PAVING & INCIDENTAL DRAINAGE FOR

WILDERNESS THIRD ADDITION

WILDERNESS : FROM THE NORTH LINE OF RESERVE "A" IN WILDERNESS THIRD ADDITION TO SOUTH LINE OF WILDERNESS ADDITION

WILDERNESS COURT : FROM THE WEST LINE OF WILDERNESS TO AND INCLUDING THE CUL-DE-SAC

PROJECT NO.
472-76-245-81583-000-000-001

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. 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.
3. TRANSITION CURB FROM FULL HEIGHT COMBINATION CURB AND GUTTER TO ROLL TYPE COMBINATION CURB AND GUTTER IS TO BE PAID AS BID FOR LINEAR FEET COMBINED CURB AND GUTTER. (3 5/8" ROLL).
4. CURB SHALL BE DEPRESSED THROUGH DRIVES (1¼"), WHERE ROLL TYPE CURB AND GUTTER IS CONSTRUCTED.
5. 1-A INLET HOOKUPS TO BE BID EACH. SIZE VARIES.
6. TREES SHOWN ON THESE PLANS WERE THERE AT THE TIME OF THE SURVEY. SINCE THAT TIME SOME OF THE TREES MAY HAVE BEEN REMOVED BY OTHER CONSTRUCTION ACTIVITY.

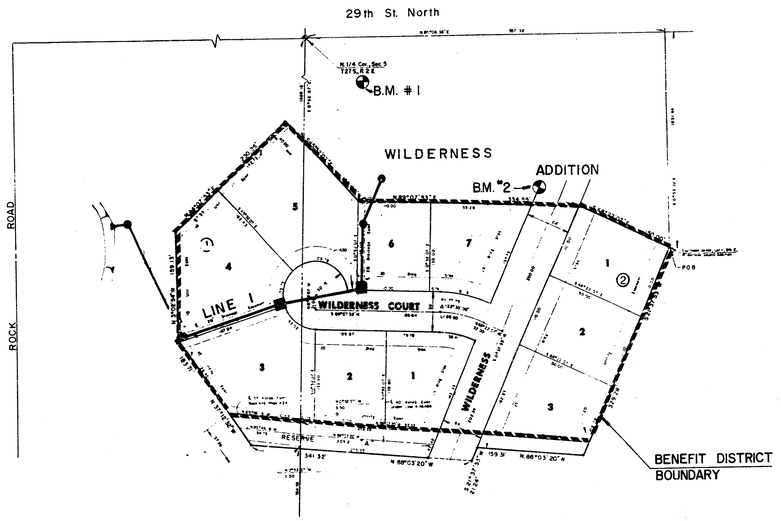
   TREES OUTSIDE THE LIMITS OF THE CURB SHALL BE REMOVED ONLY WITH THE CONSENT OF THE ENGINEER. THE BID OF CLEARING RIGHT-OF-WAY SHALL INCLUDE ALL TREES AND BRUSH TO BE REMOVED ON THIS PROJECT.
7. ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS OTHERWISE NOTED.
8. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
9. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF TWENTY-FOUR (24) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

SOUTHWESTERN BELL TELEPHONE COMPANY	1-316-571-2611
CABLEVISION	262-4270 or 263-2061
KPL GAS SERVICE	263-7511
KANSAS GAS & ELECTRIC	264-1141
CITY OF WICHITA WATER DEPARTMENT	268-4908
CITY OF WICHITA SEWER DEPARTMENT	268-4071
ARKLA GAS COMPANY	942-8350 or 263-8161

BENCH MARKS

B.M. #1 " □ " cut on top curb at the N.E. corner of Lot 27, Block 3, Wilderness.
Elev. = 212.46

B.M. #2 "□" on top of West curb of Wilderness St. 40' North of the Wilderness 3rd Add.
Elev. = 213.14



N

Scale : 1 " = 100'

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	PAVING DETAILS
4	WILDERNESS
5	WILDERNESS COURT
6-7	CROSS SECTIONS
8-9	STORM WATER SEWER PLANS
10-11	STORM WATER SEWER DETAILS
12	FINAL PLAT

MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING #800
WICHITA, KANSAS 67226
682-6561

