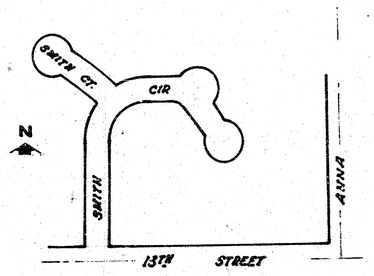
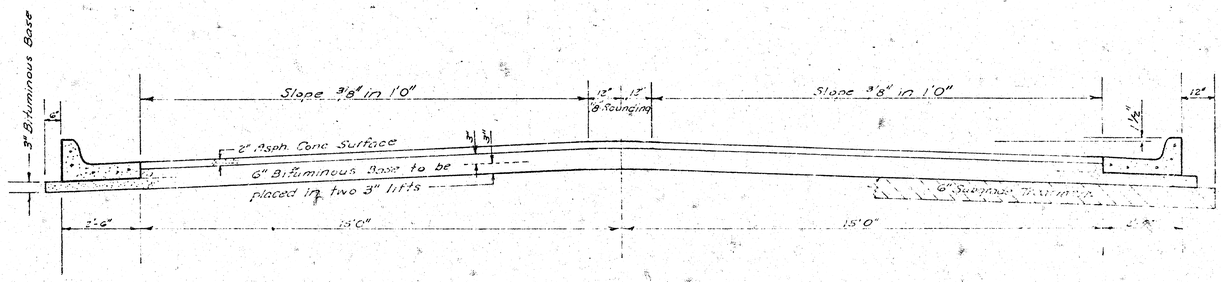
SMITH CIRCLE N.L. 13TH STREET TO & INCL CUL-DE-SAC
SMITH COURT W.L. SMITH CIRCLE TO & INCL CUL-DE-SAC
PROJECT No. 472-76-245-80892000-000-001





TYPICAL SECTION

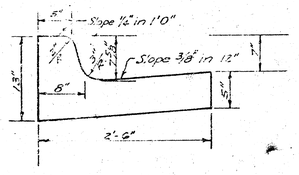
35' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

The P.C. Pavement between the curb and gutter shall be paid as 9 Sq.Yds. 6" Bituminous Base). The Bituminous Base under the curb and gutter shall be paid as Sq.Yds. 3" Bituminous Base.

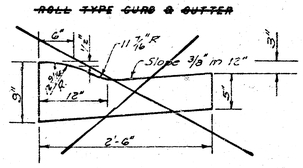
A TACK COAT OF EMULSIFIED ASPHALT (SS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE 0.05 GALLONS PER SQ YD BETWEEN LIFTS OF ASPHALTIC MATERIALS WHEN ORDERED BY THE ENGINEER. TACK COAT WILL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO PRICE BID FOR ASPHALTIC PAVEMENT.

BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC 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.

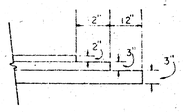
COMBINED CURB & GUTTER



~~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.

