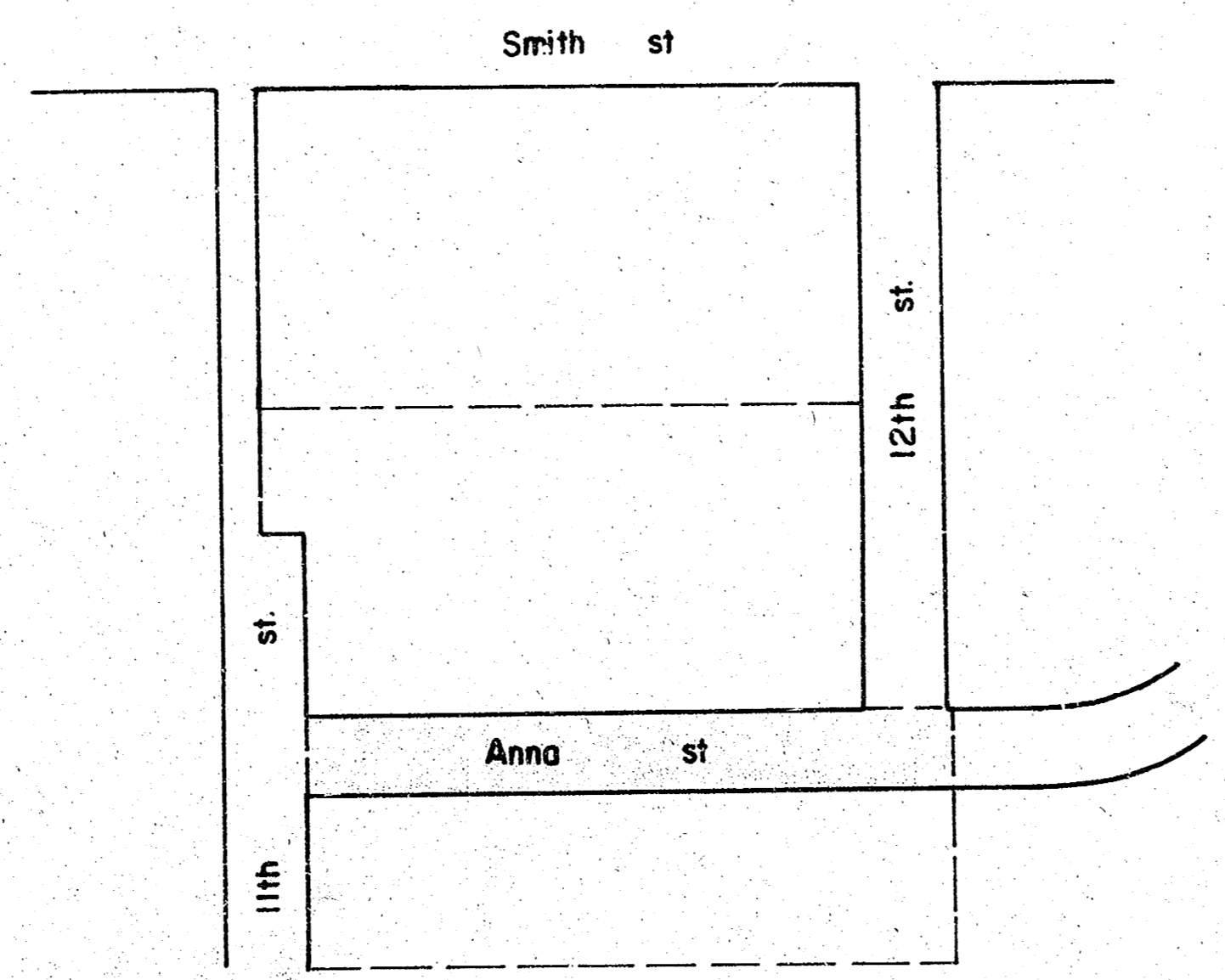
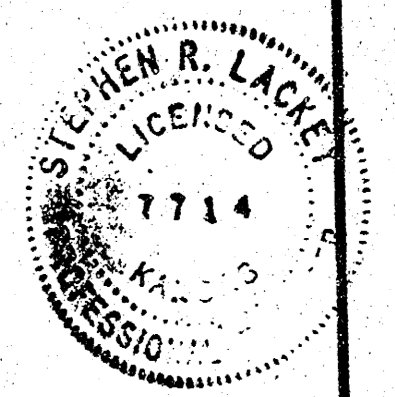


