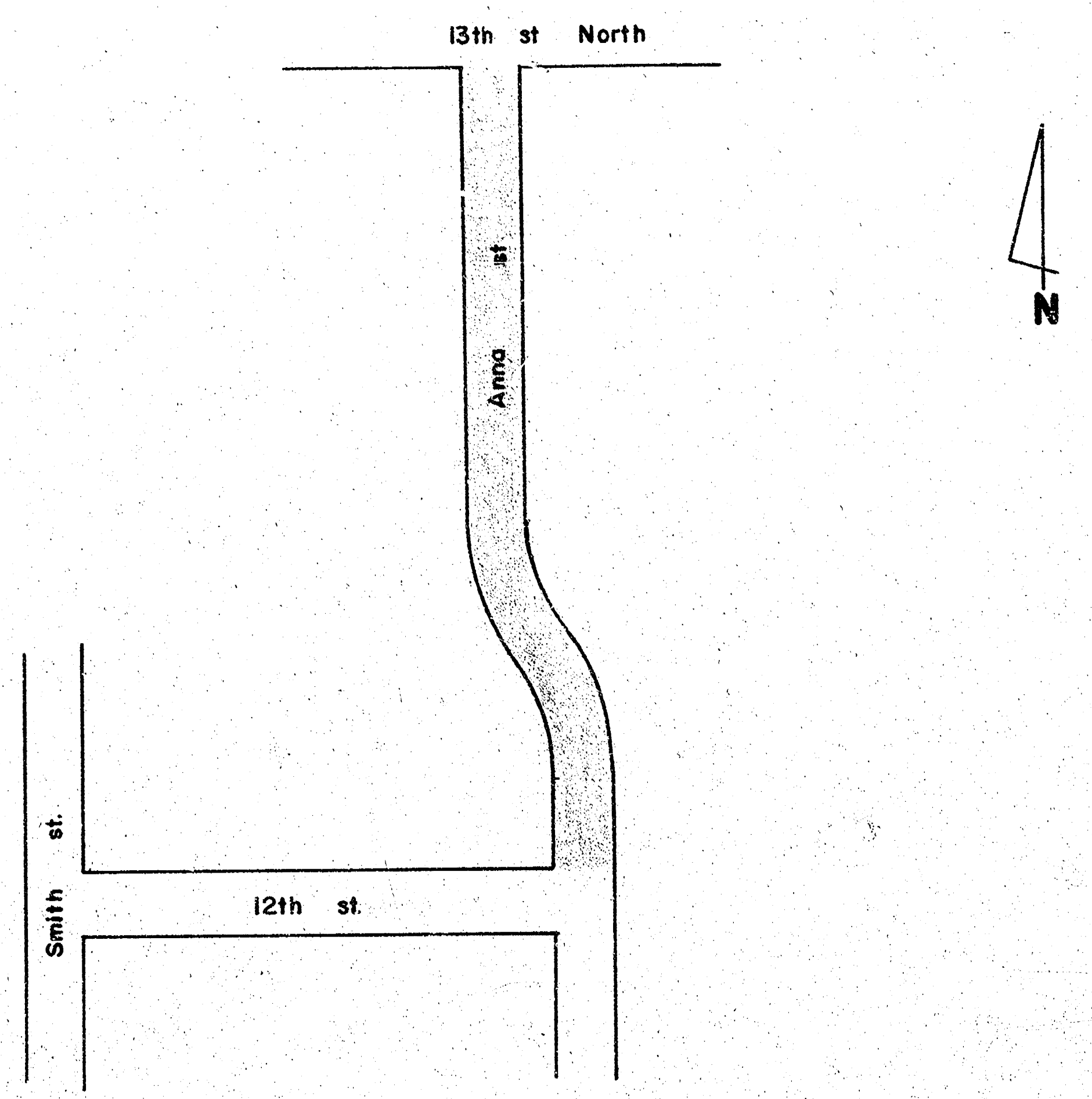
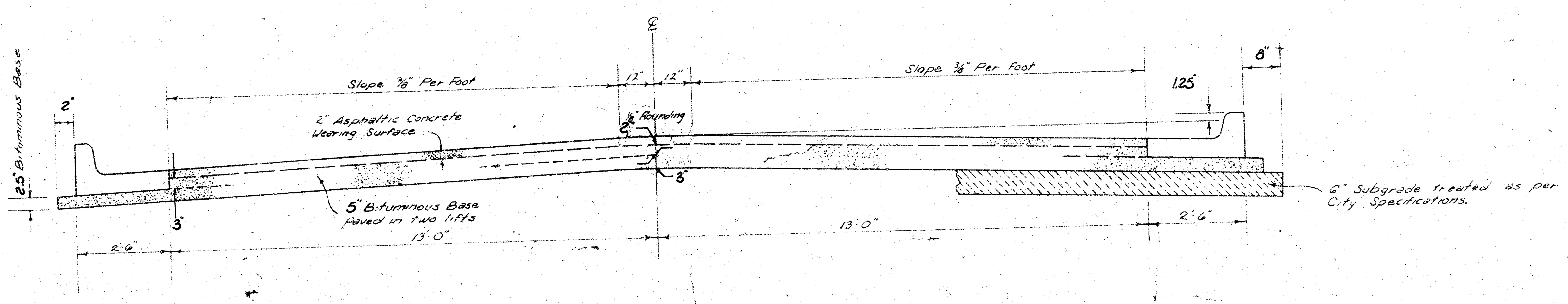
ANNA ST

