

STREET IMPROVEMENTS FOR THE NETT PARK ADDITION

YELLOWSTONE: FROM THE EAST LINE OF MAIZE ROAD TO THE WEST LINE OF YOSEMITE
YELLOWSTONE COURT: FROM THE NORTH LINE OF YELLOWSTONE TO AND INCLUDING CUL-DE-SAC
YELLOWSTONE COURT: FROM THE SOUTH LINE OF YELLOWSTONE TO AND INCLUDING CUL-DE-SAC

PROJECT NUMBER

472-76-245-81615-000-000-001

THE CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK
CITY ENGINEER

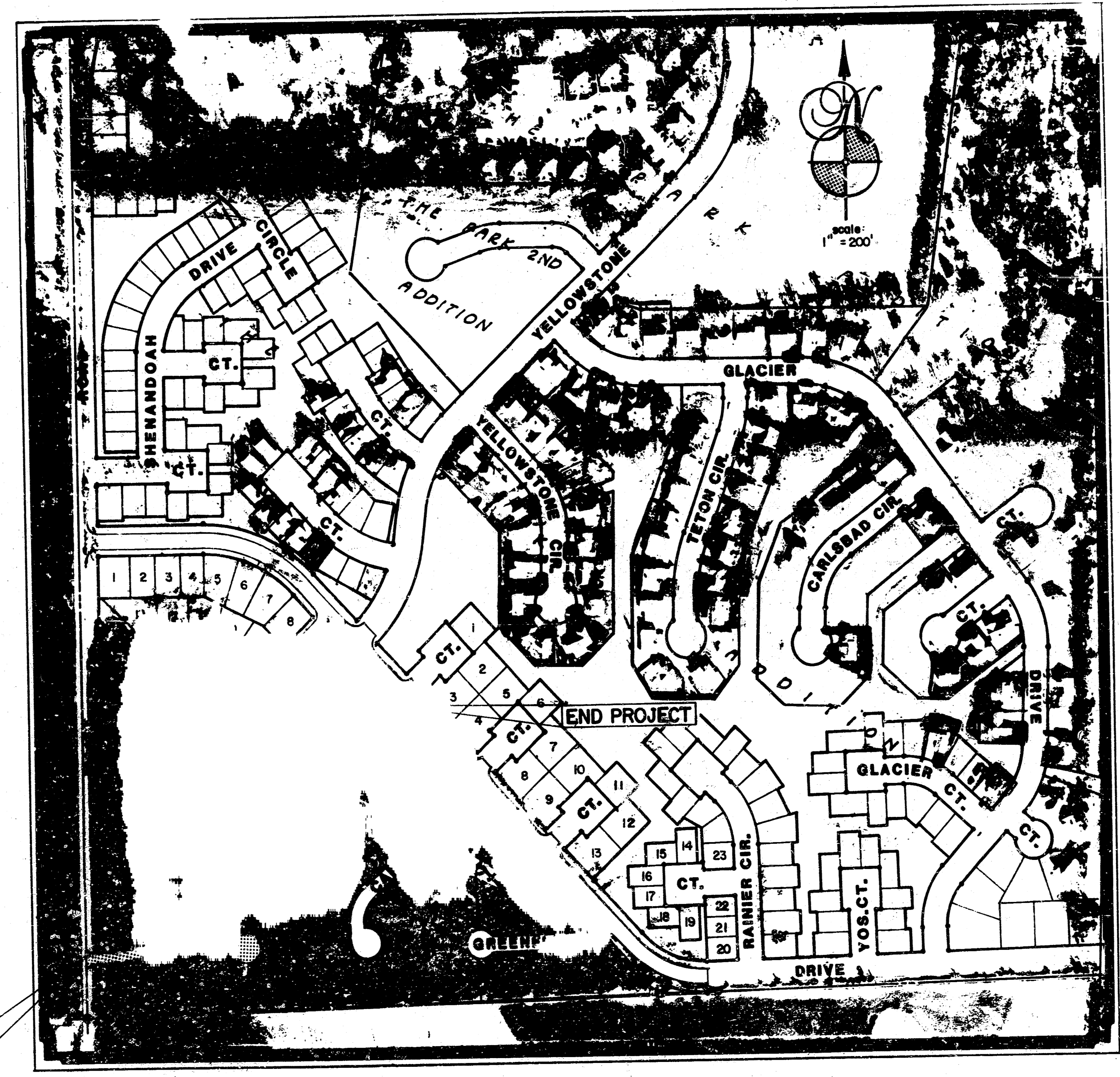
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BENCHMARKS

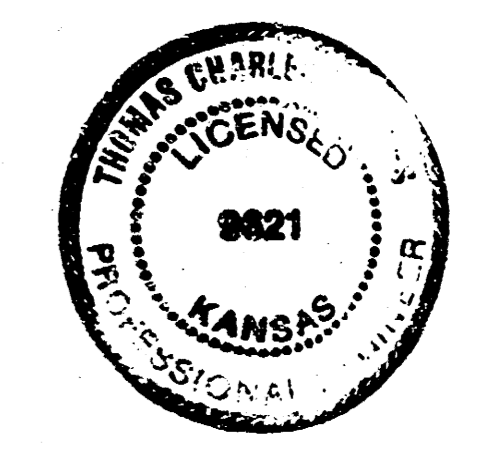
Bench Mark 1 City of Wichita Disc, Maize Rd and 27th St. South, 25' east and 4' south of Quarter Sec. Corner. Elev. 145.64 City Datum

Bench Mark 2 6" Cut Top of Curb North end of Existing Northwest Curb Return @ Yosemite Dr. and Yellowstone Elev. 139.88 City Datum



GENERAL NOTES

1. Utility service lines, poles, valve boxes, meters, and etcetera are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
2. This project includes a certain amount of roll type curb construction. Roll Curbs shall be depressed through all driveway openings when such drives are constructed as a part of the project. No more than 1/2 drives 12 feet in width, or equivalent combinations thereof, are to be constructed with this project.
3. The Contractor shall be responsible for preserving property irons. The Contractor will 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 in accordance with state laws.



