

LONGFORD
S. E. LINE BLUESTEM TO E. COR. LT. 4, BLK. 6
& S. COR. LT. 24, BLK. 1, CEDAR RIDGE 2ND

LONGFORD COURT
N. E. LINE LONGFORD TO & INCLD. CUL-DE-SAC

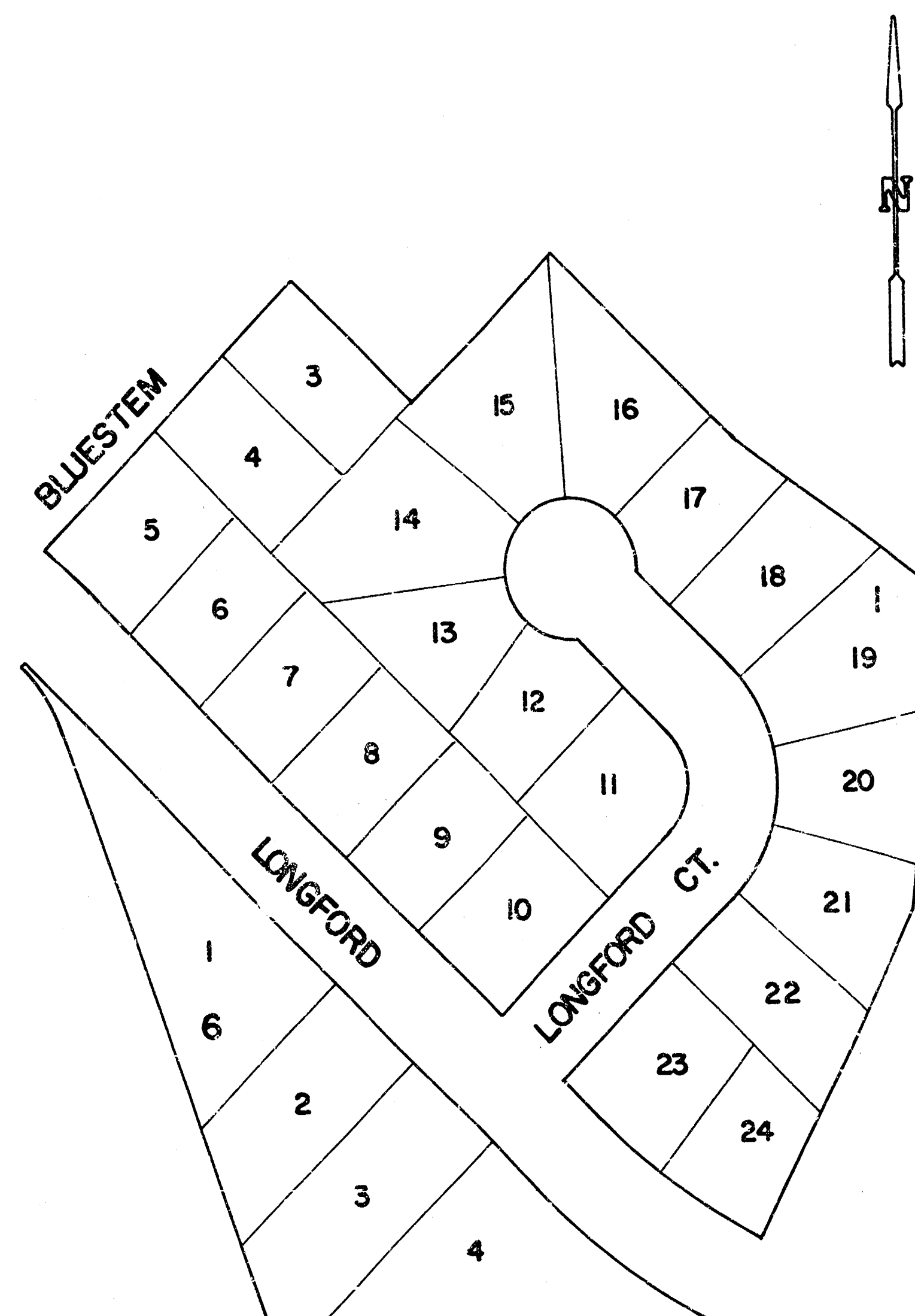
CITY OF WICHITA, KANSAS

DEPARTMENT OF ENGINEERING

R. W. BRUGGEMAN

DIRECTOR OF ENGINEERING/CITY ENGINEER

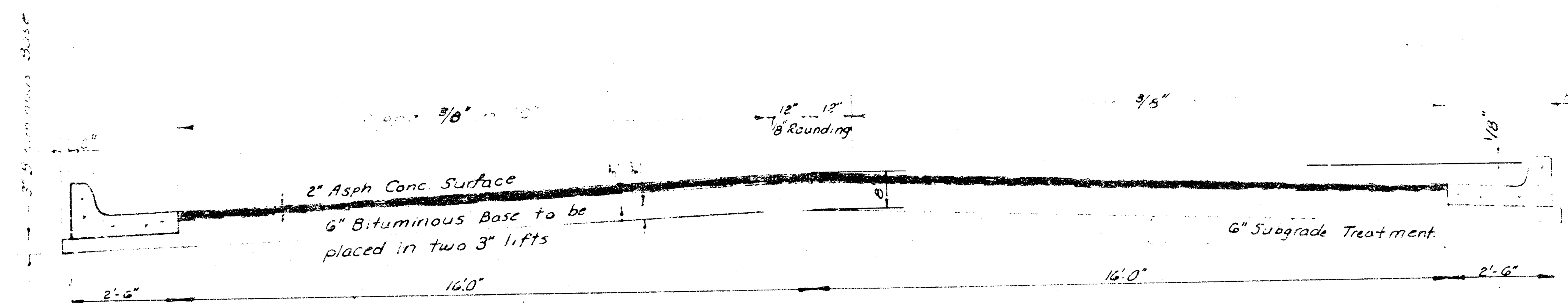
DATE: PROJ. NO. 472 76 245 81085 000 000 001



Manipulation = 5,305 S.Y.



LONGFORD
S. E. LINE BLUESTEM TO E. COR. LT. 4, BLK. 6
& S. COR. LT. 24, BLK. 1, CEDAR RIDGE 2ND.



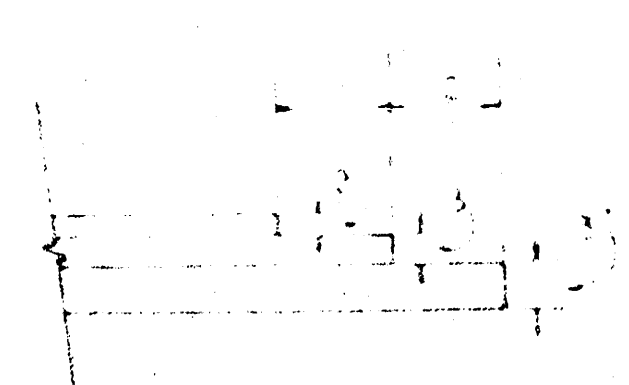
TYPICAL SECTION

37' ASPHALTIC CONCRETE PAVEMENT WITH 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.

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.