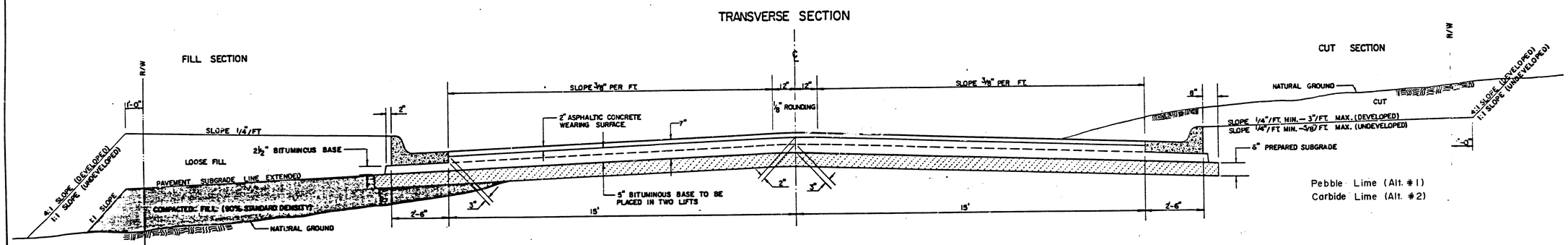
WILDERNESS THIRD PAVING & INCIDENTAL DRAINAGE

Lines by: F.F.
Drawn by: F.F. D.L.M
Checked by: K.H.B
Date: 1/12
Job no.

Sheet 1 of 12

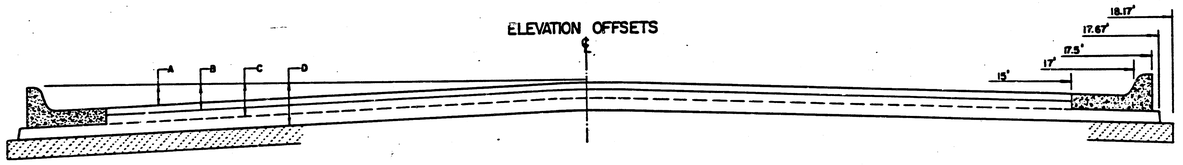
TYPICAL 35' PAVEMENT DETAILS

TRANSVERSE SECTION



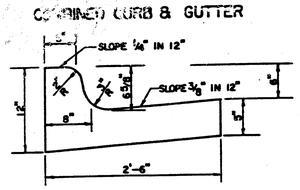
Pebble Lime (Alt. #1)
Carbide Lime (Alt. #2)

ELEVATION OFFSETS

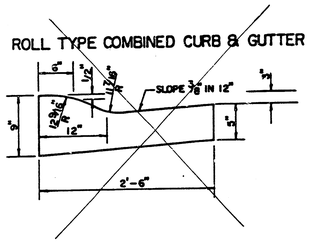


	DISTANCE FROM CENTERLINE (LT. & RT.)												
	0'	2'	4'	6'	8.5'	10'	12'	14'	15'	17'	17.5'	17.67'	18.17'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.04	0.08	0.14	0.21	0.29	0.33	0.39	0.46	0.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.21	0.25	0.31	0.37	0.45	0.50	0.56	0.62	0.65	—	—	—	—
C: TOP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

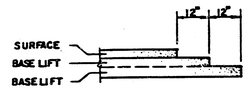
3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

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 PREDEDING 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 PAVEMENTS 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 8" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).

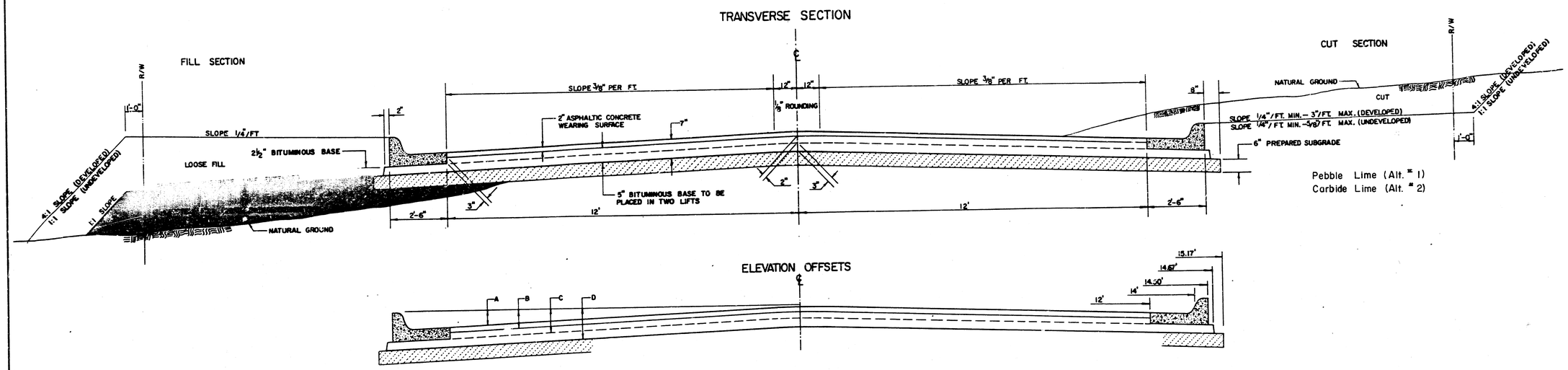
7 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 5 INCH BITUMINOUS BASE