NL 12th st to SL 13th st N.


13th st North
Anna st
Smith st.
12th st.
N

Department of Engineering
City of Wichita, Kansas
R. W. Bruggeman Director Engineering / City Engineer
Proj. no. 472-76-245-81079-000-000-001

STEPHEN R. LACKEY
7714


℄
Slope ⅜" Per Foot
12"
12"
Slope ⅜" Per Foot
8"
1.25
2"
2.5" Bituminous Base
2" Asphaltic Concrete Wearing Surface
½" Rounding
2"
3"
3"
5" Bituminous Base Paved in two lifts
6" Subgrade treated as per City Specifications.
2'-6"
13'-0"
13'-0"
2'-6"

TYPICAL SECTION

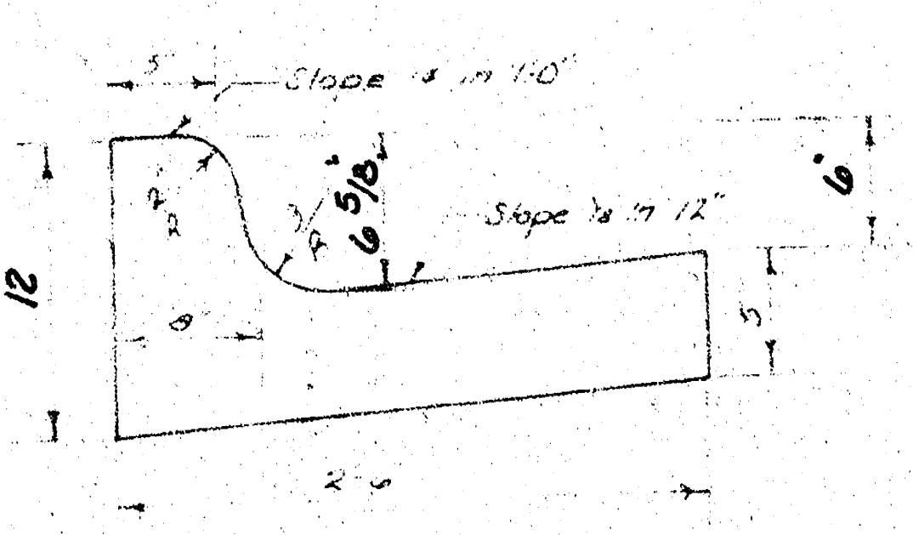
31' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

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.