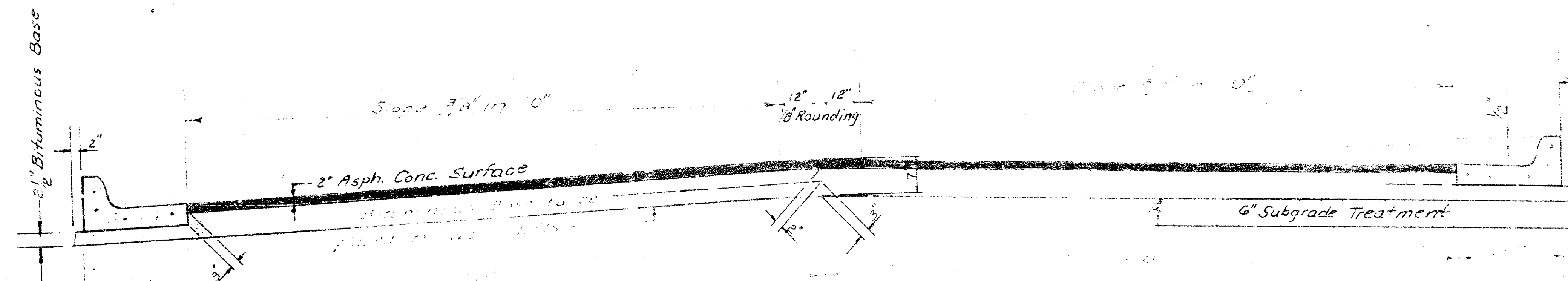
CITY OF WICHITA KANSAS
DEPARTMENT OF ENGINEERING

R. W. BRUGGEMAN
DIRECTOR OF ENGINEERING/CITY ENGINEER

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LONGFORD CT.
N.E. LINE LONGFORD TO & INCLD. CUL-DE-SAC

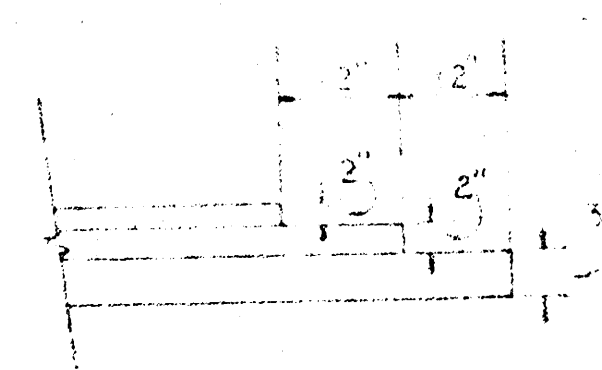


TYPICAL SECTION

35' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

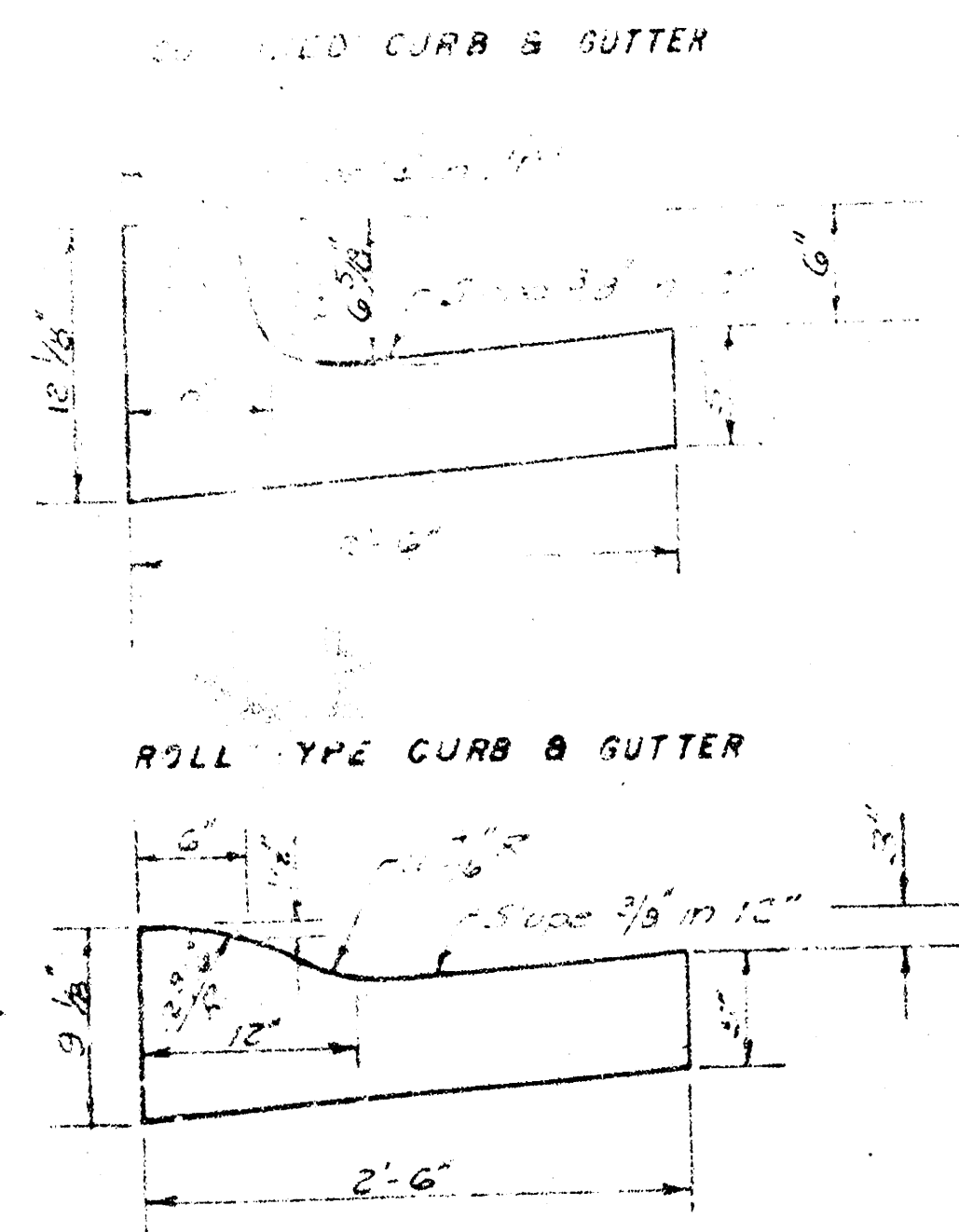
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DETAIL OF TRANSVERSE CONSTRUCTION JOINTS