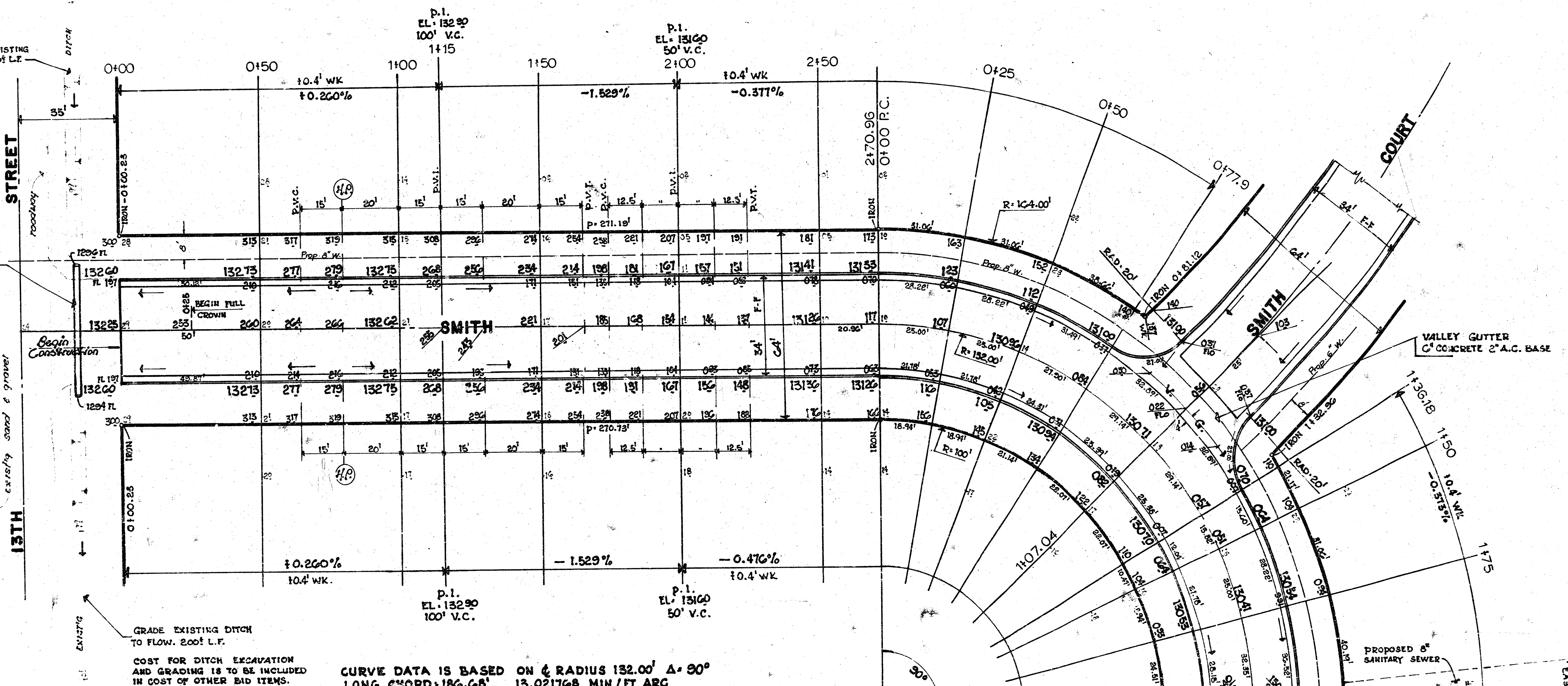
R. BRENT WOOTEN LICENSED 8470 KANSAS PROFESSIONAL ENGINEER

CITY OF WICHITA KANSAS
DEPARTMENT of PUBLIC WORKS - Engineering Division.
D.S. SELLERS Acting City Engineer
DATE Jul 80

1/7

B.M. = 126.93 BAKER AND 13TH CITY STD 26' E. & 32' S. CTR LINE BOTH.
B.M. = 134.98 BRIDGE SPIKE N. FACE P.P. 8' N. & 85' E. S.E. COR 13TH AND SMITH CIRCLE

N
SCALE 1" = 20'



GRADE EXISTING DITCH TO FLOW. 200± L.F.

COST FOR DITCH EXCAVATION AND GRADING IS TO BE INCLUDED IN COST OF OTHER BID ITEMS.

SURVEY: RAHBAR BOOK # 82 46
PLAN: W.E.E.
E.V.C.
CHECKED:

Note.

No more than 19 - 20' Dr's. or equivalent to be constructed on this project. Ties to be taken, & any 'Irons' moved or destroyed due to construction shall be replaced.

•• EARTHWORK ••

PROPERTY EXCAVATION		CITY EXCAVATION	
	2382.9 CU YDS		145.7 CU YDS
±10%	238.3 " "	±10%	14.6 " "
	2621.2 CU YDS		160.3 CU YDS

MANIPULATION = 4750 SY.