CITY OF WICHITA, KANSAS

PROJECT NUMBER 472-76-245-81583-000-000-001

TYPICAL 29' PAVEMENT DETAILS

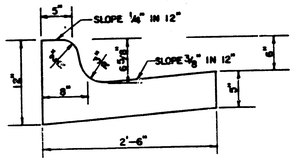
TRANSVERSE SECTION



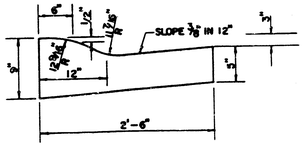
ELEVATION OFFSETS

	DISTANCE FROM CENTERLINE (LT. & RT.)											
	0'	2'	4'	6'	7'	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	0.35	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	0.98	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).

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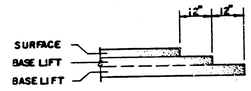
3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

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).

3/12

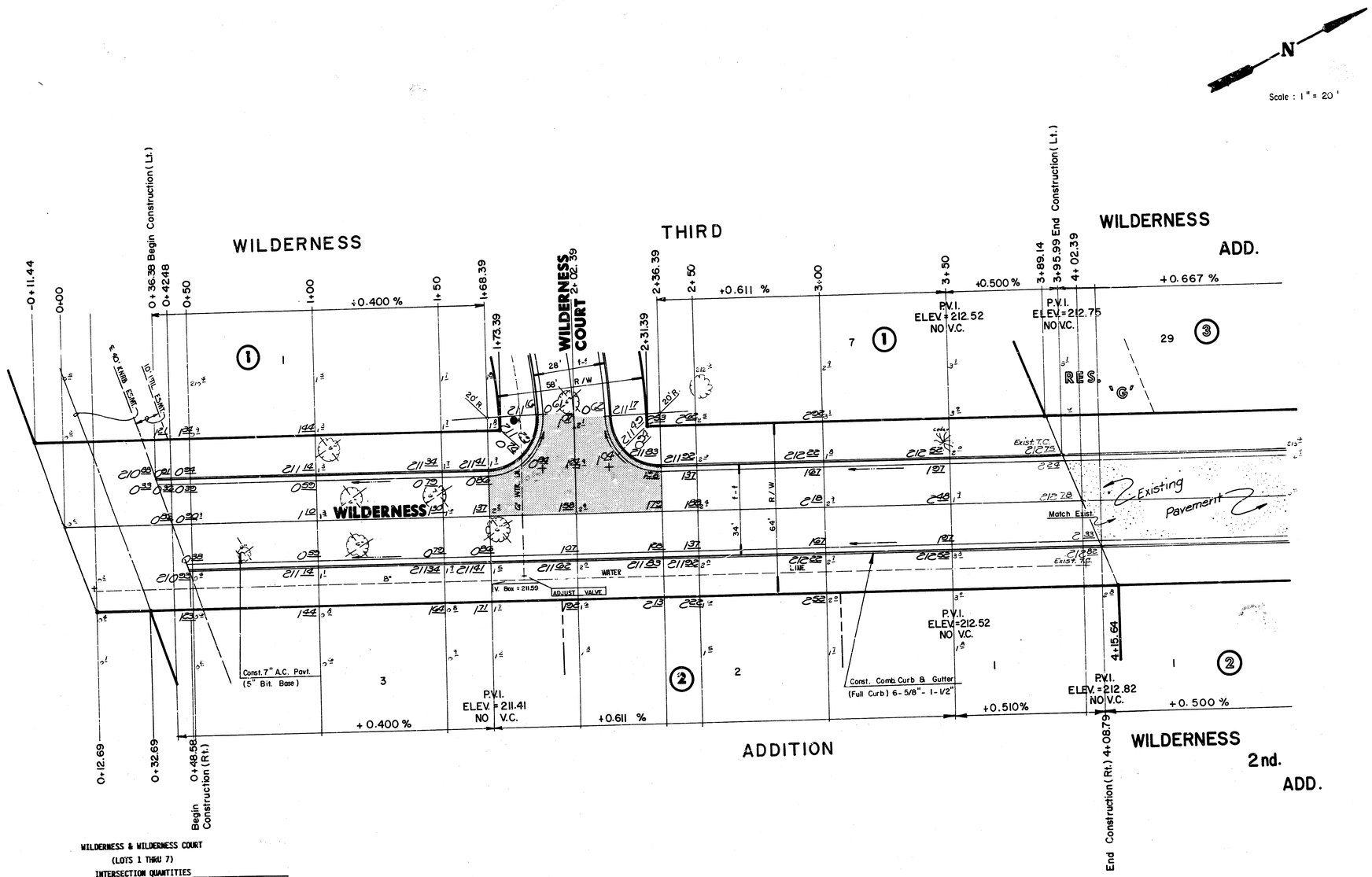
7 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 5 INCH BITUMINOUS BASE