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The bid for the work shown on this plan shall be paid as follows: 75% for the 2" Asphalt Surface, 25% for the 6" Subgrade Treatment, and 25% for the 2" Bituminous Base. The Bituminous Base shall be paid as follows: 25% for the Bituminous Base, 25% for the Bituminous Base, and 25% for the Bituminous Base.



CITY OF WICHITA KANSAS
DEPARTMENT OF ENGINEERING

R. W. BRUGGEMAN
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BM = 160.76 ~ "d" Cut Top S. Cb. Longford, 100'± W. of W. L. Bluestem.
 BM = 169.52 ~ R.R. Spk. S. W. Pl. HLP N. E. Cor. 1st. Vernon & Cypress.

15 E LONGFORD & E LONGFORD EXTENDED WEST.

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, SUB-GRADE MODIFICATION, OR ANY COMBINATION OF THESE.

Scale: 1"=20'

LONGFORD

LONGFORD

BLUESTEM

0+04.50
0+09.50
0+50.00
1+00
1+50
2+00
2+50
3+00
3+25
3+50
4+00
4+59.50
4+74.50
5+05.50
5+38.50
5+53.50
5+79.50 PC

EARTHWORK

	EXCAVATION	COMP. FILL 90%
X-SECTION	5,669.1 CY.	58.9 CY.
10%	567.0 CY.	5.9 CY.
TOTAL	6,236.1 CY.	64.8 CY.

Note: Contractor to coordinate work with sewer contractors.

Note: Trees to be removed are marked thus except that any tree marked for removal which in the opinion of the Engineer can be saved shall be spared.

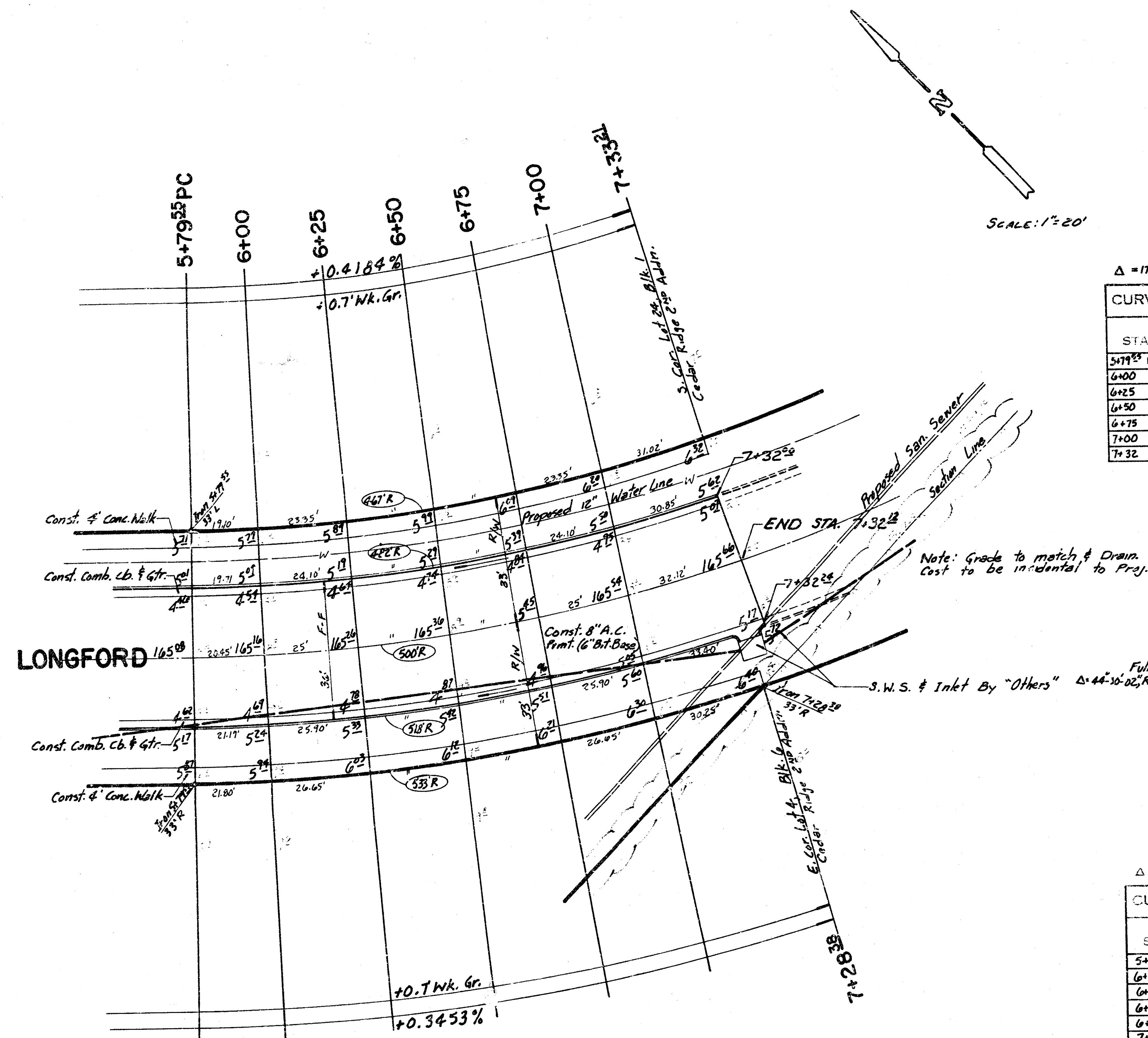
Note: Const. not more than 23-20' Drives.