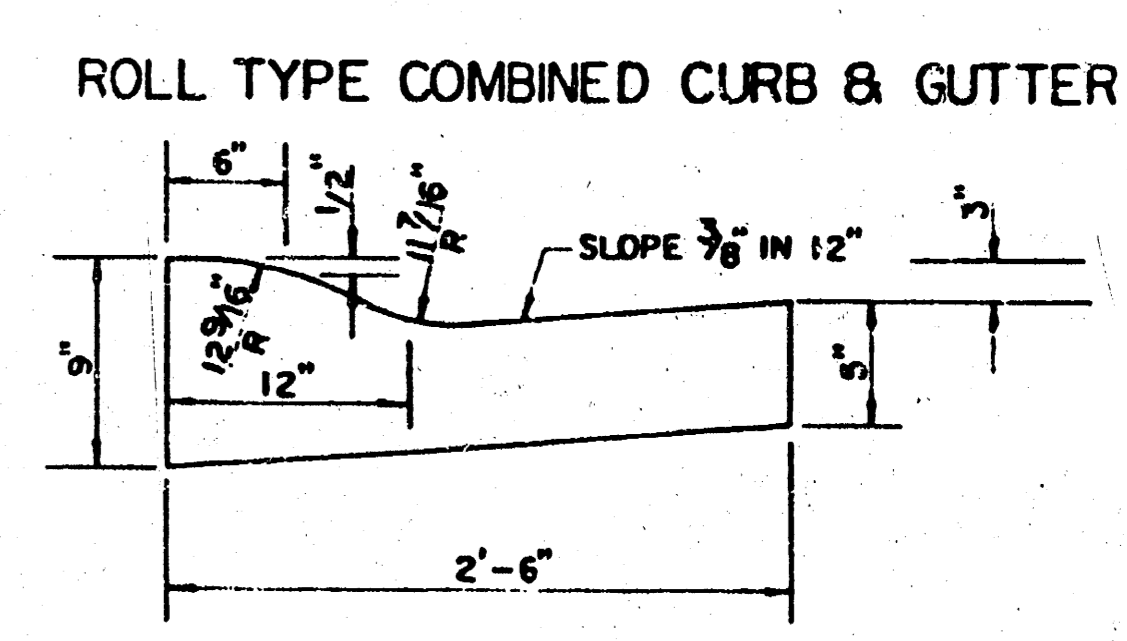
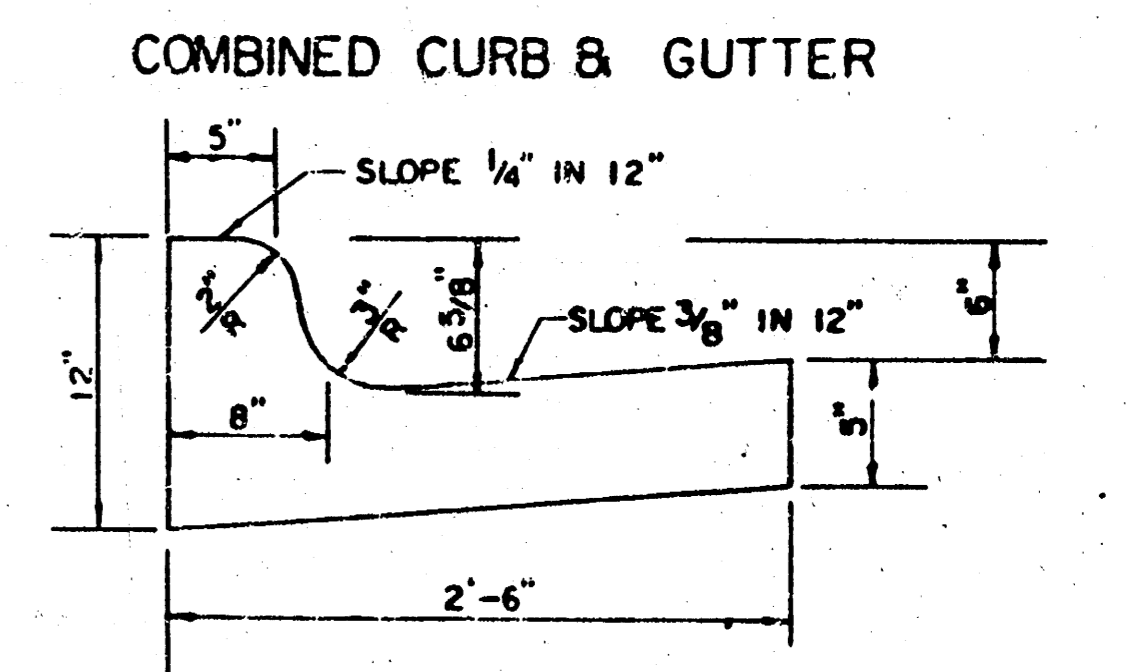
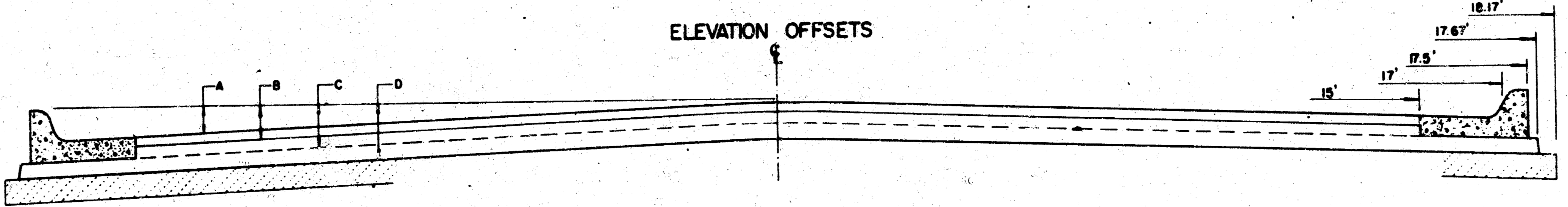
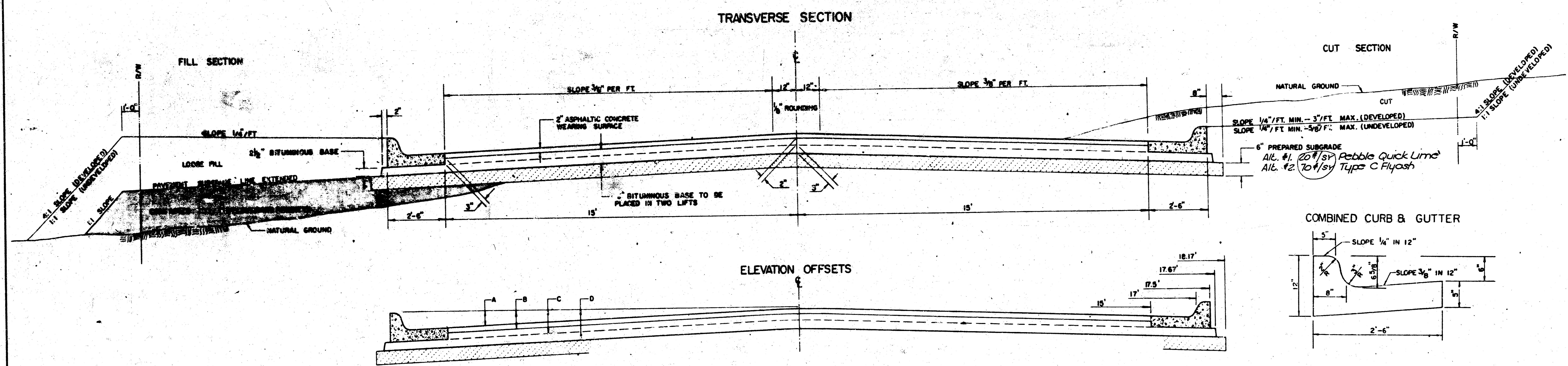
June 20, 1986

