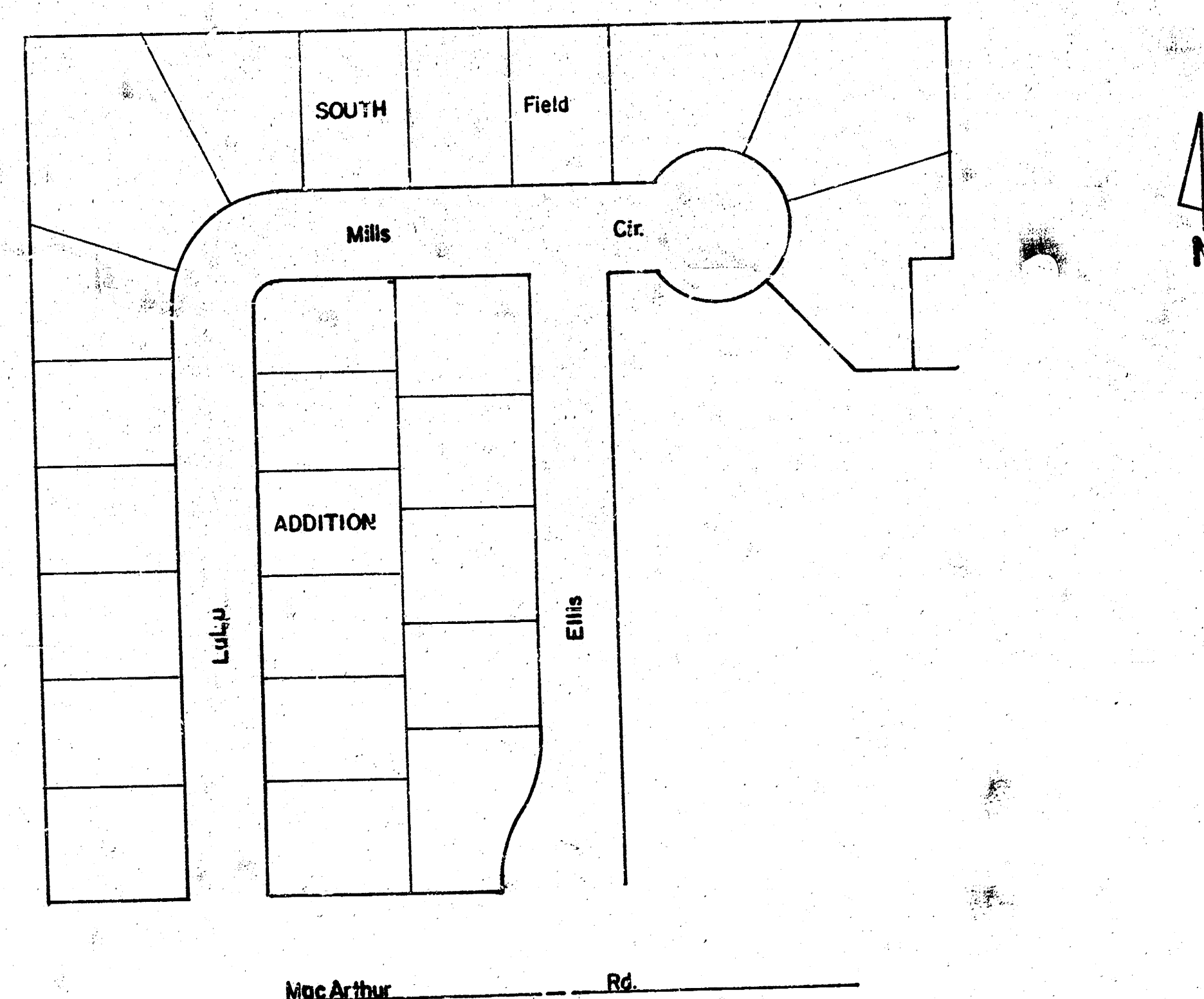
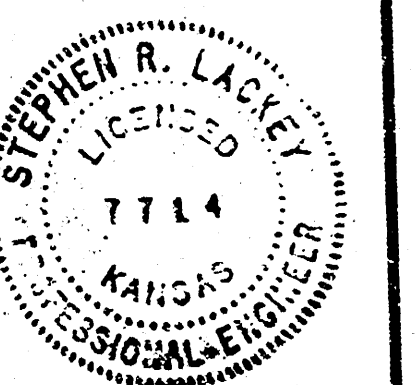
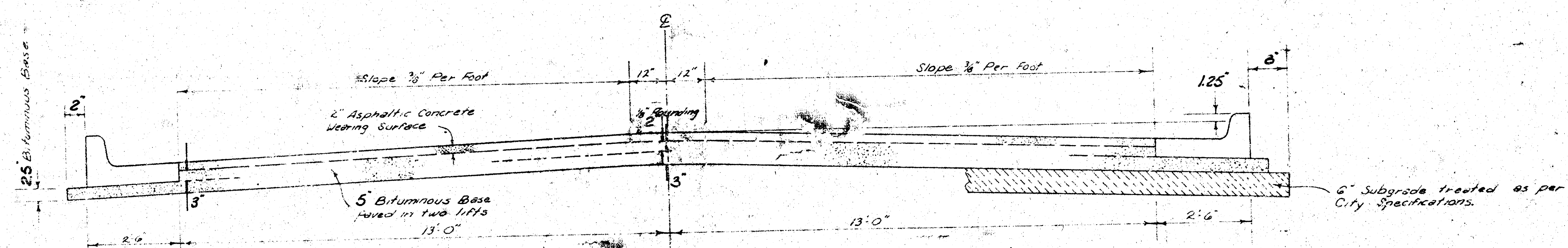


LuLu & Mills Cir.
 from NL MacArthur to and incl. cul-de-sac
 Ellis
 from NL MacArthur to SL Mills Cir.



Department of Engineering
 City of Wichita, Kansas
 R. W. Bruggeman Dir. Engineering / City Engineer
 Proj. no. 472-76-245-81067-000-000-001
 Date: _____





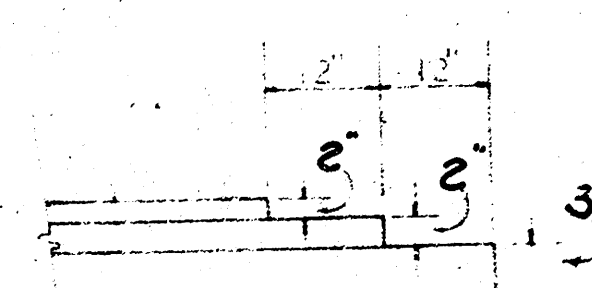
TYPICAL SECTION

31' 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 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.