Note: Lime application rate = 25#/s.y.
 Preheater Fines application rate = 35#/s.y.

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$\Delta = 17^\circ 28' 10''$, $R = 500.00'$, $T = 76.82'$, $L = 152.45'$, $LC = 151.86'$

CURVE DATA BASED ON E RAD $\Delta = 8^\circ 46' 05''$

STA.	ARC.	CHORD LENGTH		DEFLECTION	
		OFF _CB	OFF _CB	DEFLECTION	DEFLECTION
5+79.33 PC				0° 00' 00"	0° 00' 00"
6+00	20.45'	19.39'		1° 10' 18"	1° 10' 18"
6+25	25'	23.70'		1° 25' 57"	2° 36' 15"
6+50	"	"		1° 25' 56"	4° 02' 11"
6+75	"	"		1° 25' 57"	5° 28' 08"
7+00	25'	23.70'		1° 25' 57"	6° 54' 05"
7+32.32	32'	30.33'		1° 49' 40"	8° 44' 05"

Defl./Ft. = 3.43774 Min.

INTERSECTION QUANTITIES

S.Y.	"	Concrete Pavement
155	S.Y.	8" Asphalt Concrete Pavement (6" Bituminous Base)
20	S.Y.	3" Bituminous Base
96	L.F.	Combined Curb & Gutter
	L.F.	Integral Curb
	S.F.	4" Bituminous Ramp
	S.F.	4" Walk
	C.Y.	Fill
	C.Y.	Concrete Fill
	Lbs.	Reinforcing Steel
170	S.Y.	Municipal Solid
3	Tons	Lime or Cement
S.Y.	V.G.	Concrete & Asphalt Concrete Base

$\Delta = 17^\circ 28' 10''$, $R = 500.00'$, $T = 76.82'$, $L = 152.45'$, $LC = 151.86'$

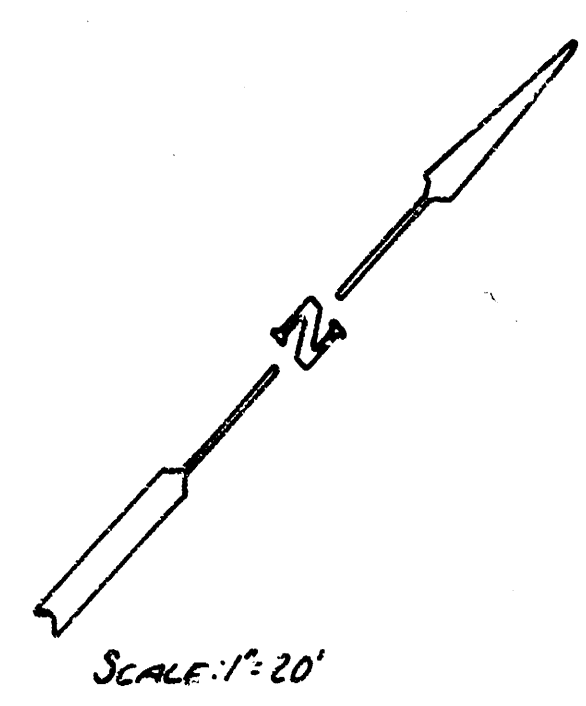
CURVE DATA BASED ON E RAD $\Delta = 8^\circ 46' 05''$