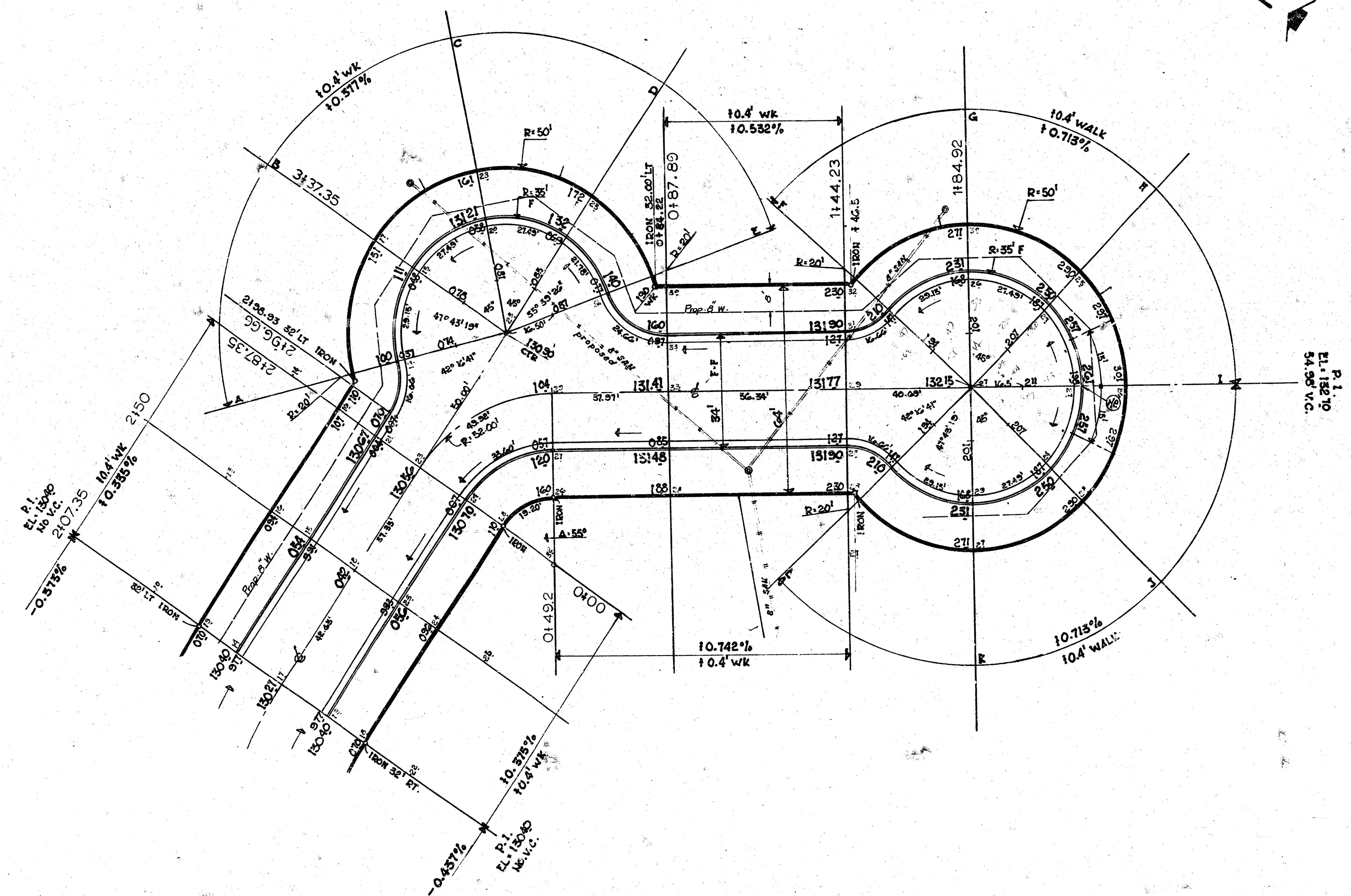
CURVE DATA IS BASED ON ℄ RADIUS 132.00' Δ = 90°
LONG CHORD = 186.68' 13.021768 MIN / FT ARC

STATION	ARC	CHORD LENGTH 8' O.S. FACE W & N CURB	CHORD LENGTH 8' O.S. FACE E & S. CURB	DEFLECTION	TOTAL DEFLECTION
P.C. 0+00			—	—	0° 00' 00"
0+25	25.00'	29.69'	20.23'	5° 25' 32"	5° 25' 32"
0+50	25.00'	29.69'	20.23'	5° 25' 32"	10° 51' 04"
0+77.9	27.90'	33.12	22.57'	6° 03' 18"	16° 54' 22"
1+07.04	29.14'	34.59'	23.57'	6° 19' 27"	23° 13' 49"
1+36.18	29.14'	34.59'	23.57'	6° 19' 27"	29° 33' 16"
1+50	13.82'	16.43'	11.20'	2° 59' 57"	32° 33' 13"
1+75	25.00'	29.69'	20.23'	5° 25' 32"	37° 58' 45"
P.T. 2+07.35	32.35'	38.38'	26.16'	7° 01' 15"	45° 00' 00"