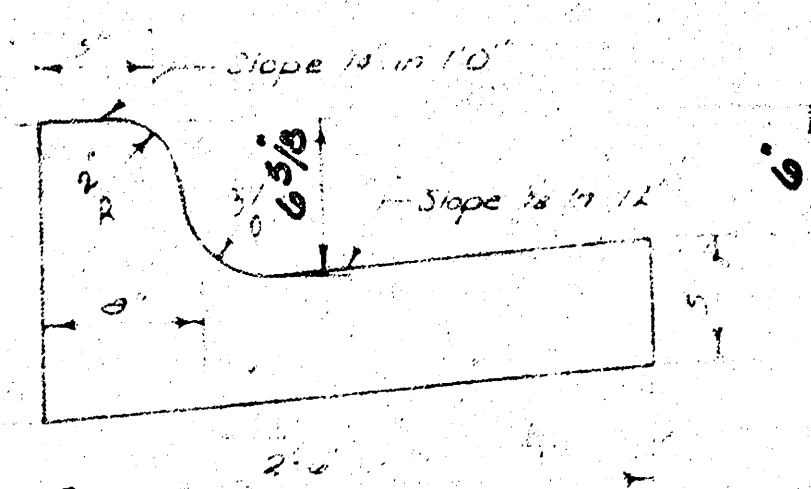
DETAIL OF TRANSVERSE CONSTRUCTION JOINTS



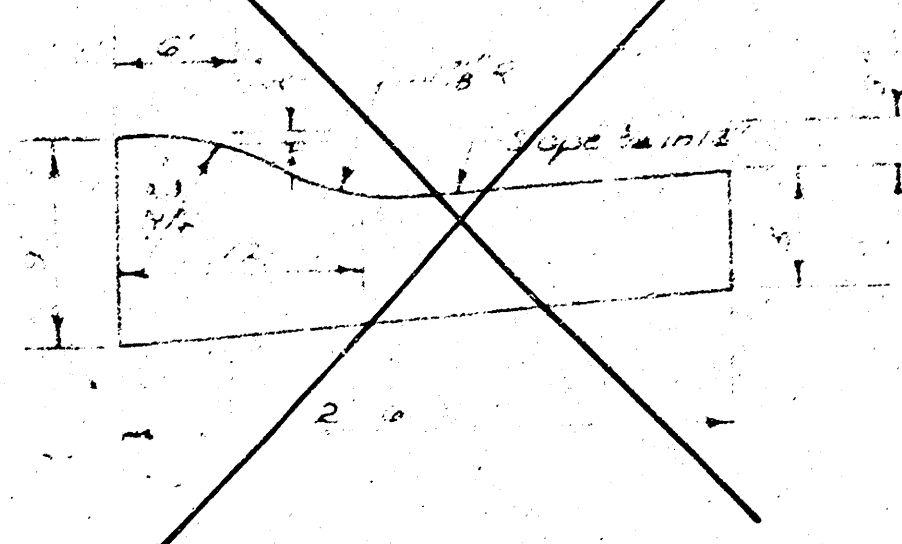
TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT TEMPORARILY ENDS TO FACILITATE FUTURE PAVEMENT CONSTRUCTION AS SHOWN BY DETAIL. THE COST OF CONSTRUCTING THE TRANSVERSE CONSTRUCTION JOINTS SHALL NOT BE MEASURED OR PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS OF ASPHALTIC CONCRETE PAVEMENT.

The A.C. pavement between the Comb. Curb & Gutter shall be paid as 31' A.C. Pavement (5' Bituminous Base). The Bituminous Base under the Comb. Curb & Gutter shall be paid as 5' 2.5' Bituminous Base.

COMBINED CURB & GUTTER



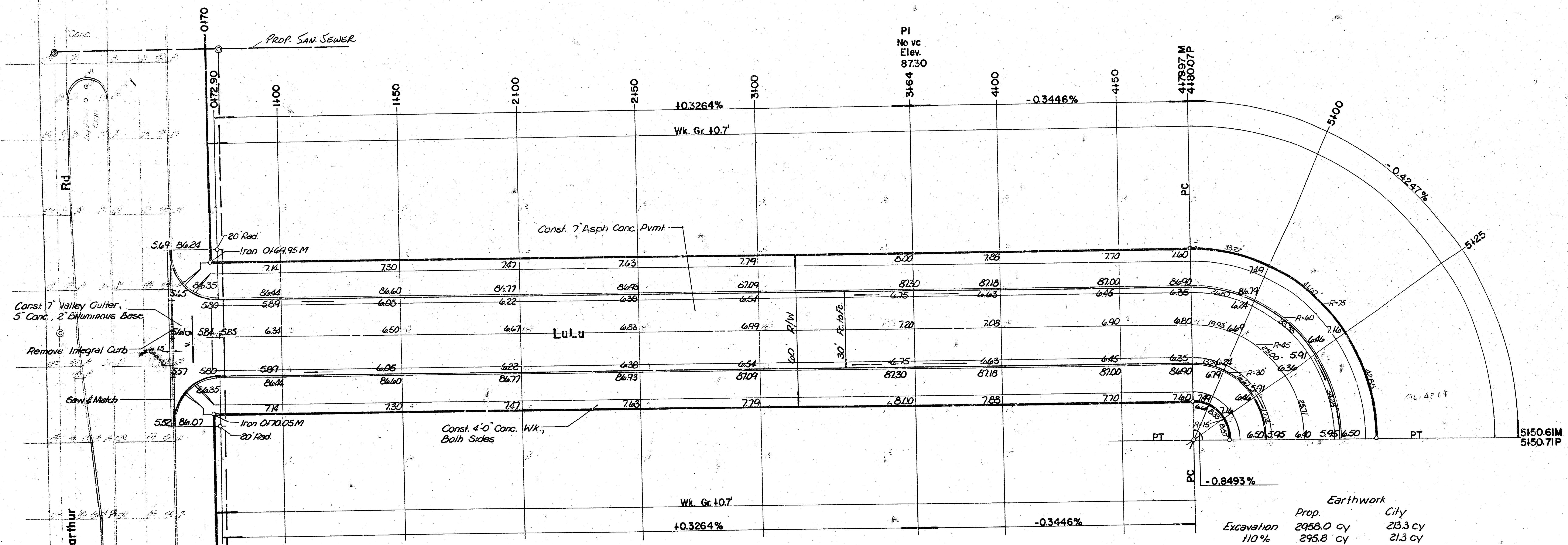
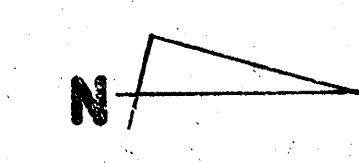
ROLL TYPE CURB & GUTTER



CITY OF WICHITA, KANSAS
DEPARTMENT OF ENGINEERING

Survey
 Plan
 Fleming
 Exc.
 Checked

BM 87.90 R.R. spike N. fc. K.G. & E. P.P. N. side MacArthur approx. 109' W. of C. Ellis
 BL is C. Ellis
 25-20' DIVES



Earthwork

	Prop.	City
Excavation	2956.0 cy	213.3 cy
110 %	295.8 cy	21.3 cy
Total	3253.8 cy	234.6 cy
Manipulation	2631.1 sy	

INTERSECTION QUANTITIES

— S.Y. —	Concrete Pavement
— S.Y. —	Asphaltic Conc. Pavement (— Bituminous Base)
— S.Y. —	Bituminous Base
240 SF	4" Walk
490 LF	Int. Curb
112 SF	4" Chair Ramp
220 LF	Integral Curb Removed
33.6 C.Y.	Excavation
7.5 C.Y.	Compacted Fill
73 LF	Saw Jt.
902 S.Y.	Manipulation
1.1 Tons	Lime or Cement
860 S.Y.	V.G. 5" Concrete & 2" Asphaltic Concrete Base

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY DURING THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO RE-ESTABLISH ANY PROPERTY LINES WHICH ARE DAMAGED OR DESTROYED DURING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO RE-ESTABLISH ANY PROPERTY LINES WHICH ARE DAMAGED OR DESTROYED DURING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO RE-ESTABLISH ANY PROPERTY LINES WHICH ARE DAMAGED OR DESTROYED DURING CONSTRUCTION OPERATIONS.

Note: All excavated Mats. to be left on Job site. Contractor to Contact Property Owner for exact location.

Δ = 89°56'25" = 450' T = 4495' L = 7064' LC = 6361'