PHASE TWO
 BENEFIT DISTRICT ———

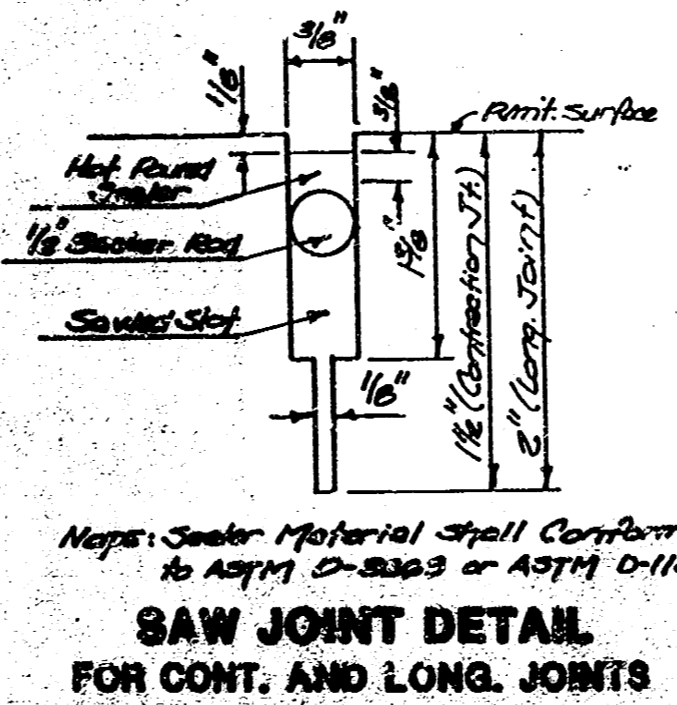
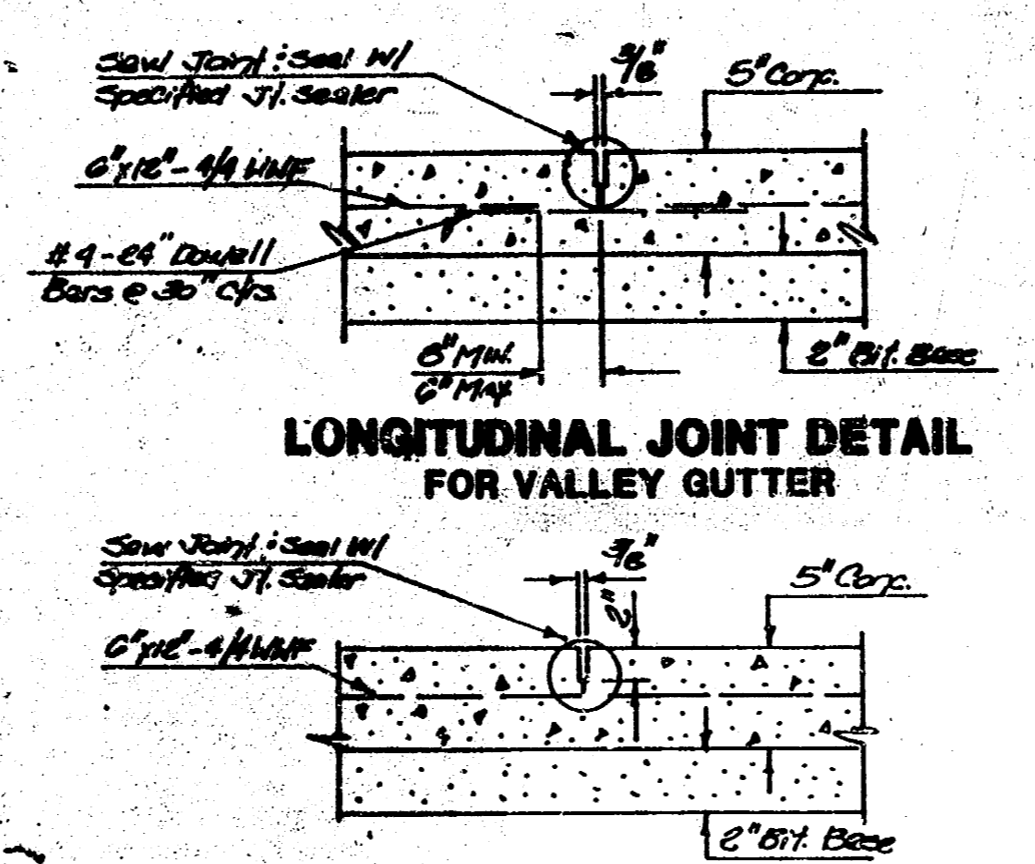
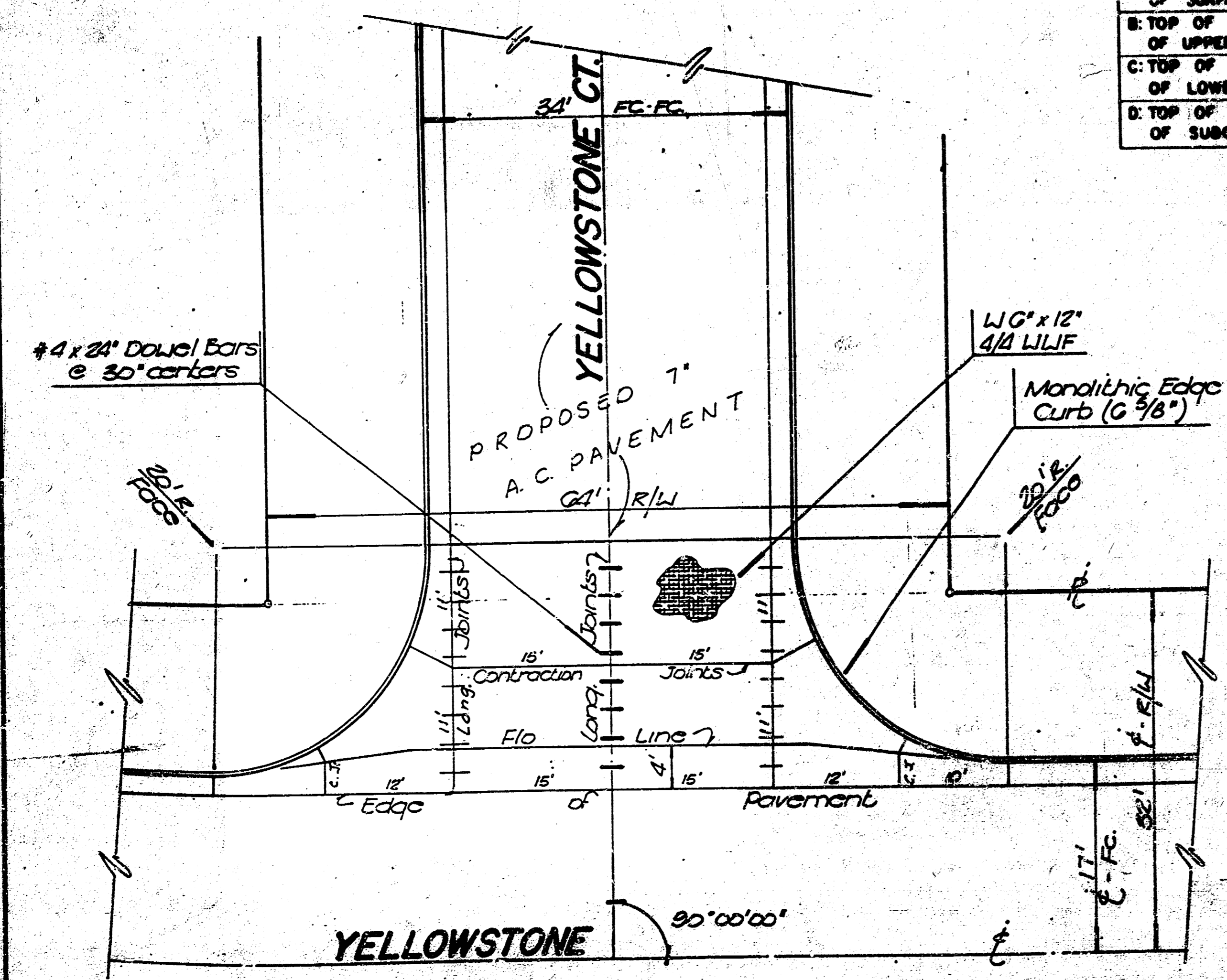
· TITLE SHEET ·	
BAUGHMAN COMPANY, P.A. SURVEYING & ENGINEERING 316262-7271 • 315 ELLIS • WICHITA, KANSAS 67211	
Prep'd: C. Bohm	Drawn: R. J. Plush
Approved: T. Ruggles	Date: _____
Scale: 1" = 200'	SHEET: 1 OF 9