CITY OF WICHITA, KANSAS

PROJECT NUMBER

472-76-245-81583-000-000-001

3/12



WILDERNESS & WILDERNESS COURT
(LOTS 1 THRU 7)
INTERSECTION QUANTITIES

____	S.Y. ___" Concrete Pavement
195.6	S.Y. 7 " Asphaltic Conc. Pavement (5 " Bituminous Base)
18.6	S.Y. 2½ " Bituminous Base
62.8	L.F. Combined Curb & Gutter (6 5/8)
____	L.F. Monolitnic Edge Curb (6 5/8")
____	S.F. 4" Wheelchair Ramp
____	S.F. 4" Walk
____	C.Y. Excavation
____	C.Y. Compacted Fill
____	Lbs. Reinforcing Steel
217.7	S.Y. Manipulation
____	Tons Lime or Cement
___	S.Y. V.G. ___" Concrete & ___" Asphaltic Concrete Base

Excavation

1040.1
10% 104.0
1144.10 C.Y.

Manipulation = 2,770.60 S.Y.

CITY OF WICHITA

WILDERNESS

PROJECT NO.
472-76-245-81583-000-000-001

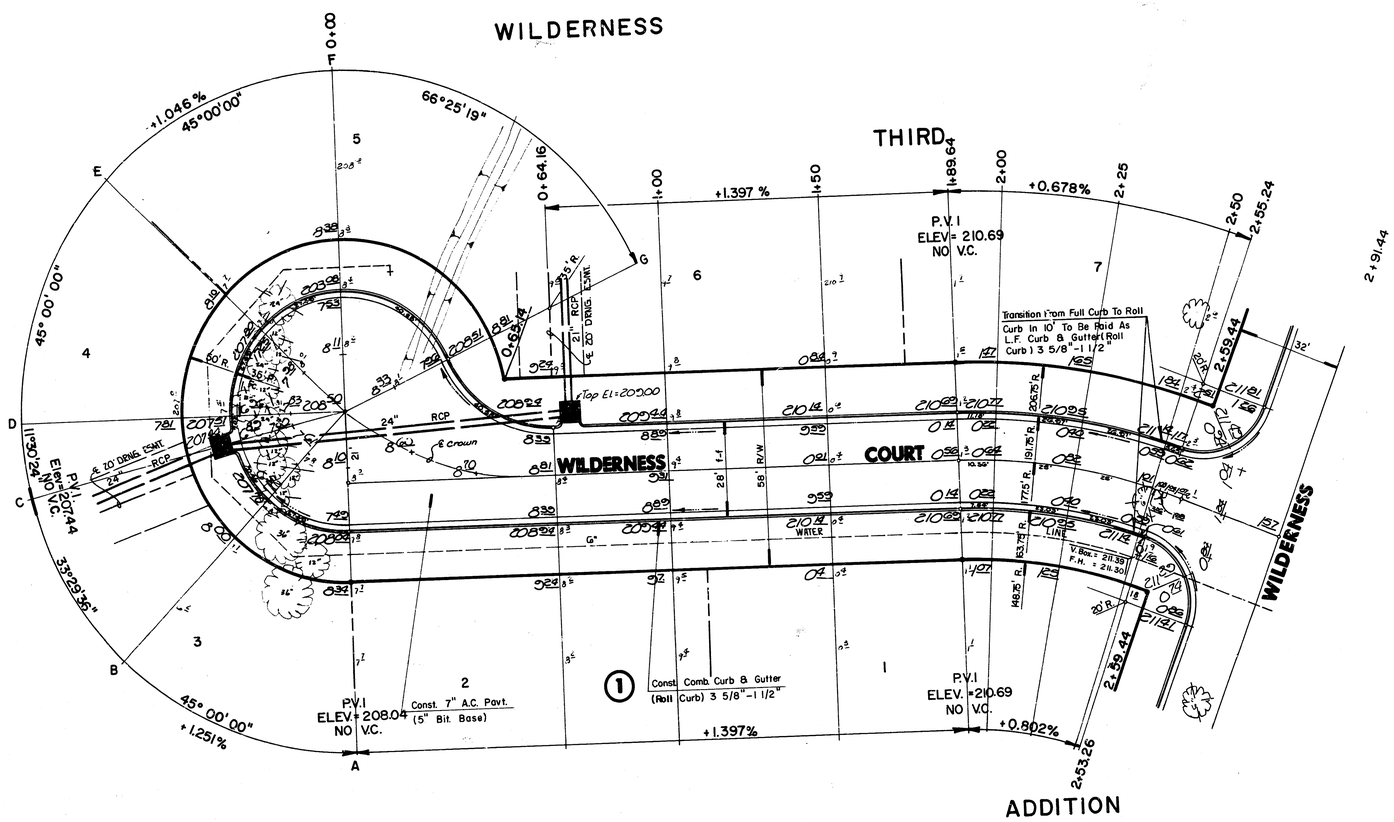
Design: F.F.
Drawn by: ALL
Checked by: K.H.B.
Date: 6-17-87
Tracing No.

