

PAVING PLANS FOR

PRIVATE STREETS IN WILLOWBEND FIRST ADDITION

MULBERRY DRIVE: FROM THE EAST LINE OF ROCK ROAD TO THE SOUTH LINE OF LOT 91
BLK. 3 MULBERRY EAST SECOND ADD.
TARA CIRCLE: FROM INC. CUL-DE-SAC TO SOUTH LINE MULBERRY DRIVE
MULBERRY COURT: FROM THE NORTH LINE OF MULBERRY DRIVE TO INC. CUL-DE-SAC
PLUM TREE & IRONWOOD: FROM THE SOUTH LINE OF MULBERRY DRIVE TO SOUTH LINE MULBERRY DRIVE
IRON WOOD COURT: SERVES LOT 12 THROUGH 16 BLOCK 3 MULBERRY EAST ADD.

PROJECT NO.

448-76-245-80001-000-000-131

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, CITY ENGINEER

GENERAL NOTES

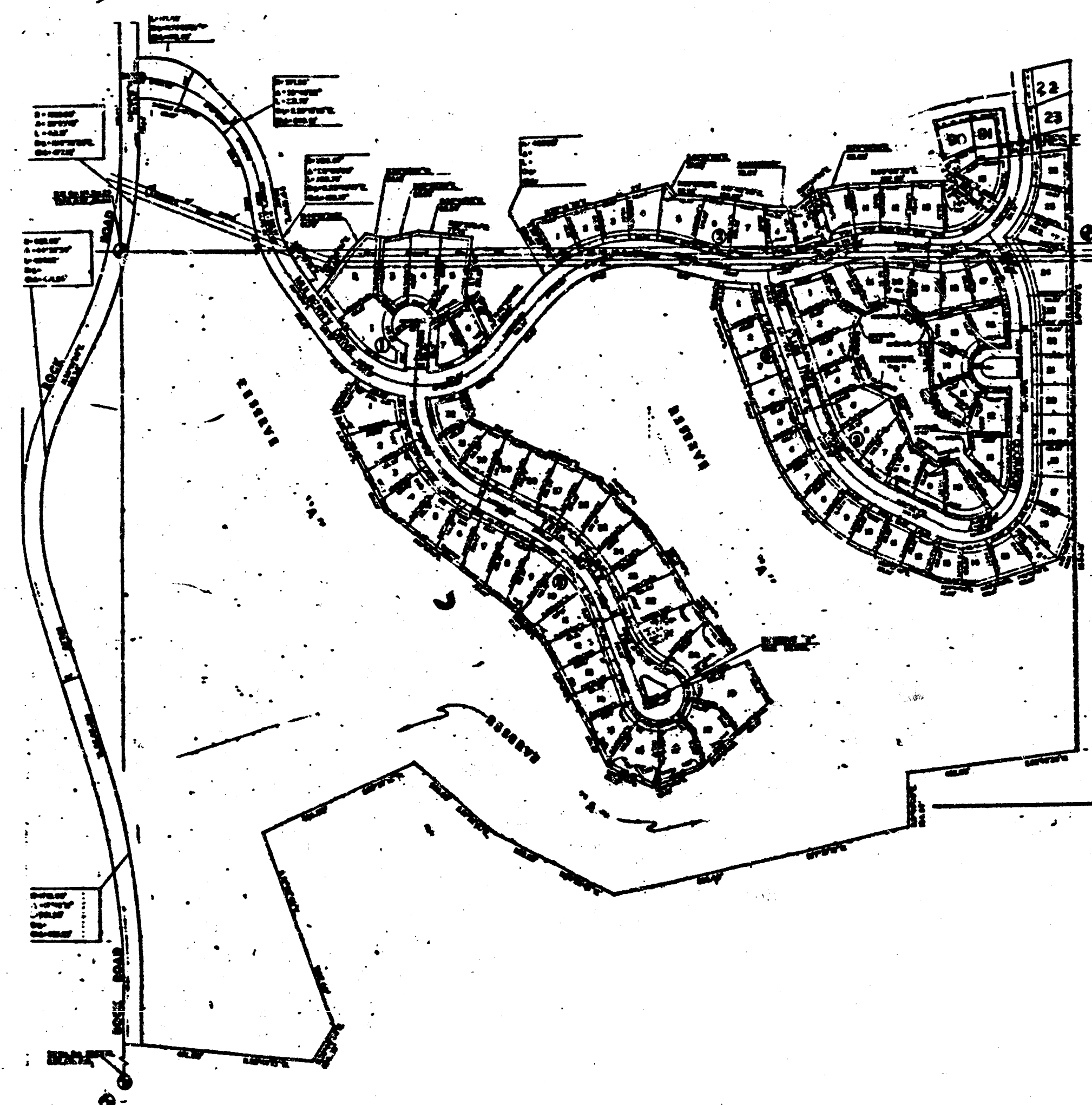
1. CURB AND GUTTER WITH WIDENED GUTTER TO BE PAID AS COMBINED CURB AND GUTTER.
2. ALL DRAINAGE STRUCTURES "BY OTHERS".
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.
4. PAYING CONTRACTOR TO COORDINATE WORK WITH STORM SEWER AND SANITARY SEWER CONTRACTORS AND TO CONTACT UTILITY COMPANIES FOR LOCATION OF ANY UNDERGROUND LINES.
5. TRANSITION CURB FROM FULL HEIGHT COMBINATION CURB AND GUTTER TO ROLL TYPE COMBINATION CURB AND GUTTER IS TO BE PAID AS BID FOR LINEAL FEET COMBINED CURB AND GUTTER (3 5/8" ROLL).
6. ALL WORK TO BE DONE ACCORDING TO CITY OF WICHITA SPECIFICATIONS.
7. ALL TREES & FENCES WITHIN RIGHT-OF-WAY SHALL BE REMOVED COST SUBSIDIARY TO C.T. EXCAVATION.

NOTE: NOTIFY THE FOLLOWING COMPANIES PRIOR TO ANY EXCAVATION:

ARKLA GAS COMPANY	942-8350
BELL TELEPHONE	1-316-571-2115
CABLEVISION	262-0661
KPL GAS SERVICE	263-7511
KANSAS GAS & ELECTRIC	261-6248
KANSAS ONE-CALL	1-800-344-7233
CITIES SERVICE	524-0451
KANSAS GAS SUPPLY	316-254-7243
CONTINENTAL PIPELINE COMPANY	316-681-2081
CO-OP REFINERY PIPELINE	1-316-221-2107

BENCH MARKS

- B.M. #1: "C" CUT ON NW CORNER RCB, 16' N AND 35' W OF CENTER SECTION 29-26-2E.
ELEV. = 706.18
- B.M. #2: "C" CUT ON NW CORNER RCB ± 900' S OF CENTER SECTION 29-26-2E.
ELEV. = 211.80
- B.M. #3: CITY STANDARD 44' S & 48' W OF CENTERLINE OF 37TH & ROCK ROAD.
ELEV. = 204.11
- B.M. #4: CITY STANDARD 32' S & 11' E OF S QUARTER CORNER SECTION 29-26-2E.
ELEV. = 226.64



INDEX TO DRAWINGS

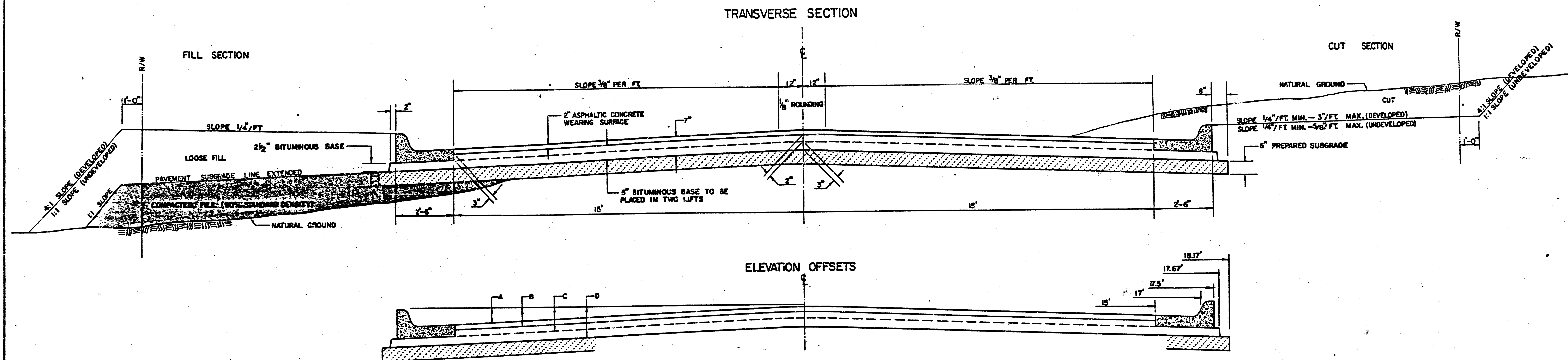
SHEET NO.	DESCRIPTION
1	COVER SHEET
2-7	DETAILS
8-13	MULBERRY DRIVE
14-15	TARA CIRCLE
16	MULBERRY COURT
17-20	PLUM TREE & IRONWOOD
21-34	IRONWOOD COURT
35-36	CROSS SECTIONS
	FINAL PLAT

AS BUILT - NOV. 1988

	WILLOWBEND FIRST ADDITION PAVING PLANS		Design Drawn by Checked by Date Job no.
	MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING 1800 WICHITA, KANSAS 67226		Sheet 1 of 36
	682-6561		

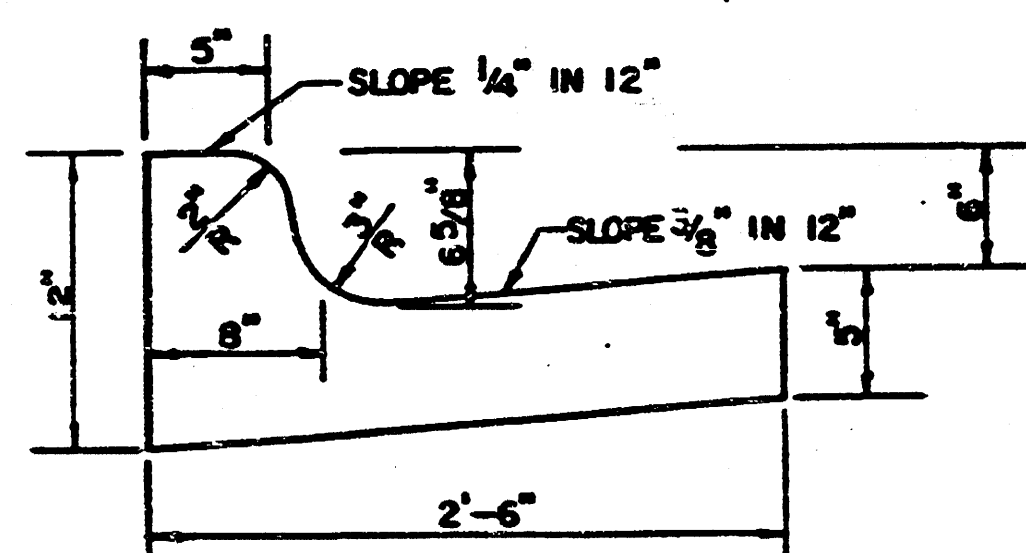
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TYPICAL 35' PAVEMENT DETAILS

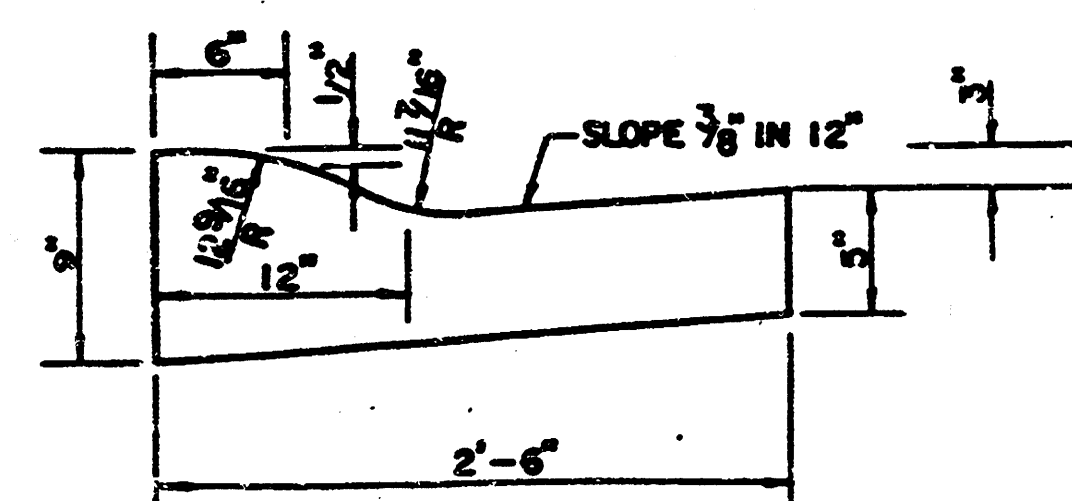


	DISTANCE FROM CENTERLINE (L. & R.)												
	0'	2'	4'	6'	8.5'	10'	12'	14'	15'	17'	17.5'	17.67'	18.17'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.04	0.08	0.14	0.21	0.29	0.33	0.39	0.46	0.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.21	0.25	0.31	0.37	0.45	0.50	0.56	0.62	0.65	—	—	—	—
C: TOP OF 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 TO 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

COMBINED CURB & GUTTER



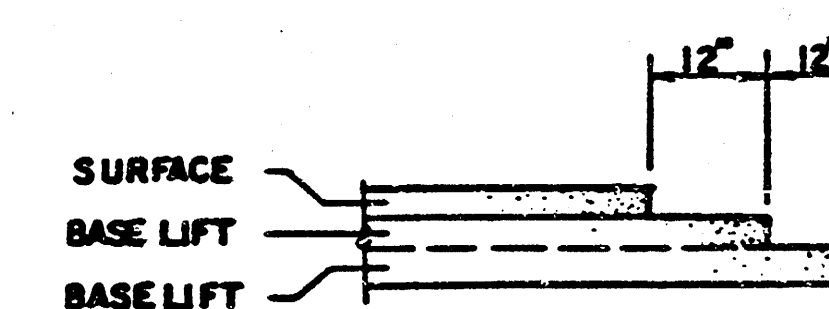
ROLL TYPE COMBINED CURB & GUTTER



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



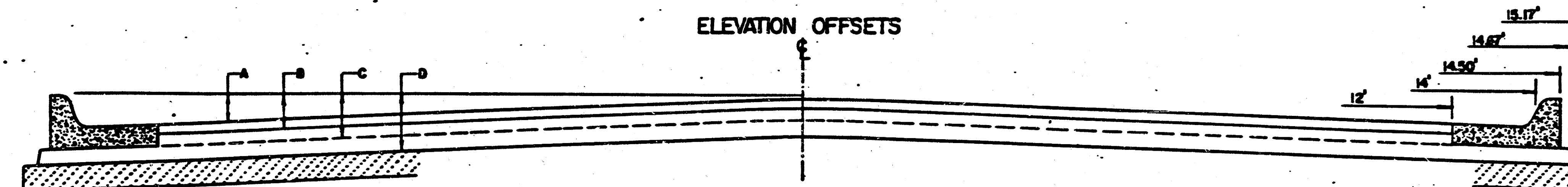
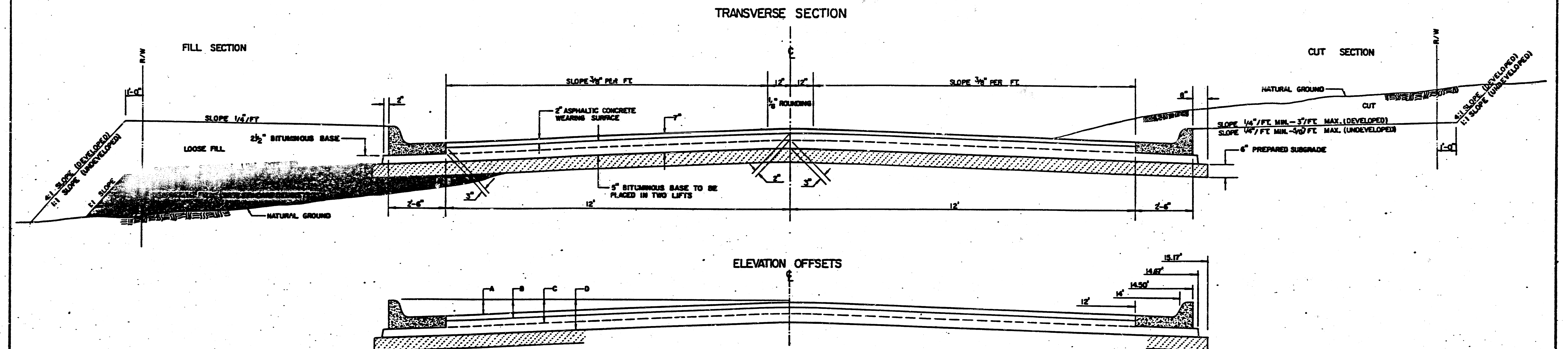
TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINTS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 8" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).