s/c 5'89

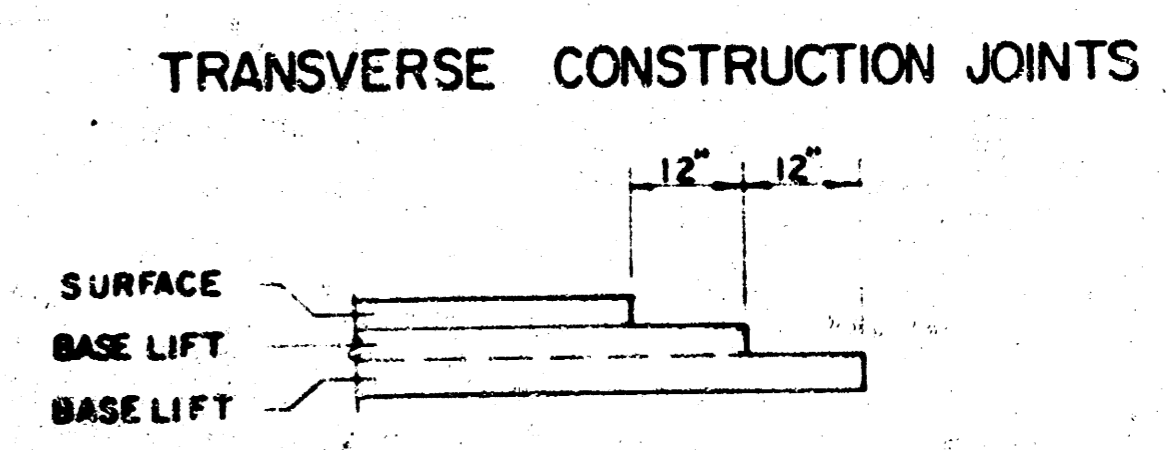
TYPICAL 35' PAVEMENT DETAILS



	DISTANCE FROM CENTERLINE (LT. & RT.)													
	0'	2'	4'	6'	8'	10'	12'	14'	16'	18'	19'	17.5'	17.67'	18.17'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.04	0.08	0.14	0.21	0.29	0.33	0.39	0.46	0.49	—	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.21	0.25	0.31	0.37	0.45	0.50	0.56	0.62	0.65	—	—	—	—	—
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.37	0.43	0.50	0.57	0.67	0.72	0.79	0.87	0.90	0.98	1.00	1.00	—	—
D: TOP OF CURBS TO TOP OF SUBGRADE	0.62	0.67	0.74	0.81	0.90	0.95	1.02	1.08	1.12	1.18	1.21	1.21	1.23	—



- GENERAL NOTES**
- 1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).
 - 2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 2 1/2" BITUMINOUS BASE.
 - 3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.
 - 4) BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.
 - 5) CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PREVIOUS LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.
 - 6) CONTRACTOR TO BID ONLY ONE SUBGRADE TREATMENT ALTERNATE WHEN ALTERNATES ARE PROVIDED IN THE PROPOSAL AND CONTRACT. THE ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED IN CONSTRUCTING THIS PROJECT.



TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT IS ON EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE ATTACHED. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).

7 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 5 INCH BITUMINOUS BASE
 CITY OF WICHITA, KANSAS
 PROJECT NUMBER 472-76-245-81615-000-000-001
 2
 9

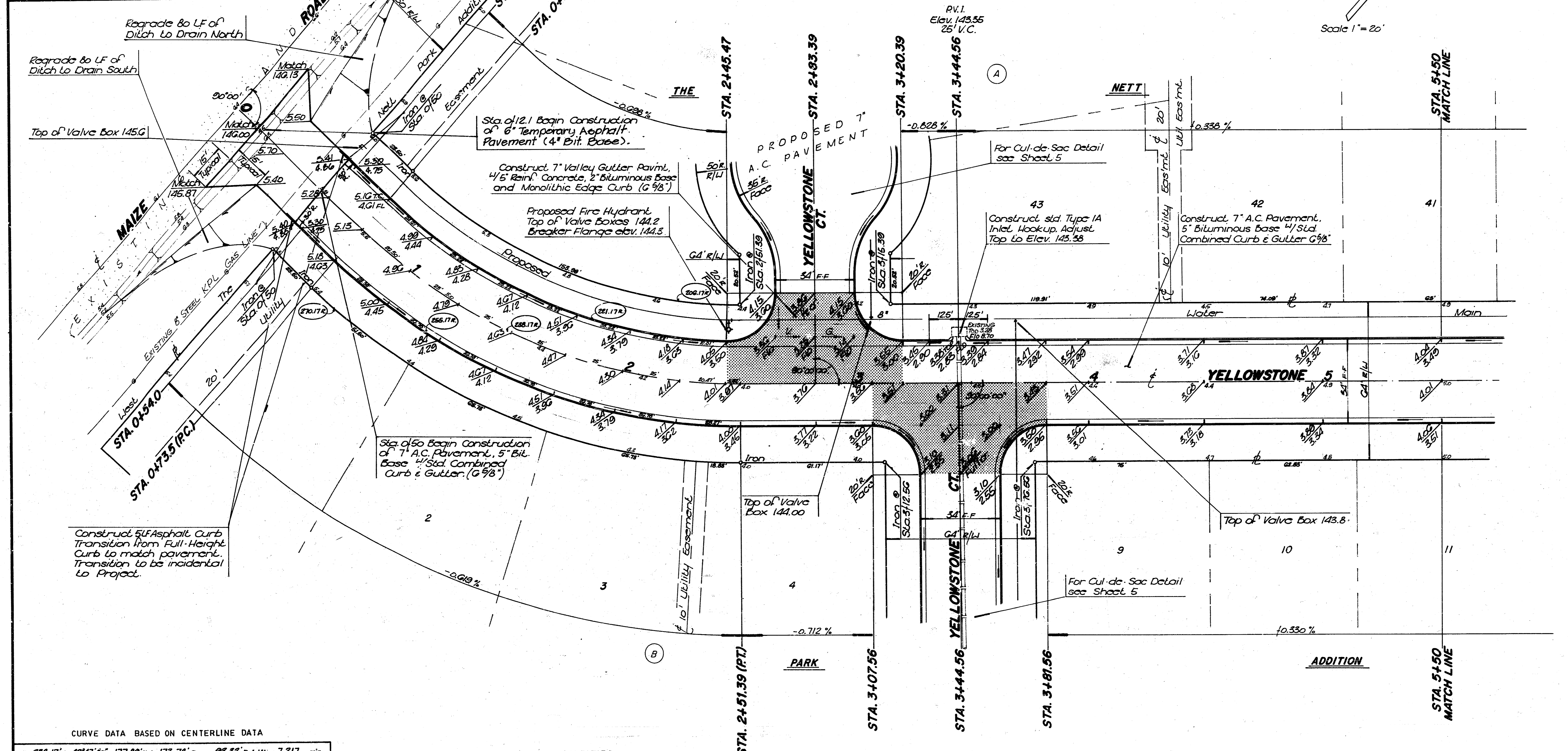
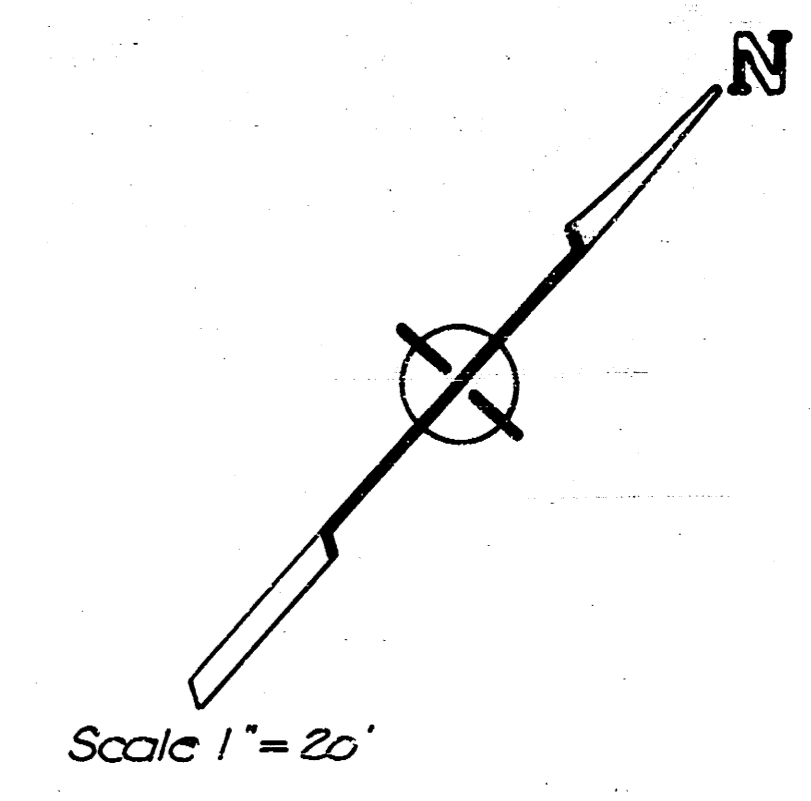
BENCHMARKS