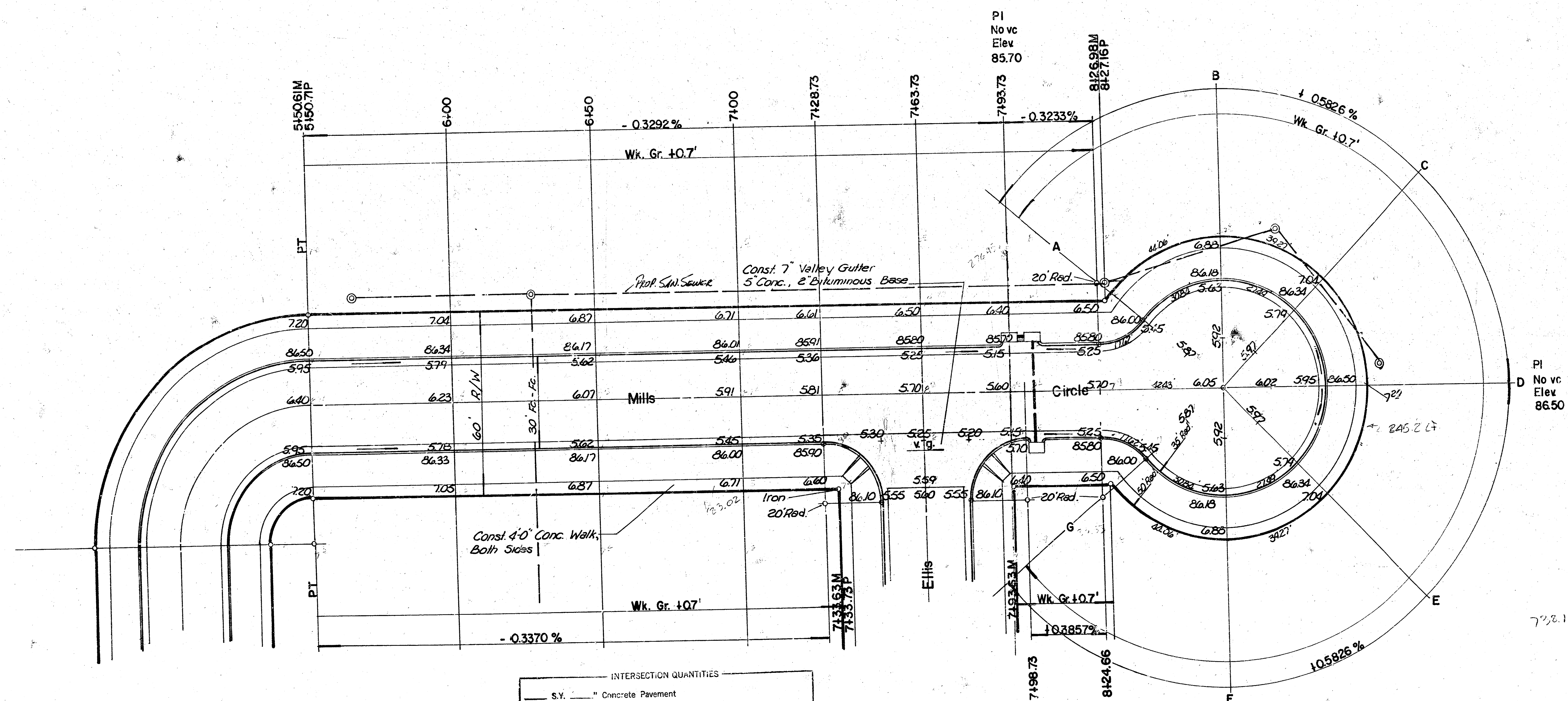
CURVE DATA BASED ON 6" RAD. Δ = 44°58'13"

STA.	ARC.	CHORD LENGTH	CHORD BEARING	DEFLECTION	TOTAL DEFLECTION
4180.07					0°0'00"
5100	19.93'	30.12'	9.74°	12°41'16"	12°41'16"
5125	25.00'	37.78'	12.22°	15°54'55"	28°36'11"
5150.71	25.71'	38.85'	12.57°	16°22'02"	44°58'13"

Defl. ^{mb} 71. = 33.19660721

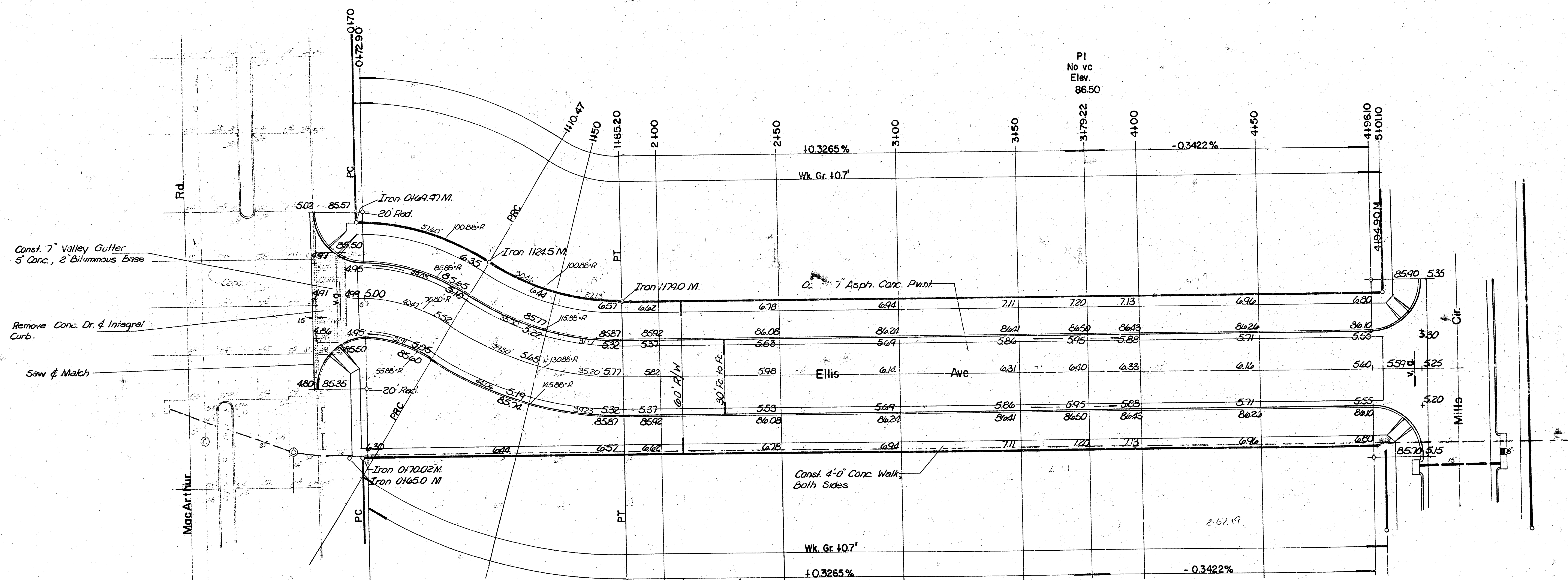
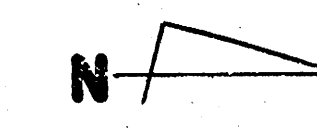
LuLu and Mills Cir.
 from NL MacArthur to and incl.
 cul-de-sac
 Proj. no. 472-76-245-81067-000-000-001

BL is Q Mills Circle



INTERSECTION QUANTITIES	
867 S.Y.	" Concrete Pavement
867 S.Y.	" Asphaltic Conc. Pavement (.5" Bituminous Base)
S.Y.	" Bituminous Base
L.F.	Combined Curb & Gutter
348 L.F.	Intersecting Curb
72 S.F.	4" Mandrel Chair Ramp
240 S.F.	4" Walk
1792 C.Y.	Excavation
13.5 C.Y.	Compacted Fill
Lbs.	Reinforcing Steel
1625 S.Y.	Manipulation
2.0	Tons Lime or Cement
81.9 S.Y.	V.G. .5" Concrete & .2" Asphaltic Concrete Base

BL is 30' W. of and parallel to EL Ellis



INTERSECTION QUANTITIES

S.Y.	Concrete Pavement	Asphaltic Conc. Pavement	Bituminous Base
73	LF Saw Jt.		
480	SF Conc. Dr. Removal		
520	LF Integral Curb		
96	S.F. 4" Chain Ramp		
70	LF Integral Curb Removed		
405	C.Y. Earthwork		
75	C.Y. Concrete Fill		
140	SF 4" Walk		
902	S.Y. Manipulation		
1.1	Tons Lime or Cement		
86.0	S.Y. V.G. 5" Concrete & 2" Asphaltic Concrete Base		

CURVE DATA BASED ON $\Delta = 32.424^\circ$ T = 70.88' L = 20.50' L.C. = 39.92'

STA.	ARC.	CHORD LENGTH	DEFLECTION	TOTAL DEFLECTION
0+10	40.47'	53.60'	27.34'	16'21"23"
1+10.47	40.47'	53.60'	27.34'	16'21"23"
1+150	39.53'	32.58'	46.48'	8'39"07"
1+185.20	35.20'	29.01'	41.39'	7'42"16"