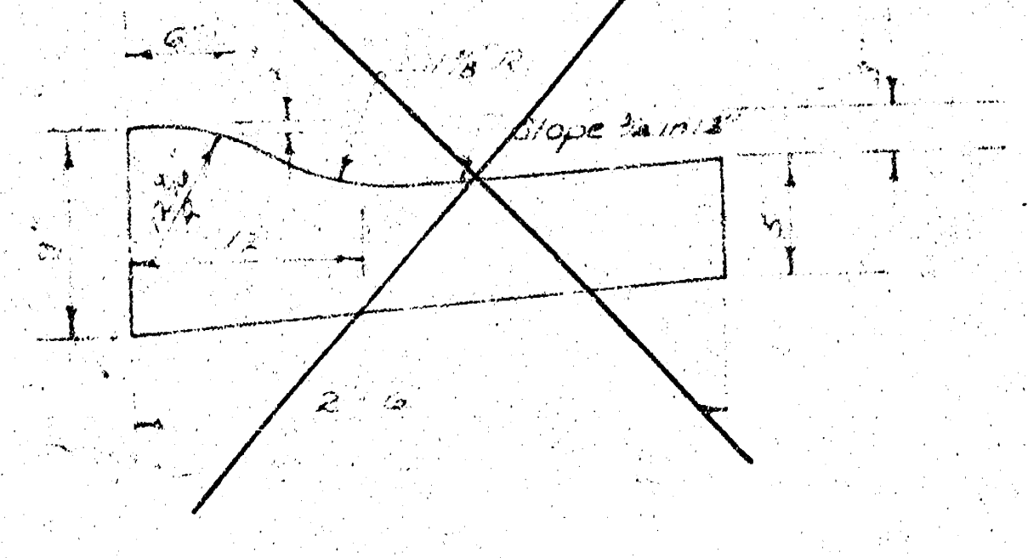
BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR CROWN AND GRADE. CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF 1' WITH JOINTS IN PRECEDING LIFTS AND SUCH THAT A JOINT WILL BE CONSTRUCTED ON THE PAVEMENT CENTERLINE IN THE TOP LIFT.

The A.C. pavement between the Comb. Curb & Gutter shall be paid as Sq. Yds. 7" A.C. Pavement (5" Bituminous Base). The Bituminous Base under the Comb. Curb & Gutter shall be paid as Sq. Yds. 2.5" Bituminous Base.

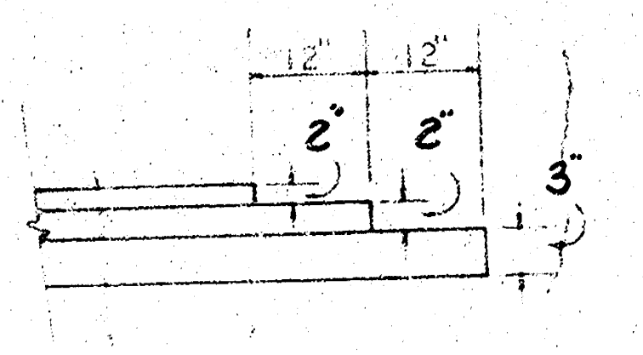
COMBINED CURB & GUTTER


5"
Slope ¼ in 1'-0"
12"
6 5/8"
6"
Slope ½ in 12"
8"
5"
2'-6"

~~ROLL TYPE CURB & GUTTER~~


6"
Slope ½ in 12"
5"
2'-6"

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 — ENGINEERING

DATE: ____________

FILMED FROM THE BEST AVAILABLE COPY.....

BASELINE ON EAST ℞

B.M. 126.934 CITY STD. @ BAKER & 13TH
B.M. 130.60 N.E. COR. CONC. PORCH HO.# 1355 N. ANNA. ON S.W. COR. ANNA & 13TH

NO MORE THAN 22-20' DRIVES TO BE CONSTRUCTED ON THIS PROJECT.

