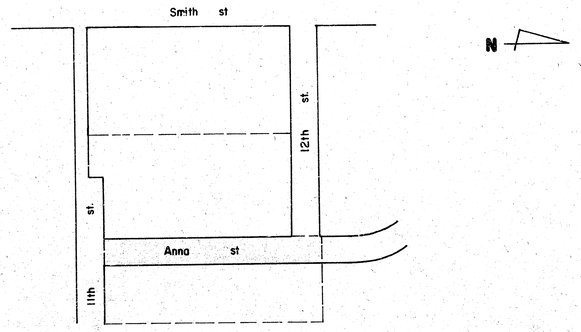
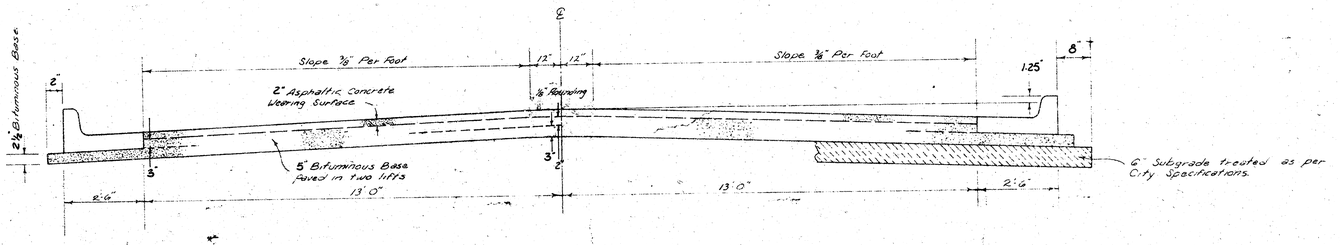
ANNA ST
from NL 11th to NL 12th



Dept. Engineering
City of Wichita, Kansas
R.W. Bruggeman Dept. Engineering / City Engineer
Proj. no. 472-76-245-80992-000-000-001
Date: _____

STEPHEN R. LACKEY LICENSED 7714 KANSAS ENGINEER

ANNA ST.

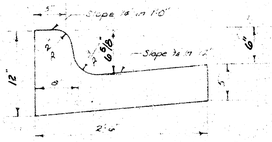


TYPICAL SECTION

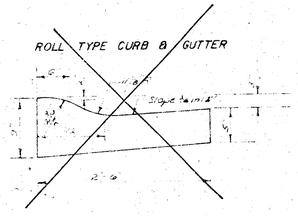
31' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

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. 2½" Bituminous Base.

COMBINED CURB & GUTTER



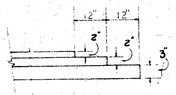
ROLL TYPE CURB & GUTTER



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.

