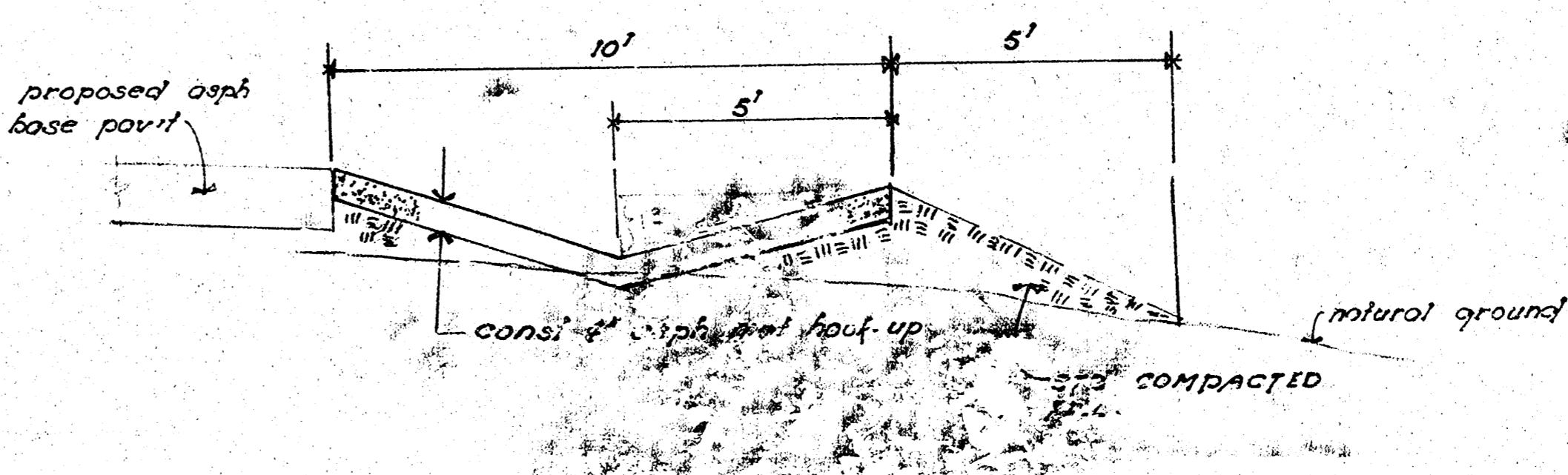
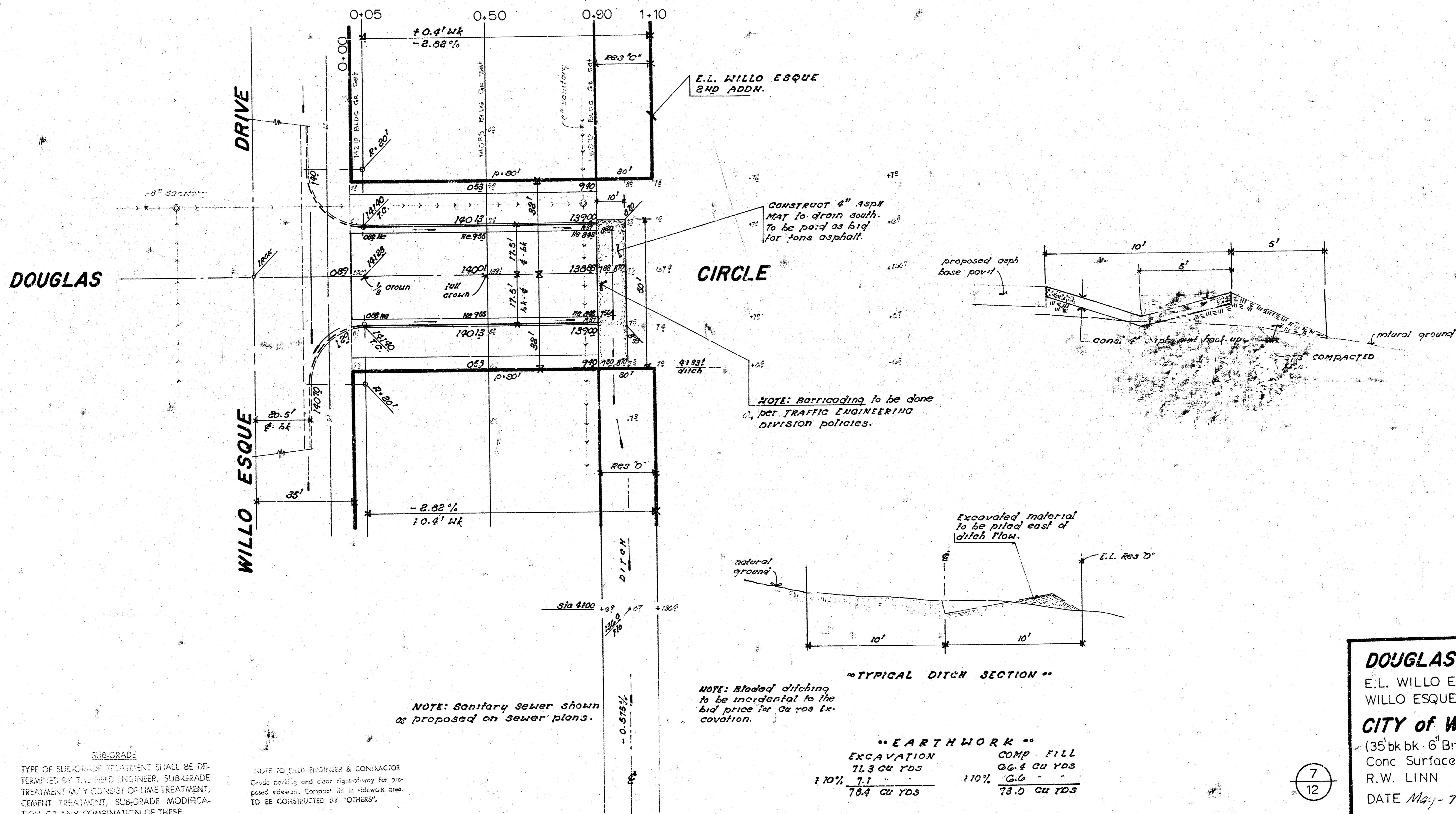
**WILLO-ESQUE DRIVE**  
 N.L. WILLO-ESQUE FIRST ADDN  
 TO N.L. DOUGLAS CIRCLE.  
**CITY OF WICHITA, KANSAS**  
 (41' B-B) 2" Asp Conc wearing surface  
 7" Bituminous Base w/ Comb Cb & Gt  
 R.W. LINN CITY ENGINEER  
 DATE: May 76. Proj No. DAKC 573028

