STREET IMPROVEMENTS FOR

JAMESBURG PARK 2ND ADDITION

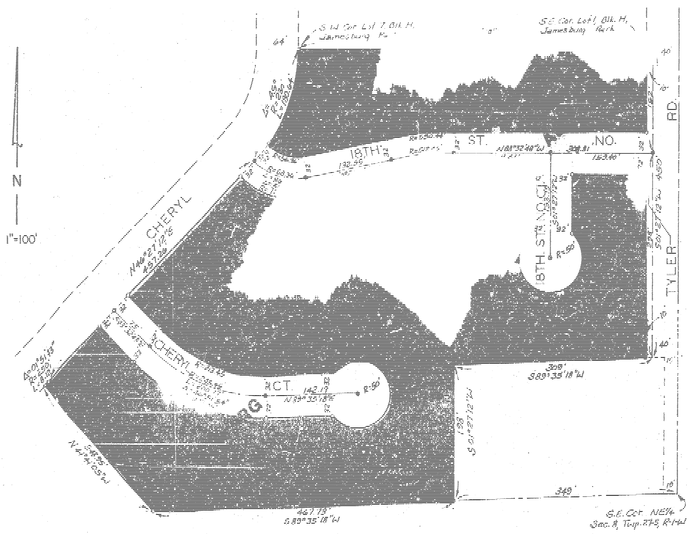
18th STREET NORTH - E.L. CHERYL TO W.L. TYLER
18th STREET NORTH COURT - S.L. 18th STREET NORTH TO AND INCL. CUL DE SAC
CHERYL COURT - E.L. CHERYL TO AND INCL. CUL DE SAC

PROJECT NO.

472-76-245-81429·000·000·001

INDEX

1 Title and Benefit District Map
2 Typical Section
3-6 Street Plans
7-10 Earthwork Sections
11 Type IA Inlet Detail



GENERAL NOTES

1. The Contractor shall be responsible for preserving property irons. The Contractor shall be required to re-establish any property irons which are destroyed or damaged by his construction operations. Such irons shall be re-established by a licensed land surveyor or a professional engineer in accordance with state laws.
2. The Contractor shall contact the necessary utility companies for any underground line locations to be located in the field prior to construction of the pavement.
3. Construction of Cheryl Court shall be co-ordinated with the construction of Lateral 4, Main 4, Westlink Sewer.
4. The Contractor shall be responsible for obtaining the proper driveway agreement forms and signatures thereon for all work done behind the property l[illegible].
5. All concrete combined curb and gutter to be constructed on this project is to be roll-type (5 5/8" & 1½"). All top of curb elevations shown on the plans are for full-height (6 5/8") curb.
5. Curb shall be depressed to 1½" through driveways.
6. No more than 10 driveways shall be constructed with this project. Contractor shall contact Leonard Marotte at 265-2555 for locations of driveways.

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK **CITY ENGINEER**



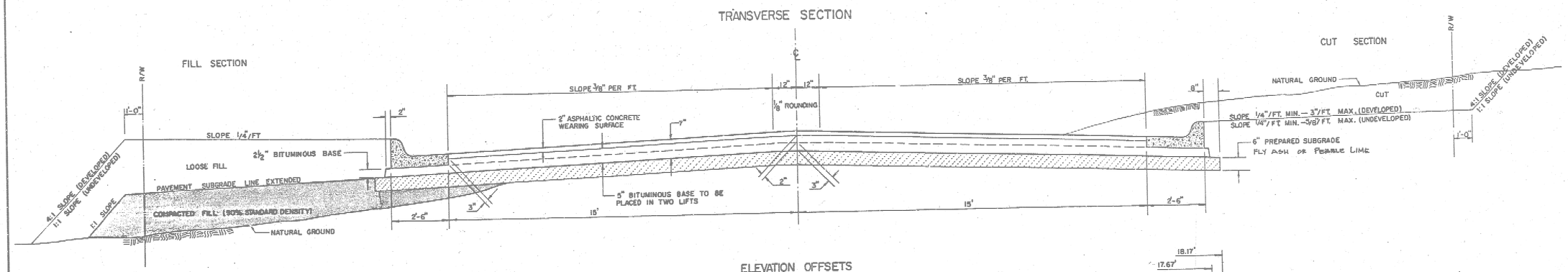
JUNE 1985

BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316/262.7271 • 330 LAURA • WICHITA, KANSAS 67211

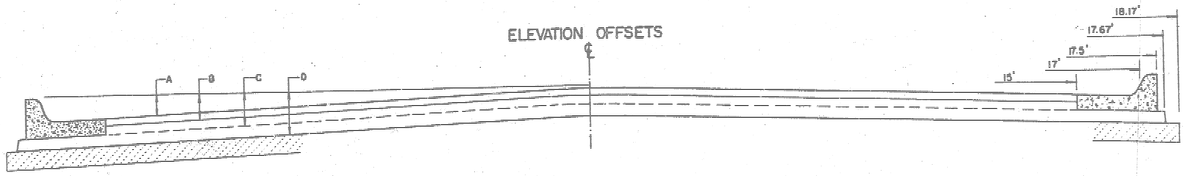
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TYPICAL 35' PAVEMENT DETAILS

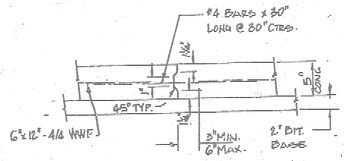
TRANSVERSE SECTION



ELEVATION OFFSETS

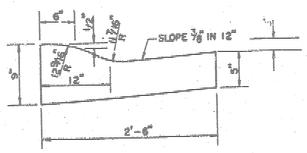


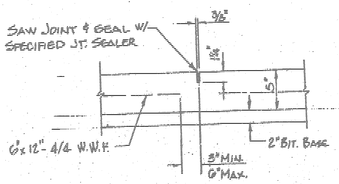
	DISTANCE FROM CENTERLINE (LT. & RT.)												
	0'	2'	4'	6'	8.5'	10'	12'	14'	15'	17'	17.5'	17.67'	18.17'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.04	0.08	0.14	0.21	0.29	0.33	0.39	0.46	0.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.21	0.25	0.31	0.37	0.45	0.50	0.56	0.62	0.65	—	—	—	—
C: TOP 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 TC TOP OF SUBGRADE	0.62	0.67	0.74	0.81	0.90	0.95	1.02	1.08	1.12	1.19	1.21	1.21	1.23



LONGITUDINAL CONSTRUCTION JOINT
FOR CONCRETE VALLEY GUTTER

ROLL TYPE COMBINED CURB & GUTTF .