Bench Mark 1: City of Wichita Disc, Maize Rd. and 27th St. South, 25' east and 4' south of Quarter Sec. Corner. Elev. 145.54 City Datum

Bench Mark 2: a' Cut Top of Curb North end of Existing Northwest Curb Return of Yosemite Dr. and Yellowstone. Elev. 139.96 City Datum

INTERSECTION QUANTITIES

124.6	SY	Concrete Pavement
124.6	SY	Asphaltic Conc. Pavement (2" Bituminous Base)
124.6	SY	Bituminous Base
62.8	LF	Combined Curb & Gutter
62.8	LF	Monolithic Edge Curb
62.8	SF	4" Wheelchair Ramp
62.8	SF	4" Walk
242.5	CY	Excavation
242.5	CY	Compacted Fill
242.5	Lbs.	Reinforcing Steel
242.5	SY	Manipulation
116.8	Tons	Lime or Cement
116.8	SY	Valley Gtr. (2" Concrete & 2" Asphaltic Conc. Base)



CURVE DATA BASED ON CENTERLINE DATA

R=238.17' Δ=42°47'40" = 177.60' Chd. = 173.78' Tan. = 93.32' Def/It. = 7.217' min.

Station	Arc Length	CHORD LENGTHS		Deflection Angle	Total Deflection Angle
		8' Left/face	8' Right/face		
0+73.5 RC	0			0°00'00"	0°00'00"
1100	26.5'	23.71'	29.27'	3°11'15"	3°11'15"
1125	26'	22.51'	27.62'	3°00'20"	6°11'41"
1150	25'	22.51'	27.62'	3°00'25"	9°12'06"
1175	25'	22.51'	27.62'	3°00'25"	12°12'32"
2100	25'	22.51'	27.62'	3°00'25"	15°12'57"
2125	25'	22.51'	27.62'	3°00'25"	18°13'23"
2145.47 LL	20.47'	18.31'	21.27' 44"	2°27'44"	20°41'07"
2151.30 PT	5.92'	20.15'	0°42'43"	21°23'50"	

EARTHWORK QUANTITIES

Excavation	4021.1	EX.	Compacted Fill	0	EX.
+10%	402.1		+10%	0	
Total	4423.2	EX.	Total	0	EX.
Subgrade Manipulation	5615	EX.			
Borrow Material	0	EX.			

INTERSECTION QUANTITIES

218.7	SY	Concrete Pavement
18.6	SY	Asphaltic Conc. Pavement (2" Bituminous Base)
18.6	SY	Bituminous Base
62.8	LF	Combined Curb & Gutter
62.8	LF	Monolithic Edge Curb
62.8	SF	4" Wheelchair Ramp
62.8	SF	4" Walk
242.5	CY	Excavation
242.5	CY	Compacted Fill
242.5	Lbs.	Reinforcing Steel
242.5	SY	Manipulation
116.8	Tons	Lime or Cement
116.8	SY	Valley Gtr. (2" Concrete & 2" Asphaltic Conc. Base)

YELLOWSTONE
STA. 0+00 (FROM THE EAST LINE MAIZE RD.) TO STA. 5+50

BAUGHMAN COMPANY P. A.
SURVEYING & ENGINEERING
318/282-7271 • 315 ELLIS • WICHITA, KANSAS 67211

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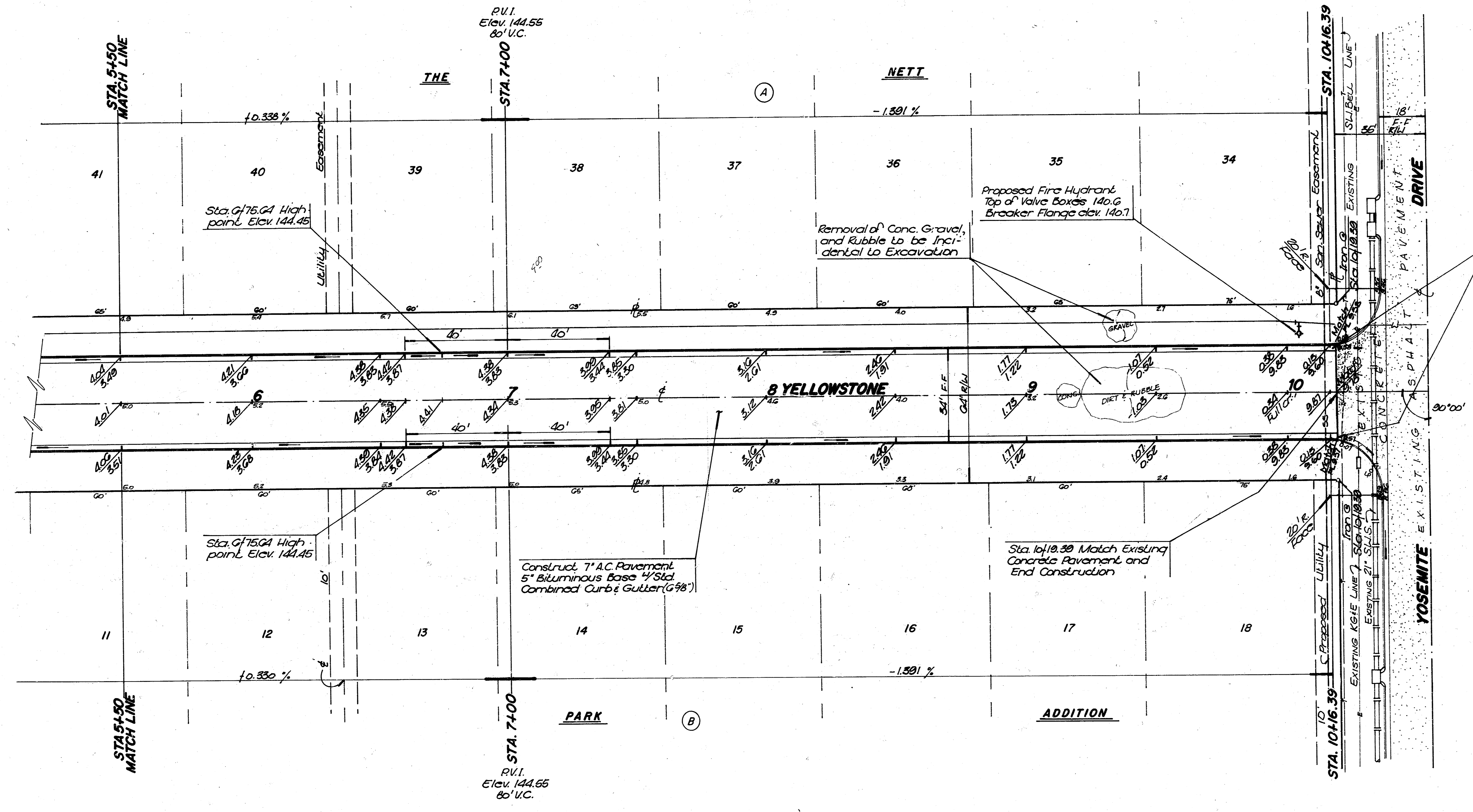
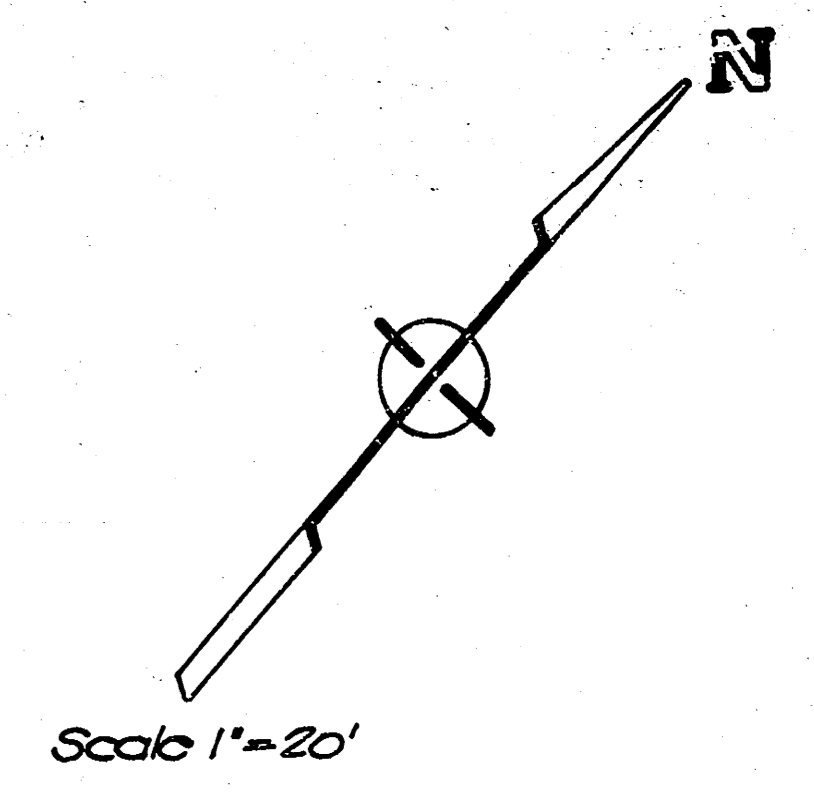
DESIGN: C. Bohm | DRAWN: R.J. Plush | APPROVED: T. Ruggles | DATE: June '88 | SCALE: 1" = 20'