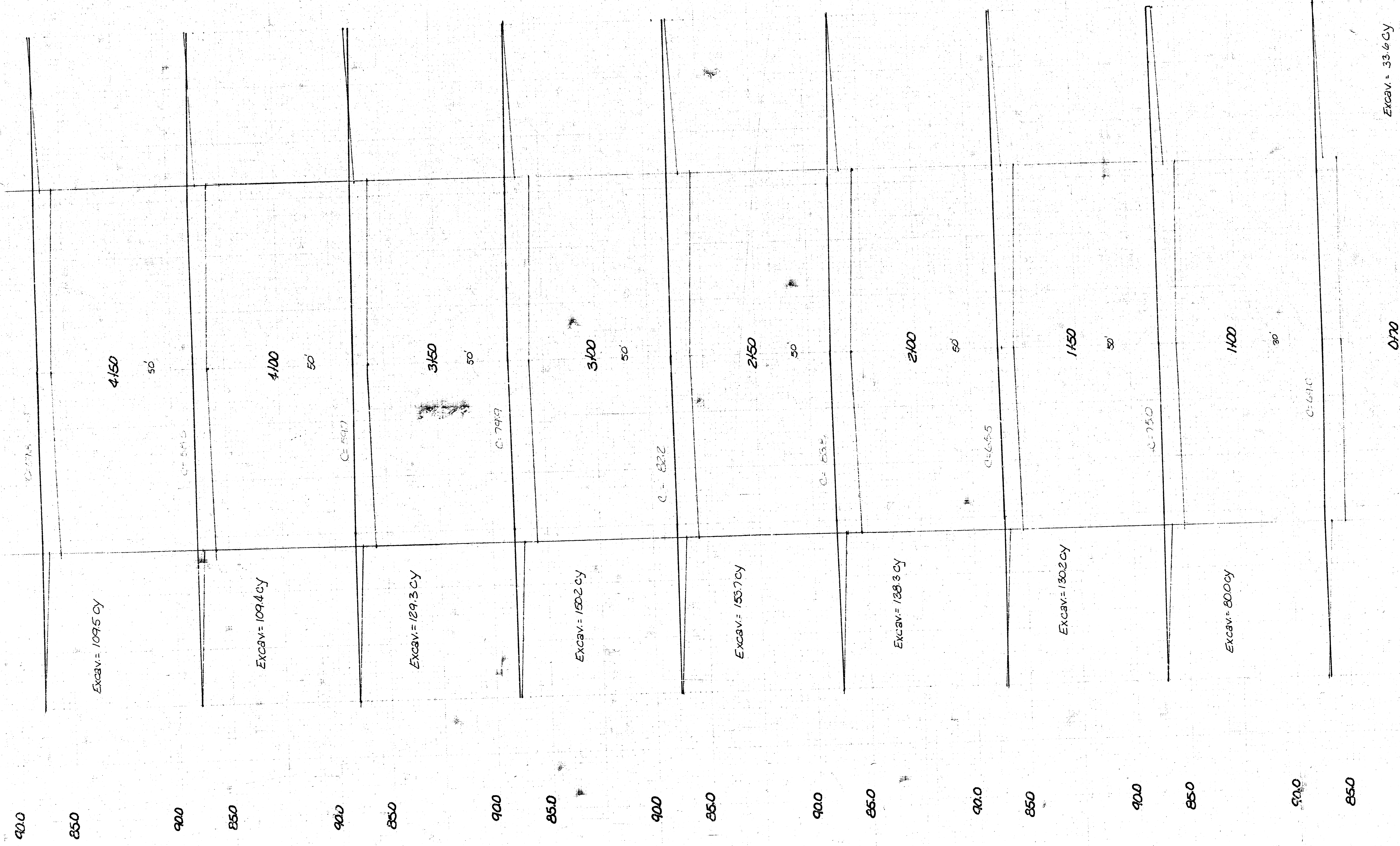
Defl. $\frac{m}{100} = 13.3238771$

Earthwork

Prop.	City
Excavation	1621.0 cy
110%	162.1 cy
Total	1783.1 cy
Manipulation	1309.5 sy

PI
No vc
Elev.
86.50

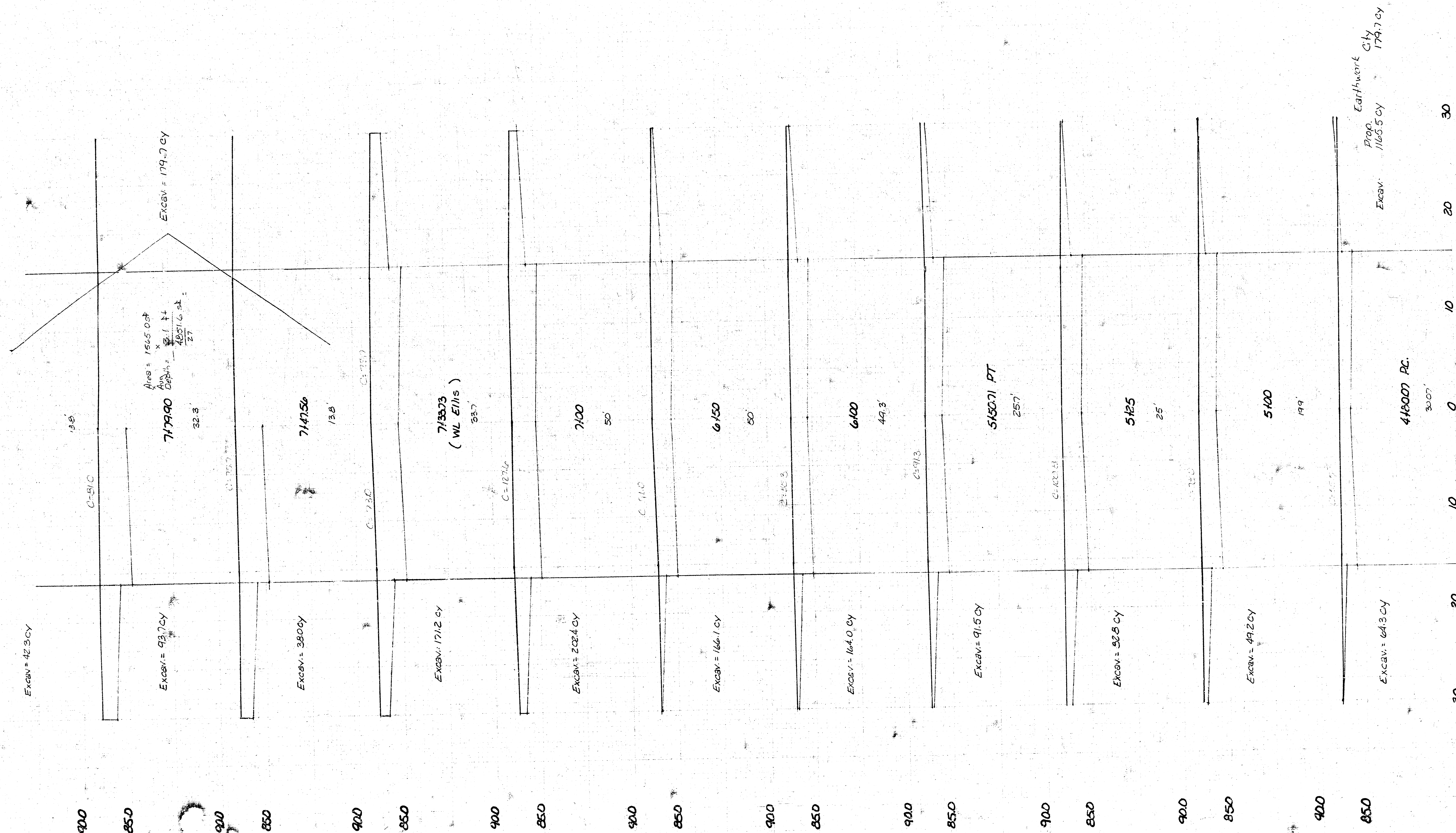
Ellis
from NL MacArthur to SL Mills Cir.