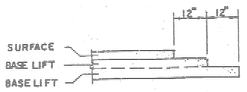


CONTRACTION JOINT
FOR CONCRETE VALLEY GUTTER

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 CSS-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 PRECEDING 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

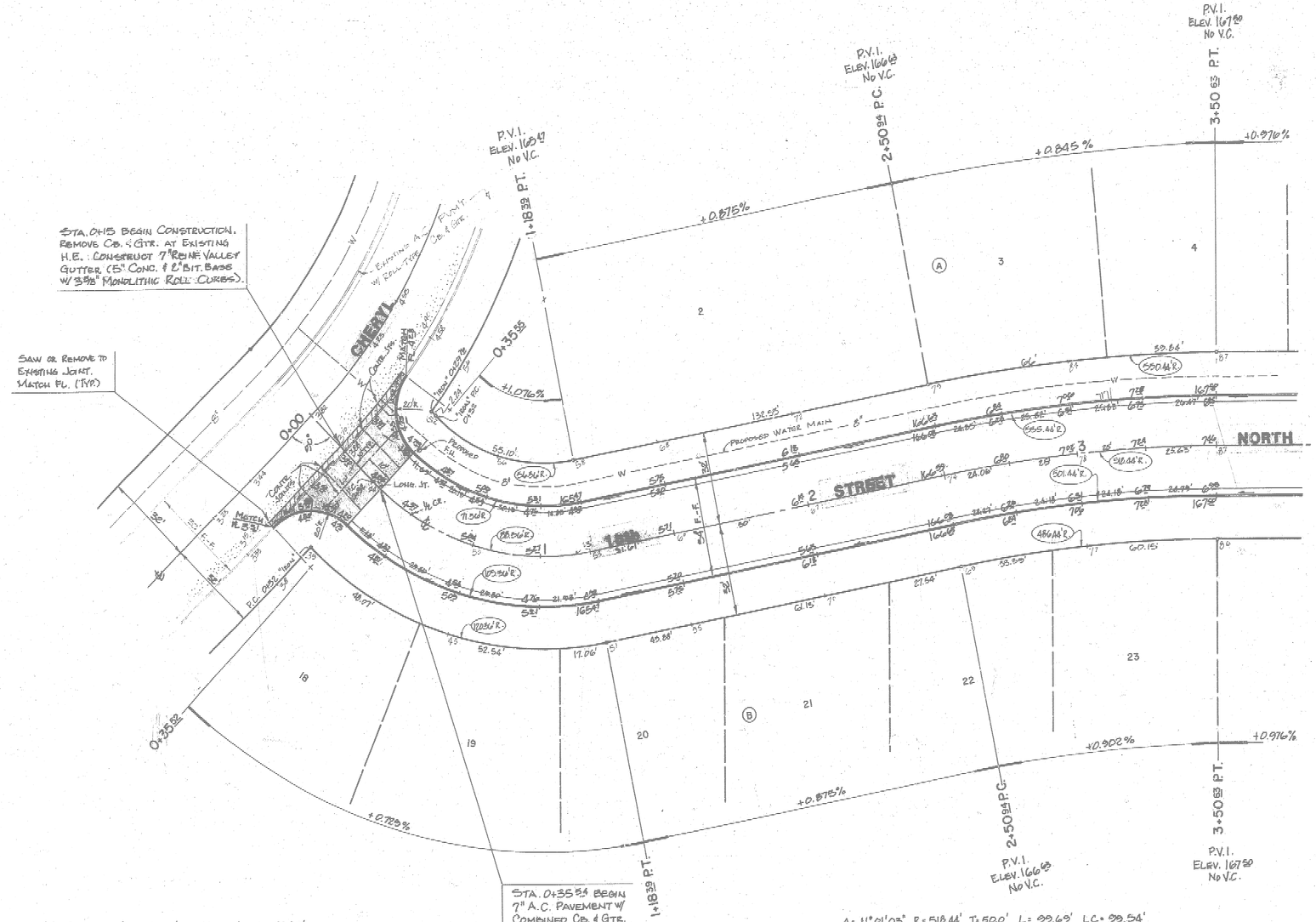


TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 7" ASPHALTIC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

7 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 5 INCH BITUMINOUS BASE
CITY OF WICHITA, KANSAS
PROJECT NUMBER
472-76-245-81429-000-000-001

FILMED FROM THE BEST

BENCH MARK:
CITY OF WICHITA STD. DISC, 81' S. & 50' E. OF 1/4 SEC. CORNER @ 17TH ST. AND TYLER, ELEV. 172.48



N

1" = 20'

INTERSECTION QUANTITIES

- S.Y. ____" Concrete Pavement
- S.Y. ____" Asphaltic Conc. Pavement (____" Bituminous Base)
- S.Y. ____" Bituminous Base
- L.F. Combined Curb & Gutter
- 587 L.F. Integral Curb
- S.F. 4" Wheelchair Ramp
- S.F. 4" Walk
- C.Y. Excavation
- C.Y. Compacted Fill
- Lbs. Reinforcing Steel
- 1128 S.Y. Manipulation
- Tons Lime or Cement
- 1145 S.Y. V.G. 5" Concrete & 2" Asphaltic Concrete Base

Δ = 56° 01' 03" R = 88.36' T = 47.00' L = 86.39' LC = 82.99'

CURVE DATA BASED ON ℄ RADIUS				Δ/2 = 28° 00' 31.5"
		CHORD LENGTH		TOTAL
STATION	ARC	8' OFF LT. CRB.	8' OFF RT. CRB.	DEFLECTION
0+32	–	–	–	0° 00' 00"
0+35.52	3.52'	↓	4.52'	01° 08' 28"
0+56.05	20.53'	2.55'	↓	00° 00' 56"
0+80	44.45'	18.35'	18.92'	04° 41' 06"
0+96	25'	17.87'	31.96'	08° 06' 19"
1+00	25'	17.87'	31.96'	08° 06' 19"
1+18.32	18.32'	13.16'	23.58'	05° 37' 46"

DEFLECTION / FT. = 0.324213°

Δ = 11° 01' 03" R = 518.44' T = 50.0' L = 99.69' LC = 99.54'

CURVE DATA BASED ON ℄ RADIUS				4/2 = 05° 50' 31.5"
		CHORD LENGTH		TOTAL
STATION	ARC	8' OFF LT. CRB.	8' OFF RT. CRB.	DEFLECTION
2+50.84	–	–	–	0° 00' 00"
2+75	24.06'	26.82'	22.30'	01° 15' 47"
3+00	25'	26.30'	23.79'	01° 02' 33"
3+25	25'	26.30'	23.79'	01° 22' 33"
3+50.69	25.68'	26.87'	24.61'	01° 24' 58"

DEFLECTION / FT. = 0.055255°

SPECIAL NOTE

ALL CURB AND GUTTER ON THIS PROJECT SHALL BE "ROLL-TYPE" (3 3/8" & 1 1/2"). TOP OF CURB ELEVATIONS SHOWN ARE FOR 6 5/8" CURB.