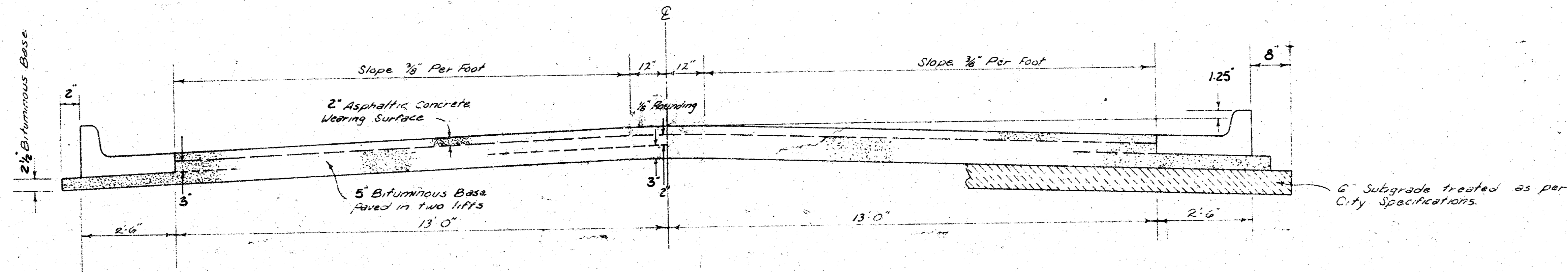
ANNA ST
from NL 11th to NL 12th



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



ANNA ST.



TYPICAL SECTION

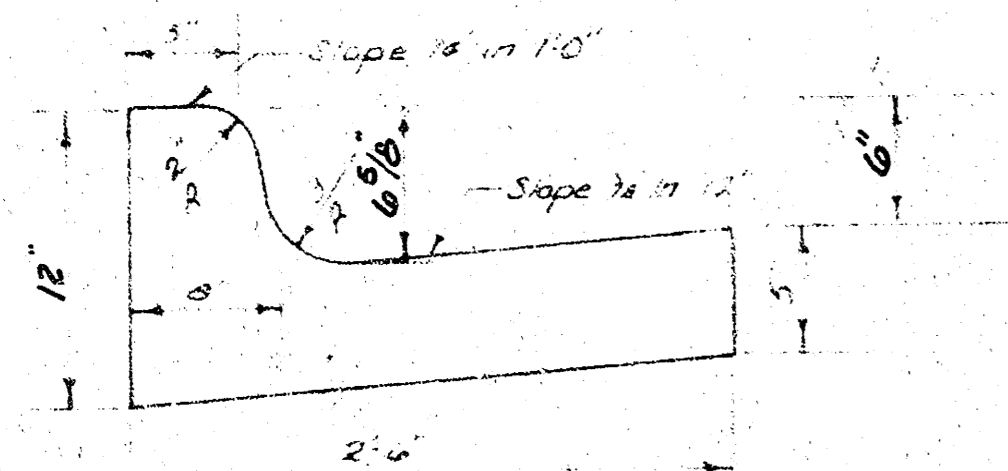
3' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

A TACK COAT OF EMULSIFIED ASPHALT (SS-IH) 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.