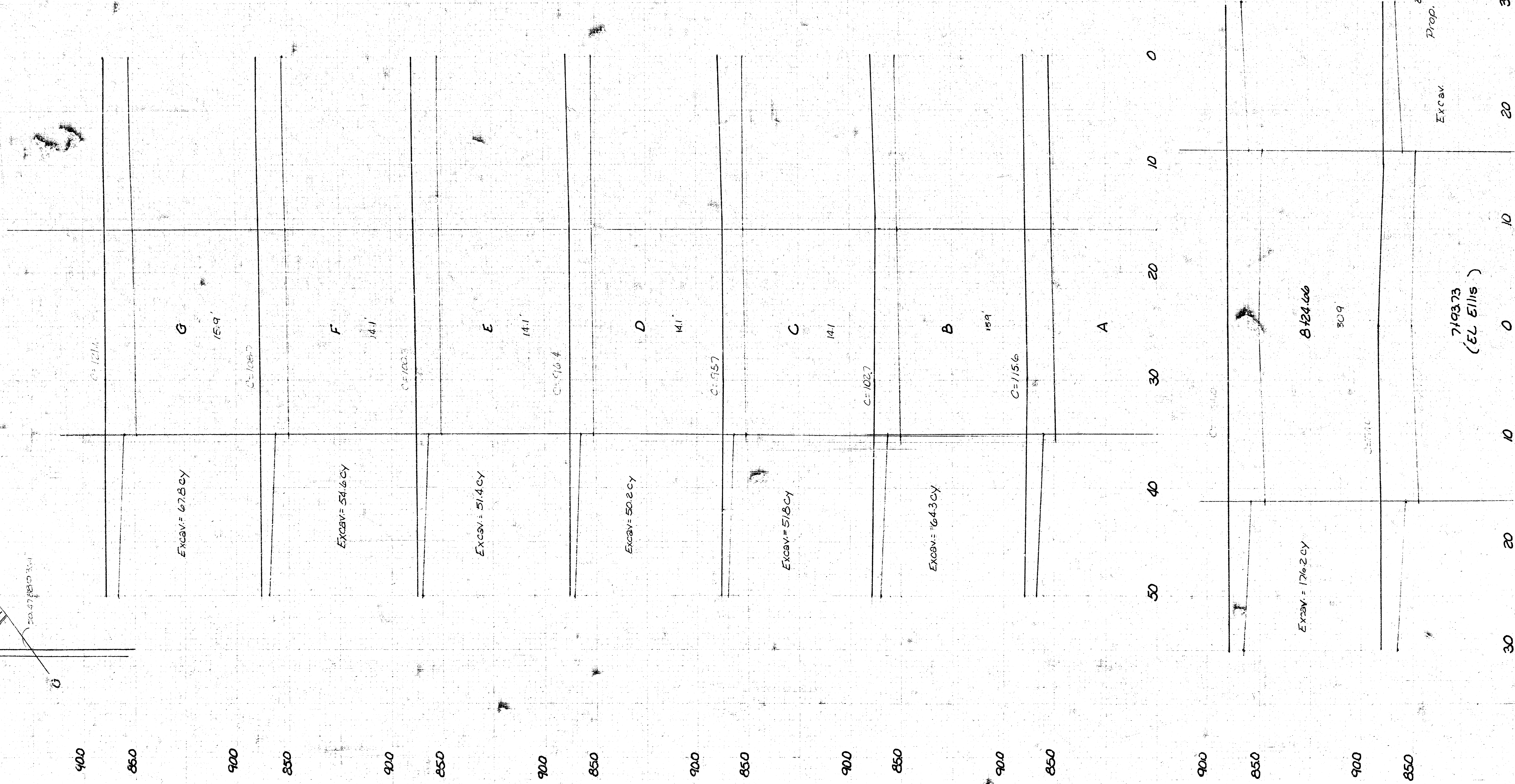
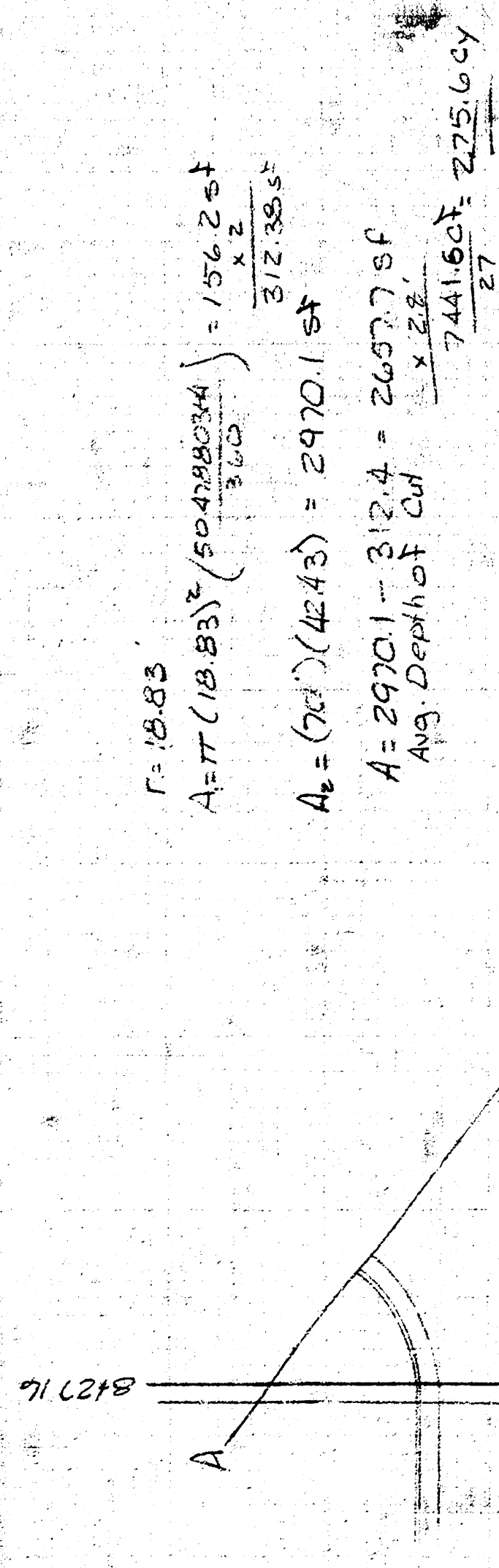


Prop Earthwork (This sheet)
City
1000.6 cy
33.6 cy

01534
0
10
20
30
Earthwork (Total)
Prop
2958.0 cy
City
2137.3 cy

Lulu & Mills Cir.
NL MacArthur to
Cul-de-sac.





Ellis
NL MacArthur to
SL Mills Cir.