SUB-GRADE

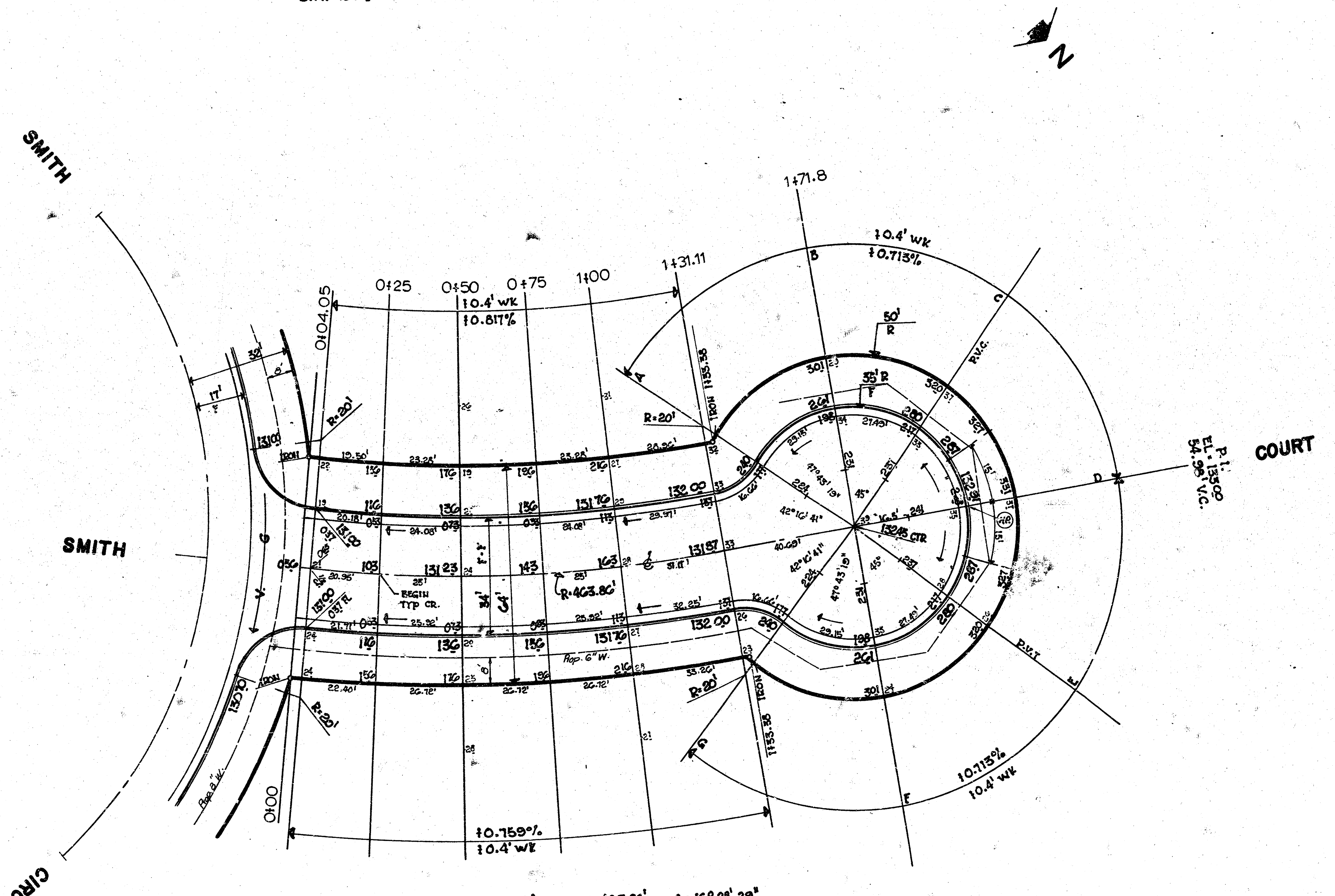
TYPE OF SUB-GRADE TREATMENT SHALL BE DETERMINED BY THE FIELD ENGINEER. SUB-GRADE TREATMENT MAY CONSIST OF LIME TREATMENT, CEMENT TREATMENT, SUB-GRADE MODIFICATION, OR ANY COMBINATION OF THESE.

Proj No. 472-76-245-80892-000-001



Proj No. 472-7G-245-80892-000-000-001

B.M.= 134.98 BRIDGE SPIKE N.FACE POWER POLE 8' N. & 85' E. S.E. COR. 13TH & SMITH CIRCLE



CURVE DATA IS BASED ON ℄ RADIUS 463.86' Δ = 16° 28' 29"
MIN / FT ARC = 03.70558

STATION	ARC	CHORD 8' O.S. P.C. S.W. CURB	CHORD 8' O.S. P.C. N.E. CURB	DEFLECTION	TOTAL DEFL.
					0° 00' 00"
P.C. 0+00					
RAD 0+04.05	4.05'	3.83'	4.27'	0° 15' 00"	0° 15' 00"
0+25	20.95'	19.82'	22.01'	1° 17' 38"	1° 32' 38"
0+50	25.00'	23.65'	26.34'	1° 32' 38"	3° 05' 16"
0+75	"	"	"	"	4° 37' 54"
1+00	25.00'	23.65'	26.34'	1° 32' 38"	6° 10' 32"
RAD 1+31.11	31.11'	29.43'	32.78'	1° 35' 17"	8° 05' 49"
P.T. 1+33.38	2.27'	2.15'	2.39'	0° 08' 25"	8° 14' 14"