STA.	ARC.	CHORD LENGTH		DEFLECTION	
		OFF _CB	OFF _CB	DEFLECTION	DEFLECTION
5+79.33 PC				0° 00' 00"	0° 00' 00"
6+00	20.45'	21.51'		1° 10' 18"	1° 10' 18"
6+25	25'	26.90'		1° 25' 57"	2° 36' 15"
6+50	"	"		1° 25' 56"	4° 02' 11"
6+75	"	"		1° 25' 57"	5° 28' 08"
7+00	25'	26.90'		1° 25' 57"	6° 54' 05"
7+32.32	32.24'	33.91'		1° 49' 40"	8° 44' 05"

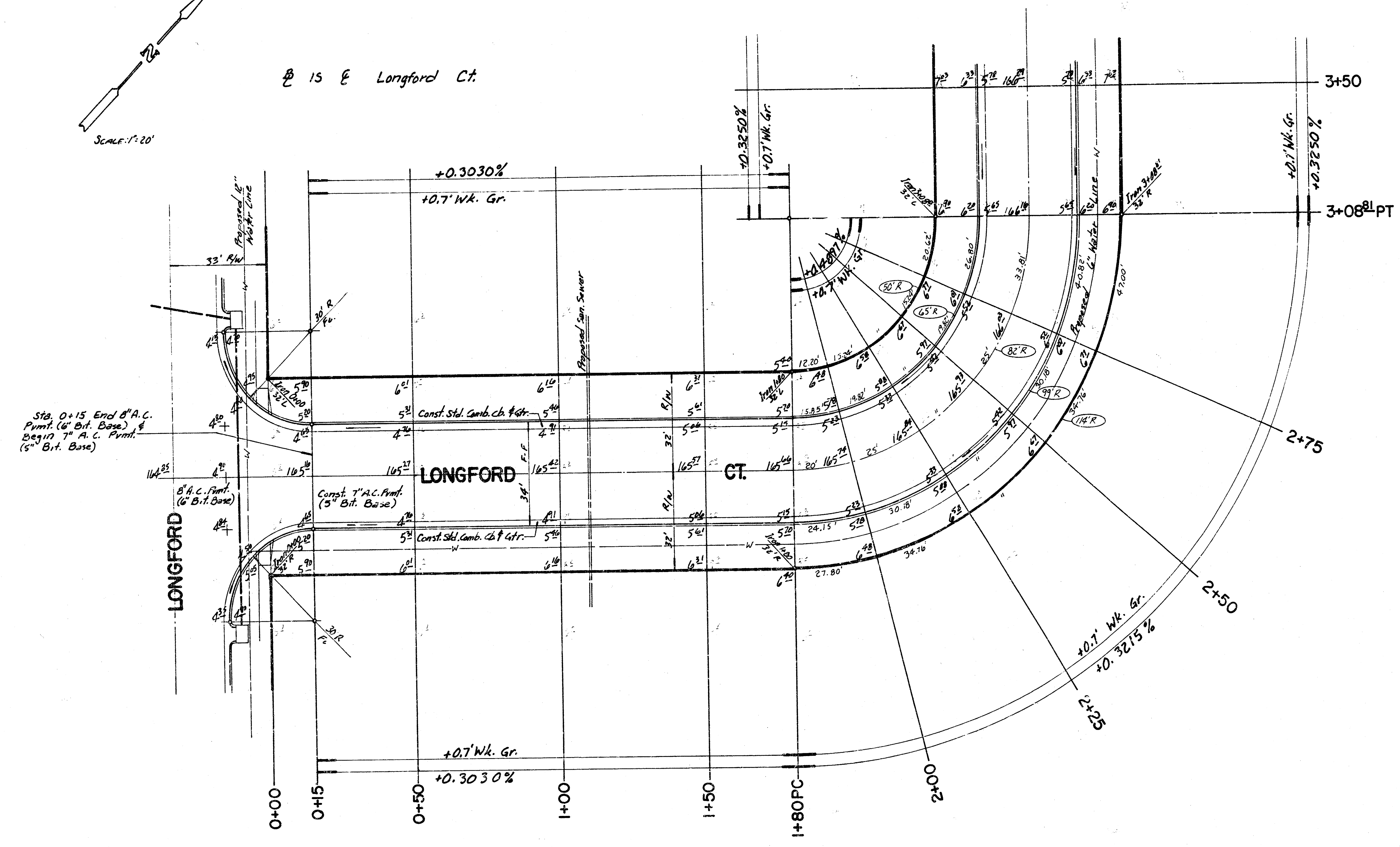
Defl./Ft. = 3.43774 Min.