SHEET 3 OF 9

BENCHMARKS

Bench Mark 1: City of Wichita Disc. Maize Rd. and 27th St. South, 25' east and 4' south of Quarter Sec. Corner. Elev. 145.54 City Datum

Bench Mark 2: a Cut. Top of Curb North end of Existing Northwest Curb Return @ Yosemite Dr. and Yellowstone. Elev. 139.98 City Datum

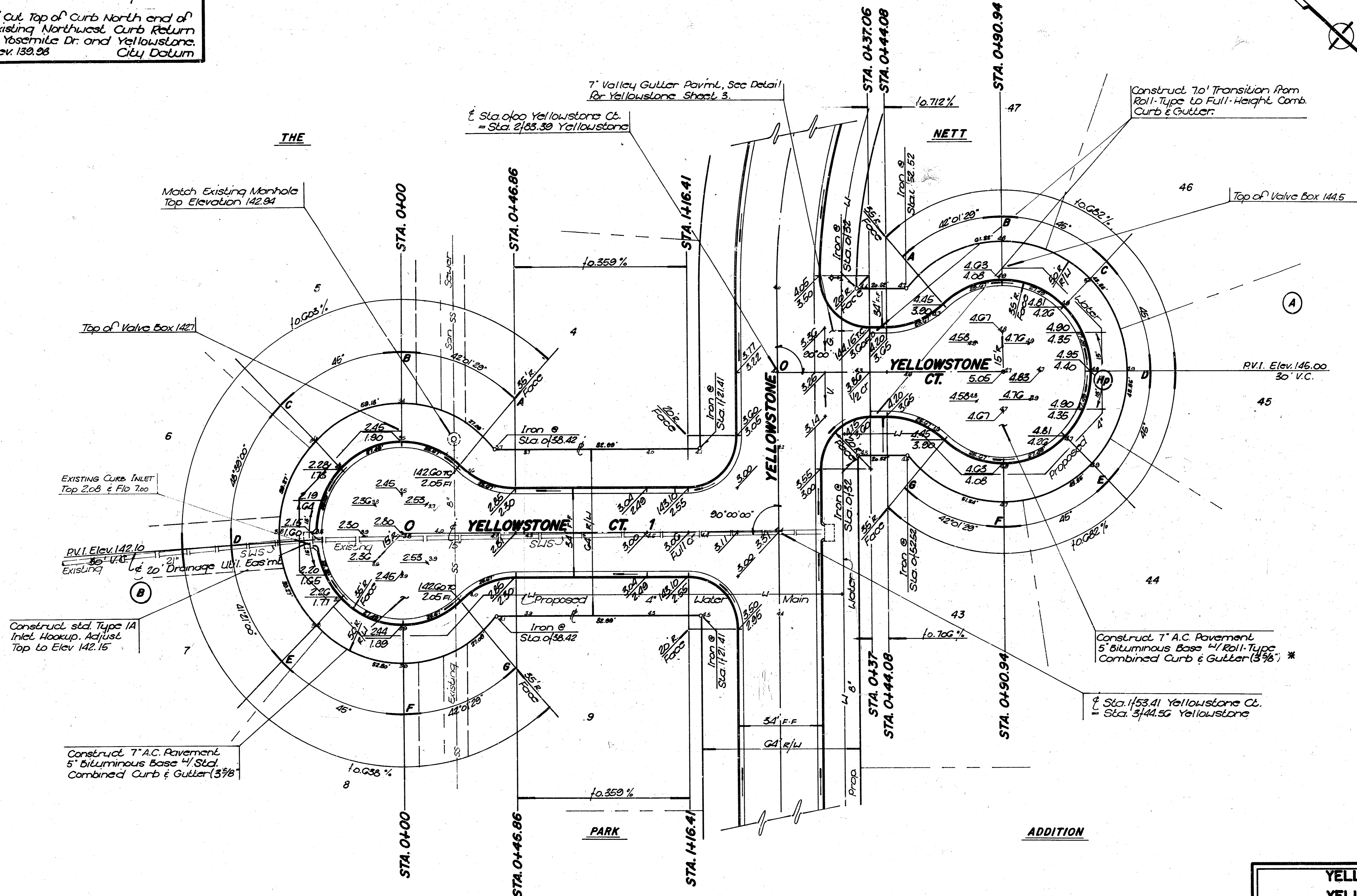
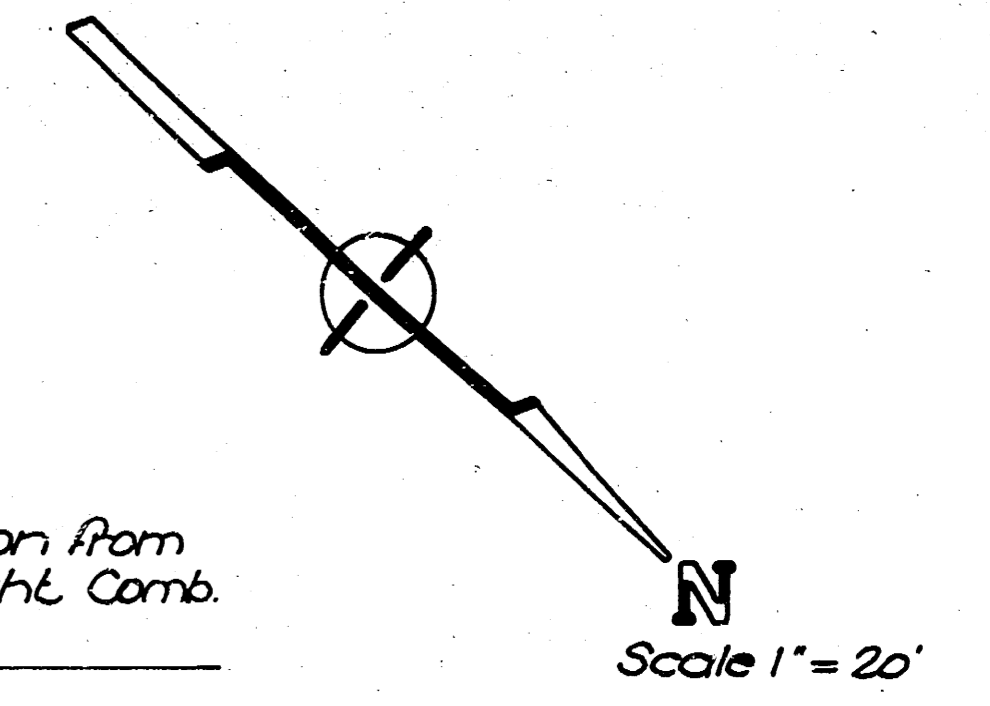