PROP EXCAVATION
809.0 CU YS
+10% 80.9 " "
889.9 CU YDS

Proj No. 472-76-245-80892-000-000-001

DRAINAGE IN CONNECTION WITH PAVING SMITH CIRCLE

GENERAL NOTES

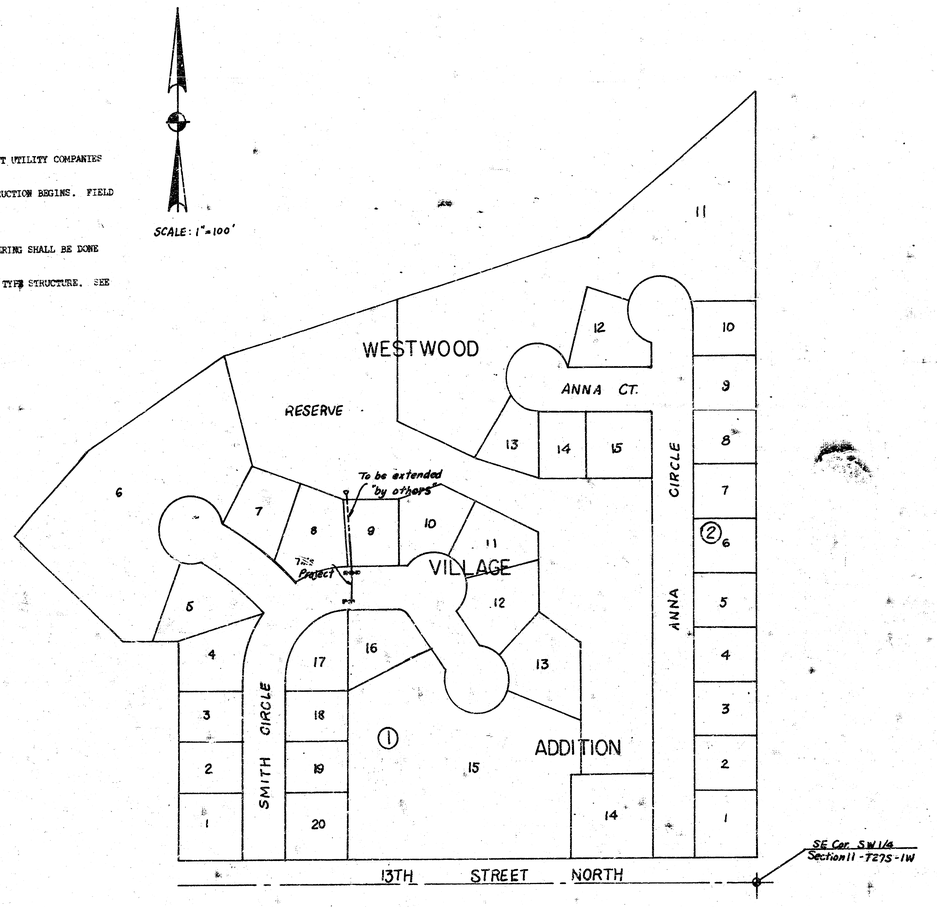
1.) CONTRACTOR SHALL COORDINATE WORK WITH PAVING AND SANITARY CONTRACTORS, AND CONTACT RELEVANT UTILITY COMPANIES AND OTHER AGENCIES INVOLVED WITH THIS PROJECT.

2.) FIELD ENGINEER SHALL TAKE TIES TO ALL IRONS AND THIMBLES IN THE PROJECT AREA BEFORE CONSTRUCTION BEGINS. FIELD ENGINEER SHALL REPLACE ALL SUCH IRONS AND THIMBLES DISTURBED DURING CONSTRUCTION.

3.) ALL CONCRETE SHALL BE "6-SACK CONCRETE" UNLESS OTHERWISE NOTED.

4.) CONTRACTOR SHALL AVOID UNCOVERING EXISTING WATERLINES UNLESS ABSOLUTELY NECESSARY. UNCOVERING SHALL BE DONE ONLY IN THE PRESENCE OF A WATER DEPARTMENT ENGINEER.

5.) CONTRACTOR SHALL HAVE THE OPTION OF INSTALLING PRE-CAST TYPE 1A CURB IN LIEU OF THE BRICK TYPE STRUCTURE. SEE STANDARD DETAIL PRE-CAST TYPE 1A CURB INLET DATED AUGUST, 1979.