2
36

7 INCH RESIDENTIAL ASPHALTIC CONCRETE
PAVEMENT WITH 5 INCH BITUMINOUS BASE
CITY OF WICHITA, KANSAS

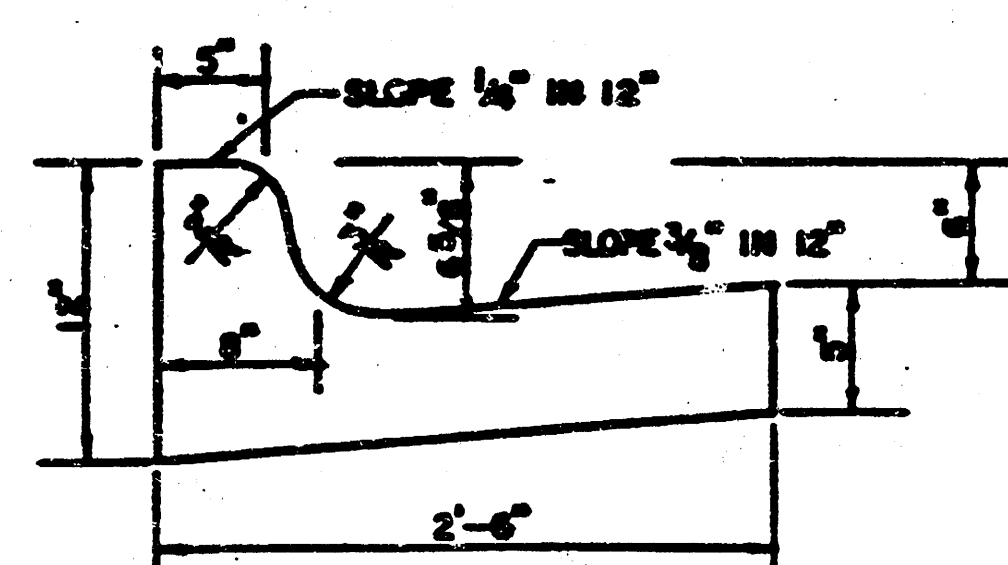
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TYPICAL 29' PAVEMENT DETAILS

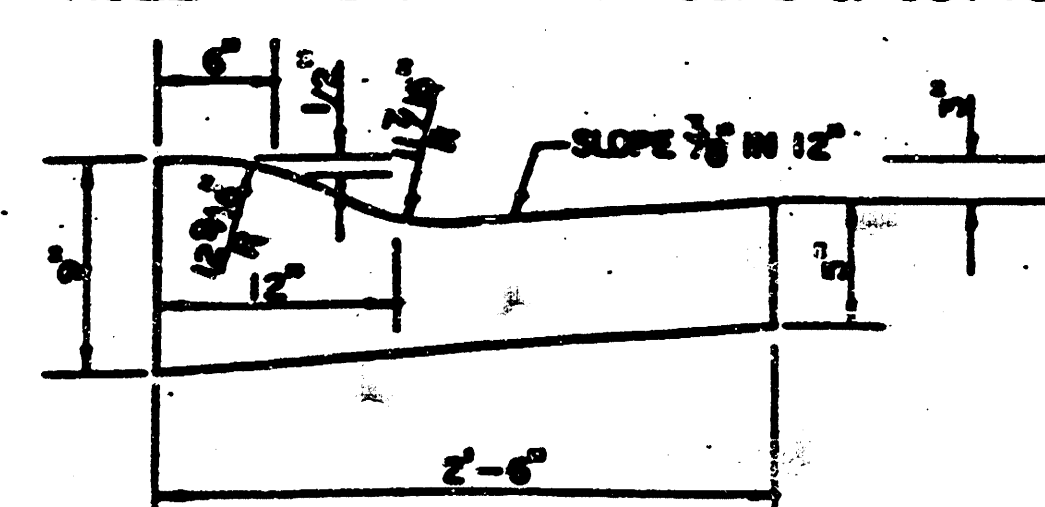


	DISTANCE FROM CENTERLINE (L & R)											
	0'	2'	4'	6'	8'	10'	12'	14'	14.5'	14.67'	15.17'	
A. TOP OF CURBS TO TOP OF SURFACE LIFT	0.13	0.18	0.24	0.30	0.33	0.36	0.43	0.49	—	—	—	—
B. TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.30	0.36	0.41	0.47	0.50	0.53	0.60	0.66	—	—	—	—
C. TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.47	0.52	0.60	0.68	0.71	0.75	0.83	0.90	0.98	1.00	1.01	—
D. TOP OF CURBS TO TOP OF SUBGRADE	0.72	0.77	0.84	0.91	0.94	0.96	1.05	1.12	1.19	1.21	1.21	1.23

COMBINED CURB & GUTTER



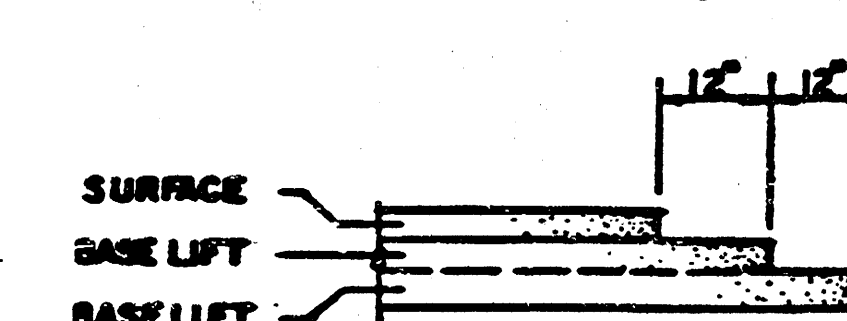
ROLL TYPE COMBINED CURB & GUTTER



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 JOINTS 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).

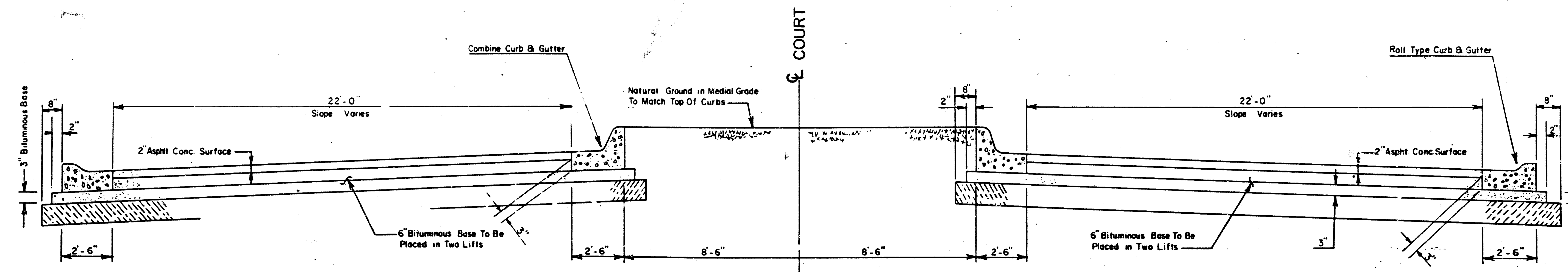
7 INCH RESIDENTIAL ASPHALTIC CONCRETE
PAVEMENT WITH 5 INCH BITUMINOUS BASE
CITY OF WICHITA, KANSAS

PROJECT NUMBER

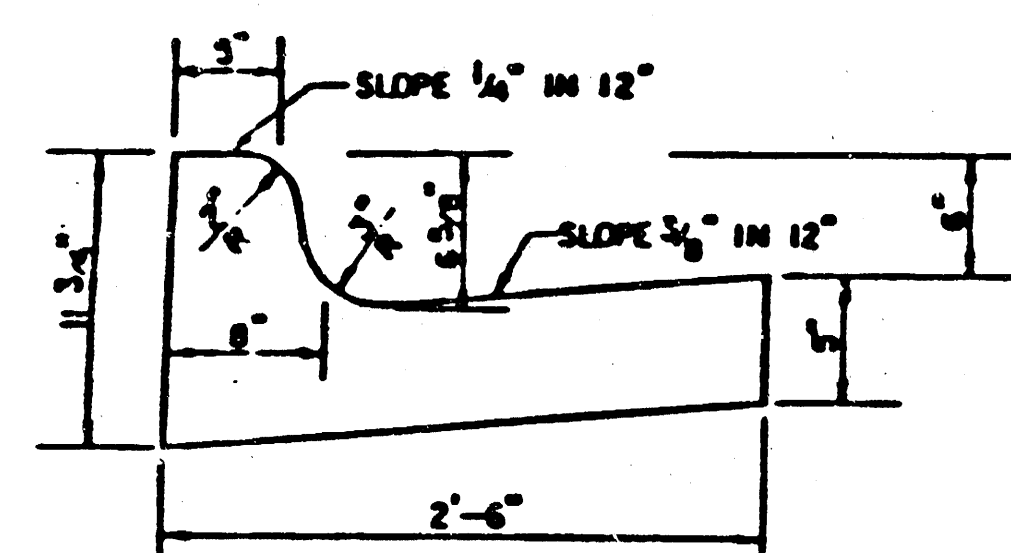
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36

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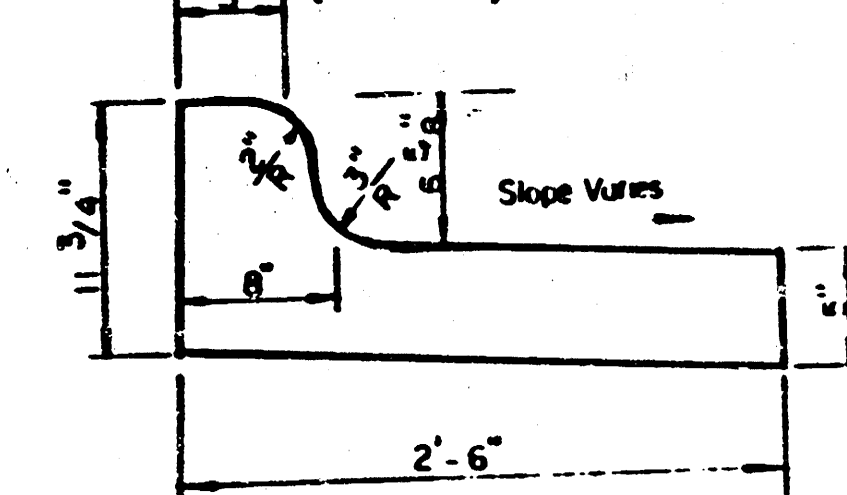
TYPICAL 27' PAVEMENT DETAILS



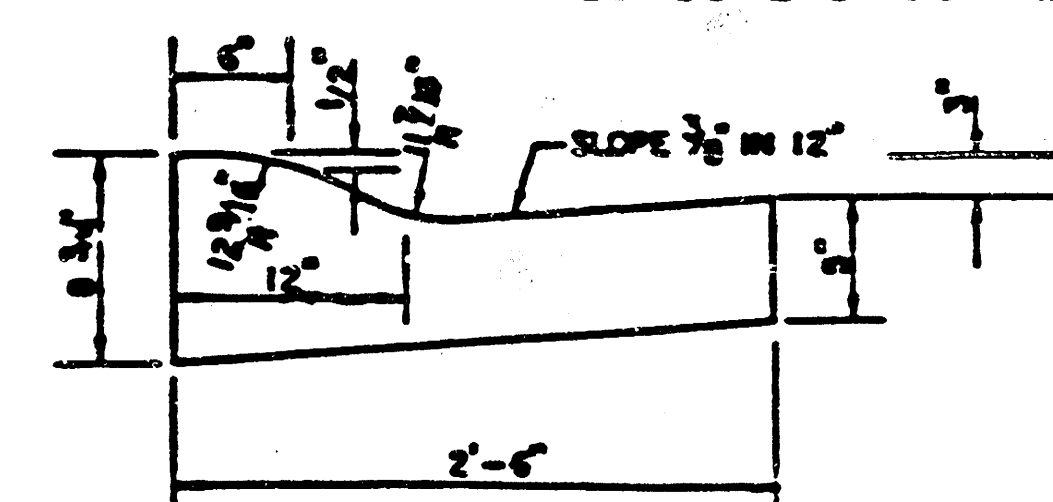
COMBINED CURB & GUTTER



COMBID CURB & GUTTER
(Median)