30 20 10 0 10 20 30
Earthwork City
Prop 1621.0cy 405 cy

01534

Excav = 40.5 cy

0170 RC

C: 115.5

Excav = 135.2 cy

11047 PRC

C: 120

Excav = 251.5 cy

143530 RT

C: 114.8

Excav = 216.2 cy

2150

C: 95.4

Excav = 182.2 cy

3100

C: 101.4

Excav = 181.5 cy

3150

C: 91.5

Excav = 200.7 cy

4100

C: 122

Excav = 223.0 cy

4150

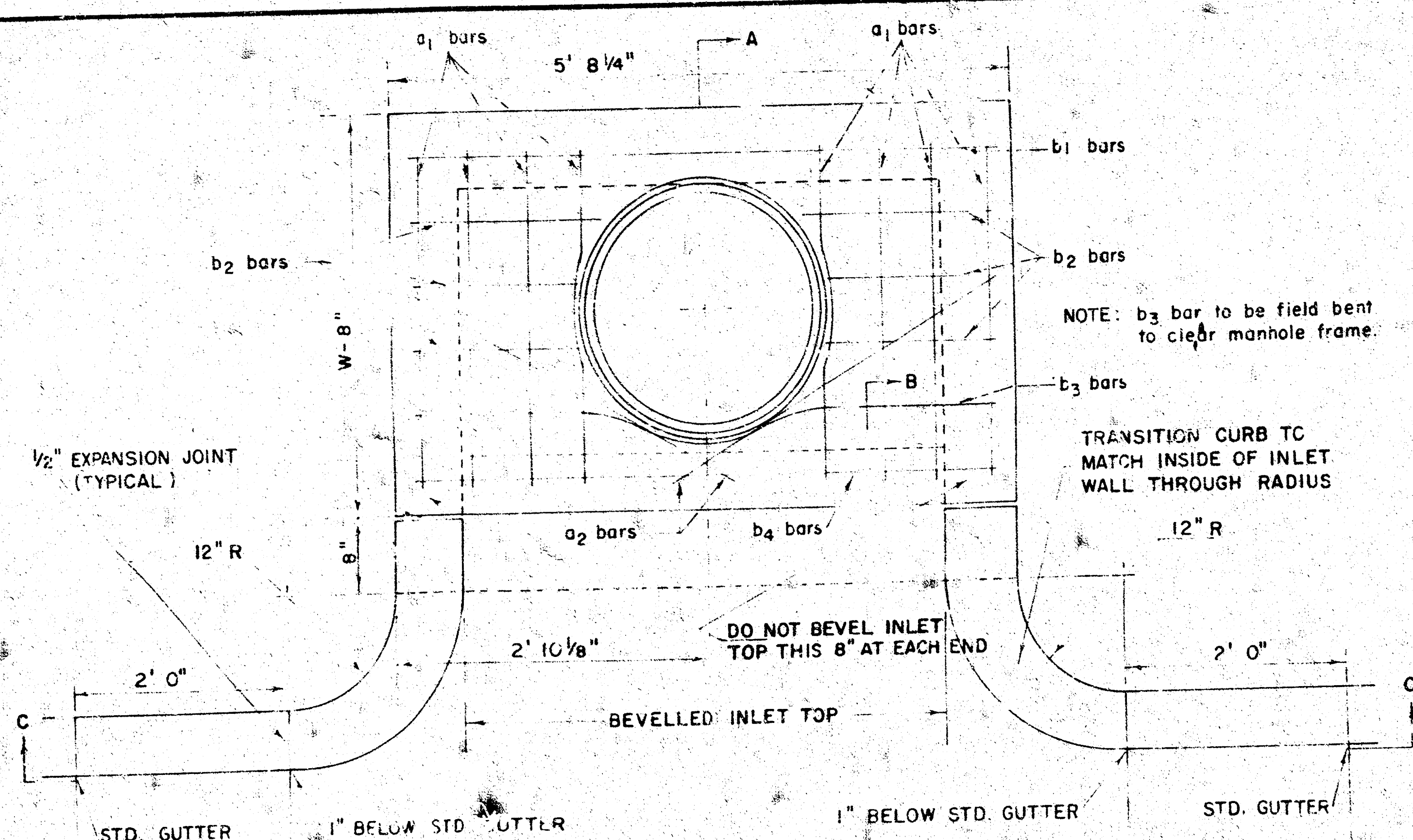
C: 118.5

Excav = 230.7 cy

510110

C: 115.3

Earthwork City
Prop 1621.0cy 405 cy



PLAN (SCALE 1" = 1' 0")

STEEL SCHEDULE

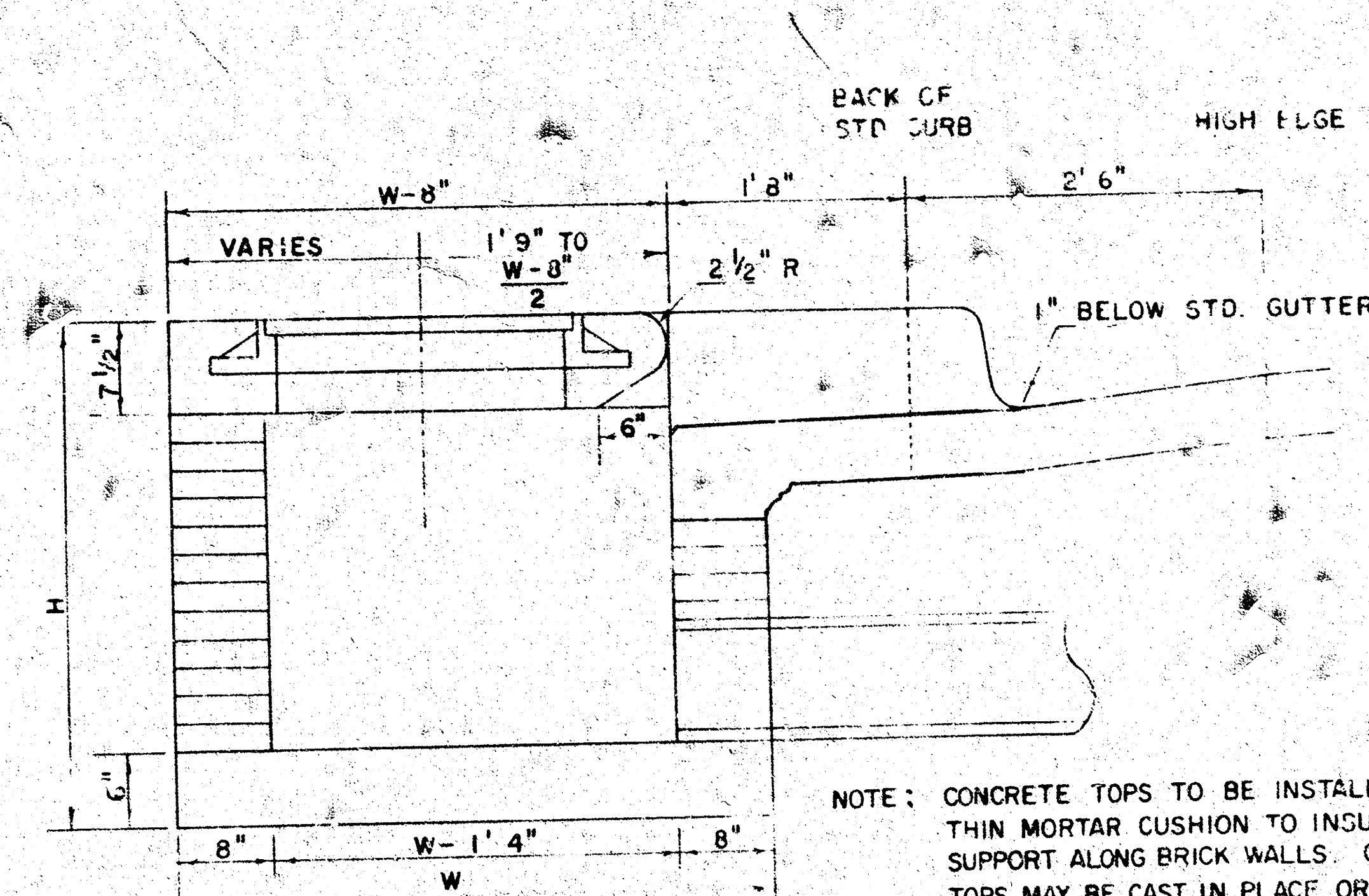
BAR	a ₁	a ₂	b ₁	b ₂	b ₃	b ₄	WT. LBS.
NUMBER	8	2	1	3	5	7	9
SIZE	#4	#4	#4	#4	#4	#4	#6
W=4'2"	6'5"	3'4"	5'5"	-	-	-	1'5" 5'6" 5'5" 60"
W=5'0"	8'1"	4'4"	-	5'5"	-	-	1'5" 5'6" 5'5" 77"
W=6'0"	10'1"	5'4"	-	-	5'5"	-	1'5" 5'6" 5'5" 97"
W=7'0"	11'1"	6'4"	-	-	-	5'5"	1'5" 5'6" 5'5" 111"
W=8'0"	12'1"	7'4"	-	-	-	-	5'5" 1'5" 5'6" 5'5" 124"