SCALE 1" = 20'

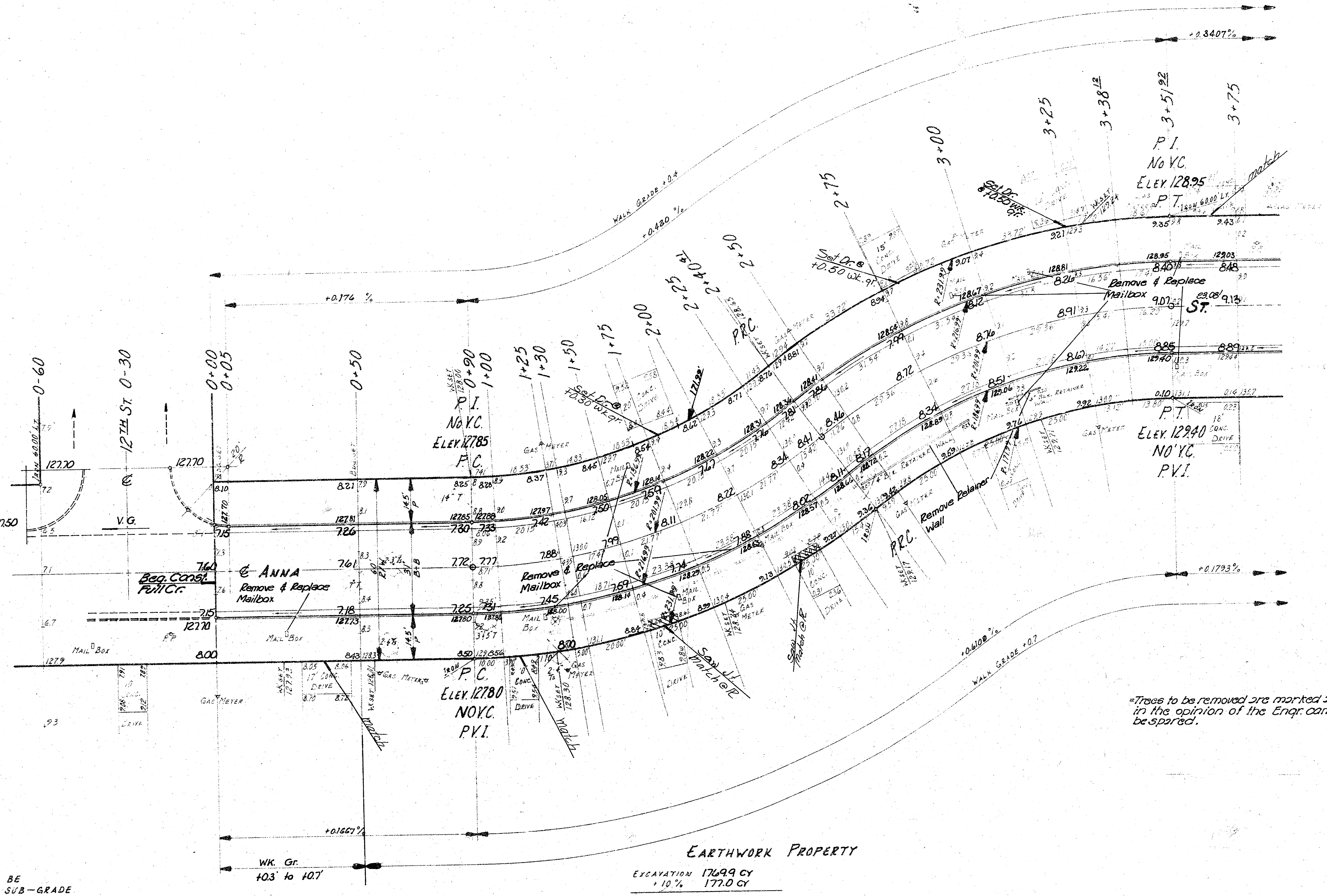
Δ 37°09'00" R 231.99' T 77.96' L 150.41' L.C. 147.80'