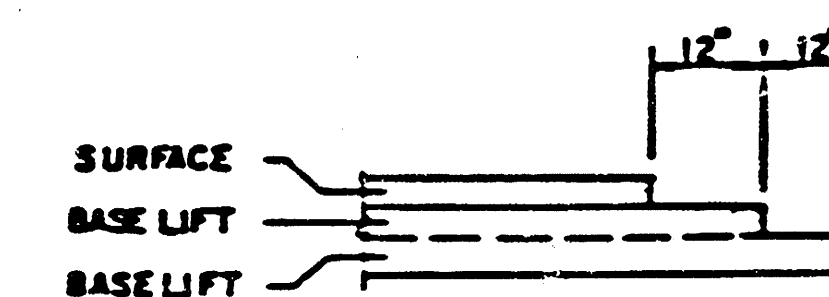
ROLL TYPE COMBINED CURB & GUTTER



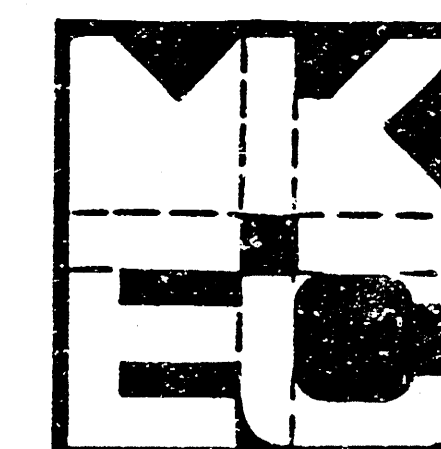
GENERAL NOTES

1. THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 8" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).
2. THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 3" 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.
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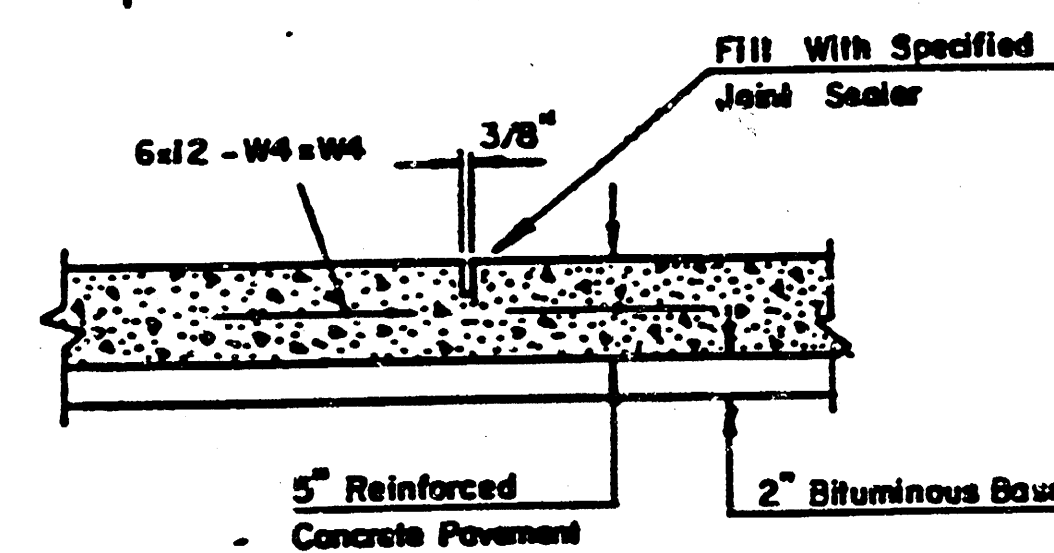
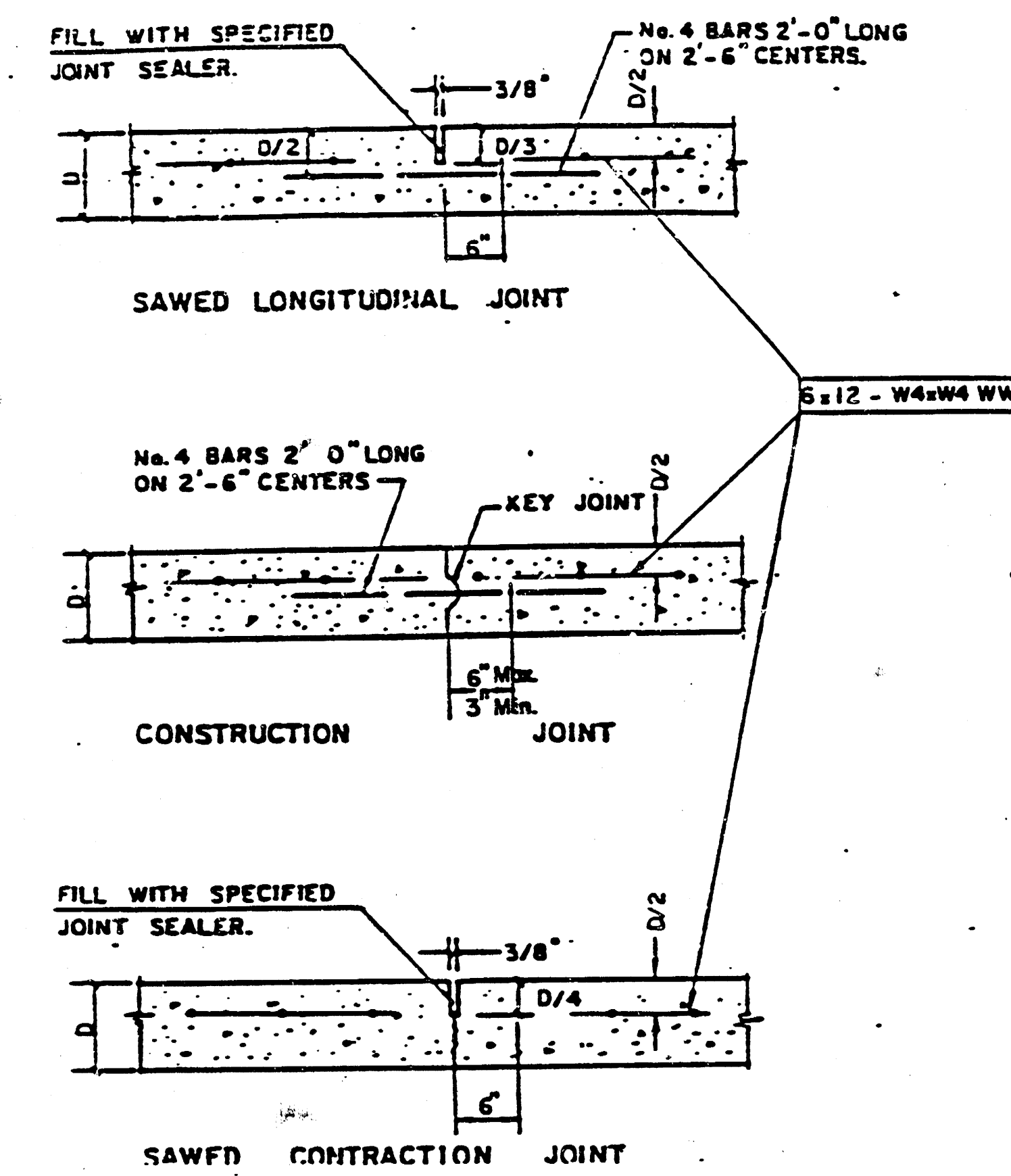
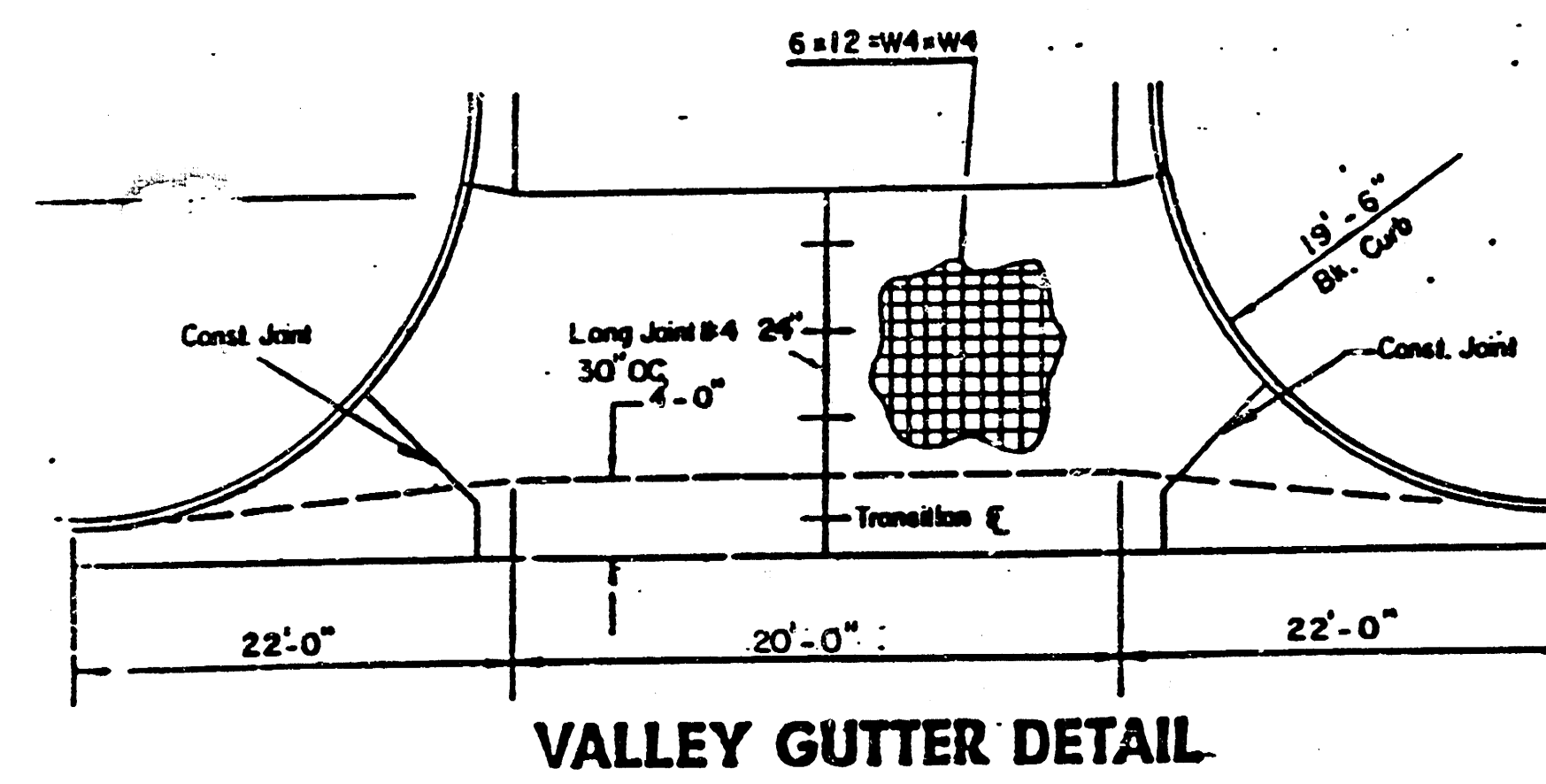
8" INCH RESIDENTIAL
ASPHALTIC CONCRETE
PAVEMENT WITH 6 INCH
BITUMINOUS BASE

MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING 1800
WICHITA, KANSAS 67226

682-6561

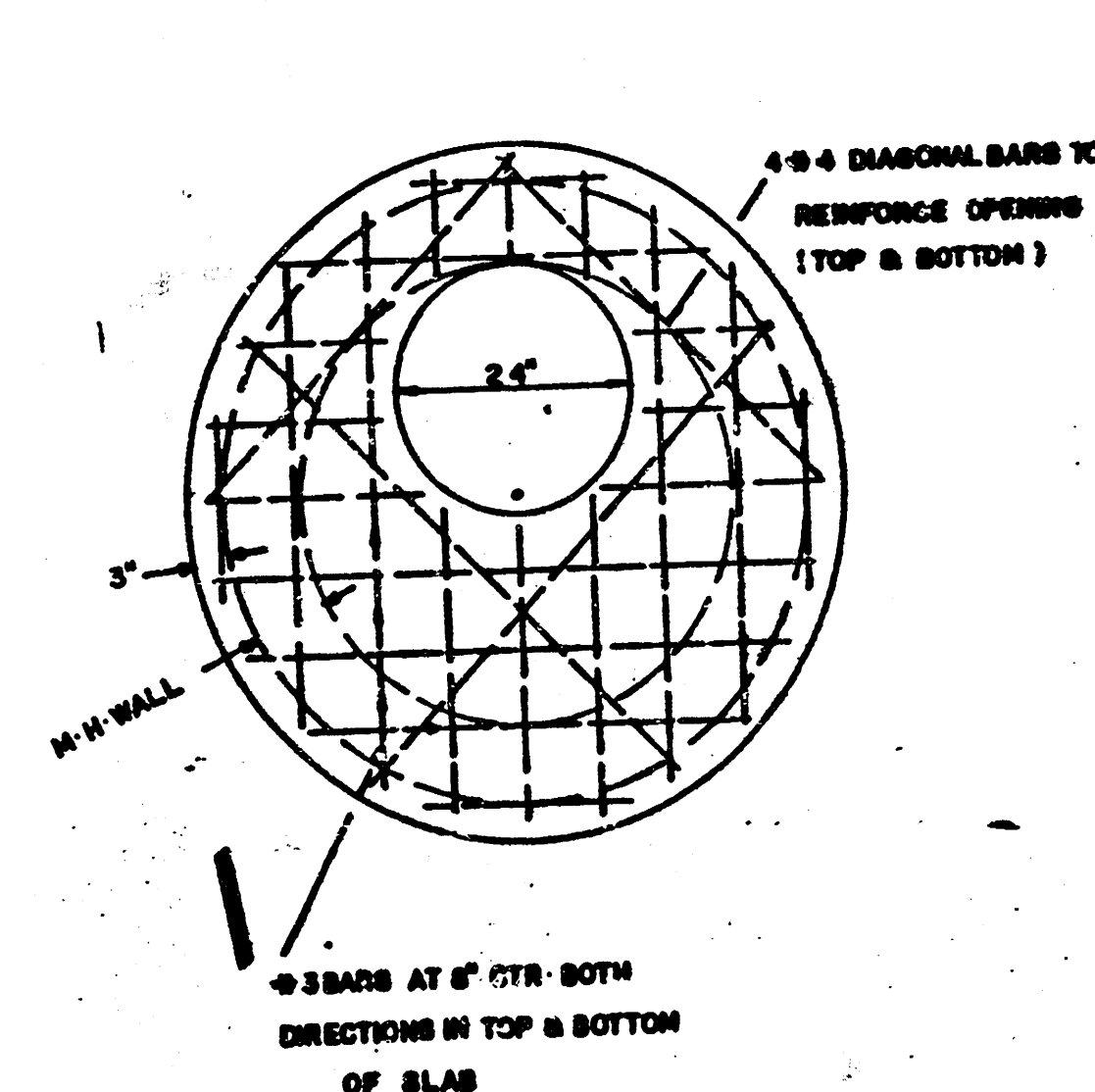
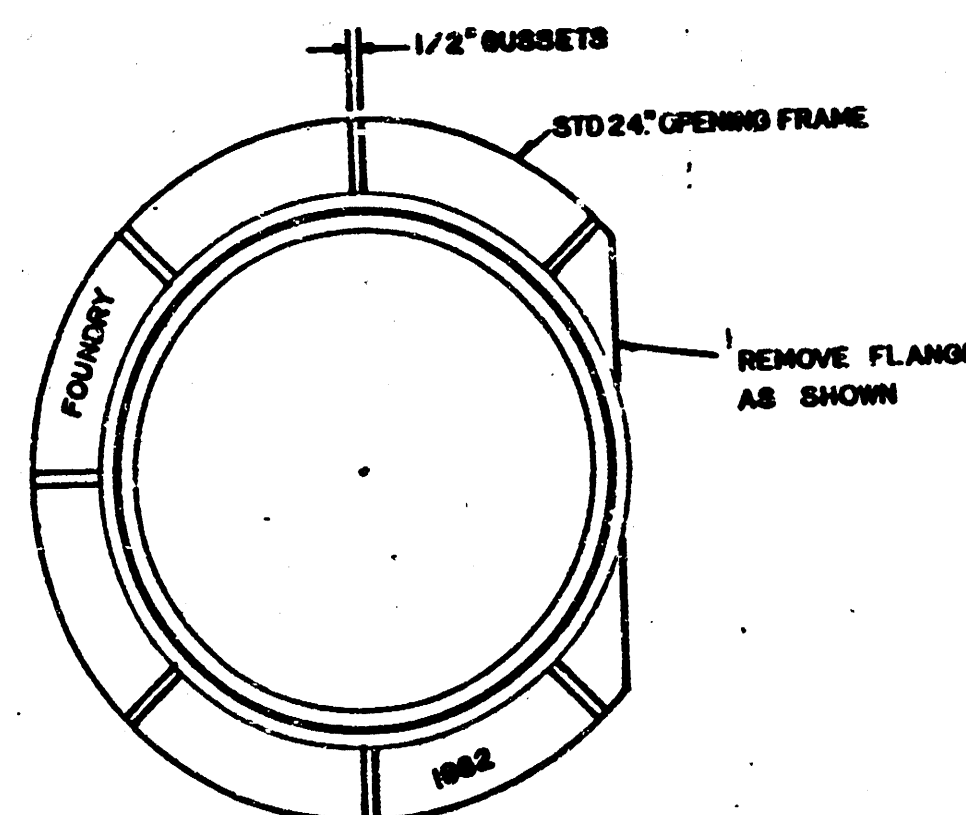
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Checked by
Date
Title
Sheet 4 of 36
of 36