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Survey 4410  
 Plan 4111  
 Exc  
 Checked

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B.M. = 137.95 "Top curb S. Ref. S.W. Cor WILLO-ESQUE DRIVE and GELMARIE.



"TYPICAL DITCH SECTION"

**"EARTHWORK"**

EXCAVATION	71.3 CU YDS	110%	78.4 CU YDS
COMP. FILL	66.4 CU YDS	110%	73.0 CU YDS

**SUBGRADE**  
TYPE OF SUBGRADE TREATMENT SHALL BE DETERMINED BY THE FIELD ENGINEER. SUBGRADE TREATMENT MAY CONSIST OF LIME TREATMENT, CEMENT TREATMENT, SUBGRADE MODIFICATION, OR ANY COMBINATION OF THESE.

**NOTE TO FIELD ENGINEER & CONTRACTOR**  
Curb and gutter and clear signalway for proposed sidewalk. Contract for sidewalk area to be constructed by "OTHERS".

**NOTE:** Sanitary sewer shown as proposed on sewer plans.

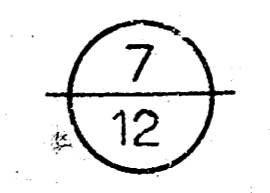
**NOTE:** Staked ditching to be incidental to the bid price for cu yds excavation.