CITY OF WICHITA, KANSAS

DEPARTMENT OF — ENGINEERING

DATE: _____

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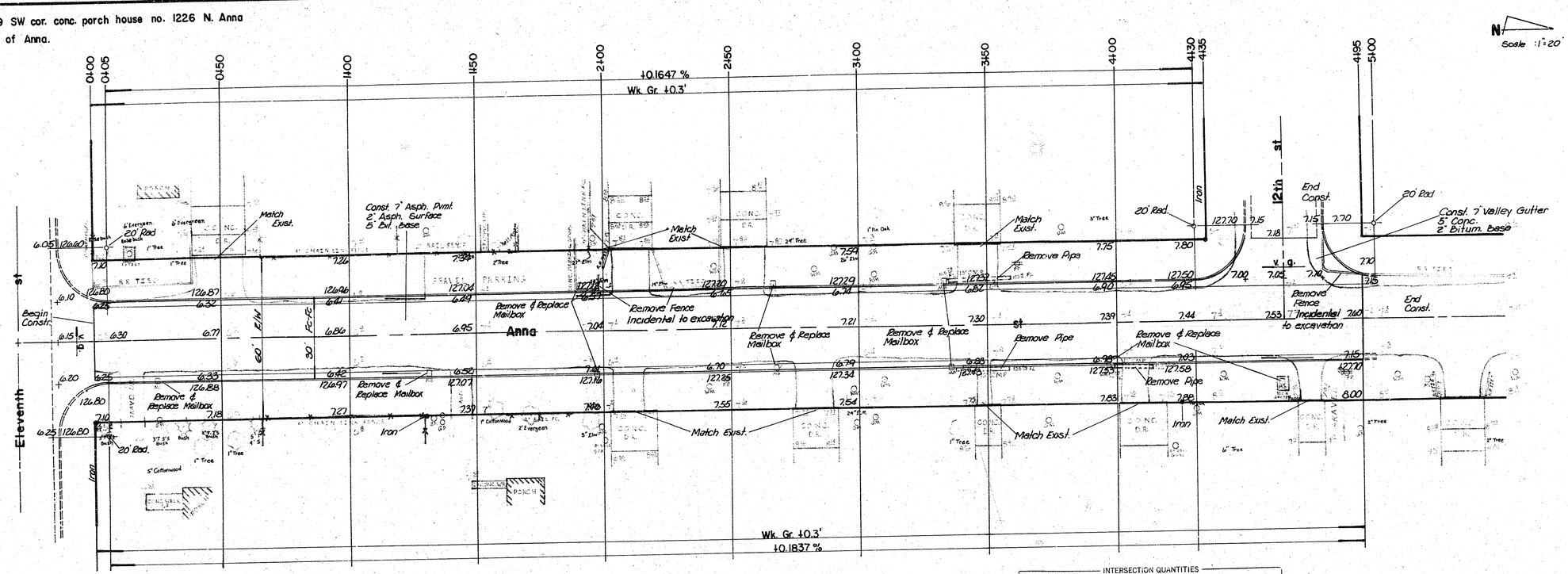
BM 129.99 SW cor. conc. porch house no. 1226 N. Anna
BL. is ℄ of Anna.



Earthwork

	City	Prop.
Excavation	14.6 cy	403.3 cy
+10%	1.5 cy	40.3 cy
Total	16.1 cy	443.6 cy
Manipulation		1670.9 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.

INTERSECTION QUANTITIES

____	S.Y. ____" Concrete Pavement
867	S.Y. 7" Asphaltic Conc. Pavement (5" Bituminous Base)
____	S.Y. ____" Bituminous Base
____	L.F. Combined Curb & Gutter
426	L.F. Integral Curb
____	S.F. 4" Wheelchair Ramp
____	S.F. 4" Walk
146	C.Y. Excavation
145	C.Y. Compacted Fill
____	Lbs. Reinforcing Steel
1741	S.Y. Manipulation
2.2	Tons Lime or Cement
843	S.Y. V.G. 5" Concrete & 2" Asphaltic Concrete Base

12-20' Drives

ANNA ST
from NL 11th st to NL 12th st.
Proj. no. 472-76-245-80992-000-000-001

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80392

Form 53-066

MEASURED QUANTITIES FOR FINAL ESTIMATES ON PAVING

STREET NAME ANNA St FROM NL 11th TO SL 12th CONTRACTOR MID-KANSAS KIND OF PAVEMENT 7" RC"/5" BIT

Sta.	Width	Dist.	Av. Width	Area	Square Yards Pavement
SQ. YDS 7" RC"/5" BIT (PROP)					
0+00	26'				
	15	495.15	26.0		
4+95	26'				
		+ 2 x 0.35			
		- 60.0 x 13.0			
		12,095.82'			1,344.0 SY
SQ YDS 7" V.G. (PROP)					
		1 x 13.58			
		13.58			1.5 SY
SQ YDS MANIP. (PROP					
		1 x 12,095.82			
		3.17 x 925.3			
		1 x 13.58			
		0.67 x 5.0			
		15,045.95'			1,671.8 SY
SQ. YDS 2½" BIT (PROP)					
		2.67 x 925.3 ÷ 9			274.5 SY
TONS CEMENT					
(33#/SY)					
CALC = 30.46					
TICKETS = 30					
PROP		1,671.8 x 33 ÷ 2,000 = 27 T			
CITY		174.1 x 33 ÷ 2,000 = 3 T			

End Area At Station	End Area Area
0+00	25.2
+50	23.1
1+00	27.5
+50	34.0
2+00	33.8
+50	36.3
3+00	12.8
+50	15.8
4+00	9.0
+35	9.7 5.8
+48.83	7.6
+81.17	10.8
+95	9.1
4+35	3.9
+48.83	6.4
+81.17	5.8
+95	5.4