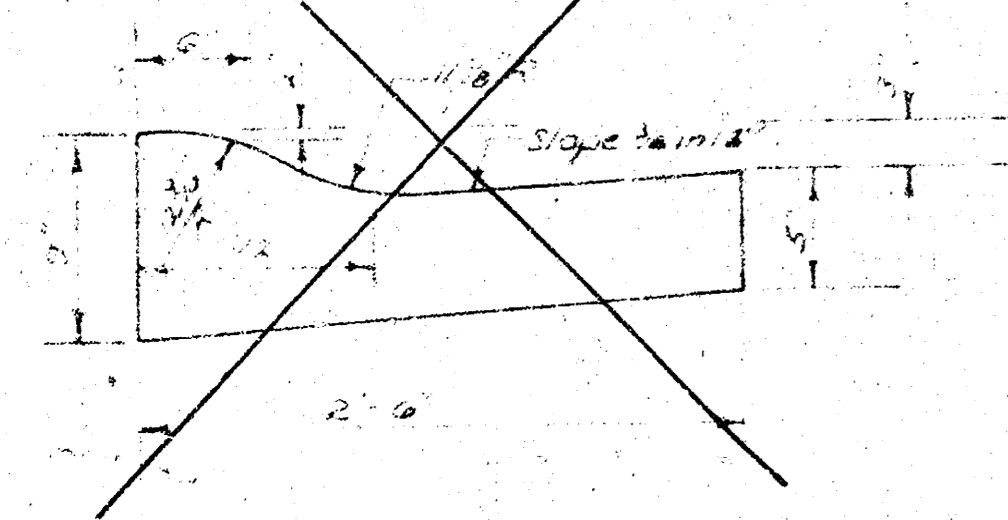
BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR CROWN AND GRADE. CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF 1' WITH JOINTS IN PRECEDING LIFTS AND SUCH THAT A JOINT WILL BE CONSTRUCTED ON THE PAVEMENT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

The A.C. pavement between the Comb. Curb & Gutter shall be paid as Sec. 7 A.C. Pavement (5 Bituminous Base). The Bituminous Base under the Comb. Curb & Gutter shall be paid as Sec. 216 Bituminous Base.