CURVE DATA BASED ON ℄ ℞ RAD Δ/2 18°34'30"					
STA	ARC	8' LT.	8' RT.	DEFLECTION	TOTAL DEFLECTION
0+90	—	—	—	0°00'00"	0°00'00"
1+00	10.00	7.71	9.70	1°14'06"	1°14'06"
1+03⁹⁰	3.90	3.01	3.78	0°28'53"	1°42'59"
1+25	21.10	16.27	20.46	2°36'20"	4°19'19"
1+30	5.00	3.86	4.85	0°37'03"	4°56'22"
1+50	20.00	15.43	19.39	2°28'11"	7°24'33"
1+75	25.00	19.28	24.23	3°05'14"	10°29'47"
2+00	25.00	19.28	24.23	3°05'14"	13°35'01"
2+25	25.00	19.28	24.23	3°05'14"	16°40'15"
2+40⁴¹	15.41	11.87	14.94	1°54'11"	18°34'26"

Δ 37°09'00" R 171.99' T 57.80' L 111.51' L.C. 109.57'

CURVE DATA BASED ON ℄ ℞ RAD Δ/2 18°34'30"					
STA	ARC	8' LT.	8' RT.	DEFLECTION	TOTAL DEFLECTION
2+40⁴¹	—	—	—	0°00'00"	0°00'00"
2+50	9.59	12.54	9.78	1°35'51"	1°35'51"
2+75	25.00	32.66	25.99	4°09'51"	5°45'42"
3+00	25.00	32.68	25.99	4°09'51"	9°55'33"
3+25	25.00	32.68	25.99	4°09'51"	14°05'24"
3+38¹²	13.12	17.16	13.65	2°11'07"	16°16'31"
3+51⁹²	13.80	18.05	14.36	2°17'55"	18°34'26"

SURVEY GLANTZ ENGR CADWELL
PLAN E NOWELL DR. C.L.G. '08
EXC. E NOWELL
CHECKED


N
+0.3407%
3+75
3+51⁹²
3+38¹²
3+25
3+00
2+75
2+50
2+40⁴¹
2+25
2+00
1+75
1+50
1+30
1+25
1+00
0+90
0+50
0+05
0+00
0-30
0-60
12TH ST.
℄
V.G.
P.I.
NO V.C.
ELEV. 128.95
P.T.
P.I.
NO V.C.
ELEV. 127.85
P.C.
P.T.
ELEV. 129.40
NO V.C.
P.V.I.
P.C.
ELEV. 127.80
NO V.C.
P.V.I.
P.R.C.
P.R.C.
ST.
℄ ANNA
Beg. Const.
Full Cr.
Remove & Replace
Mailbox
Remove & Replace
Mailbox
Remove & Replace
Mailbox
Remove Retainer
Wall
Saw
Match ℞
Match
Walk Grade +0.4
+0.480%
+0.174%
+0.1793%
+0.6108%
Walk Grade +0.7
+0.1667%
WK. Gr.
+0.3' to +0.7'
Mail Box
Gas Meter
Drive
127.70
127.50
8.00
127.79

*Trees to be removed are marked as shown unless in the opinion of the Engr. can be saved, shall be spared.

EARTHWORK PROPERTY

EXCAVATION 1769.9 CY
+10% 177.0 CY
TOTAL 1946.9 CY

MANIPULATION (6" LIFT) 27324 SY

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 STATE LAWS.