Dist.	Av. Area	Volume	Cubic Yards Excavation
Excav (Prop.)			
500'	24.2		44.8
	25.3		46.9
	30.8		57.0
	33.9		62.8
	35.1		65.0
	24.6		45.6
	14.3		26.5
500'	12.4		23.0
350	9.4		12.2
13.83	6.7		2.4
32.34	9.2		11.0
13.83	10.0		5.1
	Total		403.3
Excav. (C.Y.)			
13.83	5.2	Fillet = .06	3.3
32.34	6.1		7.3
13.83	5.6	Fillet = 1.1	4.0
			14.6

6" DRIVE	
335	(12 drives)
188	
288	
306	
306	
190	
219	
307	
306	
303	
318	
233	
3,299 SF	

OVERHAUL (SEE PROJECT MEMO)
TOT OVERHAUL # = 5,917.82

418/3798 (48 x 1,320) ÷ 500 = 13.95
(36 x 7,920) ÷ 500 = 62.76
(3,714 x 15,840) ÷ 500 = 12,949.36
#0.05 x 13,026.07 = #651.30

CHECK 418/3,798 x 5,917.82 = 651.30
PROP ~ 403/418 x 651.30 = 627.93
CITY ~ 15/418 x 651.20 = 23.37

6-18-81

Measured By GREENE
Date AUG 82
Book No. 11-A
Finaled By TATE

	SQ. YDS MANIP.	TONS CEMENT	2½" BIT	7" V.G.	Square Yards 7" Pavement RC	Int. Cb.	C & G	Sep. Cb.	Sep. Gtr.	6" Wk.	6" Dr.	Cubic Yards Excavation	M B R&B	PIPE REM.
Property	1,671.8	27	274.5	1.5	1,344.0	5.0	925.3				3,299	403.3	11	60
City	174.1	3	0.0	84.3	86.7	42.6	0.0				0	14.6	0	0
Totals														
Unit Prices														
Total Cost														

Insp. Publ. Abstr. Appvd.

4/5

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Anna Street
80992 16 10 17
Sept 1984

TATE AUG 82

STATEMENT OF COST

FOR CONSTRUCTION OF: ANNA ST ~ N. 11TH TO N. 12TH

PROJ. NO. 172.76245 80992 000 000001

P.E. 55,998.88

WORKING DAYS ~ OK.

QUANTITIES PROP.	QUANTITIES CITY	QUANTITIES TOTAL	UNIT PRICE	CONSTRUCTION ITEM	COSTS 90.6% PROP.	COSTS 9.4 CITY	COSTS TOTAL
1,344	87	1,431	9.18	SQ YDS. 7" BC. PVMT. (5" BIT.)	12,337.92	798.66	13,136.58
275	0	275	3.28	SQ YDS. 2½" BIT. BASE	902.00	0.00	902.00
925	0	925	6.00	LIN. FT. COMB. CURB & GUTTER	5,550.00	0.00	5,550.00
403	15	418	0.87	CU. YDS. EXCAVATION	350.61	13.05	363.66
3,299	0	3,299	2.65	SQ. FT. 6" DRIVE	8,742.35	0.00	8,742.35
1,672	174	1,846	1.00	SQ YDS. MANIPULATION	1,672.00	174.00	1,846.00
27	3	30	78.39	TONS CEMENT	2,116.53	235.17	2,351.70
11	0	11	30.00	MAILBOXES REM & REPL.	330.00	0.00	330.00
60	0	60	2.50	LIN. FT. PIPE REMOVED	150.00	0.00	150.00
2	84	86	24.00	SQ YDS. 7" V.C. (5" CONC.-2" BIT)	48.00	2,016.00	2,064.00
5	43	48	3.70	LIN. FT. INTEGRAL CURB	18.50	159.10	177.60
			L.S.	OVERHAUL	627.93	23.37	651.30
				SUBTOTAL	32,845.84	3,419.35	36,265.19
				ENGINEERING + INSP.	5931.60	615.42	6547.02
				ADMINISTRATION	492.85	51.13	543.98
				STREET NAME SIGNS	—	40.61	40.61
				PUBLICATION	61.33	—	61.33
				ABSTRACTING	4.75	—	4.75
				CONSTRUCTION COST	39,336.37	4126.51	43,462.88
				TEMP. NOTE INT.	2630.86	272.96	2903.82
	6/83			TOTAL COST	#41,967.23	#4399.47	#46,366.70

5/5

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