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	DETAILS	Design	FF
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		Checked by	J.F.B.
		Survey by	G.A.
		Date	
MID-KANSAS ENGINEERING CONSULTANTS PA 240 NORTH ROCK ROAD SUITE 130 WICHITA, KANSAS 67206		Sheet 5 of 36	

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MANHOLE FRAME AND COVER DETAIL

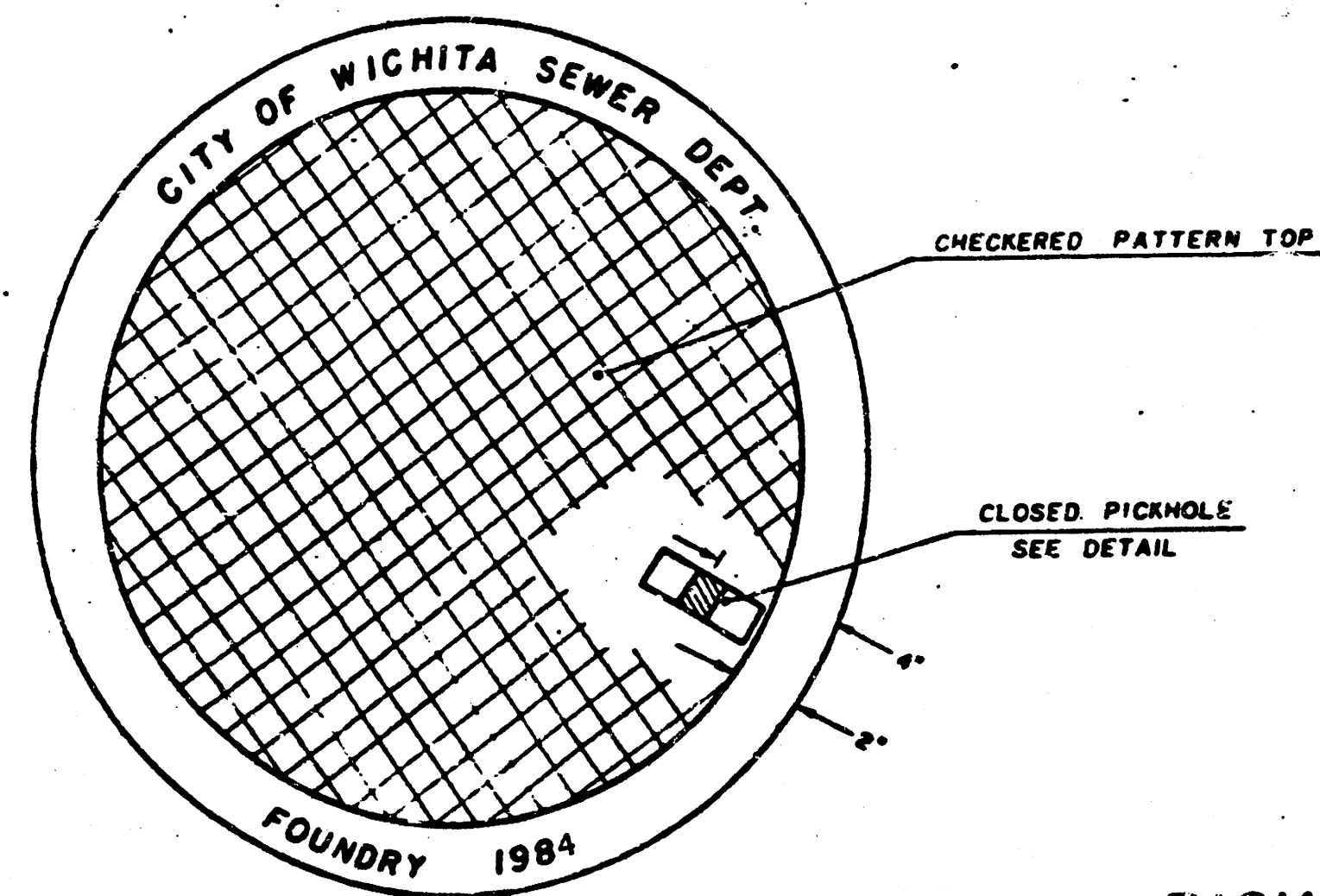
ADOPTED AS STANDARD DESIGN

BY

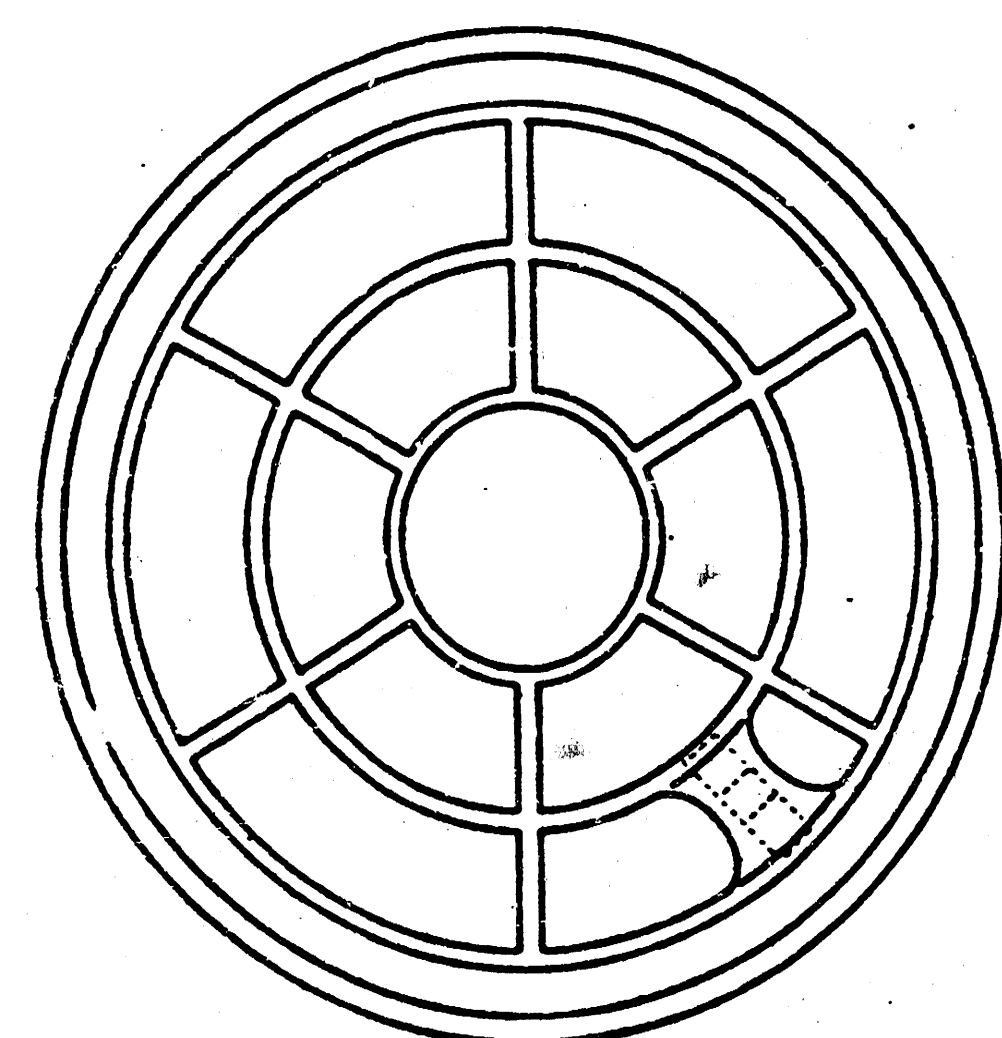
City of Wichita, Kansas

MANHOLE COVER

Weight: 180 Lbs.

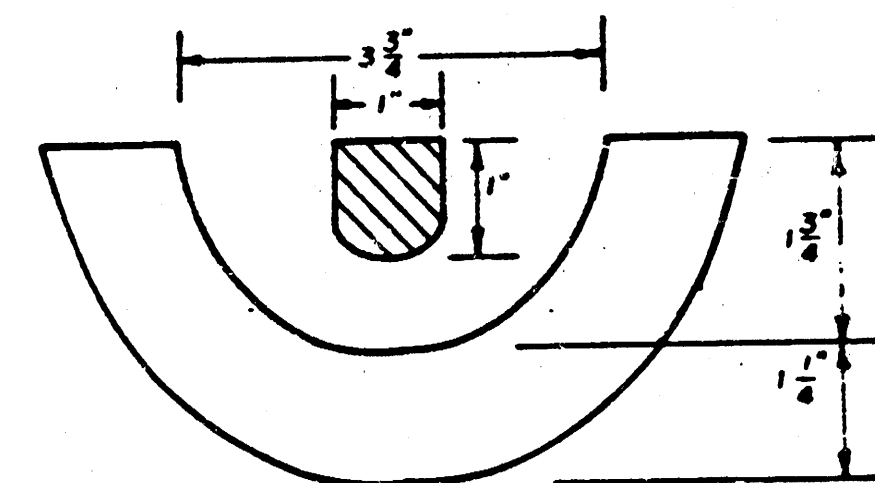
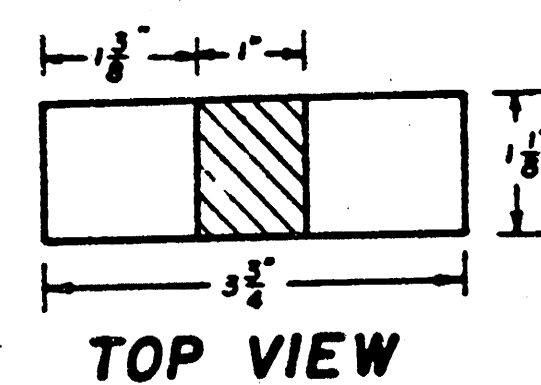