Index

Sheet 1 Cover Sheet
Sheet 2 Plan & Profile
Sheet 3 Type 1A Inlet

DEAN SELLERS, ACTING CITY ENGINEER
CITY OF WICHITA, KANSAS

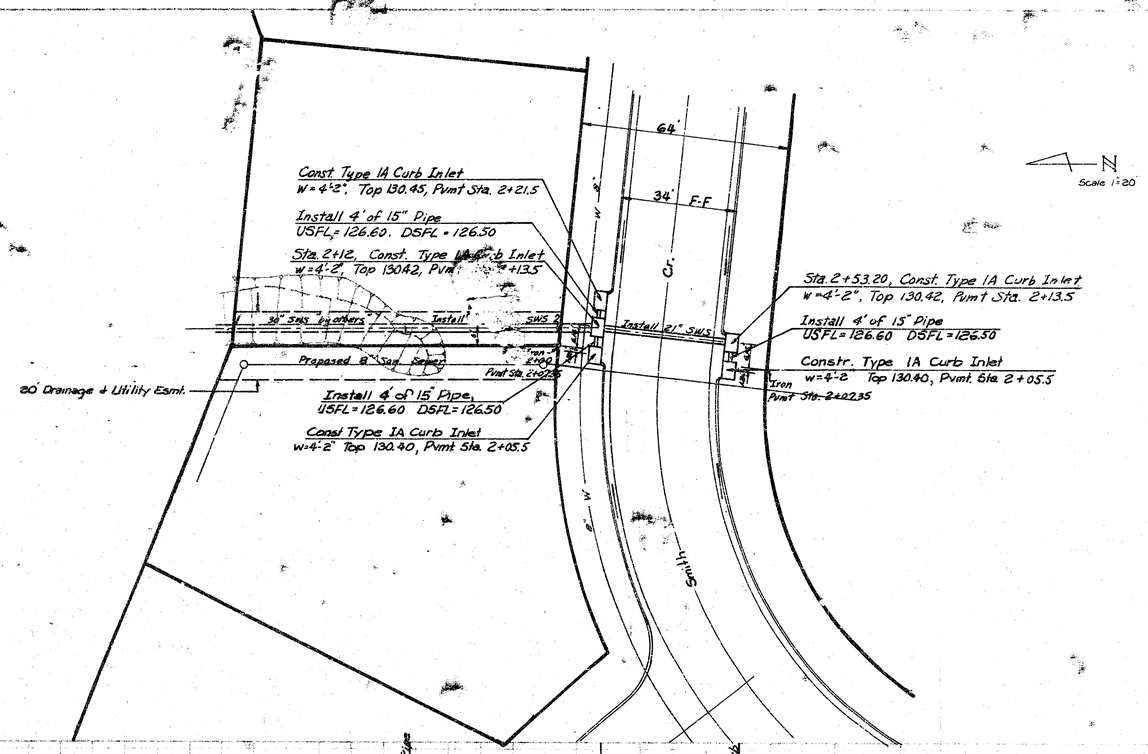
PROJECT NO. 472 76 245 80892 000 000 001