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B is E Longford Ct.



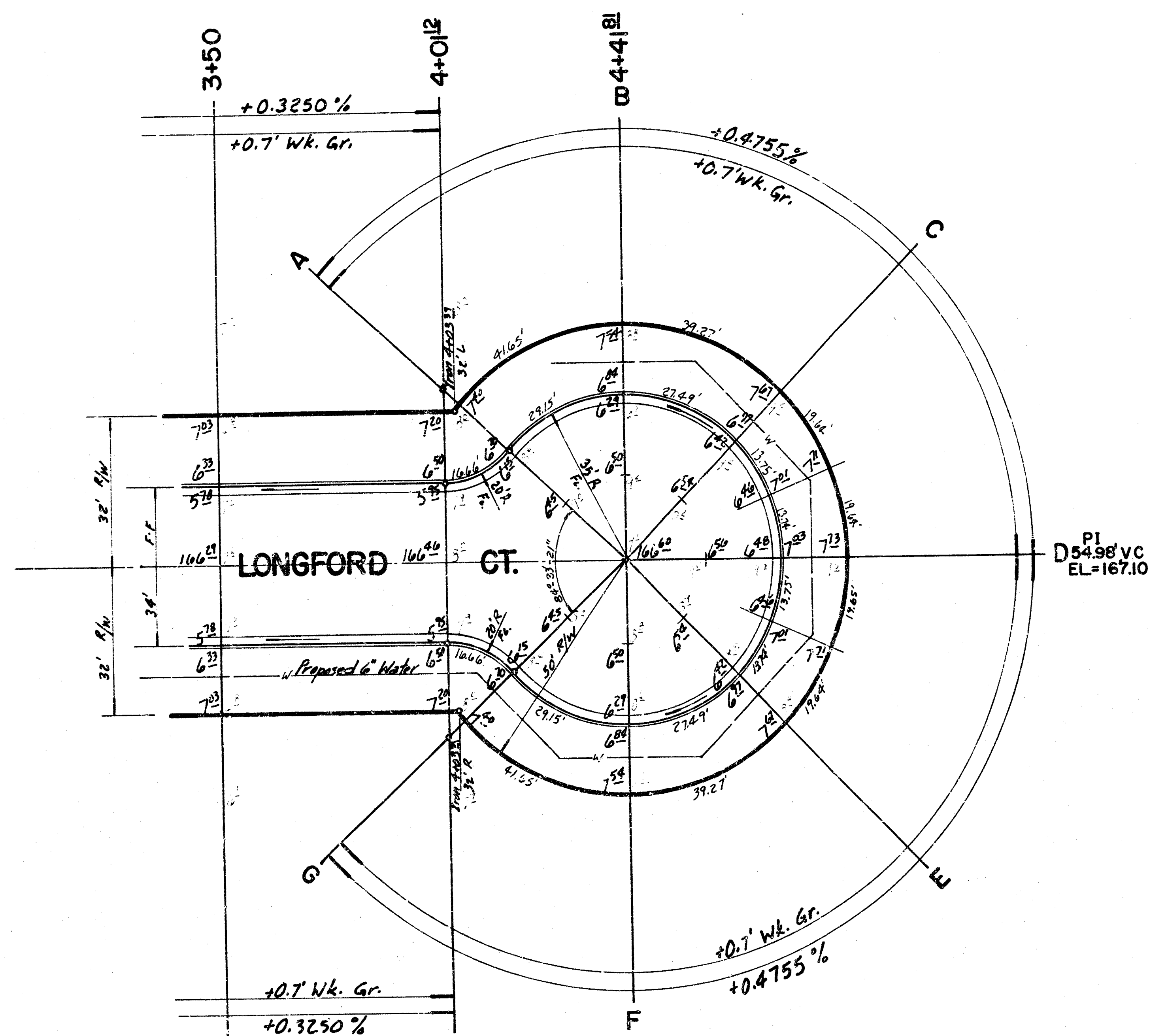
$\Delta = 90^\circ - 00'00''$ $R = 82.00'$ $T = 82.00'$ $L = 128.81'$ $LC = 115.97'$

CURVE DATA BASE					
STA	PC	PT	PI	TS	TE
1+80 PC	—	—	—	0+00+00	0+00+00
2+00	20'	15.87'	26.03'	0+00+00	0+00+00
2+25	25'	17.51'	32.50'	0+00+00	0+00+00
2+50	"	"	"	0+00+00	0+00+00
2+75	25'	17.51'	32.50'	0+00+00	0+00+00
3+08 PT	33.81'	23.36'	43.81'	0+00+00	0+00+00

Defl./Ft. = 20.96111 Min.