EARTHWORK QUANTITIES:

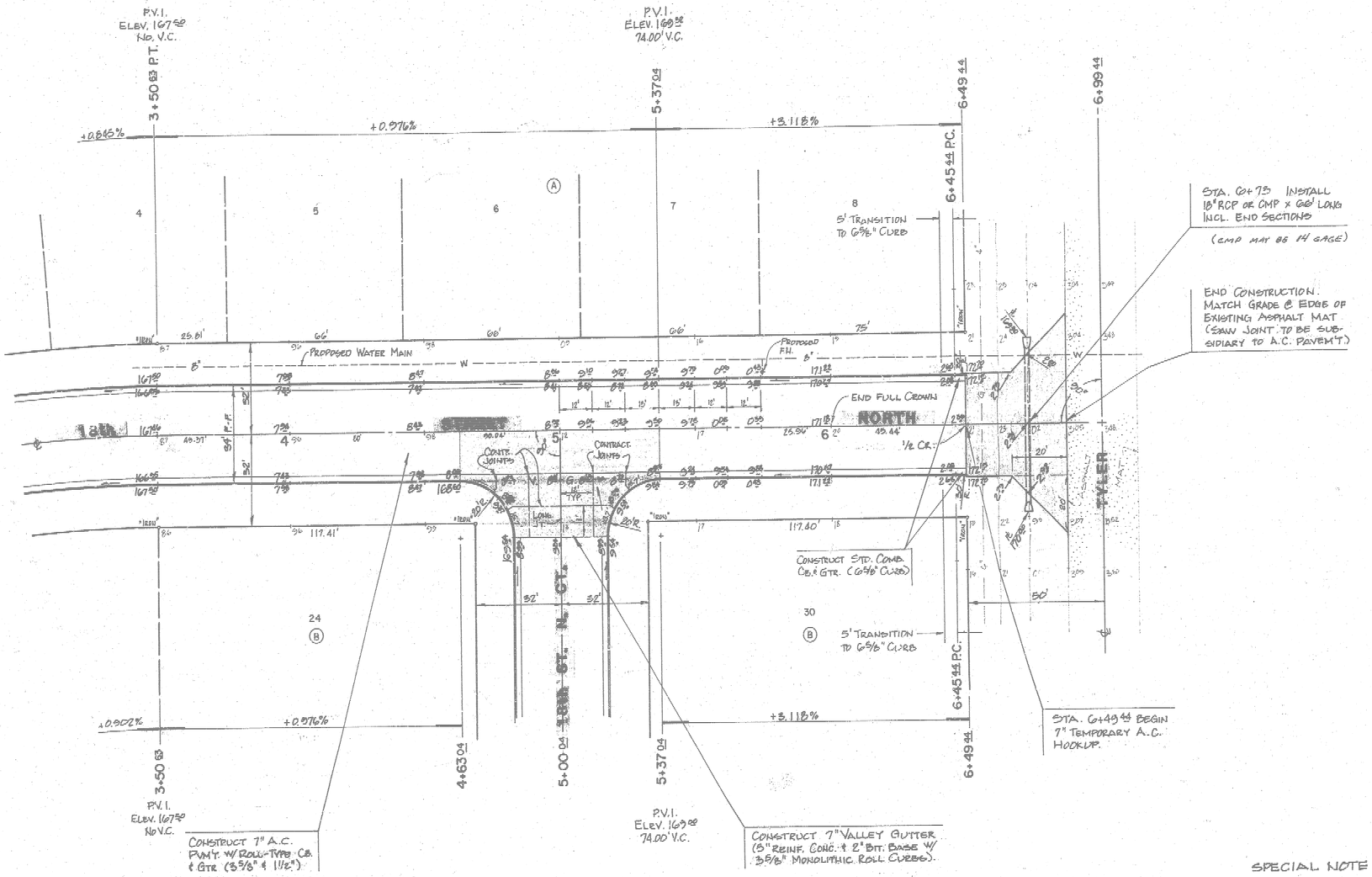
EXCAVATION	2724 CU.YDS.	MANIPULATION	5786 SQ.YDS.
+10%	272	COMPACTED FILL	28 CU.YDS.
		+10%	3
TOTAL	2996 CU.YDS.	TOTAL	31 CU.YDS.

18th STREET NORTH

Proj. no. 472-76-246-81428-000-000-001

3/11

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INTERSECTION QUANTITIES

- — S.Y. ___" Concrete Pavement
- 1265 S.Y. 7 " Asphaltic Conc. Pavement (5 " Bituminous Base)
- — S.Y. ___" Bituminous Base
- — L.F. Combined Curb & Gutter
- 268 L.F. Integral Curb
- — S.F. 6" Wheelchair Ramp
- — S.F. 4" Walk
- — C.Y. Excavation
- — C.Y. Compacted Fill
- — Lbs. Reinforcing Steel
- 245.5 S.Y. Manipulation
- — Tons Lime or Cement
- 114.5 S.Y. V.G. 5 " Concrete & 2 " Asphaltic Concrete Base