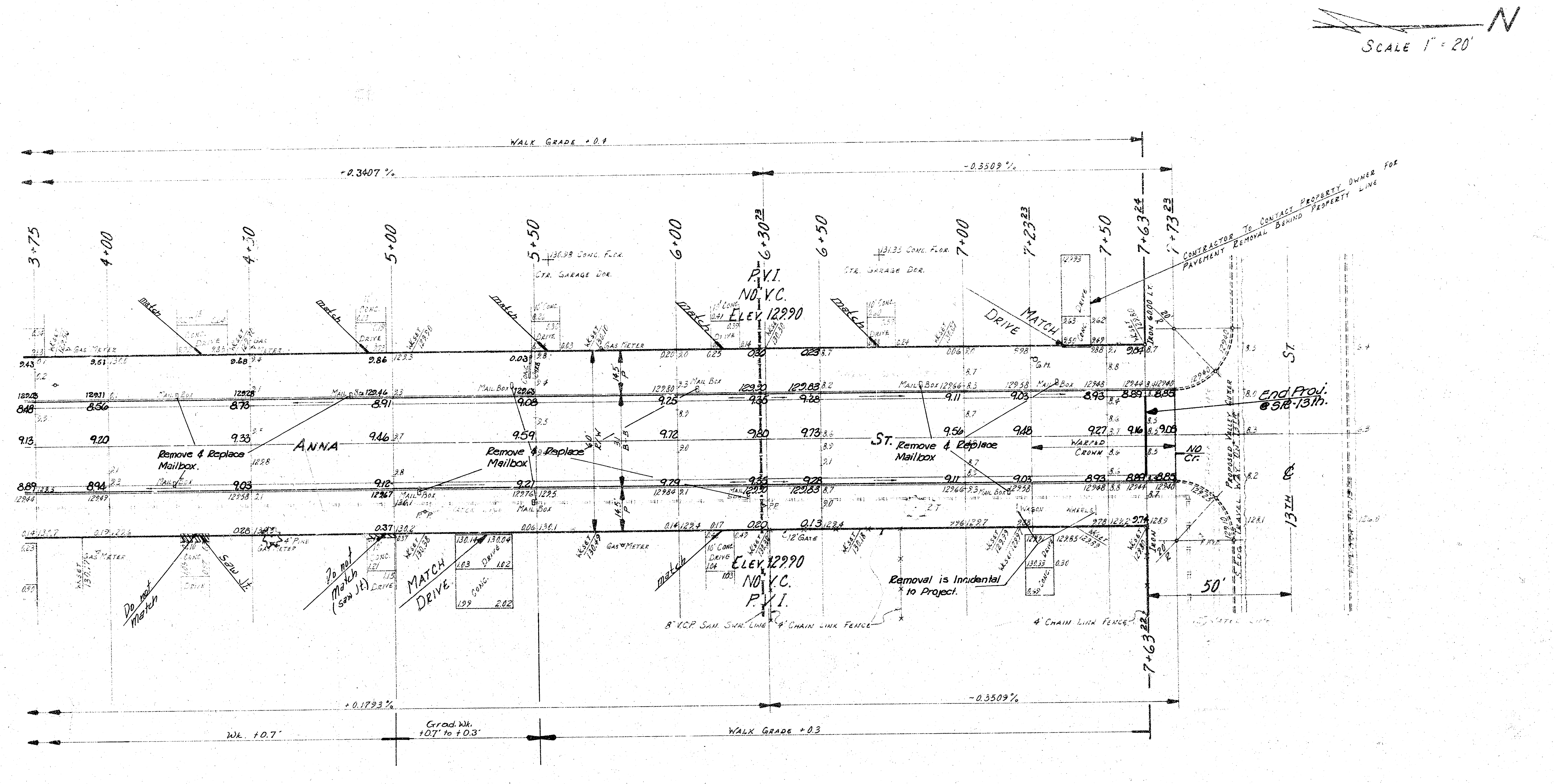
SUB-GRADE

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.

ANNA st
NL 12th st to SL 13th st
Dept. Engineering
City of Wichita Kansas
R.W. Bruggeman Dir. Eng./
City Eng. 3/6

Proj. no. 472-76-245-81079-000-000-001

FILMED FROM THE BEST
AVAILABLE COPY .....