YELLOWSTONE			
STA. 5+50 TO (THE WEST LINE YOSEMITE DR.) STA. 10+16.39			
BAUGHMAN COMPANY P. A.		SURVEYING & ENGINEERING	
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211			
PROJECT NUMBER			
472-76-245-81615-000-001			
DESIGN	DRAWN	APPROVED	DATE
C. Bohm	R. J. Plush	T. Ruggles	June 88
SCALE			REV.
1" = 20'			4
			9 1/9

BENCHMARKS

Bench Mark 1: City of Wichita Disc, Maize Rd. and 27th St. South, 25' east and 4' south of Quarter Sec. Corner. Elev. 145.54 City Datum

Bench Mark 2: Cut, Top of Curb North end of Existing Northwest Curb Return @ Yosemite Dr. and Yellowstone. Elev. 139.93 City Datum



Construct std. Type 1A Inlet Hookup. Adjust Top to Elev 142.15'

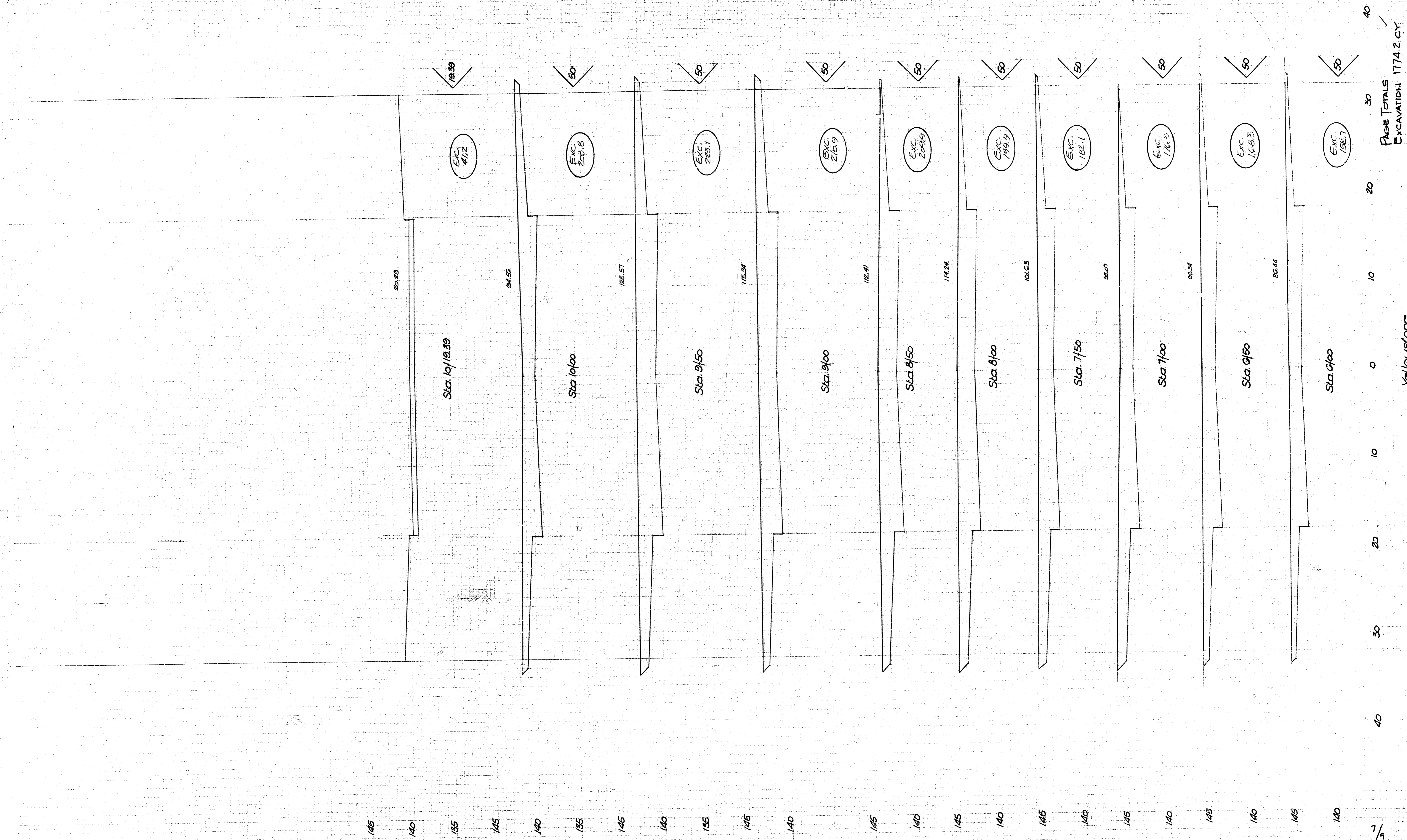
Construct 7" A.C. Pavement 5" bituminous Base 4" Std. Combined Curb & Gutter (3%)

Construct 7" A.C. Pavement 5" bituminous Base 4" Roll-Type Combined Curb & Gutter (3%)

Construct 7' Transition from Roll-Type to Full-Height Comb. Curb & Gutter.