SPECIAL NOTE

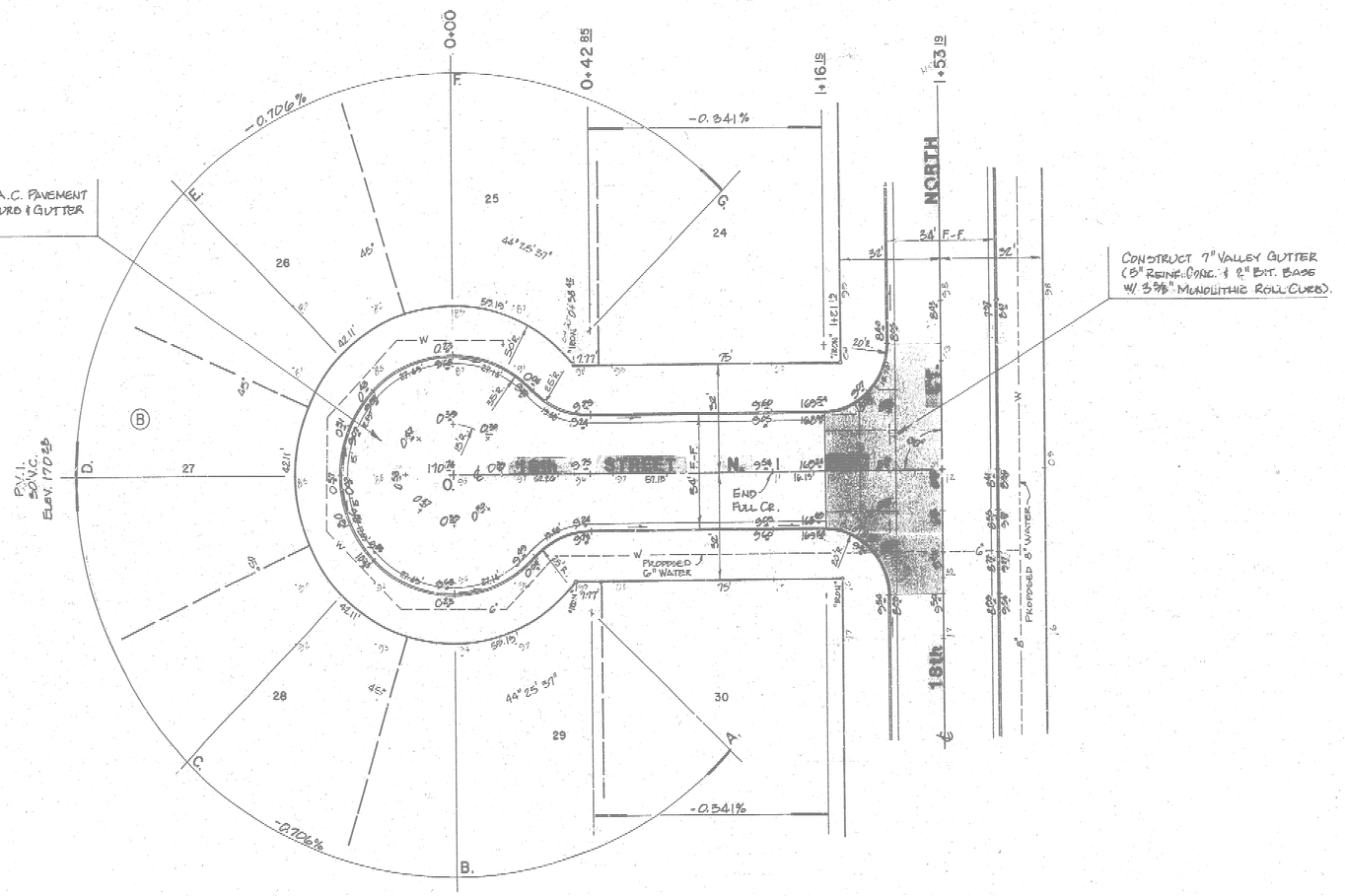
ALL CURB AND GUTTER ON THIS PROJECT SHALL BE "ROLL-TYPE".

18th STREET NORTH

Proj. no. 472-76-246-81429-000-000-001

4/11

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SPECIAL NOTE

ALL CURB AND GUTTER ON THIS PROJECT SHALL BE "ROLL-TYPE".

18th STREET NORTH COURT

Proj. no. 472- [illegible] 846-81429-000-000-001

5/11

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BENCH MARK:
W. RIM OF MANHOLE, 56' S.E. OF S.W. COR. LOT 4, BLK. B, JAMESBURG PARK 2ND ADD. ELEV. 165.66

STA. 0+15 BEGIN CONSTRUCTION. REMOVE CB. & GTR. @ EXISTING H.E. LINE. CONSTRUCT 7" VALLEY GUTTER (5" REINF. CONC. & 2" BIT. BASE W/ 3⅝" MONOLITHIC ROLL CURBS).

CONSTRUCT TYPE 1A INLET OVER EXIST. 18" R.C.P. (N=4'-4")
TOP 161.10. FL. 15" (E) 156.47
FL. EXIST. 18" (SW) 156.22

STA. 0+37 BEGIN 7" A.C. PAVEMENT W/ COMBINED CURB & GUTTER (ROLL-TYPE).

STA. 0+41 (20.5' LT.) CONSTR. TYPE 1A INLET (W=4'-4") TOP 161.80 FL. 15" (SW) 157.56

STA. 0+41 (20.5' RT.) CONSTRUCT TYPE 1A INLET (W=4'-4") TOP 161.80. FL. 15" (NE) 157.14 FL. 15" (W) 157.04

CHERYL COURT

P.V.I. ELEV. 162.28 No V.C.

1+07 P.C.

P.V.I. ELEV. 164.23 No V.C.

3+07.77 P.T.

4+07.11

4+49.35

P.V.I. ELEV. 166.68 30 V.C.

N

1" = 20'

Curve Data based on ℄ Radius				Δ/2 = 25°25'57"	
Sta.	Arc	Chord Length B'off Lt. Cb.	Chord Length B'off Rt. Cb.	Defl.	Int. ∠ to Selection 00°00
1+07	–	–	–		
1+25	18'	16.16'	19.83'	2°06'05"	2°06'05"
1+50	25'	22.46'	27.59'	2°55'04"	5°01'09"
1+75	"	"	"	2°55'04"	7°56'11"
2+00	"	"	"	2°55'04"	10°51'15"
2+25	"	"	"	2°55'05"	13°46'20"
2+50	"	"	"	2°55'04"	16°41'24"
2+75	"	"	"	2°55'04"	19°36'28"
3+00	25'	22.46'	27.68'	2°55'04"	22°31'32"
3+07.77	7.77'	6.96'	8.56'	0°54'25"	23°25'57"

Δ = 46°51'54" R = 245.45' T = 106.85' L = 200.77' L.C. = 195.22'

DEFL. / FT. = 0.11671°

INTERSECTION QUANTITIES

- ___ S.Y. ___" Concrete Pavement
- ___ S.Y. ___" Asphaltic Conc. Pavement (___" Bituminous Base)
- ___ S.Y. ___" Bituminous Base
- 66.5 L.F. Combined Curb & Gutter
- ___ L.F. Integral Curb
- ___ S.F. 4" Wheelchair Ramp
- ___ S.F. 4" Walk
- ___ C.Y. Excavation
- ___ C.Y. Compacted Fill
- ___ Lbs. Reinforcing Steel
- 1182 S.Y. Manipulation
- ___ Tons Lime or Cement
- 146 S.Y. V.G. 5" Concrete & 2" Asphaltic Concrete Base

SPECIAL NOTE

ALL CURB AND GUTTER ON THIS PROJECT SHALL BE "ROLL-TYPE".