DATE : _____

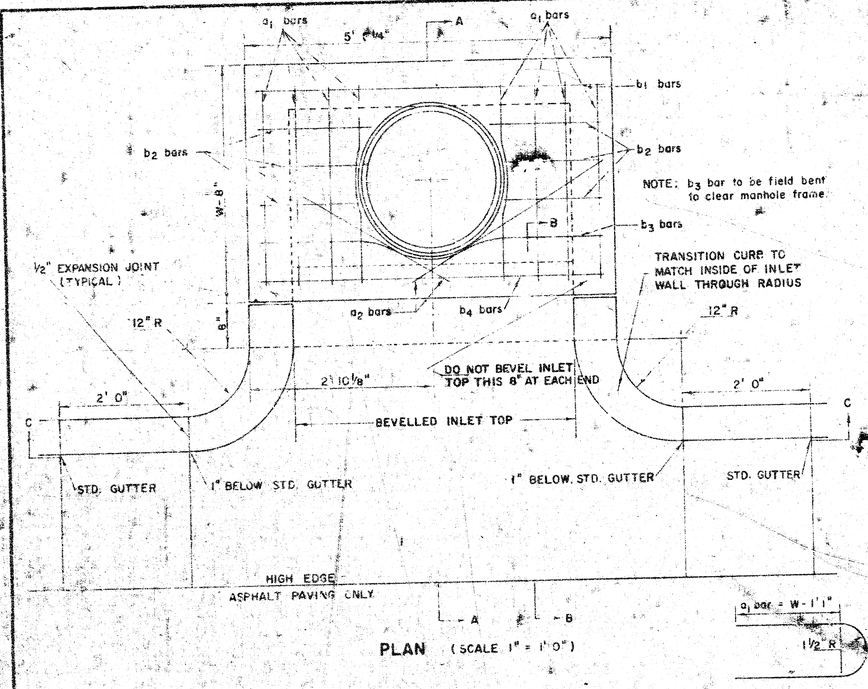
STEPHEN R. LACKEY LICENSED 7714 PROFESSIONAL ENGINEER KANSAS

5/7

B.M. 130.48 R.R. Spk. N.E Face of P.P. 3'N & 43' W
S.W. Corn. of Anna & 13th St. No.
B.M. 134.98 Bridge Spk. N. Face P.P. 8'N & 85'E
S.E Corn. of 13th & Smith Circle



Drainage in Connection w/ Paving Smith Circle
Project No. 472-76-245-80892-000-000-001



PLAN (SCALE 1" = 1'0")

BENDING DIAGRAM

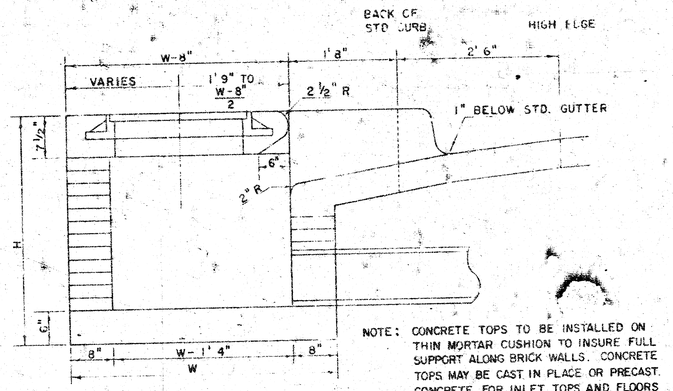
STEEL SCHEDULE

BAR	a_1	a_2	b_1 W=4'2"	b_1 W=5'0"	b_1 W=6'0"	b_1 W=7'0"	b_1 W=8'0"	b_2	b_3	b_4	WT. LBS.
NUMBER	8	2	1	3	5	7	9	6	1	1	
SIZE	#4	#4	#4	#4	#4	#4	#4	#4	#6		
LENGTH W=4'2"	6'5"	3'4"	5'5"	–	–	–	–	1'5"	5'6"	5'5"	60#
LENGTH W=5'0"	8'1"	4'4"	–	5'5"	–	–	–	1'5"	5'6"	5'5"	77#
LENGTH W=6'0"	10'1"	5'4"	–	–	5'5"	–	–	1'5"	5'6"	5'5"	97#
LENGTH W=7'0"	11'1"	6'4"	–	–	–	5'5"	–	1'5"	5'6"	5'5"	111#
LENGTH W=8'0"	12'1"	7'4"	–	–	–	–	5'5"	1'5"	5'6"	5'5"	124#

* NOTE: a_2 BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

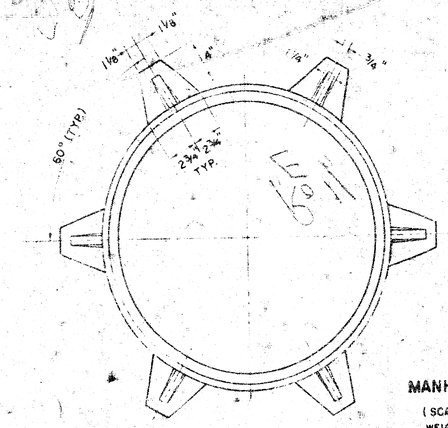
STANDARD CURB INLET PRECAST TOPS			
W	PRECAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 2"	36"x5'8¼"x7½"	21" & SMALLER	0.46 *
5' 0"	44"x5'8¼"x7½"	24" & 30"	0.57 *
6' 0"	54"x5'8¼"x7½"	36" & 42"	0.71 *
7' 0"	64"x5'8¼"x7½"	48" & 54"	0.84 *
8' 0"	74"x5'8¼"x7½"	60" & 66"	0.97 *

* GROSS VOLUME

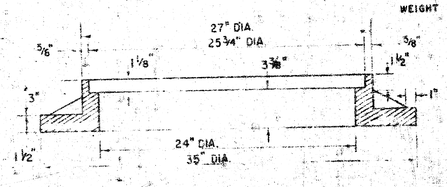


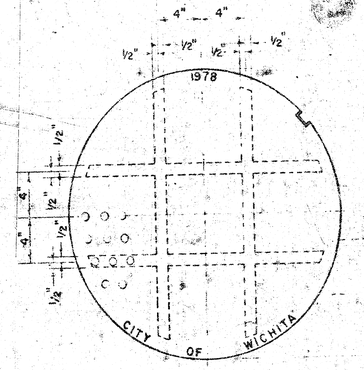
SECTION A-A
(SCALE 1" = 1'0")

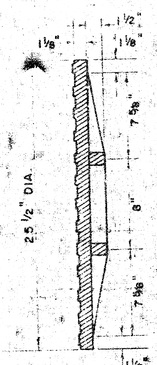
NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE FOR INLET TOPS AND FLOORS SHALL BE 6-SACK PAVING MIX.