N
SCALE 1" = 20'
WALK GRADE +0.4
+0.3407%
-0.3509%
3+75
4+00
4+50
5+00
5+50
6+00
6+30.23
6+50
7+00
7+23.23
7+50
7+63.24
7+73.23
CONTRACTOR TO CONTACT PROPERTY OWNER FOR PAVEMENT REMOVAL BEHIND PROPERTY LINE
P.V.I.
NO V.C.
ELEV. 129.90
match
MATCH DRIVE
Str. Garage Dor.
Conc. Flr.
Gas Meter
Mail Box
Remove & Replace Mailbox.
ANNA
ST.
Remove & Replace Mailbox
Remove & Replace Mailbox
WARPED CROWN
NO CR.
End Proj. @ Sta. 13th.
13TH ST.
Do not match
Sew. H.
Do not match (Sew. H.)
MATCH DRIVE
Conc. Drive
Removal is Incidental to Project.
8" V.C.P. SAN. SWR. LINE
4' CHAIN LINK FENCE
4' CHAIN LINK FENCE
50'
7+63.22
+0.1793%
-0.3509%
Wk. +0.7'
Grad. Wk. +0.7' to +0.3'
WALK GRADE +0.3

SURVEY GLANTZ ENGR. CADMUS
PLAN E. HOWELL BK. C.&G. 08
ENG. E HOWELL
CHECKED

FILMED FROM THE BEST AVAILABLE COPY.....

81073.

ALL PROPERTY

MEASURED QUANTITIES FOR FINAL ESTIMATES ON PAVING

Form KB-066

STREET NAME Anna st FROM NL 12th st TO SL 13th st CONTRACTOR MID KANSAS CONSTR. KIND OF PAVEMENT 7" AC w/5" BIT

Sta.	Width	Dist.	Av. Width	Area	Square Yards Pavement
SQ. YDS. 7" AC w/ 5" BIT					
0+00	26.0				
7+63^{45}	26.0	763.45	26.0		
		1x0.96			
		19,851.62			2,205.7SY
SQ. YDS MANIP					
		3.17x1,526.9			
		1x19,851.62			
		24,691.893			2,743.5SY
SQ. YDS. 2½" BIT. BASE					
		2.67x1,526.9÷9 = 453.0SY			
TONS CEMENT					
		(42#/SY)			
		CALC = 57.6T			
		TICKETS = 58.3T (USE)			

Excavation (Prop.)

End Area At Station	End Area Area	Dist.	Av. Area	Volume	Cubic Yards Excavation			6" DRIVE
0+00	40.8	50	52.4		106.3	X	LS	450
+50	73.9	40	96.2		142.5	X		188
+90	118.4	8.7	126.4		40.7	X		283
1+00	134.3	26.1	158.5		153.2	X		340
+30	182.6	17.4	180.6		116.4	X		296
+50	178.6	21.8	165.0		133.2	X		291
+25	151.3	"	145.9		117.8	X		245
2+00	140.4	21.8	140.3		113.3	X		217
+25	140.1	13.4	141.1		70.0	X		330
+40^{41}	142.0	11.3	139.5		58.4	X		378
+50	136.9	29.4	118.1		178.6	X	RS	288
+75	99.2	"	78.4		85.4	X		203
3+00	57.5	29.4	58.4		63.6	X		333
+25	59.3	31.6	68.5		80.2	X		323
+51^{92}	77.7	23.1	66.1		56.6	X		208
+75	54.5	25	49.4		45.7	X		327
4+00	44.2	50	43.0		79.6	X		307
+50	41.7	"	39.4		73.0	X		190
5+00	37.0	"	29.8		55.2	X		337
+50	22.6	"	13.5		25.0	X		304
6+00	4.3	"	2.8		5.2	X		374
+50	1.2	"	2.1		3.9	X		6,212 SF
7+00	2.9	50	3.2		5.9	X		
+50	3.4	13.2	2.4		1.2	X		
+63^{23}	1.3	10'	0.9		~~9.0~~ 0.3			
+73^{23}	0.5							
					~~1869~~ 1761.2			

SQ. FT. WK & DR. REM.