CHERYL COURT
WITH INCIDENTAL DRAINAGE

6/11

Proj. no. 472-76-246-81429-000-000-001

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Proj. #472-96-1425-01429-000-000-0201

SHEET TOTALS

EXCAVATION 1195.10 C.Y.
LOOSE FILL 470 C.Y.
MANIPULATED FILL 0 .

40 30 20 10 0 10 20 30 40

18TH ST. N.

0+15

C 14°

165 170

EXC 119.2 CY
EXC 3.5 CY
EXC 5.9 CY

22

0+37

C 24°
LF 4.4

165 170

EXC 18.8 CY
EXC 12.6 CY
EXC 6.7 CY

19

0+50

C 26°
LF 13.4

165 170

EXC 62.3 CY
EXC 200 CY

20

1+00

C 28°
LF 80

165 170

EXC 10.9.1 CY
EXC 14.8 CY

9

1+50

C 32°
LF 3.8

165 170

EXC 110.2 CY

50

2+00

C 47°

165 170

EXC 19.8.3 CY

50

2+50

C 73°

165 170

EXC 190.2 CY

50

3+00

C 75°

165 170

EXC 153.1 CY

50

3+50

C 95°

165 170

EXC 208.3 CY

50

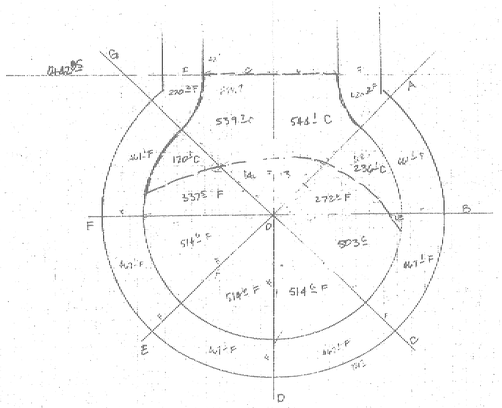
4+00

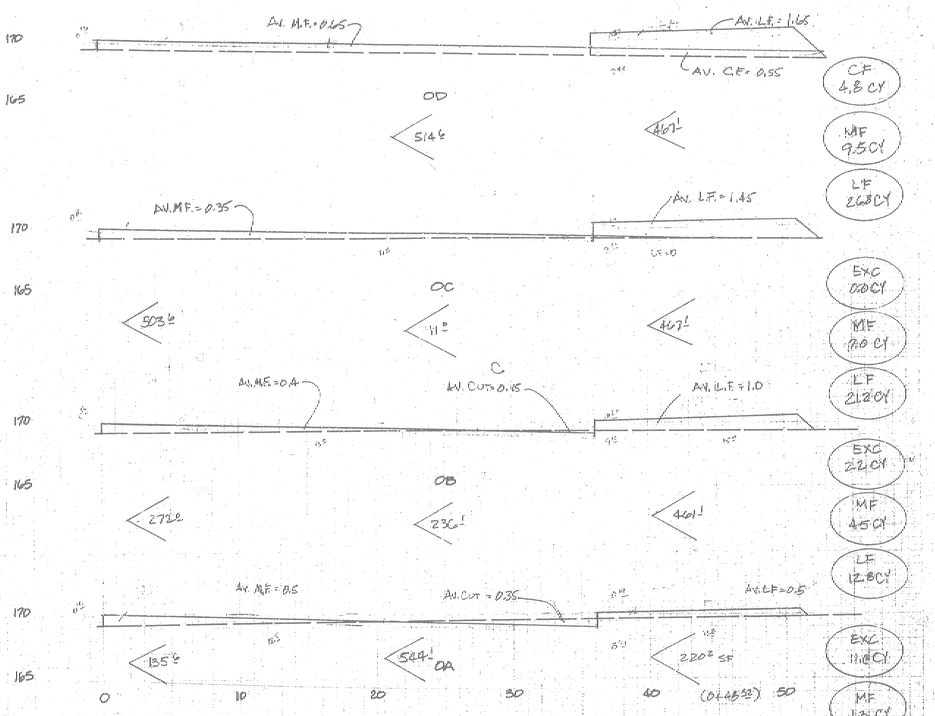
C 130°

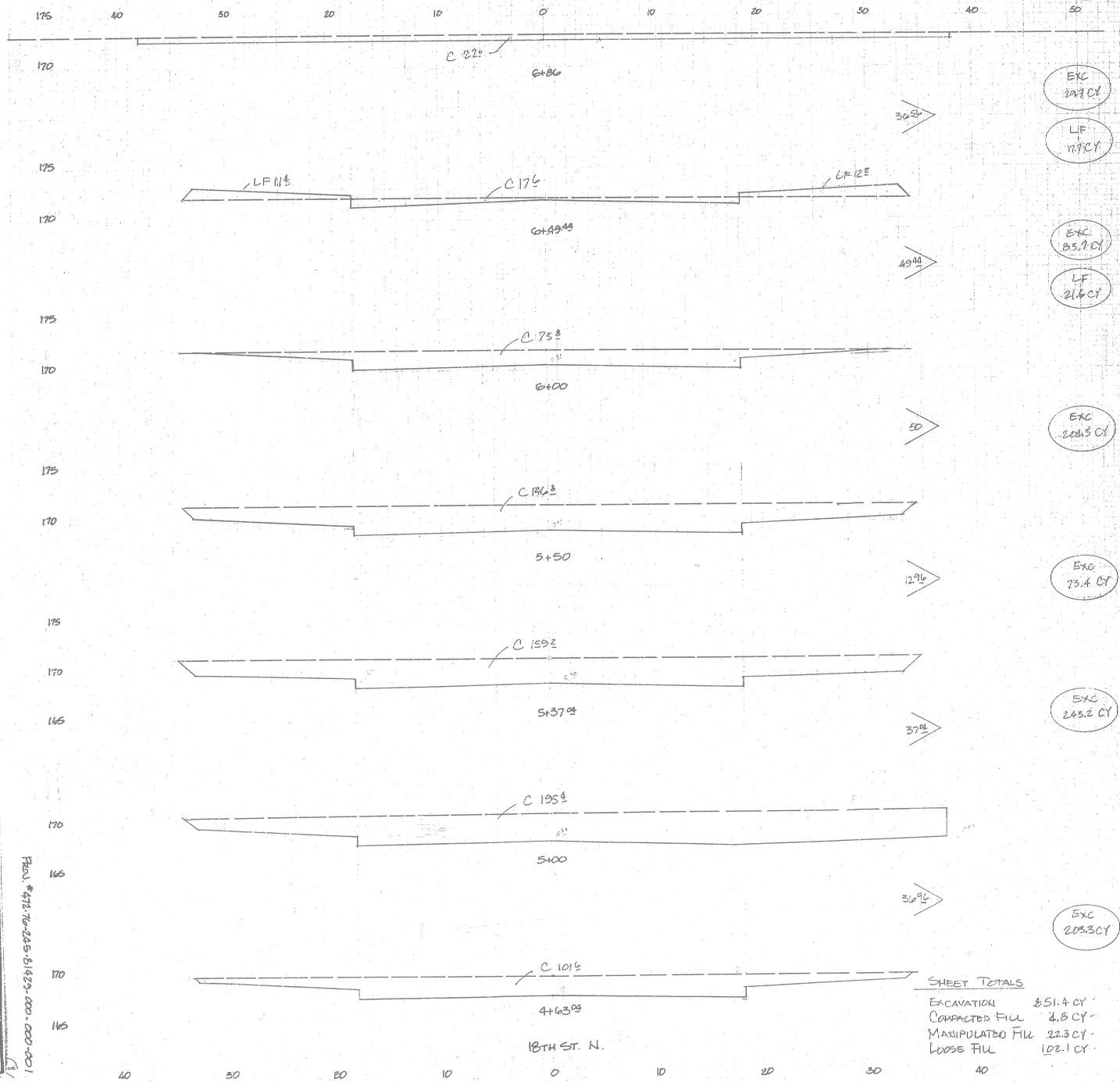
165 170

EXC 270.4 CY

65





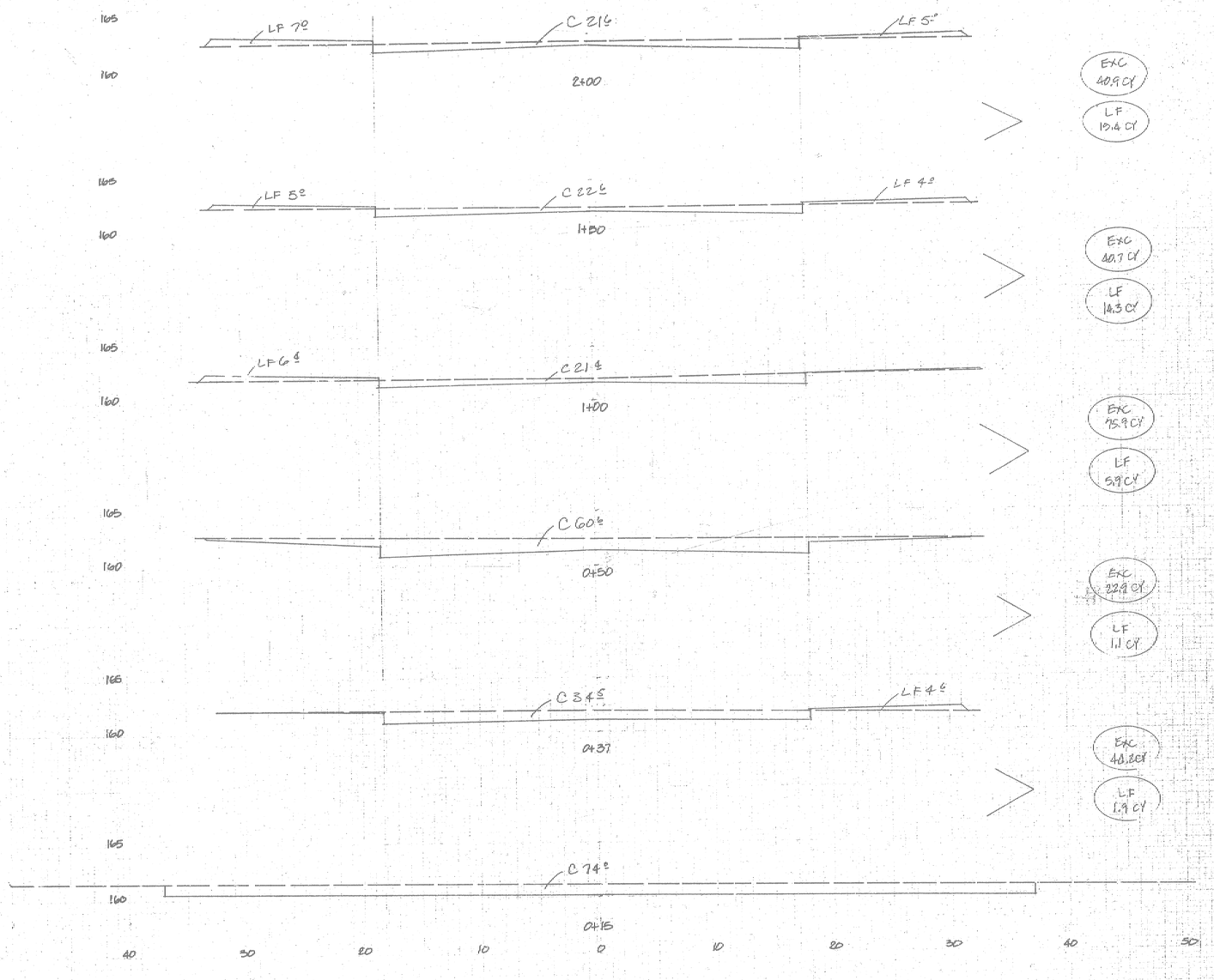


SHEET TOTALS

EXCAVATION	851.4 CY
COMPACTED FILL	4.8 CY
MANIPULATED FILL	22.3 CY
LOOSE FILL	102.1 CY

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Proj. #472-76-265-51429-000-000-001