* NOTE: a₂ BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

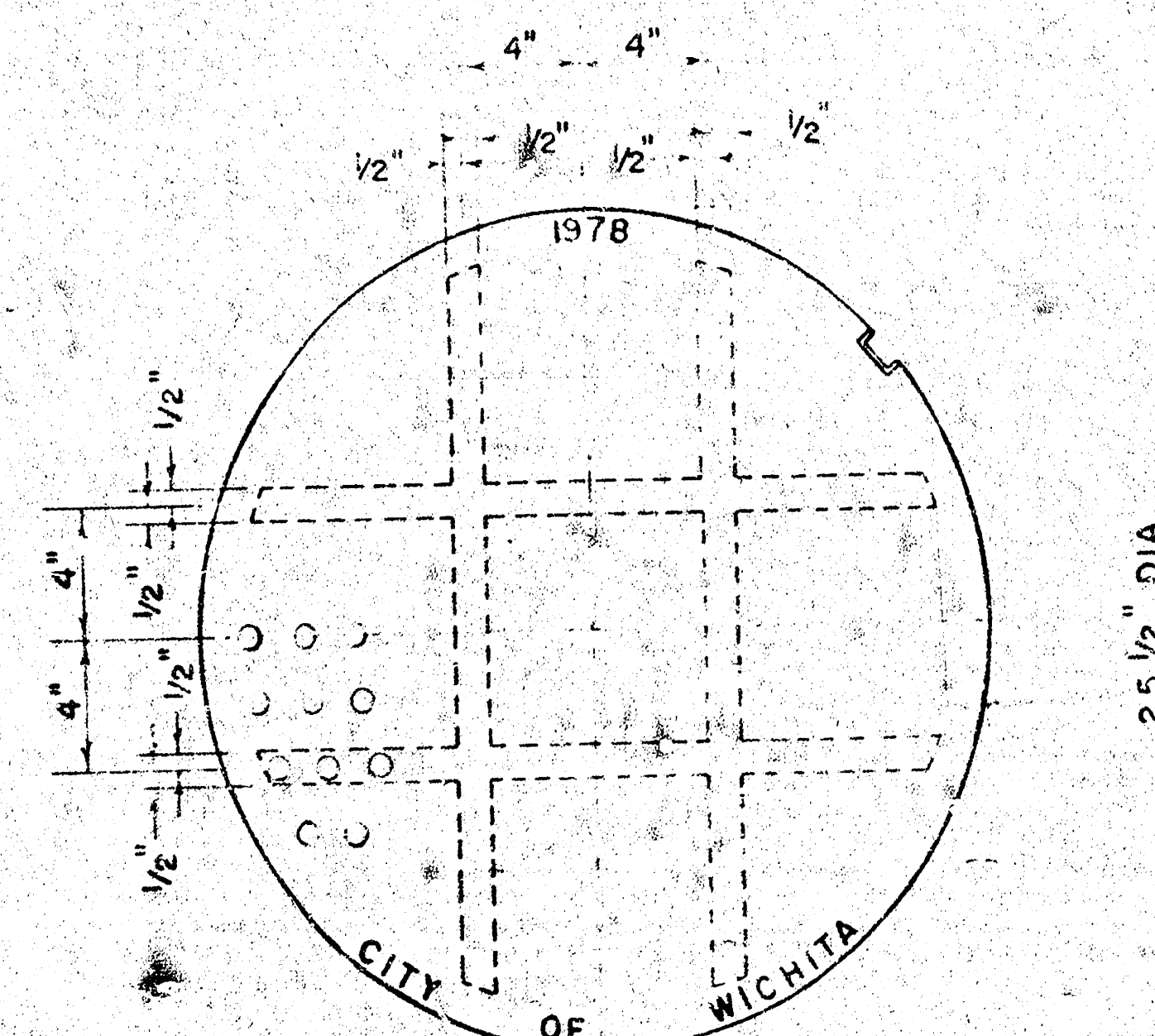
BENDING DIAGRAM

W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 2"	36" x 5' 8 1/4" x 7 1/2"	21" & SMALLER	0.46 *
5' 0"	44" x 5' 8 1/4" x 7 1/2"	24" & 30"	0.57 *
6' 0"	54" x 5' 8 1/4" x 7 1/2"	36" & 42"	0.71 *
7' 0"	64" x 5' 8 1/4" x 7 1/2"	48" & 54"	0.84 *
8' 0"	74" x 5' 8 1/4" x 7 1/2"	60" & 66"	0.97 *

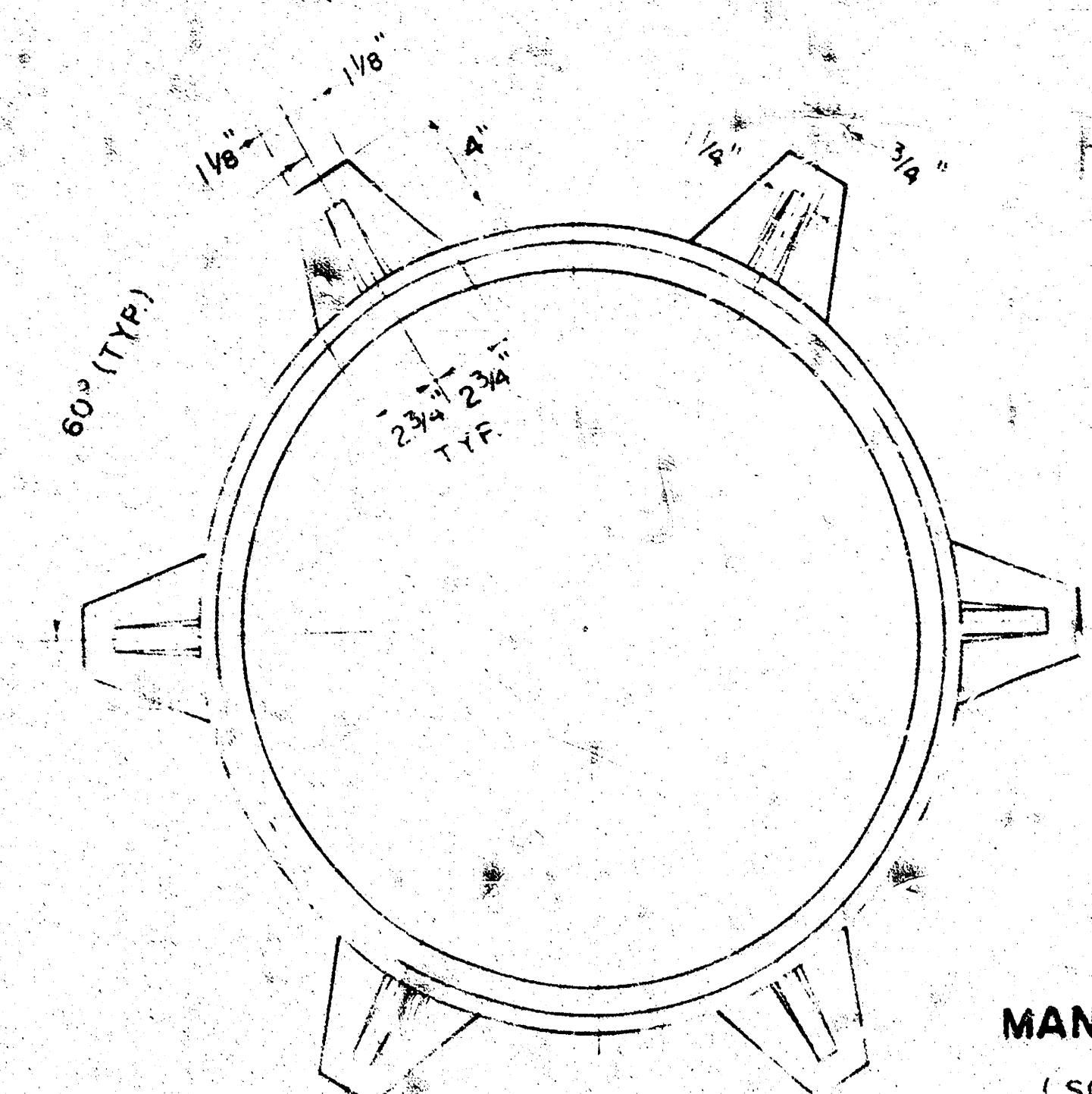
* GROSS VOLUME



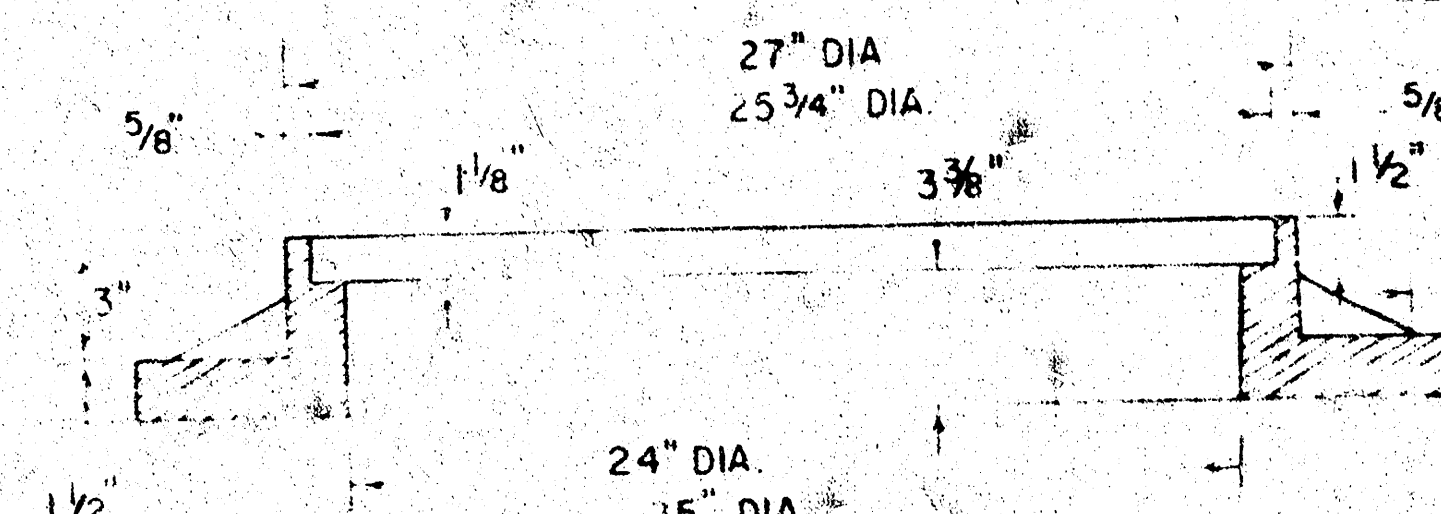
SECTION A-A
(SCALE 1" = 1' 0")