TOP VIEW

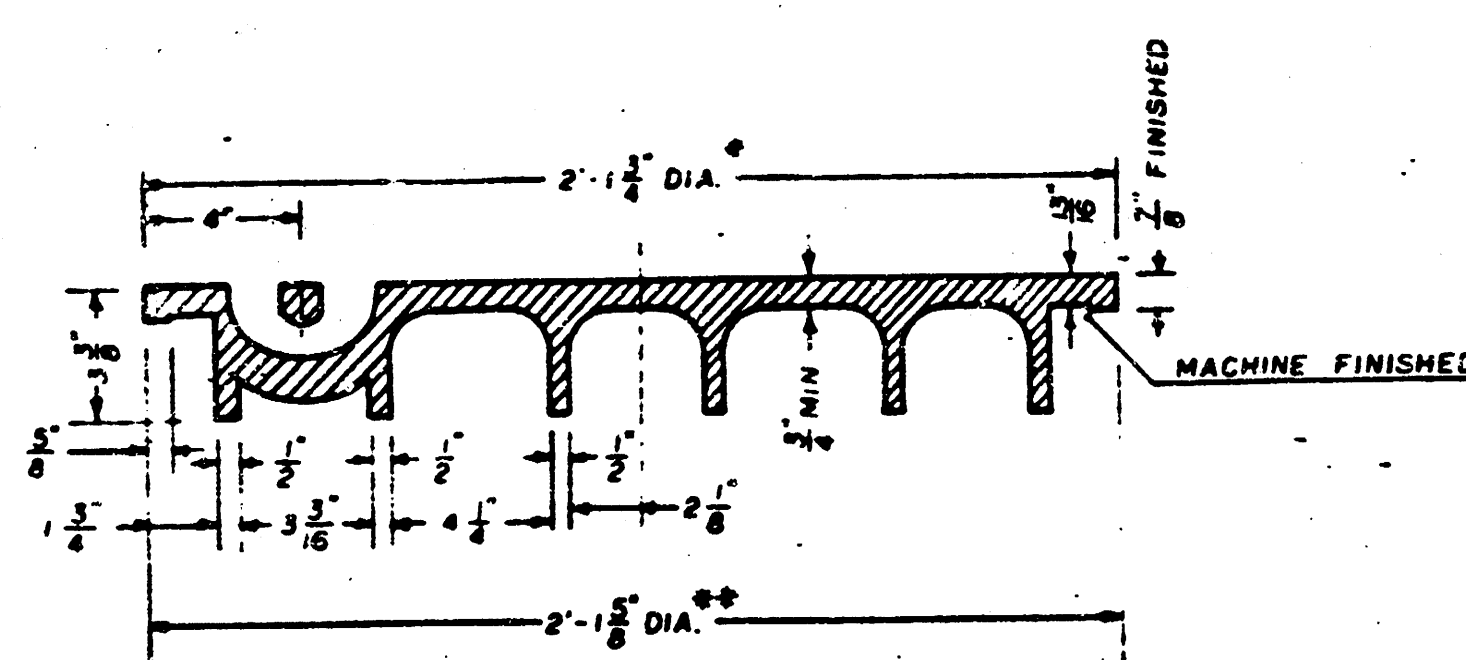


BOTTOM VIEW

PICKHOLE DETAIL



SECTION VIEW

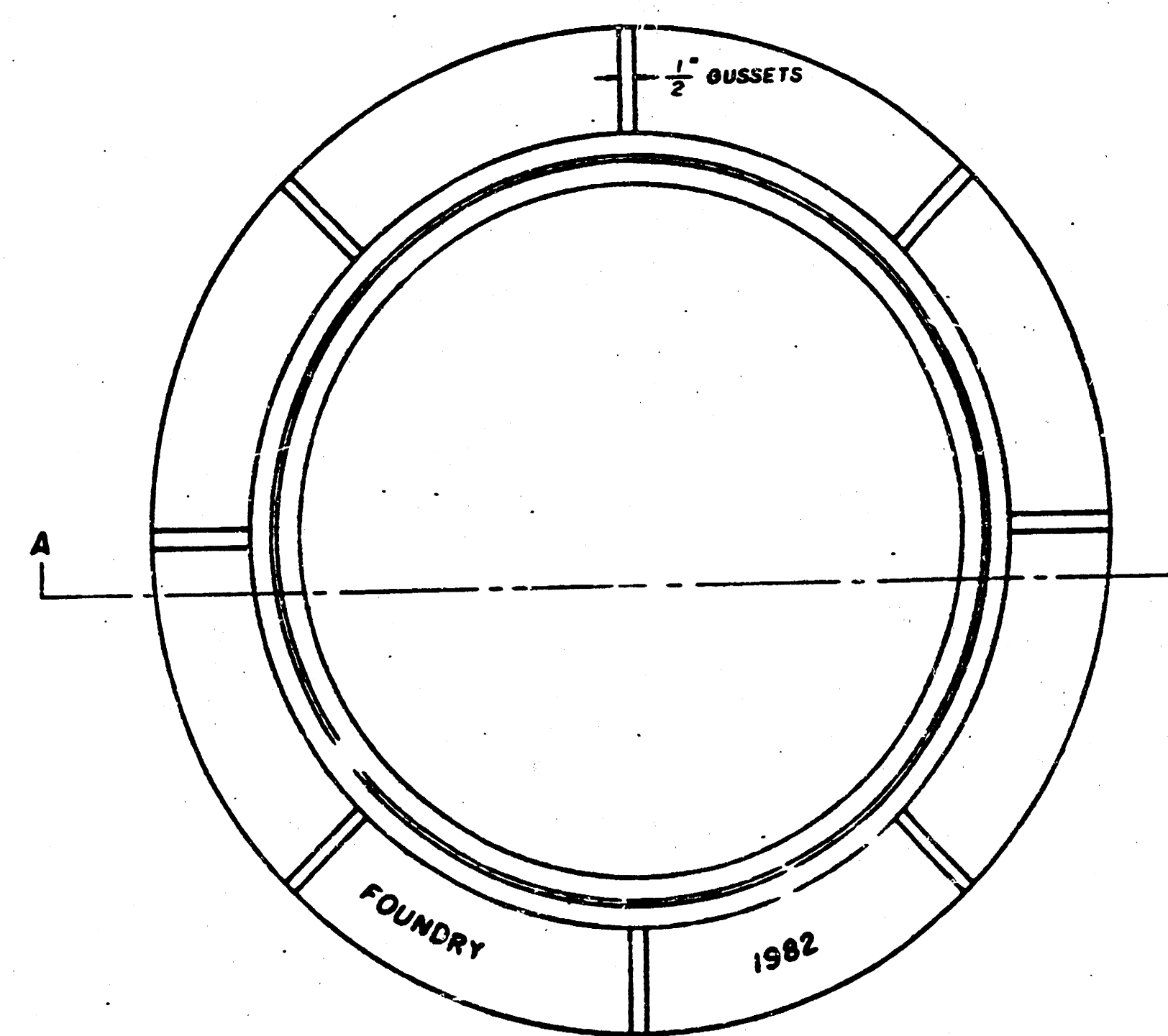


SECTION VIEW

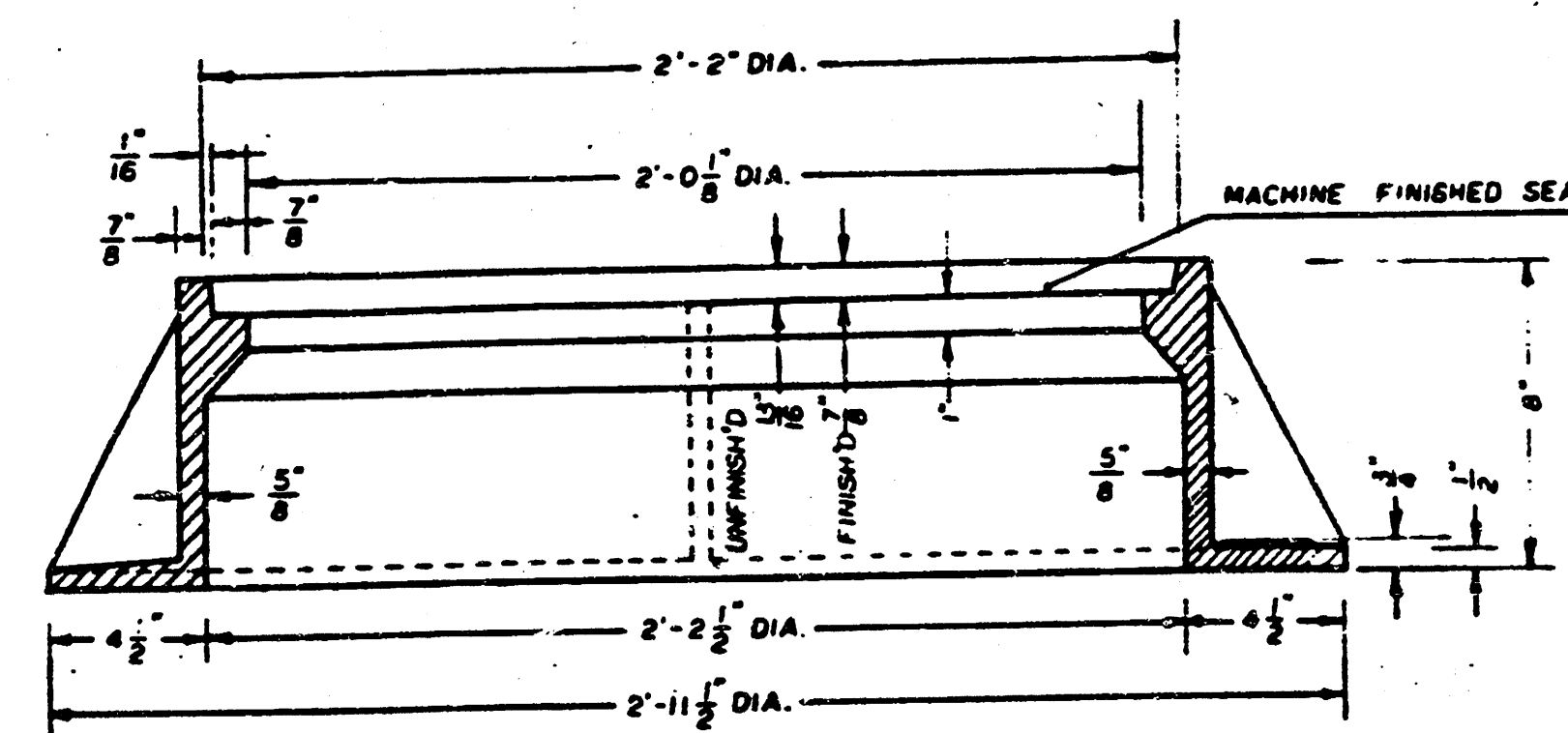
* OUTSIDE DIA. TOP OF COVER
** OUTSIDE DIA. BOTTOM OF COVER

MANHOLE FRAME

Weight: 240 Lbs.



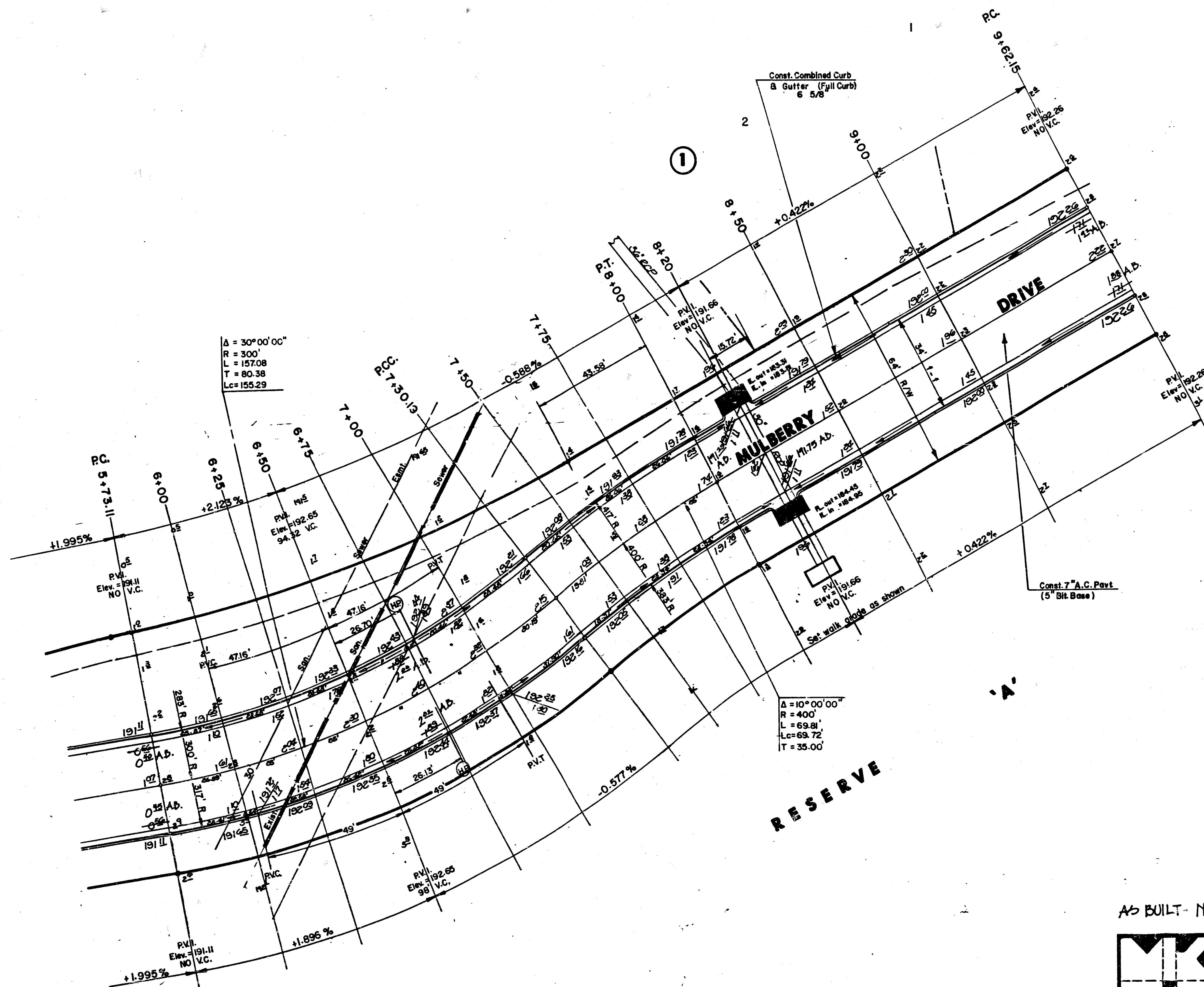
TOP VIEW



SECTION A-A

GENERAL NOTES

1. MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.
2. MANHOLE CASTINGS SHALL BE COATED WITH AN ASPHALT PAINT RESULTING IN A SMOOTH, TOUGH AND TENACIOUS COATING WHICH IS NOT BRITTLE OR TACKY.
3. MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.
4. THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH THAT THESE SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.
5. THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1" IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT". THE WORD DEPARTMENT MAY BE ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.



MULBERRY DRIVE

PROJECT NO. .
448-76-245-80001-000-000-131

PA 9/25
682-6361

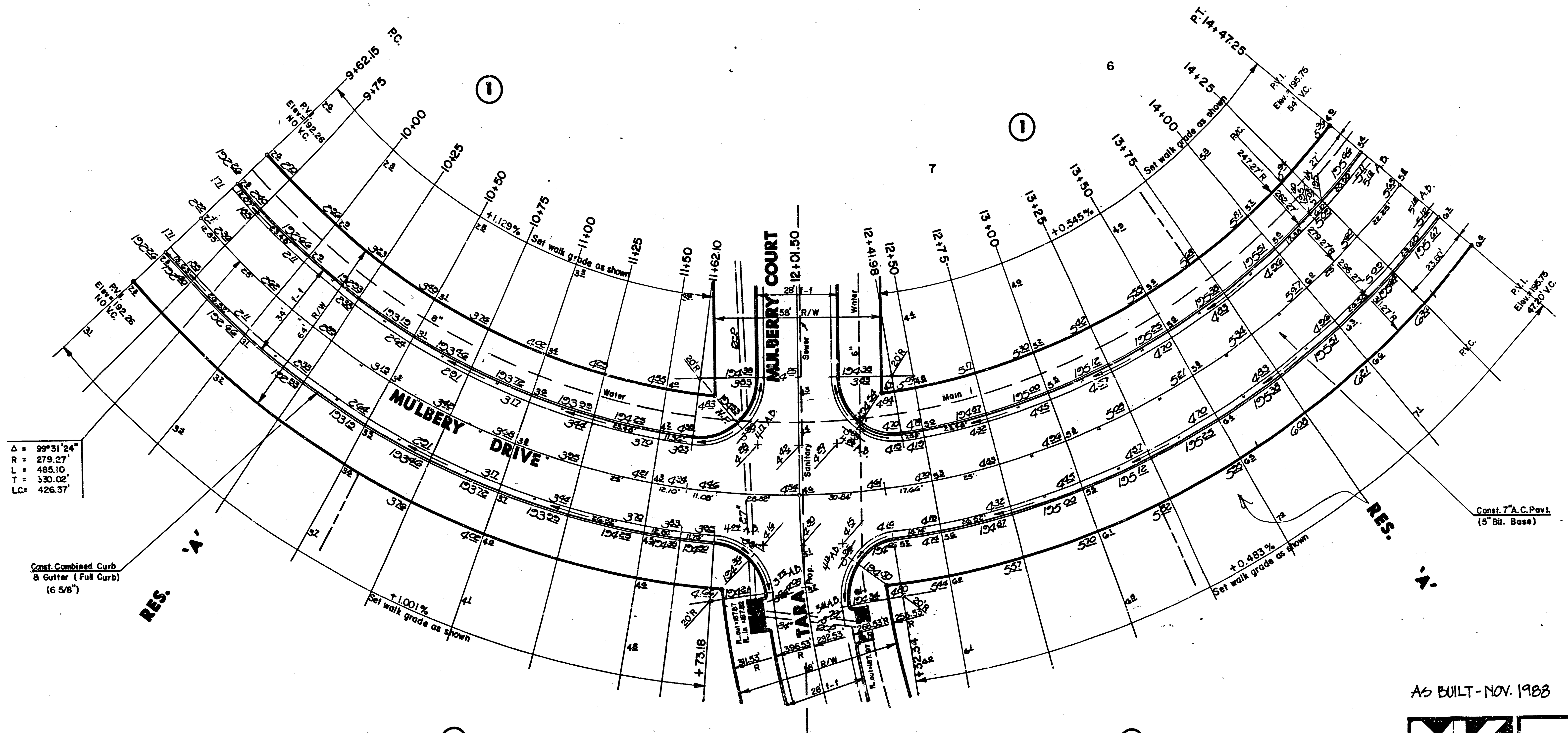
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Date
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of