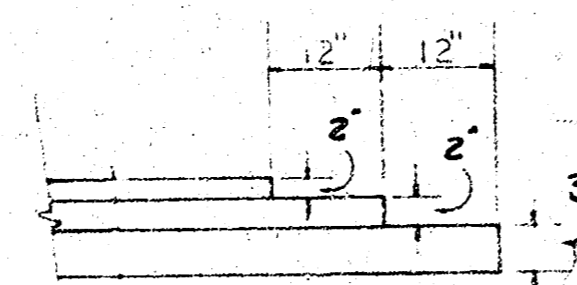
COMBINED CURB & GUTTER



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

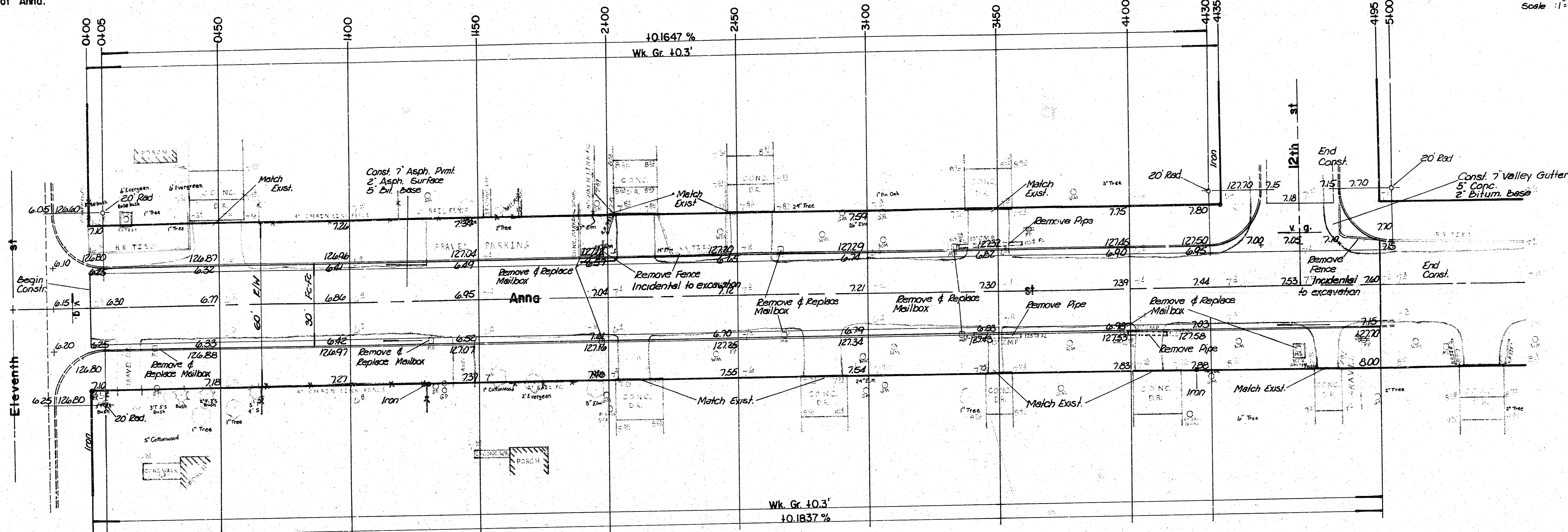
DEPARTMENT OF ENGINEERING

DATE: _____

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BM 129.99 SW cor. conc. porch house no. 1226 N. Anna
 BL is $\frac{1}{4}$ of Anna.

N
 Scale: 1" = 20'



Earthwork		
	City	Prop.
Excavation	14.6 cy	403.3 cy
110%	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
86.7	S.Y. 7" Asphaltic Conc. Pavement (5" Bituminous Base)
—	S.Y. — Bituminous Base
—	L.F. Combined Curb & Gutter
42.0	L.F. Integral Curb
—	S.F. 4" Wheelchair Ramp
—	S.F. 4" Walk
14.0	C.Y. Excavation
14.5	C.Y. Compacted Fill
—	Lbs. Reinforcing Steel
174.1	S.Y. Manipulation
2.2	Tons Lime or Cement
24.3	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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80992