**NOTE:** Barricading to be done per TRAFFIC ENGINEERING DIVISION policies.

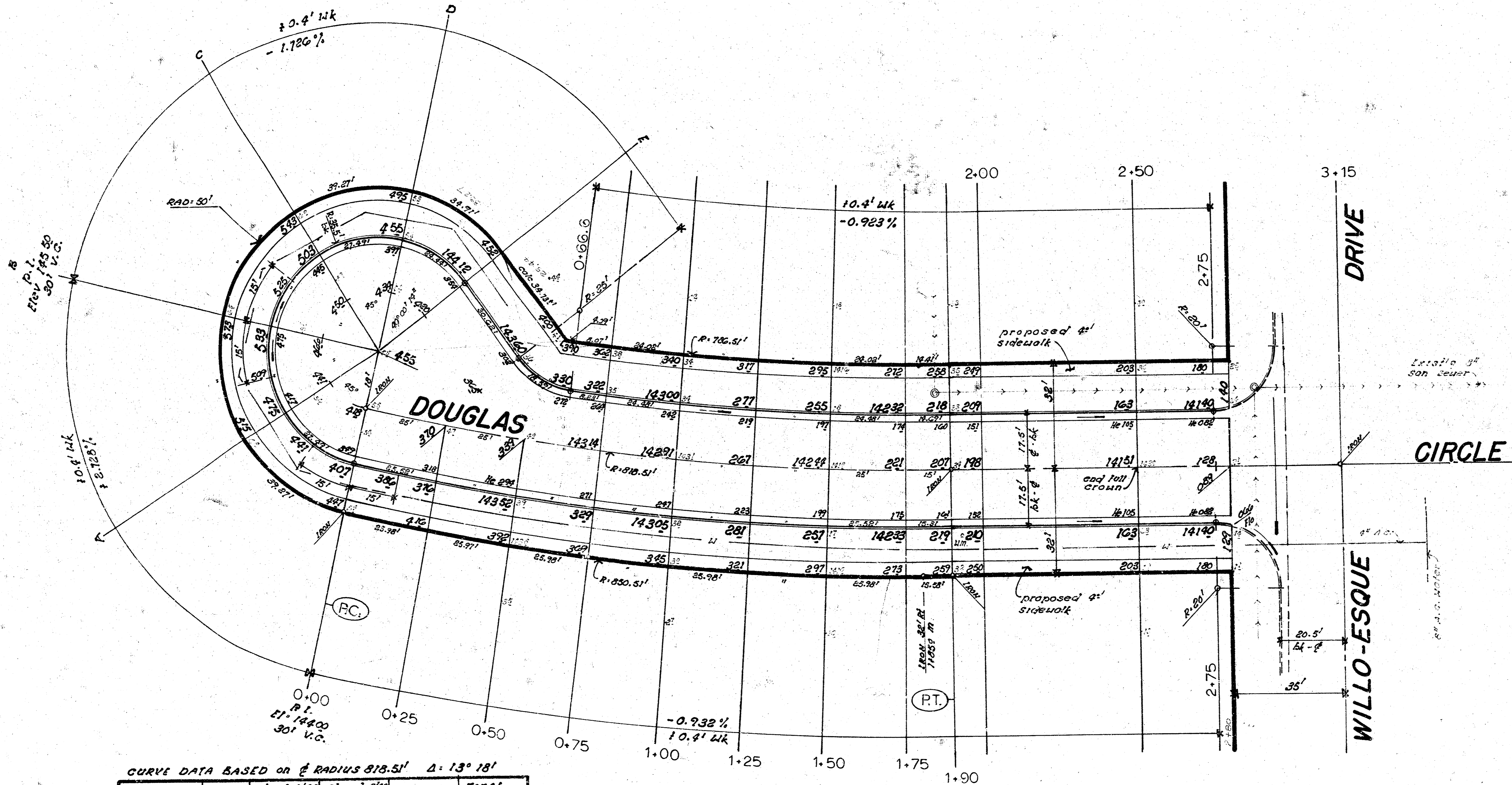
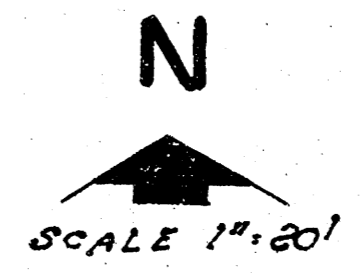
**CONSTRUCT 4" ASPH MAT** to drain south. To be paid as bid for tons asphalt.