*** NOTE:**
Roll-Type Combined Curb & Gutter (3%) is to be constructed in the North Yellowstone Corridor. The elevations are not the actual top of curb. For the true top of curb elevation add 0.30 to the Flow Line Elevation. Transitions from Full Height to Roll-Type Curb to be paid for as LF of Full-Height Combined Curb & Gutter (3%)

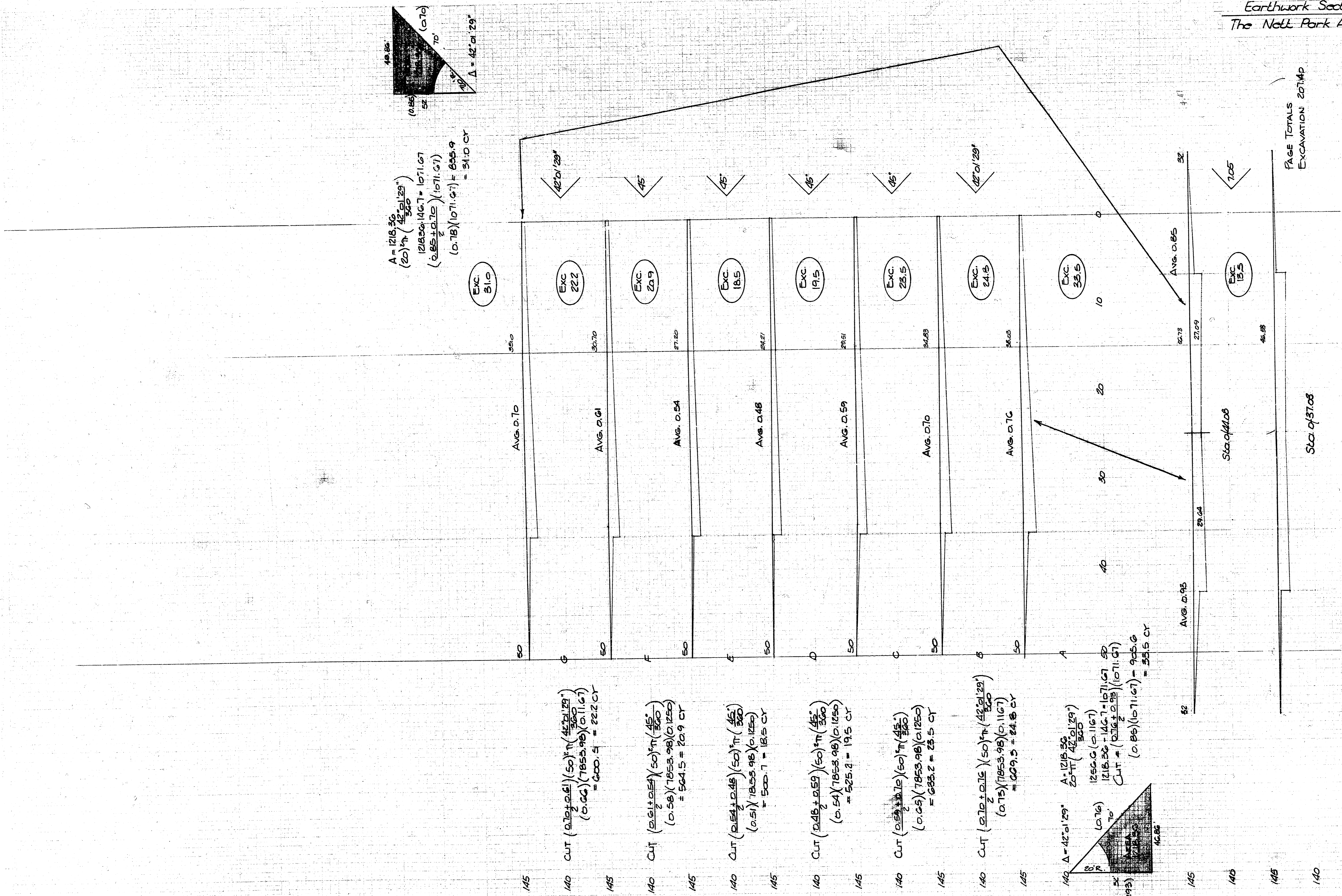
YELLOWSTONE COURT YELLOWSTONE COURT				
BAUGHMAN COMPANY P. A. SURVEYING & ENGINEERING 316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211				REV.
PROJECT NUMBER 472-76-245-81615-000-000-001				SHEET 5
DESIGN C. Bohm	DRAWN R.J. Plush	APPROVED T. Ruqles	DATE June 28	SCALE 1" = 20'
				OF 9



PAGE TOTALS
EXCAVATION 1774.2 CY

Yellowstone

Earthwork Sections
The Nell Park Addition



$$A = 1218.36$$

$$(25) \pi \left(\frac{42 \times 1.29}{360} \right)$$

$$1218.36 - 146.7 = 1071.67$$

$$\left(\frac{0.85 + 0.70}{2} \right) (1071.67)$$

$$(0.78) (1071.67) = 835.9$$

$$= 31.0 \text{ CY}$$

145

140 CUT $\left(\frac{0.70 + 0.61}{2} \right) (50) \pi \left(\frac{42 \times 1.29}{360} \right)$
 $(0.66) (7853.98) (0.1167)$
 $= 600.5 = 22.2 \text{ CY}$

145

140 CUT $\left(\frac{0.54 + 0.48}{2} \right) (50) \pi \left(\frac{45}{360} \right)$
 $(0.51) (7853.98) (0.125)$
 $= 504.5 = 20.9 \text{ CY}$

145

140 CUT $\left(\frac{0.54 + 0.48}{2} \right) (50) \pi \left(\frac{45}{360} \right)$
 $(0.51) (7853.98) (0.125)$
 $= 500.7 = 18.5 \text{ CY}$

145

140 CUT $\left(\frac{0.48 + 0.59}{2} \right) (50) \pi \left(\frac{45}{360} \right)$
 $(0.54) (7853.98) (0.125)$
 $= 525.4 = 19.5 \text{ CY}$

145

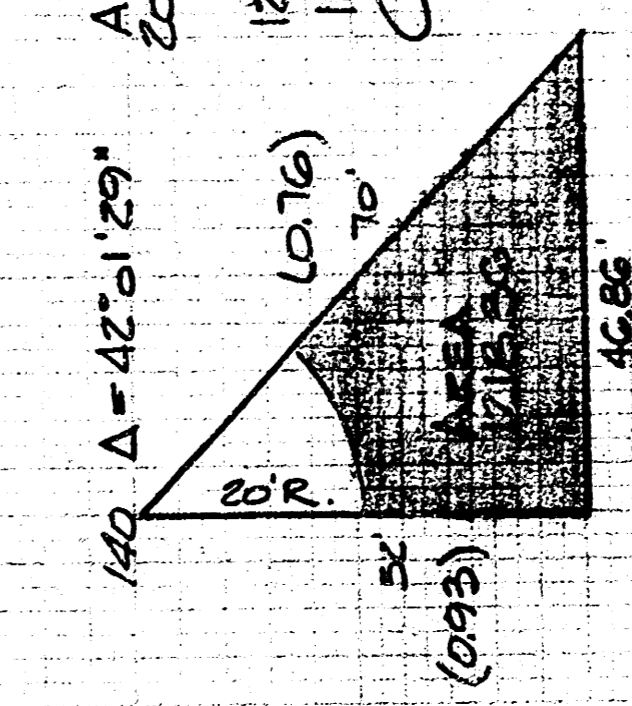
140 CUT $\left(\frac{0.59 + 0.70}{2} \right) (50) \pi \left(\frac{45}{360} \right)$
 $(0.65) (7853.98) (0.125)$
 $= 633.2 = 23.5 \text{ CY}$

145

140 CUT $\left(\frac{0.70 + 0.76}{2} \right) (50) \pi \left(\frac{42 \times 1.29}{360} \right)$
 $(0.73) (7853.98) (0.1167)$
 $= 669.5 = 24.8 \text{ CY}$

145

140 CUT $\left(\frac{0.76 + 0.85}{2} \right) (50) \pi \left(\frac{42 \times 1.29}{360} \right)$
 $(0.81) (7853.98) (0.1167)$
 $= 925.6 = 33.5 \text{ CY}$



Station	Excavation (CY)
80	31.0
90	22.2
100	20.9
110	18.5
120	19.5
130	23.5
140	24.8
145	33.5
TOTAL	207.4