CHERYL COURT

18TH ST. N. COURT

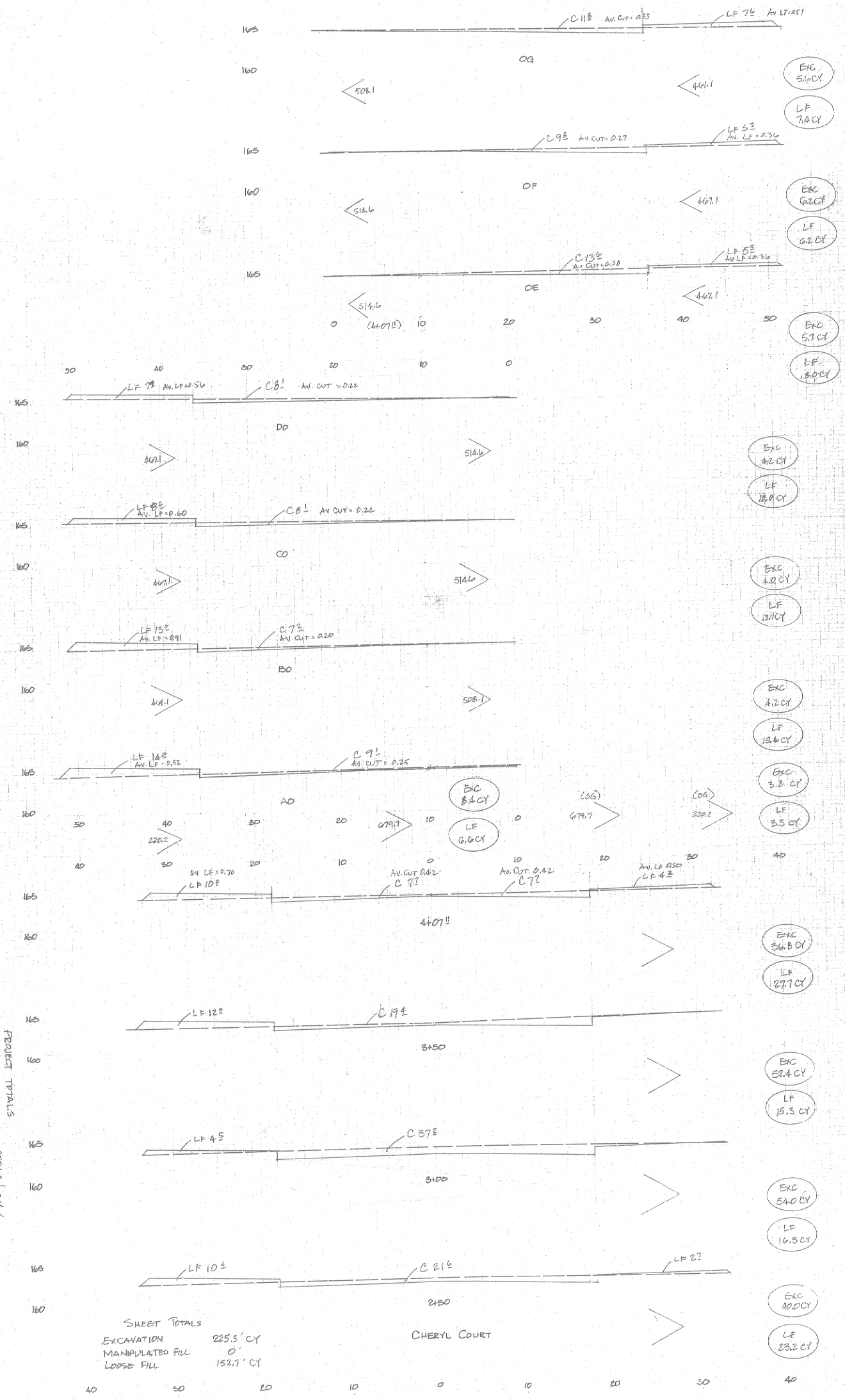
SHEET TOTALS

EXCAVATION	452.4 CY
COMPACTED FILL	22.7 CY
MANIPULATED FILL	31.4 CY
LOOSE FILL	121.9 CY

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Plat # 472-74-245-8429-000-001