**E.L. WILLO ESQUE 2ND ADDN.**

**DOUGLAS CIRCLE**  
E.L. WILLO ESQUE DRIVE To E.L. WILLO ESQUE 2ND ADDITION.  
**CITY OF WICHITA, KANSAS**  
(35' bk bk - 6" Bituminous Base - 2" Asph Conc Surface w/ Comb Curb & Gtr.  
R.W. LINN CITY ENGINEER  
DATE May-76 Proj No DAKC573028



B.M. 13795 "D" Top Curb S. Ref. S.W. Cor WILLO-ESQUE DRIVE and CECYMARIE.



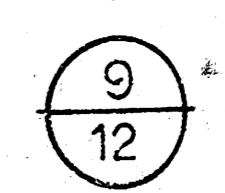
CURVE DATA BASED ON  $\phi$  RADIUS 818.51'  $\Delta = 13^\circ 18'$

STATION	ARC	chord $d^{100}$ to N. curb	chord $d^{100}$ to S. curb	DEFL	TOTAL DEFL
0+00	—	—	—	—	0° 00' 00"
0+25	25.00'	24.24'	25.76'	0° 52' 30"	0° 52' 30"
0+50	25.00'	24.23'	25.76'	0° 52' 30"	1° 45' 00"
0+75	16.67'	16.09'	17.11'	0° 34' 52"	2° 19' 52"
0+175	8.4'	8.14'	8.65'	0° 17' 35"	2° 37' 30"
1+00	25.00'	24.24'	25.76'	0° 52' 30"	3° 30' 00"
1+25	—	24.24'	—	—	4° 02' 30"
1+50	—	24.24'	—	—	5° 15' 00"
1+75	25.00'	24.24'	25.76'	0° 52' 30"	6° 07' 30"
1+90 P.T.	15.00'	14.54'	15.45'	0° 31' 30"	6° 39' 00"

SUB-GRADE  
TYPE OF SUB-GRADE TREATMENT SHALL BE DETERMINED BY THE ENGINEER. SUB-GRADE TREATMENT MAY BE CEMENT TREATMENT, CEMENT TREATMENT, SAND/SILT, MODIFICATION, OR ANY COMBINATION OF THESE.