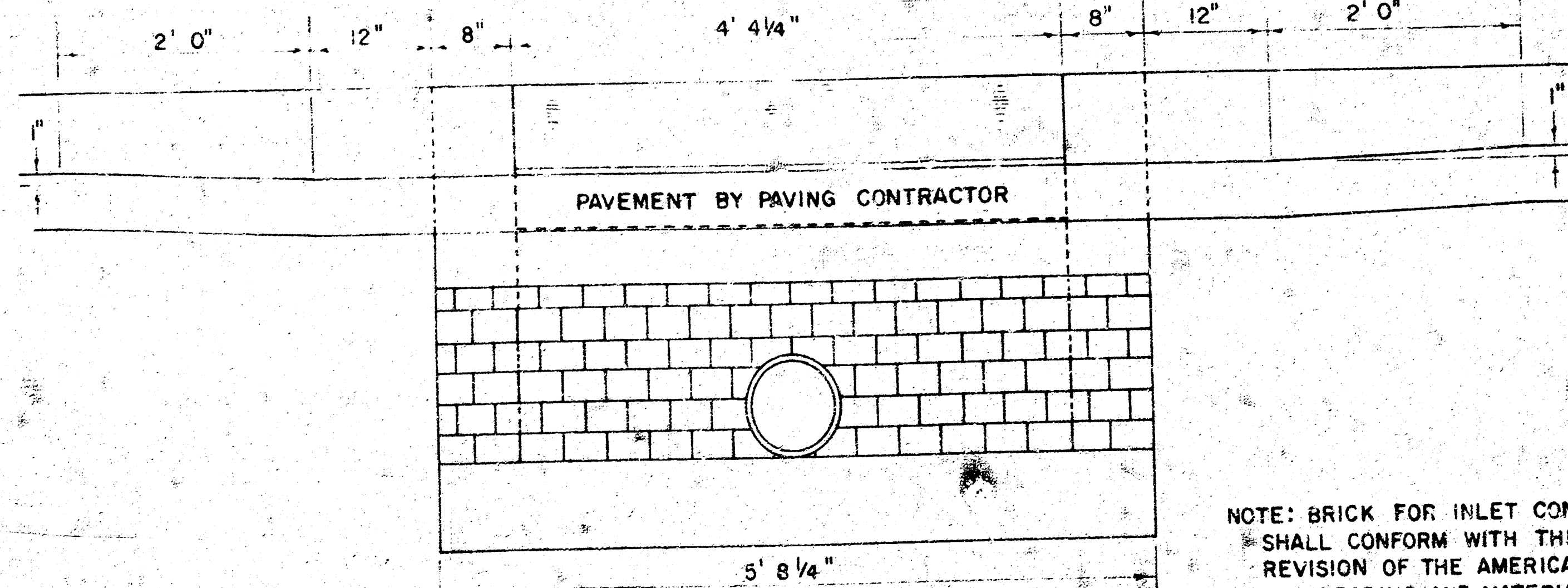
MANHOLE COVER
(SCALE 1" = 6")
WEIGHT = 170 LBS.



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

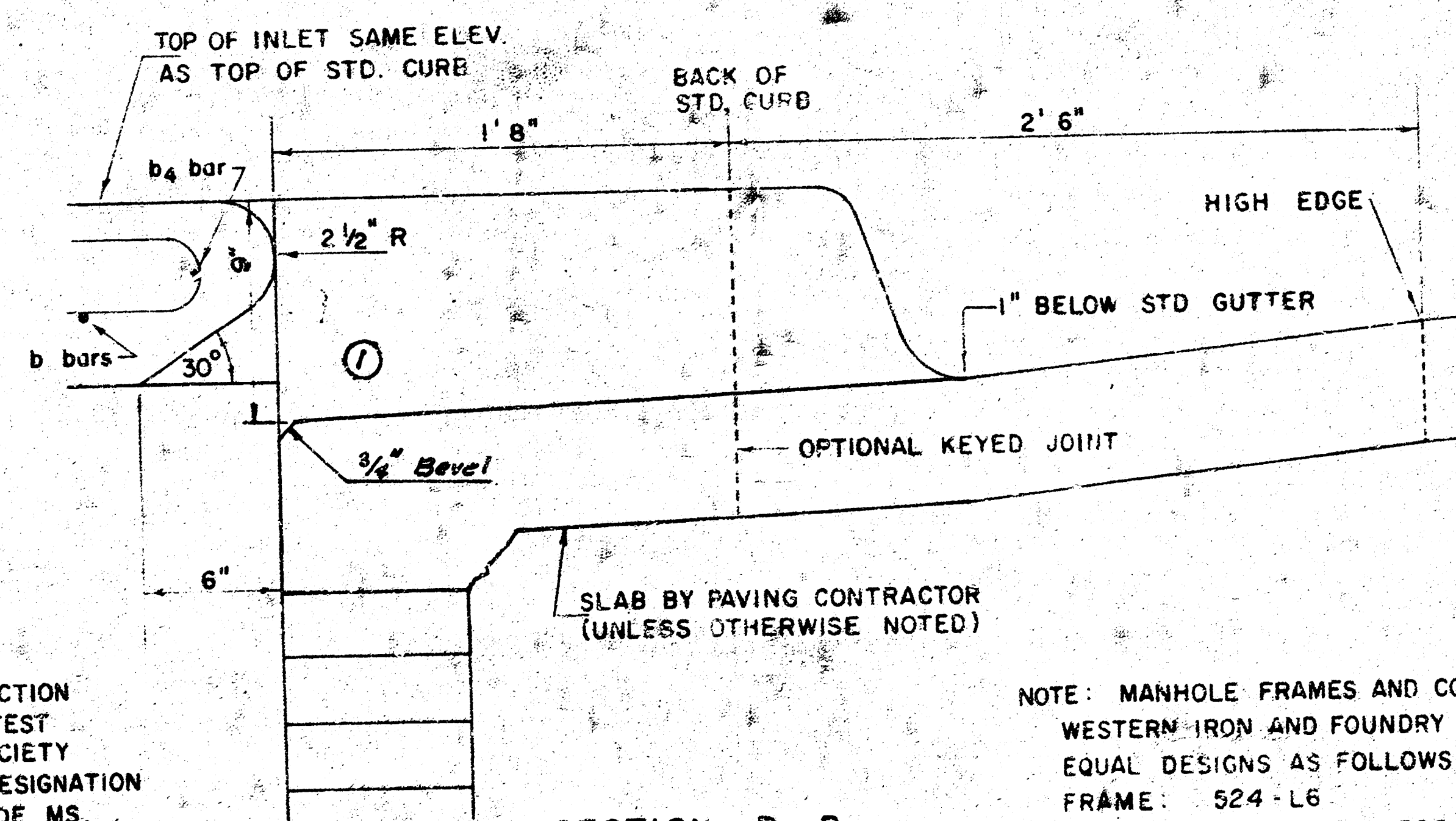


MANHOLE FRAME
(ALTERNATE)
(SCALE 1" = 6")
WEIGHT = 180 LBS.



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 1A CURB INLET
CITY OF WICHITA, KANSAS
R.W. BRUGGEMAN, DIRECTOR OF ENGINEERING/
CITY ENGINEER

JUNE, 1981