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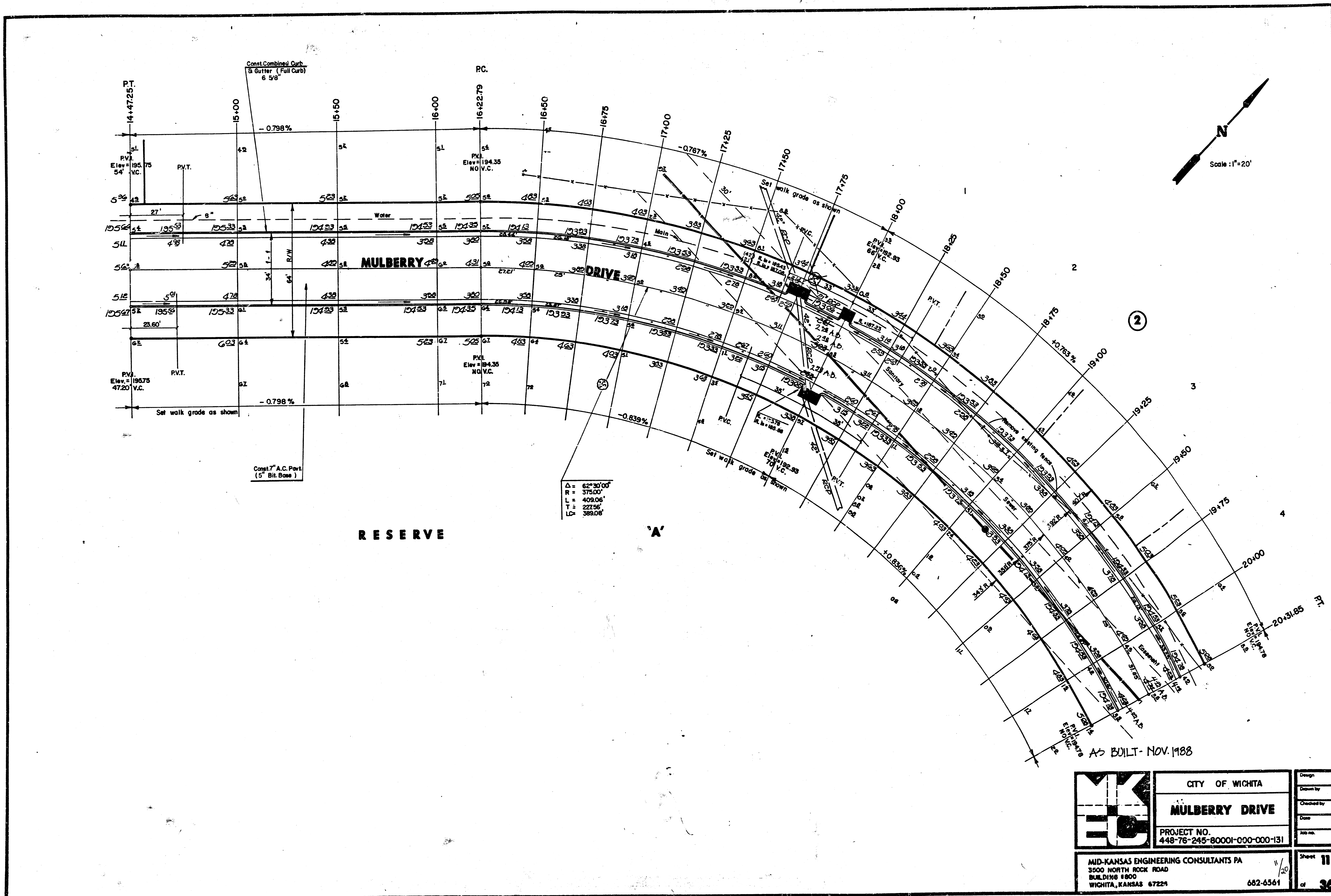
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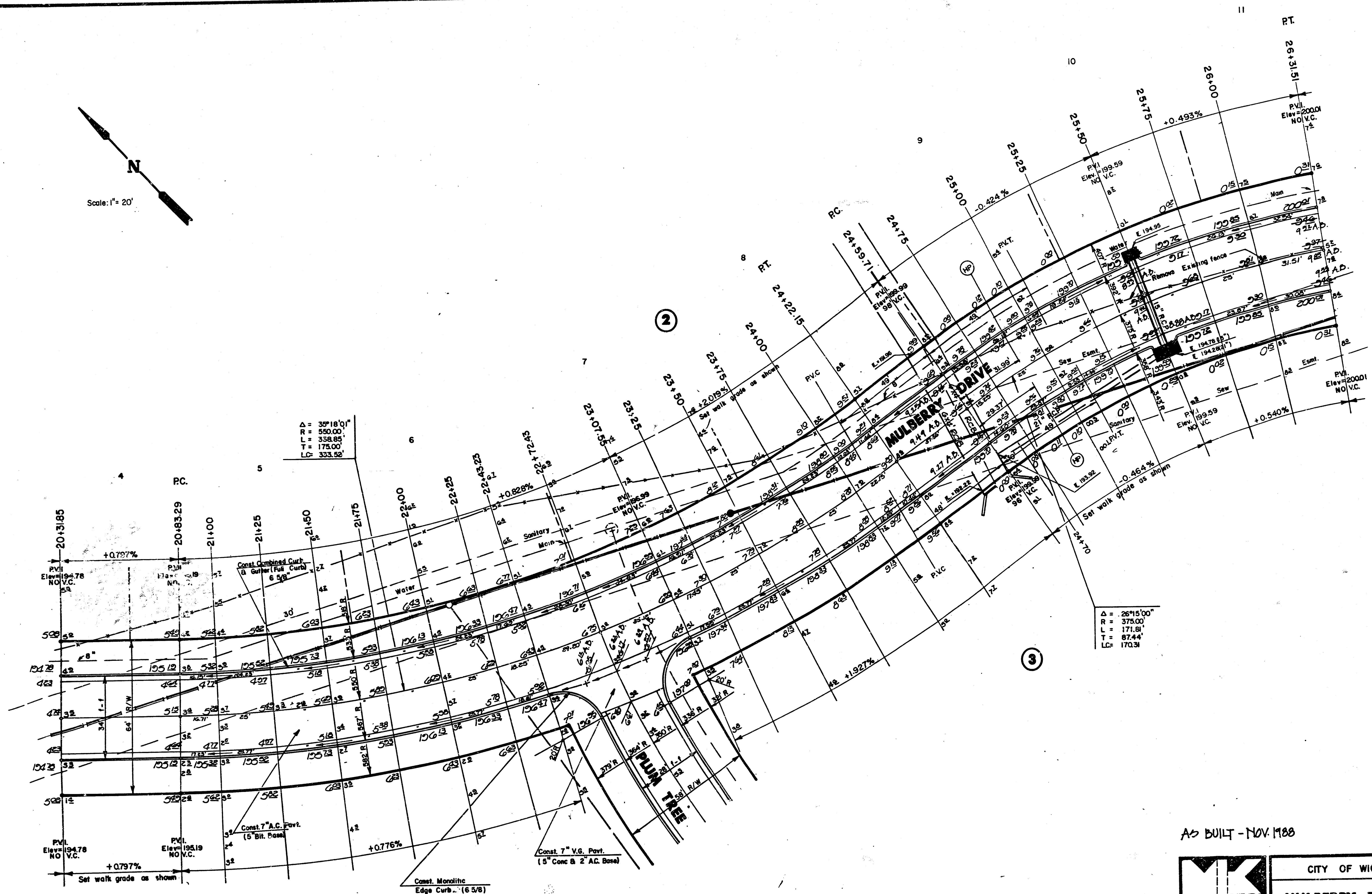
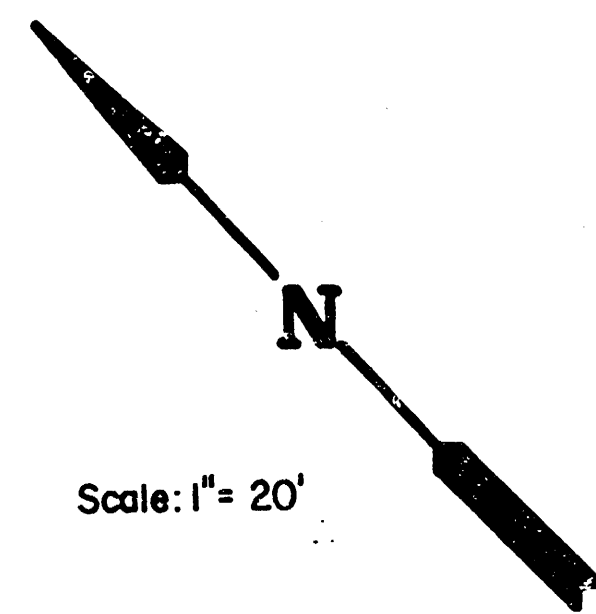
AS BUILT - NOV. 1988

	CITY OF WICHITA		Design
	MULBERRY DRIVE		Drawn by
	PROJECT NO. 448-76-245-80001-000-000-131		Checked by
			Date
MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING #800 WICHITA, KANSAS 67226		682-6561	Sheet 10 of 36

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$\Delta = 35^{\circ}18'01''$
 $R = 550.00'$
 $L = 338.85'$
 $T = 175.00'$
 $LC = 333.56'$

$\Delta = 26^{\circ}15'00''$
 $R = 375.00'$
 $L = 171.81'$
 $T = 87.44'$
 $LC = 170.31'$