Sheet 4
of 12

MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING #800
WICHITA, KANSAS 67226
682-6561

4/12

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



Scale : 1" = 20'

Δ = 22°30'00" R = 177.75' T = 35.36' L = 69.80' LC = 69.35'					
CURVE DATA BASED ON Centerline RAD. Δ /2 = 11°15'00"					
STATION	ARC	CHORD LENGTH 9'Off LtCb	CHORD LENGTH 8'Off RtCb	DEFLECTION	TOTAL DEFLECTION
1+89.64	-	-	-	-	0°00'00"
2+00.00	10.36'	11.64'	9.08'	01°40'11"	01°40'11"
2+25.00	25.00'	28.07'	21.89'	04°01'45"	05°41'56"
2+50.00	25.00'	28.07'	21.89'	04°01'45"	09°43'41"
2+53.26	3.26'	-	2.86'	00°31'31"	10°15'12"
2+56.24	2.98'	7.01'	2.61'	00°28'49"	10°44'01"
2+59.44	3.20'	-	-	00°30'59"	11°15'00"
				Def./Ft. = 9.67017 Min.	

MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING #200
WICHITA, KANSAS 67226
682-6561

CITY OF WICHITA
WILDERNESS COURT
PROJECT NO.
472-76-245-81583-000-000-001

Design: F.F
Drawn by: A.L.L.
Checked by: K.H.B.
Date: 6-17-87
Job no:

Sheet: 5
of 12

215
STA. 4+02.39
210
C. = 23.8
52.39' Exc. = 50.3 c.y.
LF. = 4.1 c.y.

215
STA. 3+50
210
C. = 28
LF. = 4.2
50' Exc. = 70 c.y.
LF. = 7.1 c.y.

215
STA. 3+00
210
C. = 47.6
LF. = 3.5
63.6' Exc. = 123.6 c.y.
LF. = 6 c.y.

215
STA. 2+36.39
210
C. = 57.3
LF. = 1.6
34' Exc. = 77.8 c.y.
LF. = 1 c.y.

215
STA. 2+02.39
210
C. = 66.3
34' Exc. = 76.9 c.y.
LF. = 0.7 c.y.

215
STA. 1+68.39
210
C. = 55.8
LF. = 0.3
68.39' Exc. = 124.7 c.y.
LF. = 2.3 c.y.

215
STA. 1+00
210
C. = 42.7
LF. = 1.5
57.52' Exc. = 81.3 c.y.
LF. = 7.3 c.y.

215
STA. 0+42.48
210
C. = 33.6
LF. = 5.4

TOTAL PROJ Exc. = 1,091.1 c.y.
LF. = 66.6 c.y.