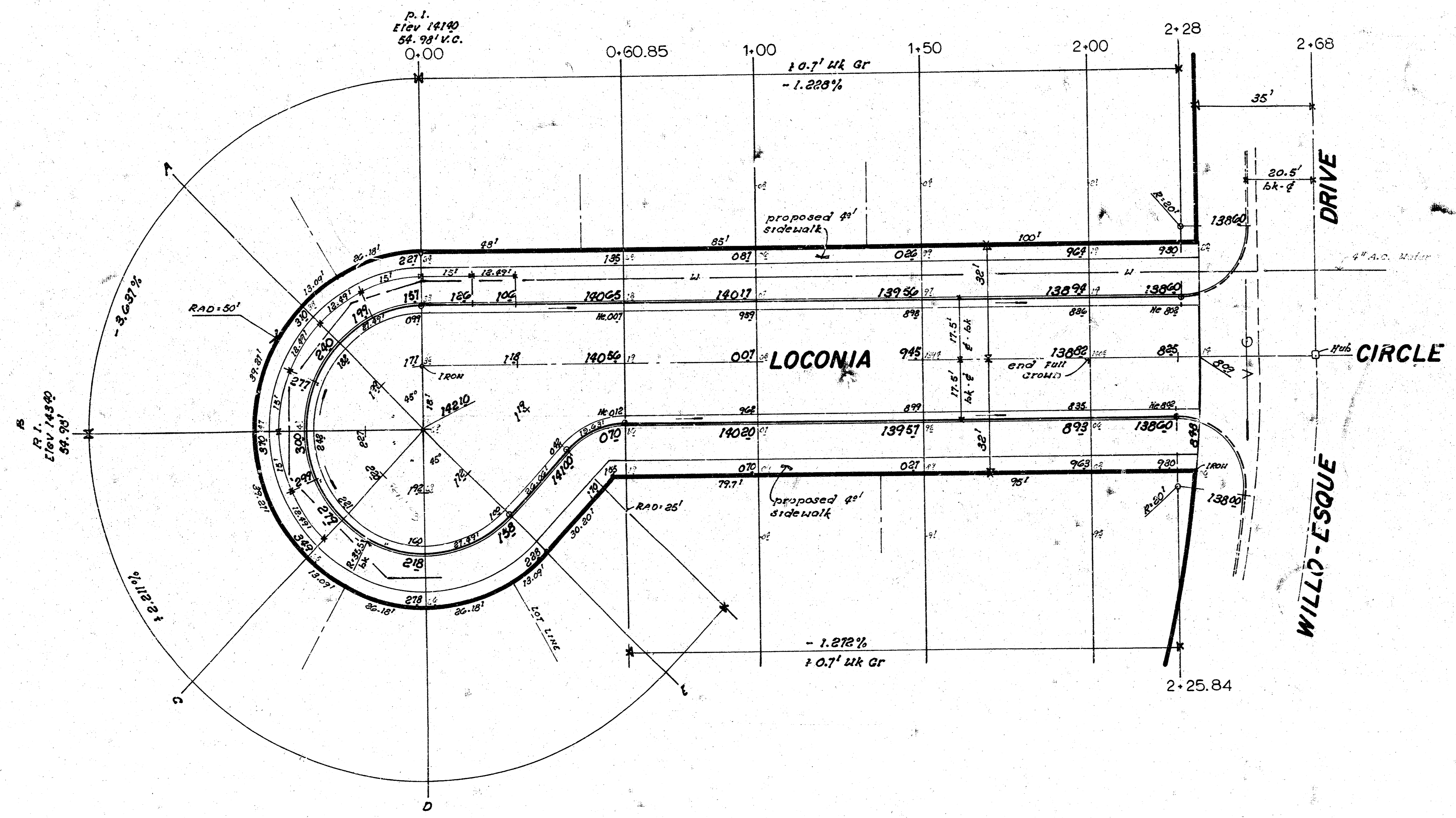
NOTE TO THE ENGINEER & CONTRACTOR  
Check existing and proposed grades for all points shown. Contact the engineer if any discrepancies are to be corrected by the contractor.

“ EARTH WORK ”  
EXCAVATION 981.1 cu yds  
+ 10% 98.1 “ ”  
1079.1 cu yds  
COMP FILL 32.0 cu yds  
+ 10% 3.2 “ ”  
35.2 cu yds



**DOUGLAS CIRCLE**  
W.L. WILLO-ESQUE DRIVE TO & INCLUDING CUL-DE-SAC.  
**CITY OF WICHITA, KANSAS**  
(35bk-bk 6" Bituminous Base - 2" Asph. Conc Surface w/ Comb Curb & Gtr.)  
R.W. LINN CITY ENGINEER  
DATE MAY 74 Proj No. DAKC573028

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**SUBGRADE**  
 TYPE OF SUBGRADE TREATMENT SHALL BE DETERMINED BY THE FIELD ENGINEER. SUBGRADE TREATMENT MAY CONSIST OF LIME TREATMENT, CEMENT TREATMENT, SUBGRADE MODIFICATION, OR ANY COMBINATION OF THESE.

NOTE TO FIELD ENGINEER & CONTRACTOR  
 Provide parking and clear right-of-way for proposed sidewalk. Support high sidewalk area to be constructed by OTHERS.

\*\* EARTHWORK \*\*

EXCAVATION		COMP FILL	
110%	104.96 CU YDS	110%	15.8 CU YDS
	105.0		1.6
	1154.0 CU YDS		17.4 CU YDS

**LOCONIA CIRCLE**  
 W.L. WILLO-ESQUE DRIVE TO &  
 INCLUDING CUL-DE-SAC.  
**CITY of WICHITA, KANSAS**  
 (3.5" bk-bk Bituminous Base - 2" Asph  
 Conc Surface w/ Comb Curb & Gtr.)  
 R.W. LINN CITY ENGINEER  
 DATE MAY-76 Proj No. DAK573028

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