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MEASURED QUANTITIES FOR FINAL ESTIMATES ON PAVING

Exptl 192-066

CONTRACTOR ALTIMORE PAVING KIND OF PAVEMENT

STREET NAME	FROM										TO										CONTRACTOR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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	Sta.	Width	Dist.	Av. Width	Area	Square Yards Pavement	End Area		Dist.	Av. Area	Volume	Cubic Yards Excavation	SE 4" CONC. DRIVEWAY		TOT. SF 4" WALK																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Project No. _____

Form 192-066

STREET NAME		FROM		TO		End Area		Cubic Yards	
Sta.	Width	Dist.	Av. Width	Area	Square Yards	At Station	Area	Dist.	Av. Area
50.00	30.0	115.5	31.15	3518.21					
40.00	30.0	40.1	30.0						
40.00	30.0	40.7	30.0						
		15.7	33.0						
		27.3	30.0	673.0					
		27.2	28.0	672.5					
		17.0	19.0	673.7					
		17.3	19.0	675.1					
		13.7	26.471	1755.23					
50.00	30.0	115.5	31.15	3518.21					
		3.17	1004.8						
		18.9	1004.8	2109.1					
50.00	30.0	115.5	31.15	3518.21					
		2.67	1004.8	238.1					
Measured By: <u>PRM</u> Date: <u>12-12-10</u> Book No.: <u>12-T</u> Drawn By: <u>TRT</u>									
Eng. Est. :									
Property:									
City:									
Totals:									

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16 17 29
 2100
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STATEMENT OF COST			PROJ. NO. 47276 245 81085 000 000 001		P.E.
FOR CONSTRUCTION OF: LONGFORD LANE & LONGFORD CT. IN CEDAR RIDGE 2ND					171,692.73
WORKING DAYS ~ OK					
QUANTITIES			COSTS		
PROP.	CITY	TOTAL	UNIT PRICE	CONSTRUCTION ITEM	TOTAL
		2,645'	13.34'	SQ. YDS. 8" RC. PVMT. (6" BIT)	35,337.66
		1,755'	12.71'	SQ. YDS. 7" RC. PVMT. (5" BIT)	22,306.05
		438'	4.75'	SQ. YDS. 3" BIT. BASE	2,080.50
		298'	4.65'	SQ. YDS. 2 1/2" BIT. BASE	1,385.70
		2,481'	6.19'	LIN. FT. COMB. CURB & GUTTER	15,357.39
		5,669'	1.25'	CU. YDS. EXCAVATION	7,086.25
5.271	220	5,521'	1.75'	SQ. FT. 4" WALK	9,784.25
	157	157'	3.00'	SQ. FT. W.C.R.	471.00
		59'	0.90'	CU. YDS. COMP. FILL (90%)	53.10
		5,280'	1.35'	SQ. YDS. MANIPULATION	7,128.00
		4'	50.00'	INLET HOOK-UPS	200.00
		0'	60.00'	SMALL TREE REMOVED	0.00
		37'	1.00'	SAWED JOINT (LIN. FT.)	37.00
		23'	3.50'	SQ. YDS. PVMT. REMOVED	80.50
		20'	3.00'	LIN. FT. COMB. C&G REMOVED	60.00
		0'	2.50'	LIN. FT. INTEGRAL CURB REM.	0.00
		74'	42.00'	TONS. PRE-HEATER FINES	3,108.00
		1'	L.S.	CHANGE ORDER #1	2,200.00
		1'	L.S.	CHANGE ORDER #2	100.00
				SUBTOTALS	98,294.31
				ENGINEERING + INSP.	8,842.20
				ADMINISTRATION	1,443.90
				PUBLICATION	125.76
				ABSTRACTING	6.50
				CONSTRUCTION COST	108,712.67
		6/83		TEMP. NOTE JNT.	6,535.21
				TOTAL COST	115,247.88
					9,923.96
					125,171.84

FORM 132-202 MARCH 81

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