TOTAL Exc. = 604.6 c.y.
LF. = 23 c.y.

WILDERNESS

6/12

50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45

WILDERNESS THIRD ADDITION
PAVING CROSS SECTIONS
PROJ. NO. 472-76-245-8583-000-000-001

215
STA. 2+59.44
210

C. = 74.3
59.44' Exc. = 136.9 c.y.

215
STA. 2+00
210

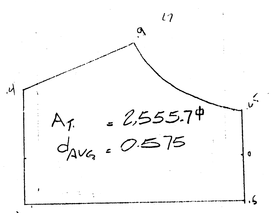
C. = 50.1
50' Exc. = 86.7 c.y.

215
STA. 1+50
210

C. = 43.5
85.84' Exc. = 83.6 c.y.
L.F. = 25.9 c.y.

210
STA. 0+64.16
205

C. = 9.1
L.F. = 16.3



Exc. = 54.4 c.y.

210
STA. G
205

C. = 23.5
L.F. = 1.8
20.96' Exc. = 22.1 c.y.
L.F. = 0.7 c.y.

210
STA. F
205

C. = 33.5
14.20' Exc. = 13.3 c.y.
L.F. = 2.1 c.y.

210
STA. E
205

C. = 17.1
L.F. = 8
17.83' Exc. = 14.6 c.y.
L.F. = 9.9 c.y.

210
STA. C
205

C. = 27.1
L.F. = 5
10.57' Exc. = 10.4 c.y.
L.F. = 1.8 c.y.

210
STA. B
205

C. = 26.2
L.F. = 6.7
14.20' Exc. = 13.5 c.y.
L.F. = 3.2 c.y.

210
STA. A
205

C. = 25.3
L.F. = 5.3

TOTAL Exc. = 435.5 c.y.
L.F. = 38.6 c.y.