AS BUILT - NOV. 1988

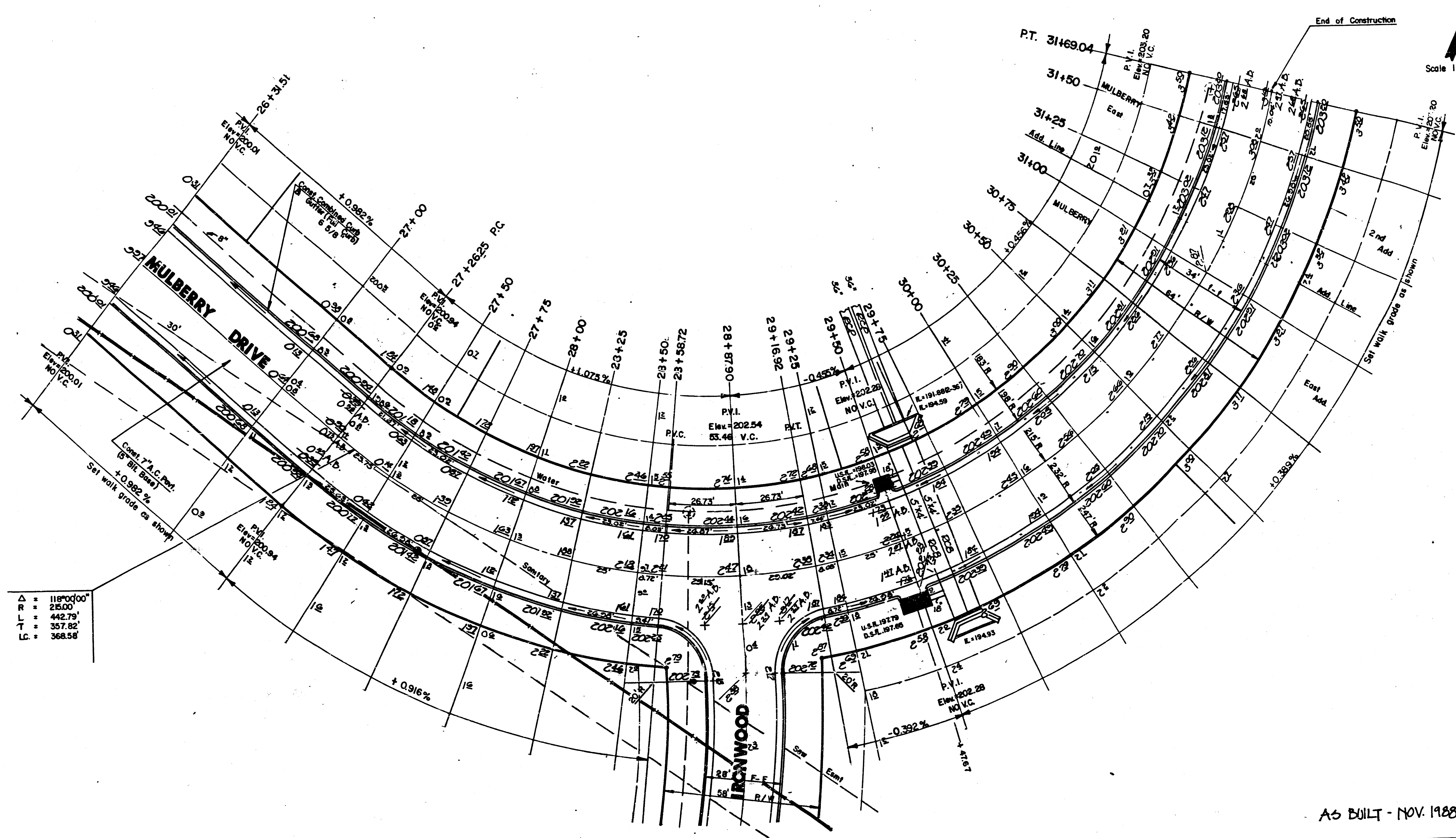


CITY OF WICHITA
MULBERRY DRIVE
 PROJECT NO.
 448-76-245-80001-000-000-131

MID-KANSAS ENGINEERING CONSULTANTS PA
 3500 NORTH ROCK ROAD
 BUILDING 1800
 WICHITA, KANSAS 67226
 682-6561

Design	
Drawn by	
Checked by	
Date	
Job no.	
Sheet	12
of	36

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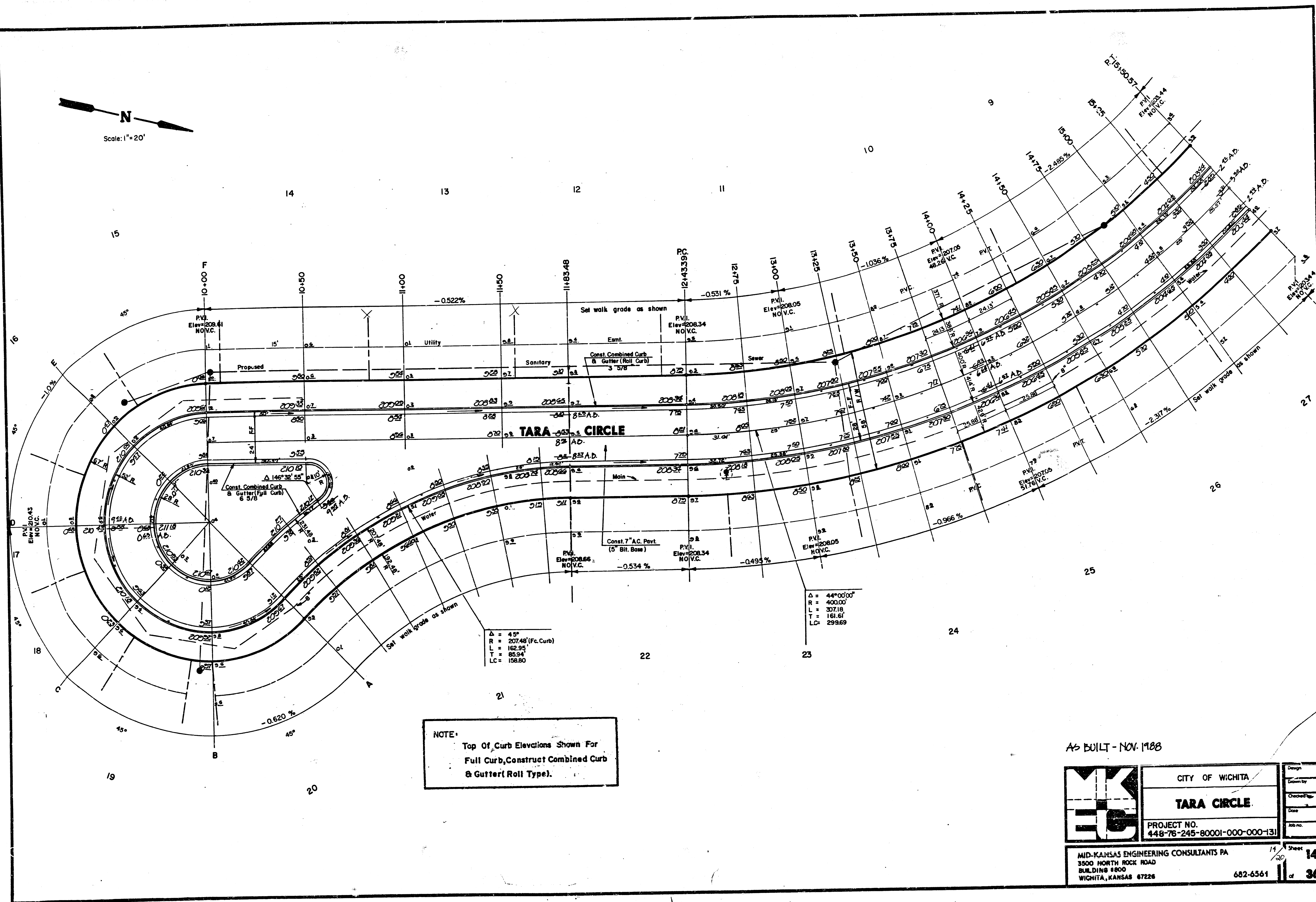
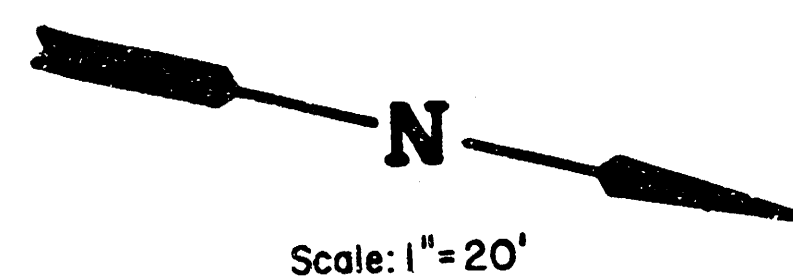


Δ = 118°00'00"
 R = 215.00'
 L = 442.79'
 T = 357.82'
 LC = 368.58'

AS BUILT - NOV. 1988

	CITY OF WICHITA		Design
	MULBERRY DRIVE		Drawn by
	PROJECT NO. 448-78-245-80001-000-000-131		Checked by
			Date
MID-KANSAS ENGINEERING CONSULTANTS PA 3500 N. ROCK ROAD BULDING: 800 WICHITA, KANSAS 67208		682-6561	Sheet 13 of 36

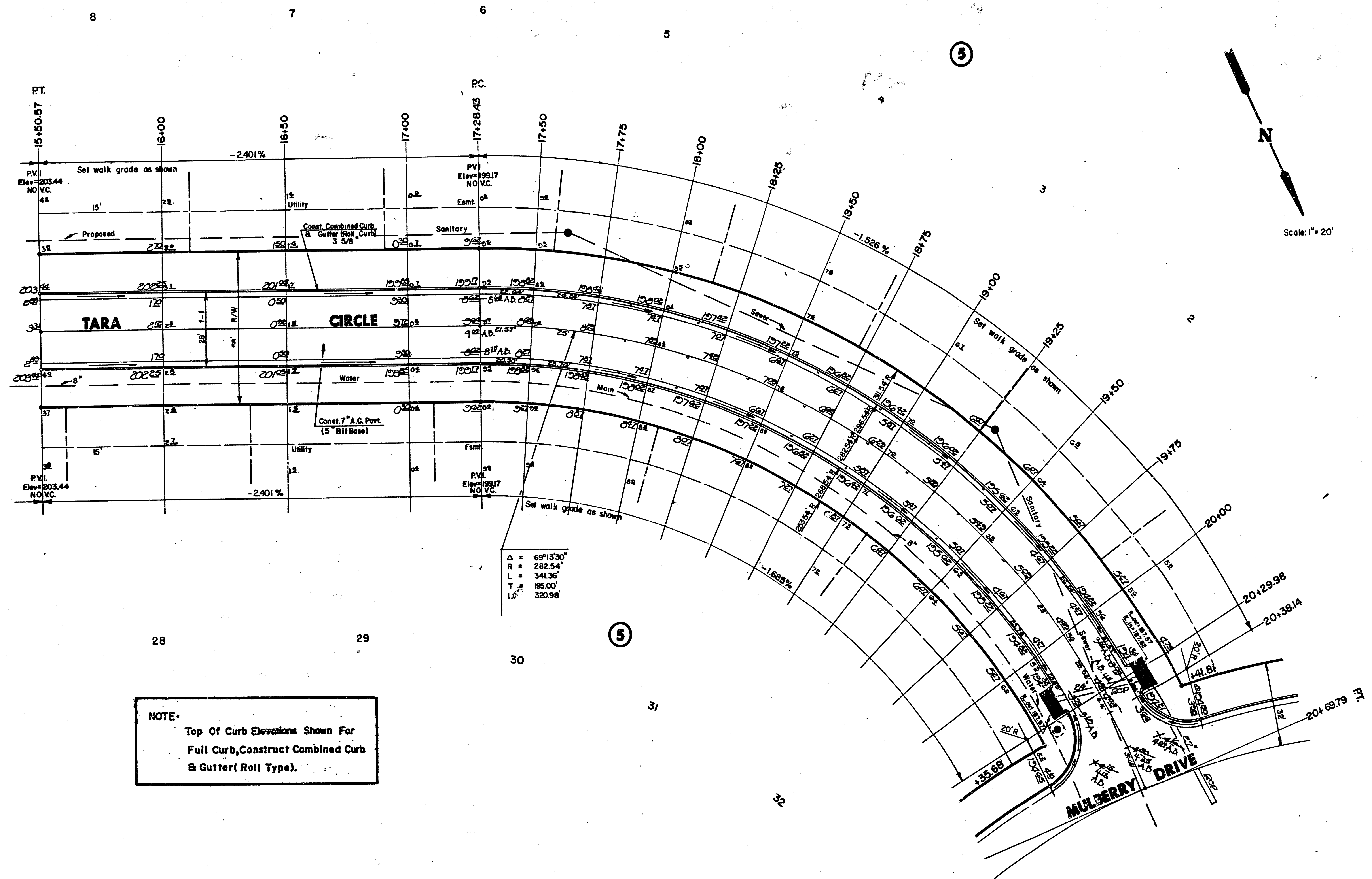
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AS BUILT - NOV. 1988

	CITY OF WICHITA		Design
	TARA CIRCLE		Drawn by
	PROJECT NO. 448-78-245-80001-000-000-131		Checked by
			Date
MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING 8000 WICHITA, KANSAS 67226		Job no.	Sheet 14 of 36

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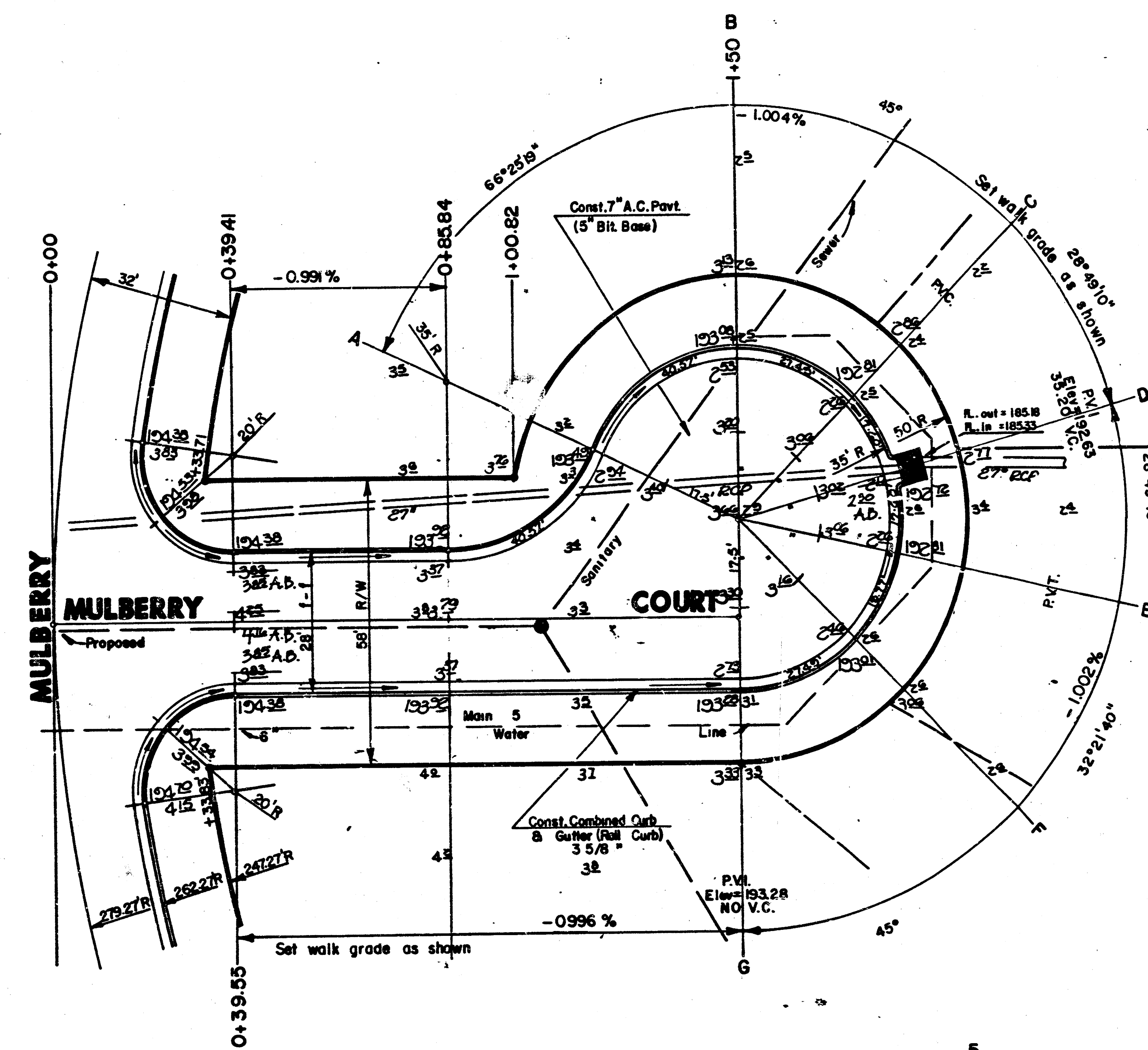
NOTE:
Top Of Curb Elevations Shown For
Full Curb, Construct Combined Curb
& Gutter(Roll Type).

AS BUILT - NOV. 1988

	CITY OF WICHITA		Design
	TARA CIRCLE		Drawn by
	PROJECT NO. 448-76-245-80001-000-000-131		Checked by
			Date
MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BULDING 1800 WICHITA, KANSAS 67226		682-6561	Sheet 15 of 36

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N
Scale: 1" = 20'

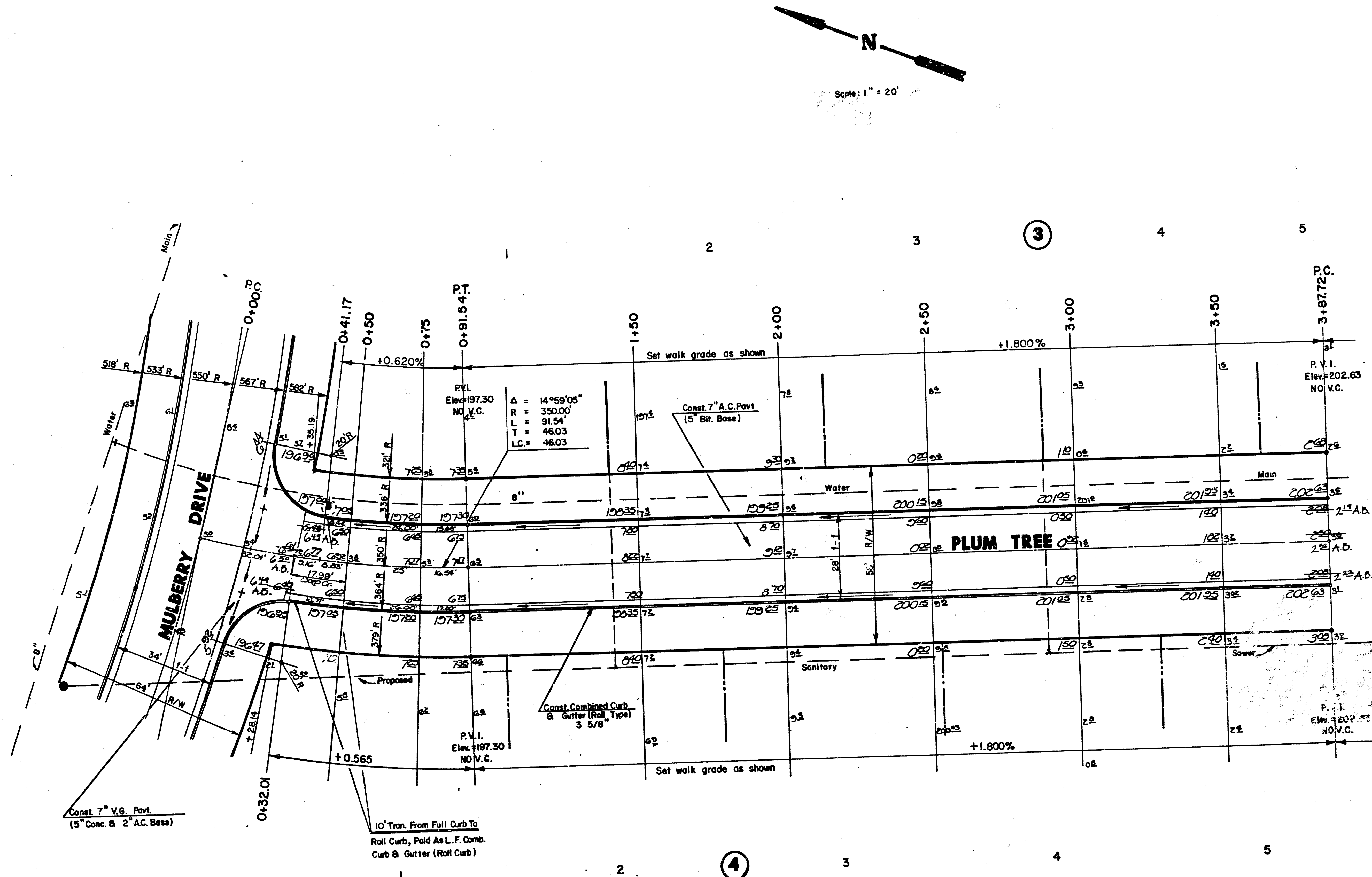


NOTE:
Top Of Curb Elevations Shown For
Full Curb, Construct Combined Curb
& Gutter (Roll Type).