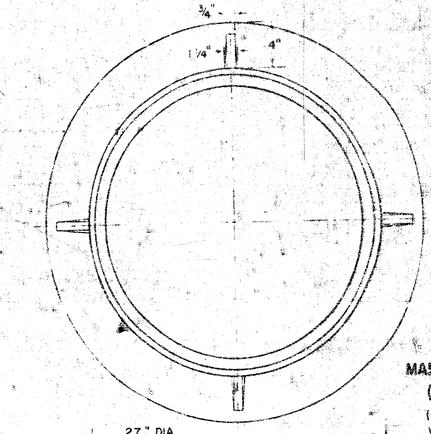
MANHOLE FRAME
(SCALE 1" = 6")
WEIGHT = 180 LBS.



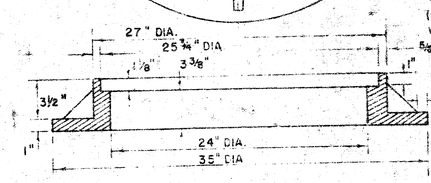


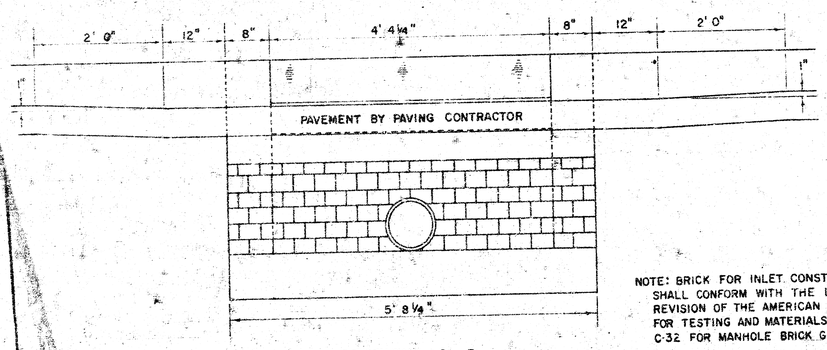


MANHOLE COVER
(SCALE 1" = 6")
WEIGHT = 170 LBS.



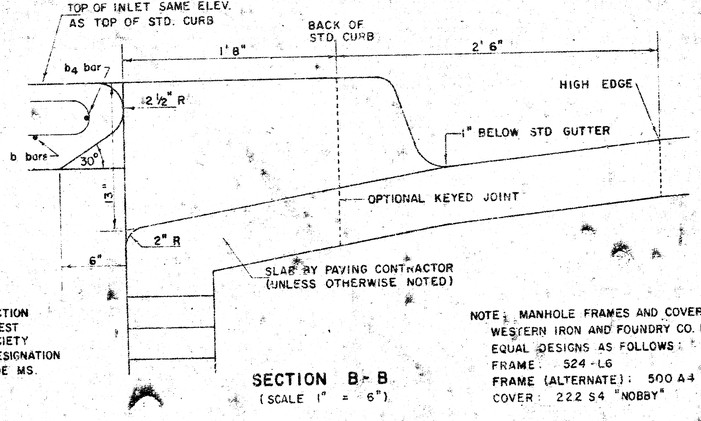
MANHOLE FRAME (ALTERNATE)
(SCALE 1" = 6")
WEIGHT = 180 LBS.





SECTION C-C
(SCALE 1" = 1'0")

NOTE: BRICK FOR INLET CONSTRUCTION SHALL CONFORM WITH THE LATEST REVISION OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS DESIGNATION C-32 FOR MANHOLE BRICK GRADE MS.



SECTION B-B
(SCALE 1" = 6")

NOTE: MANHOLE FRAMES AND COVER ARE WESTERN IRON AND FOUNDRY CO. INC. OR EQUAL DESIGNS AS FOLLOWS:
FRAME: 524-L6
FRAME (ALTERNATE): 500 A4
COVER: 222 S4 "NOBBY"

DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS

R. W. LINN — CITY ENGINEER

OCTOBER 1978

7/7