WILDERNESS COURT

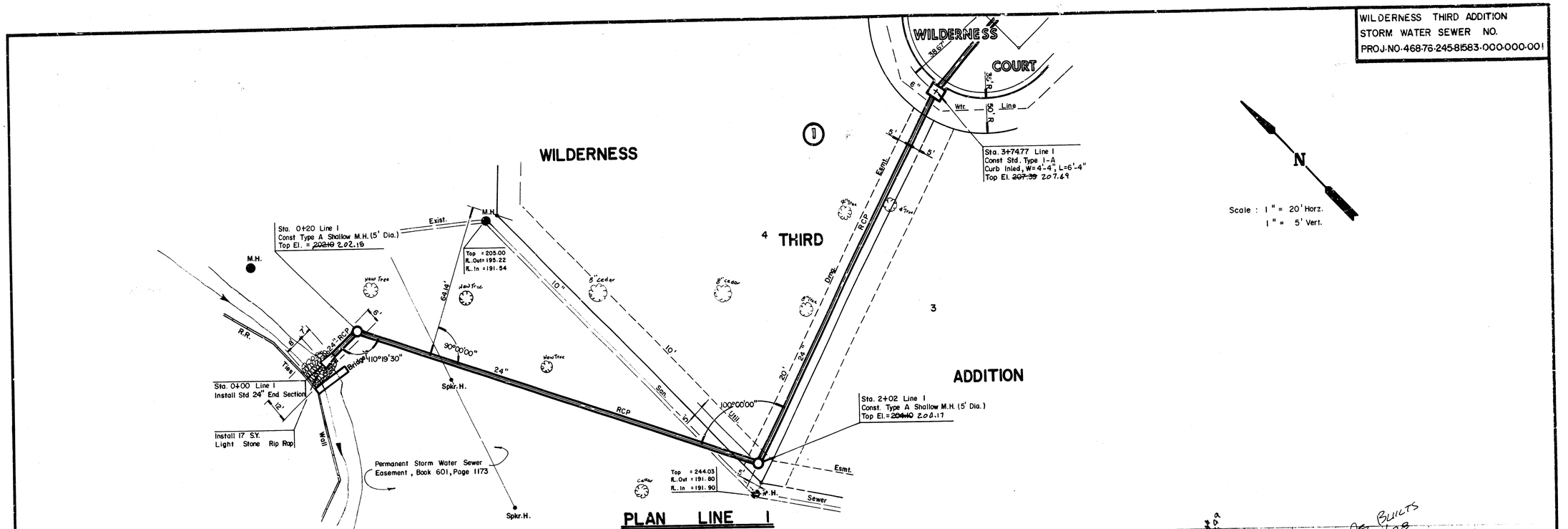
7/12

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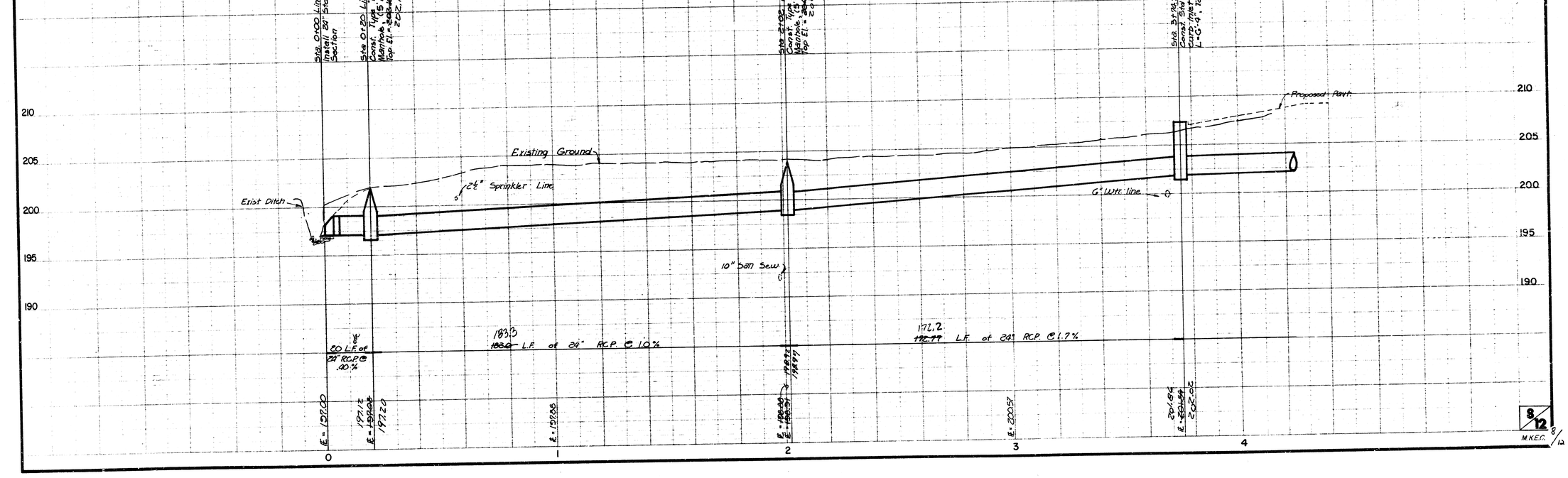
5 10 15 20 25 30 35 40 45