9/11



SHEET TOTALS

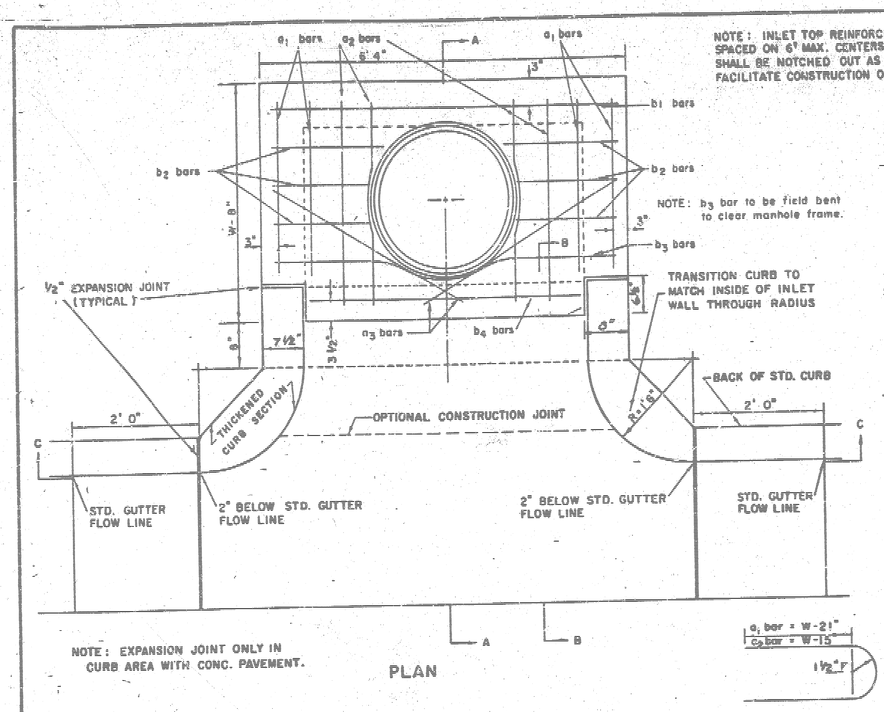
EXCAVATION	225.3 CY
MANIPULATED FILL	0
LOOSE FILL	152.7 CY

PROJECT TOTALS

EXCAVATION	2724.2 CY
COMPACTED FILL	2178 CY
MANIPULATED FILL	552 CY
LOOSE FILL	423.5 CY

Permit # 472-76-245-81429-000-000-001

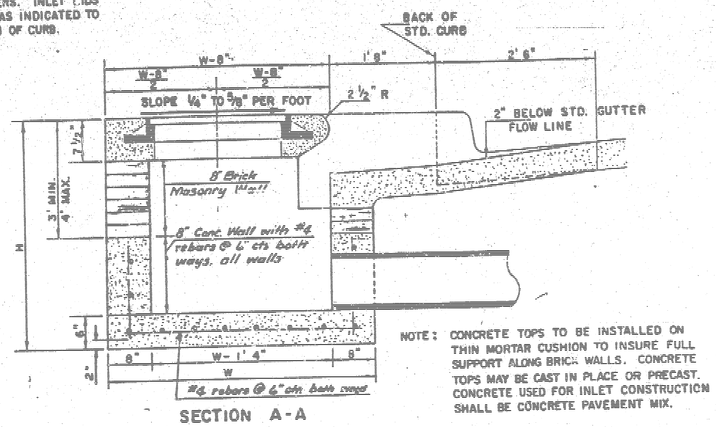
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NOTE: EXPANSION JOINT ONLY IN CURB AREA WITH CONC. PAVEMENT.

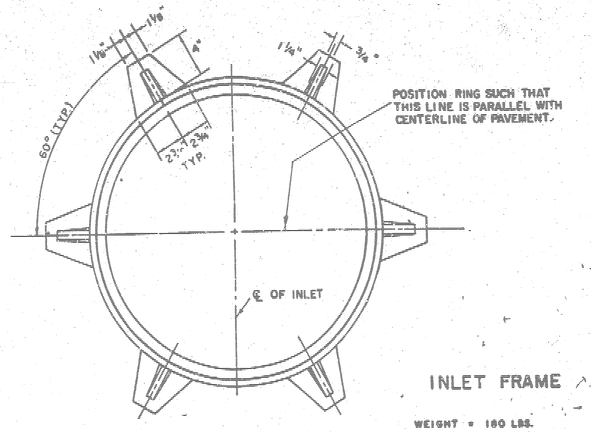
PLAN

NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.



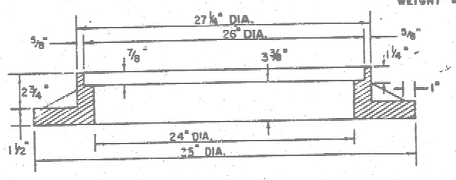
SECTION A-A

NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX.



INLET FRAME

WEIGHT = 180 LBS.



SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.

STEEL SCHEDULE

BAR	a_1	a_2	a_3*	b_1 W=4'4"	b_1 W=5'4"	b_1 W=6'4"	b_1 W=7'4"	b_1 W=8'4"	b_2	b_3	b_4	WT. LBS.
NUMBER	4	4	2	1	3	5	7	9	6	1	1	
SIZE	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#6	
LENGTH W=4'4"	5'7"	6'7"	4'0"	6' 1"	–	–	–	–	1' 9"	6'2"	4'8"	60±
LENGTH W=5'4"	7'7"	8'7"	5'0"	–	6' 1"	–	–	–	1' 9"	6'2"	4'8"	81±
LENGTH W=6'4"	9'7"	10'7"	6'0"	–	–	6' 1"	–	–	1' 9"	6'2"	4'8"	101±
LENGTH W=7'4"	11'7"	12'7"	7'0"	–	–	–	6' 1"	–	1' 9"	6'2"	4'8"	121±
LENGTH W=8'4"	13'7"	14'7"	8'0"	–	–	–	–	6' 1"	1' 9"	6'2"	4'8"	141±

* NOTE: a_3 BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

BENDING DIAGRAM

a_1 bar = W-2 1"
a_2 bar = W-1 5"
1 1/2" R

STANDARD CURB INLET PRECAST TOPS

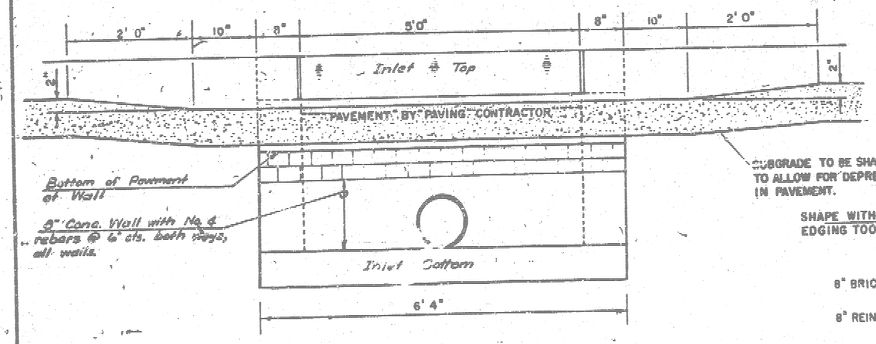
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 4"	3'8"x 6'4" x7 1/2"	21" & SMALLER	0.38 ±
5' 4"	4'8"x 6'4" x7 1/2"	24" & 30"	0.51 ±
6' 4"	5'8"x 6'4" x7 1/2"	36" & 42"	0.64 ±
7' 4"	6'8"x 6'4" x7 1/2"	48" & 54"	0.77 ±
8' 4"	7'8"x 6'4" x7 1/2"	60" & 66"	0.90 ±

NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 6'4" AND H = 7'0" OR LESS.

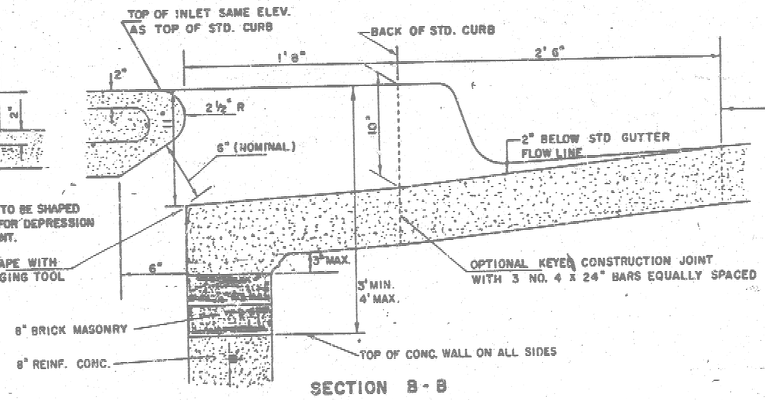
ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.



SECTION C-C



SECTION B-B

REVISED 12-21-1984

DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS

INLET OPENING = 6" x 5' 0"

Proj. no. 472-76-245-81429-000-000-001

JUNE 1984

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