2.5x10.0 }
3.0x10.0 } 55.0 S.F.

OVERHAUL (SEE PROJ. MEMO)

1,761/3,798 x 48 x 2.64 = 58.76
x 36 x 15.84 = 264.40
x 3,714 x 31.68 = 54,554.61
$0.05 x 54,877.77 = $2,743.89

CHECK 1761/3,798 x (118,356.4 x .05)
= 2,743.89

7-10-81
SL

RET. WALL REM.
55 LF (PLAN)

Measured By	GREENE
Date	AUG82
Book No.	11-A
Finaled By	TATE

	SQ YD MANIP	TONS CEMENT		2½" BIT.	Steel	Square Yards 7" Pavement AC	Int. Cb.	C & G	Sep. Cb.	Sep. Gtr.	6" Wk.	6" Dr.	Cubic Yards Excavation	M B REP.	LG. TR. REM.	SM. TR. REM	RET. WL. REM.	WK & DR REM					Insp.	Publ.	Abstr.	Appve.
Property	2,744	58		453		2,206		1,526.9				6,212	1,761	21	1	9	55	55								
City	~	~		~		~		~				~	~	~	~	~	~	~								
Totals																										
Unit Prices																										
Total Cost																										

5/6

FILMED FROM THE BEST AVAILABLE COPY .....

TATE
AUG 82

STATEMENT OF COST

FOR CONSTRUCTION OF: ANNA ST. ~ N.L. 12TH TO S.L. 13TH

WORKING DAYS ~ OK

PROJ. NO. 472.76245.81079.000.000

P.E. $1,856.00

QUANTITIES			UNIT	CONSTRUCTION	COSTS		
PROP.	**CITY**	**TOTAL**	**PRICE**	**ITEM**	**PROP.**	**CITY**	**TOTAL**
2,206	0	2,206	9.37	SQ YDS. 7" A.C. PVMT. (5" BIT. BASE)	20,670.22	0.00	20,670.22
453		453	3.35	SQ YDS. 2½" BITUMINOUS BASE	1,517.55		1,517.55
1,527		1,527	6.00	LIN. FT. COMB. CURB & GUTTER	9,162.00		9,162.00
1,761		1,761	2.17	CU. YDS. EXCAVATION	3,821.37		3,821.37
6,212		6,212	2.65	SQ. FT. 6" DRIVE	16,461.80		16,461.80
2,744		2,744	1.00	SQ. YDS. MANIPULATION	2,744.00		2,744.00
58		58	78.39	TONS CEMENT	4,546.62		4,546.62
21		21	30.00	MAILBOXES REMOVED & REPL.	630.00		630.00
52		55	0.10	LIN. FT. RETAINING WALL REMOVED	5.50		5.50
55		55	0.35	SQ. FT. WK & DR. REMOVED	19.25		19.25
1		1	1.00	LARGE TREE REMOVED	1.00		1.00
9	0	9	0.75	SMALL TREES REMOVED	6.75	0.00	6.75
			L.S.	OVERHAUL	2,743.89		2,743.89
				SUBTOTAL	62,329.95	0.00	62,329.95
				ENGINEERING AND INSP.	6366.37	-	6366.37
				ADMINISTRATION	934.95	-	934.95
				STREET NAME SIGNS	-	53.75	53.75
				PUBLICATION	110.96	-	110.96
				ABSTRACTING	8.25	-	8.25
				CONSTRUCTION COST	69,750.48	53.75	69,804.23
				TEMP. NOTE INT.	4663.73	-	4663.73
	6/83						
				TOTAL COST	$74,414.21	$53.75	$74,467.96

6/6

FILMED FROM THE BEST AVAILABLE COPY .....