AS BUILT - NOV. 1988

	CITY OF WICHITA	Design
	MULBERRY COURT PROJECT NO. 448-76-245-80001-000-000-131	Drawn by
		Checked by
		Date
MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING 1800 WICHITA, KANSAS 67226		11/20 682-6561 Sheet 16 of 36

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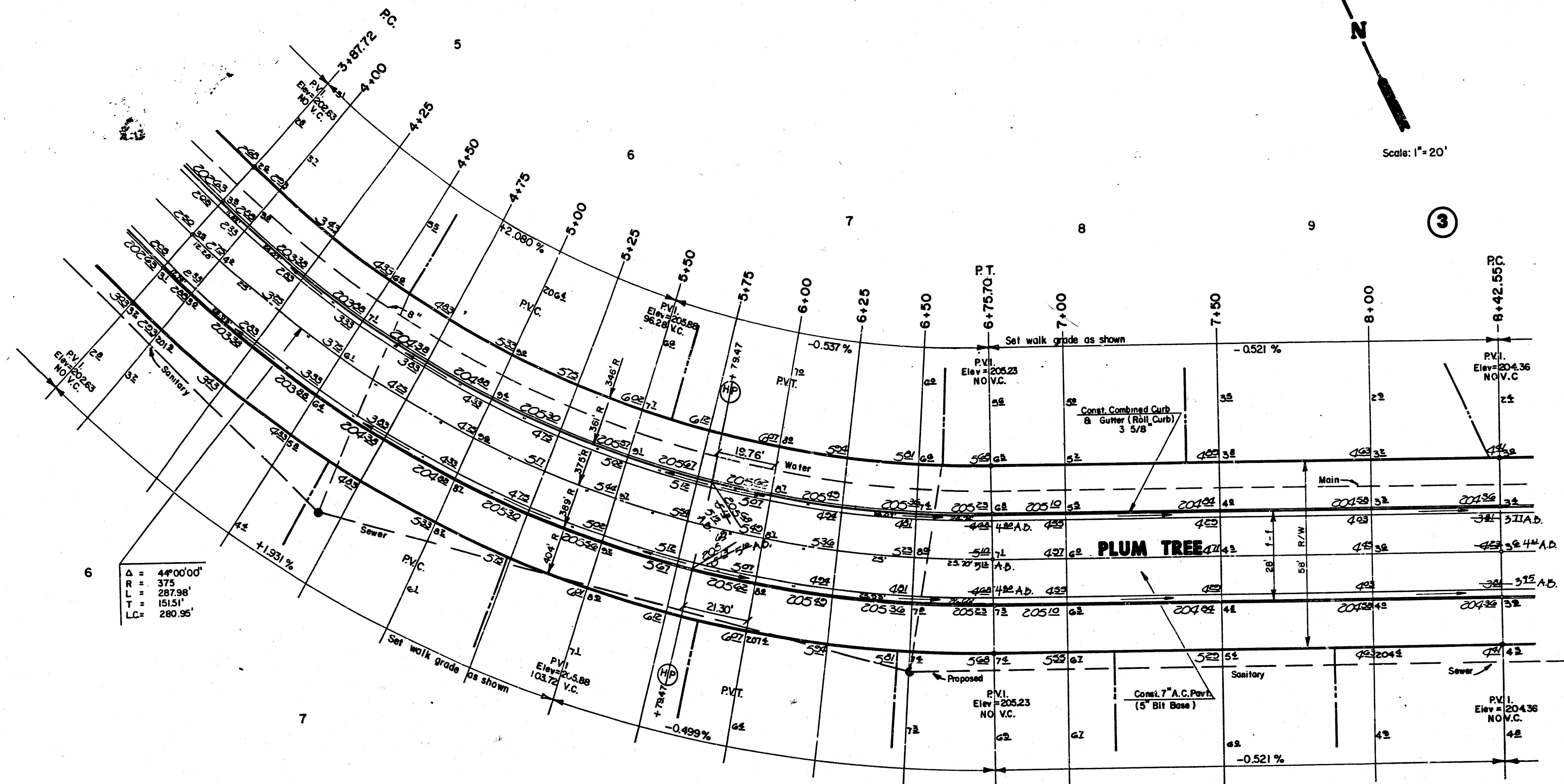


NOTE:
Top Of Curb Elevations Shown For
Full Curb, Construct Combined Curb
& Gutter (Roll Type).

AS BUILT - NOV. 1988

	CITY OF WICHITA		Design
	PLUM TREE		Drawn by
	PROJECT NO. 448-76-245-80001-000-000-131		Checked by
			Date
MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BULFON, KANSAS 67226		682-6561	Sheet 17 of 36

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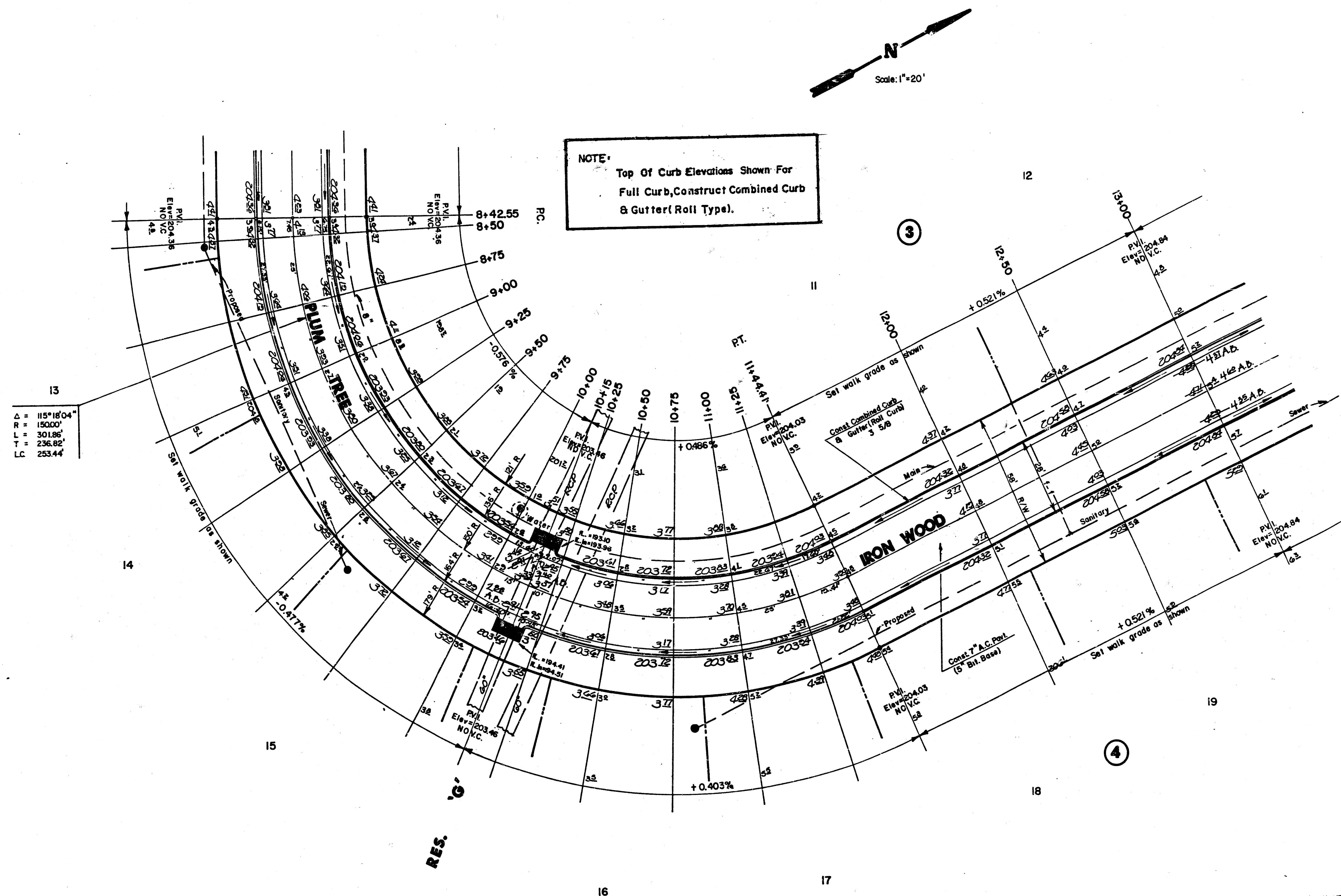


NOTE:
Top Of Curb Elevations Shown For
Full Curb, Construct Combined Curb
& Gutter (Roll Type).

AS BUILT - NOV. 1983

	CITY OF WICHITA	Design
	PLUM TREE	Drawn by
	PROJECT NO. 448-78-245-80001-000-000-131	Checked by
	MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING 8800 WICHITA, KANSAS 67226	Date
682-6561	Job no.	Sheet 18 of 36

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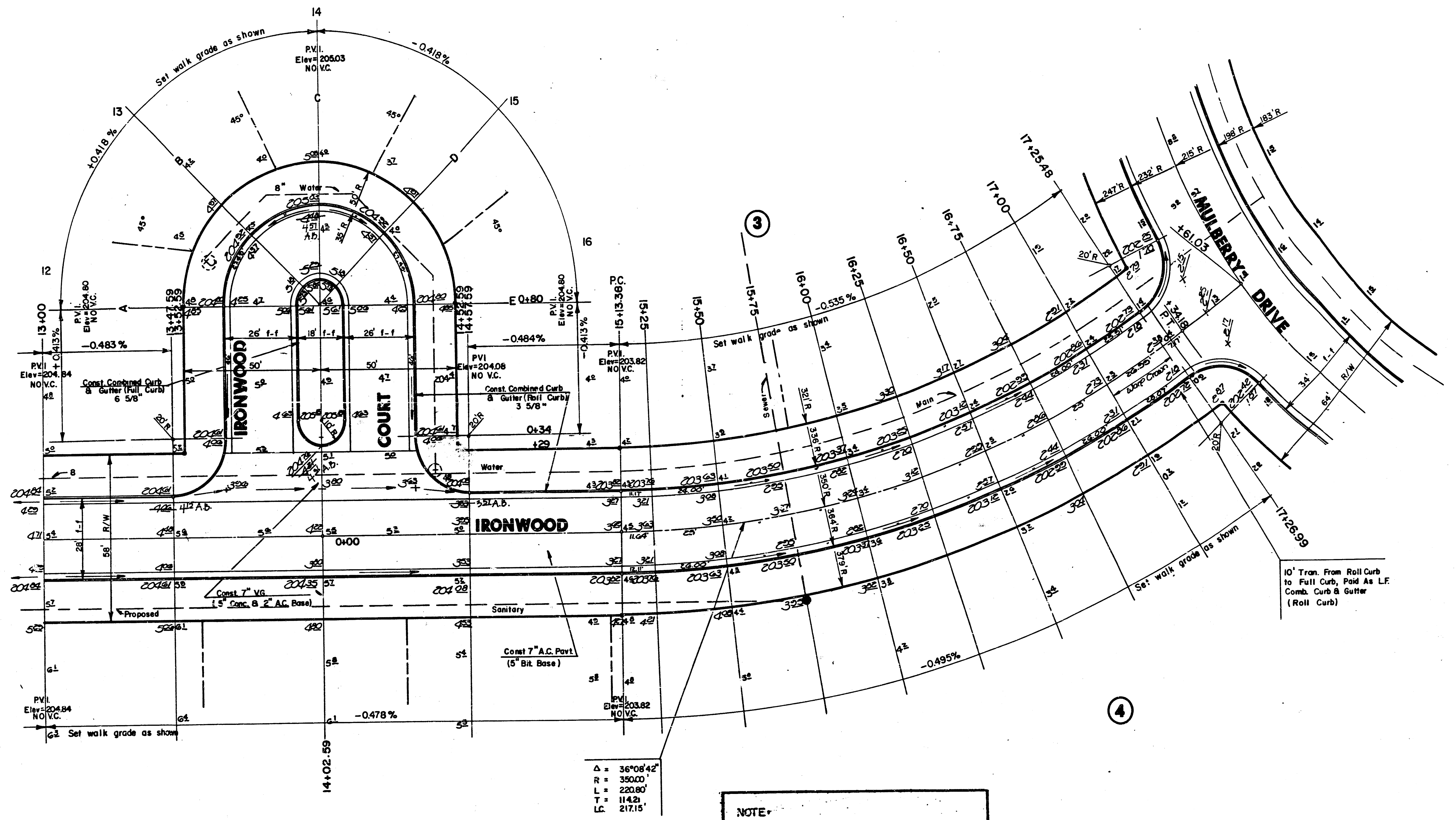


AS BUILT - NOV. 1988

	CITY OF WICHITA		Design
	IRONWOOD PLUM TREE		Drawn by
	PROJECT NO. 448-76-245-80001-000-000-131		Checked by
			Date
MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING 1800 WICHITA, KANSAS 67226			19/20 682-6561 at 36

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N
Scale: 1" = 20'



Δ = 36°06'42"
R = 350.00'
L = 220.80'
T = 114.21'
LC = 217.15'

NOTE:
Top Of Curb Elevations Shown For
Full Curb, Construct Combined Curb
& Gutter (Roll Type).

AS BUILT - NOV. 1988

	CITY OF WICHITA		Design
	IRONWOOD		Drawn by
	PROJECT NO. 448-76-245-80001-000-000-131		Checked by
	MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING #800 WICHITA, KANSAS 67226		Date
		20/20	Job no.
		682-6561	Sheet 20
			of 36

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