MEASURED QUANTITIES FOR FINAL ESTIMATES ON PAVING

Form 18-066

STREET NAME ANNA ST FROM NL 11th TO SL 12th CONTRACTOR MID-KANSAS KIND OF PAVEMENT 7" FC 1/2" BIT

Sta.	Width	Dist.	Av. Width	Area	Square Yards Pavement	End Area		Dist.	Av. Area	Volume	Cubic Yards Excavation																																																																																																																
						At Station	Area																																																																																																																				
6" DRIVE																																																																																																																											
SQ. YDS 7" FC 1/2" BIT (PROP)						0+00	25.2						335 (12 drive)																																																																																																														
0+00	26.0					450	23.1	500	24.2	44.8	X	188																																																																																																															
4+95	26.0					1400	27.5		25.3	46.9	X	288																																																																																																															
						150	34.0		30.8	57.0	X	306																																																																																																															
						2400	33.8		33.9	62.8	X	306																																																																																																															
						150	36.3		35.1	65.0	X	190																																																																																																															
						150	36.3		24.6	45.6	X	219																																																																																																															
SQ. YDS 7" V.G. (PROP)						3400	12.8		14.3	26.5	X	307																																																																																																															
						450	15.8	500	12.4	23.0	X	306																																																																																																															
						4400	9.0		35.0	9.4	X	303																																																																																																															
						1358	1.5 SY		13.58	9.7	X	318																																																																																																															
SQ. YDS MANIP. (PROP)						14883	7.6	1383	6.7	2.4	X	233																																																																																																															
						18117	10.8	3234	9.2	11.0	X	3299 SF																																																																																																															
						195	9.1	1383	10.0	5.1	X																																																																																																																
								Total		4033																																																																																																																	
OVERHAUL (SEE PROJECT MEMO)																																																																																																																											
TOT OVERHAUL # = 5,917.82																																																																																																																											
						418	37.98	$(48 \times 1,320) \div 500 = 13.95$ $(36 \times 7,920) \div 500 = 62.76$ $(3,714 \times 15,840) \div 500 = 12,949.36$																																																																																																																			
								# 0.05 X 13,026.07 = # 651.30																																																																																																																			
								CHECK $\frac{418}{37.98} \times 5,917.82 = 651.30$																																																																																																																			
								PROP ~ $\frac{403}{418} \times 651.30 = 627.93$																																																																																																																			
								CITY ~ $\frac{15}{418} \times 651.30 = 23.37$																																																																																																																			
TONS CEMENT																																																																																																																											
(33#) CEMENT																																																																																																																											
CFLC = 30.46																																																																																																																											
TICKETS = 30																																																																																																																											
PROP 1,671.8 X 33 = 2,000 = 27 T																																																																																																																											
CITY 174.1 X 33 = 2,000 = 3 T																																																																																																																											
<table border="1"> <tr> <td>NO. MANIP.</td> <td>TONS CEMENT</td> <td>2 1/2" BIT</td> <td>7" V.G.</td> <td>Square Yards 7" Pavement</td> <td>Int. Ch.</td> <td>C & G</td> <td>Sep. Ch.</td> <td>Sep. Gr.</td> <td>6" Wk.</td> <td>6" Dr.</td> <td>Cubic Yards Excavation</td> <td>MB REP.</td> <td>PIPE REP.</td> <td>Insp.</td> <td>Publ.</td> <td>Abstr.</td> <td>Appro.</td> </tr> <tr> <td>Property</td> <td>1,671.8</td> <td>27</td> <td>274.5</td> <td>1.5</td> <td>1,344.0</td> <td>5.0</td> <td>925.3</td> <td></td> <td></td> <td></td> <td>3,299</td> <td>403.3</td> <td>11</td> <td>60</td> <td></td> <td></td> <td></td> </tr> <tr> <td>City</td> <td>174.1</td> <td>3</td> <td>0.0</td> <td>84.3</td> <td>86.7</td> <td>42.6</td> <td>0.0</td> <td></td> <td></td> <td></td> <td>0</td> <td>14.6</td> <td>0</td> <td>0</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Totals</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Unit Prices</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total Cost</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>													NO. MANIP.	TONS CEMENT	2 1/2" BIT	7" V.G.	Square Yards 7" Pavement	Int. Ch.	C & G	Sep. Ch.	Sep. Gr.	6" Wk.	6" Dr.	Cubic Yards Excavation	MB REP.	PIPE REP.	Insp.	Publ.	Abstr.	Appro.	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																		
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Measured By GREENE
 Date AUG 82
 Book No. 11-A
 Finished By TATE

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*Divia Street
80332 16 10 17
1-15-83
Final Cost
Final Estimate*

TATE RUG 82		STATEMENT OF COST				PROJ. NO. 412 76 245 80892 000 00001		P.E. 55,998.88
		FOR CONSTRUCTION OF: BUNN ST ~ N. 11TH TO N. 12TH						
		WORKING DEVS ~ OK						
QUANTITIES			UNIT	CONSTRUCTION	COSTS			
PROP.	CITY	TOTAL	PRICE	ITEM	90.4 PROP.	9.4 CITY	TOTAL	
1244	87	1,431	9.18	SQ YDS 7" RC PMT (5" BIT)	12,337.92	798.66	13,136.58	
275	0	275	3.28	SQ YDS 2 1/2" 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	
3289	0	3,289	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	2	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.G. (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	618.42	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	4,126.51	43,462.88	
				TEMP. NOTE INT.	2630.86	272.96	2903.82	
				TOTAL COST	41,967.23	4,399.47	46,366.70	

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