WILDERNESS THIRD ADDITION
PAVING CROSS SECTIONS
PROJ. NO. 472-76-245 8583000-000-001

WILDERNESS THIRD ADDITION
STORM WATER SEWER NO.
PROJ-NO-46876-245-81583-000-000-001



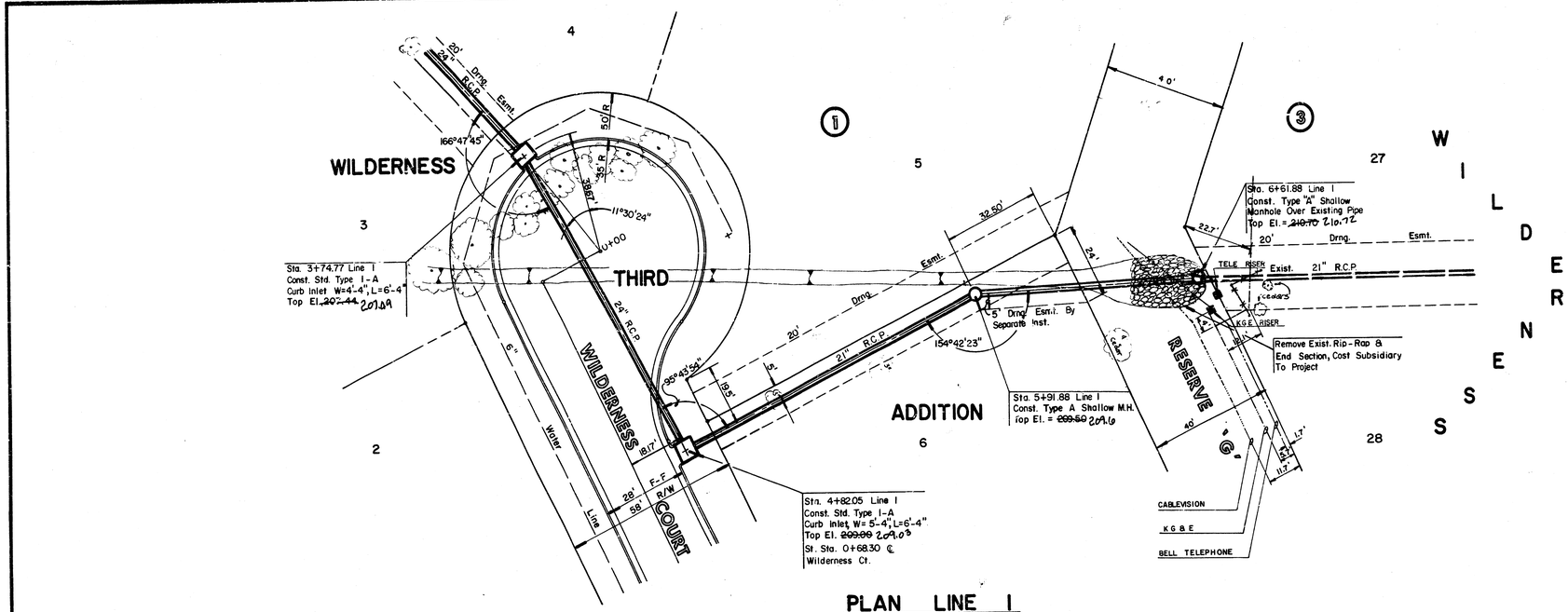
PROFILE LINE 1



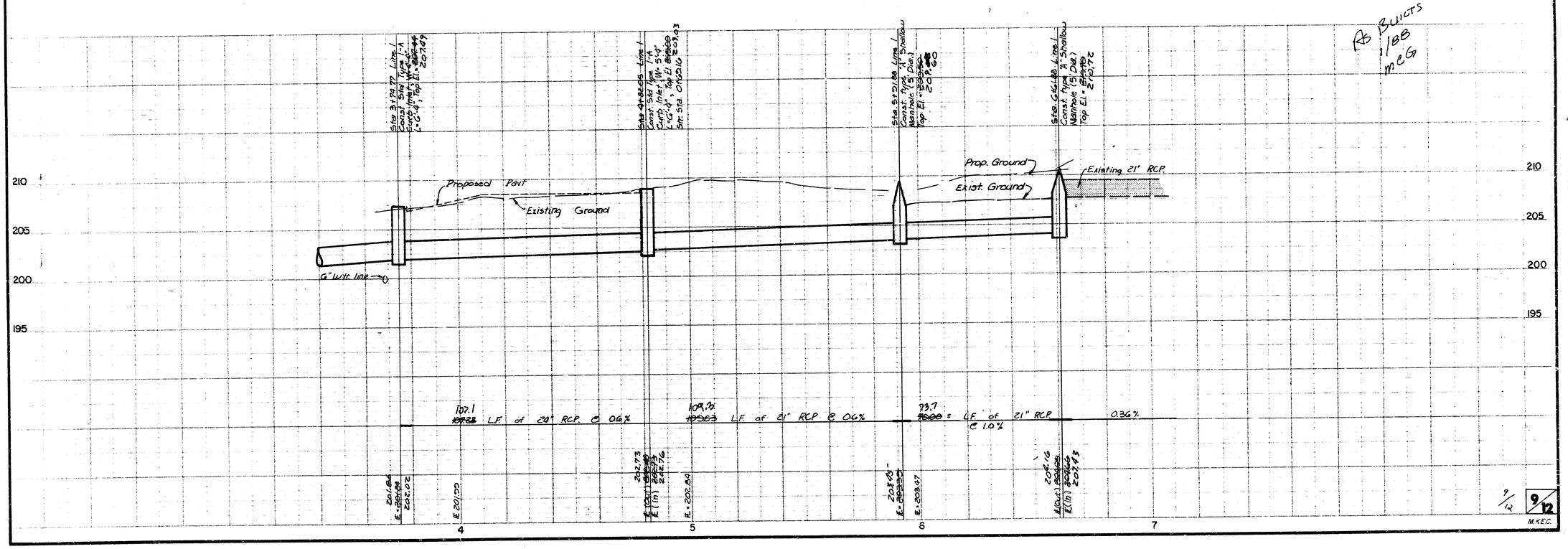
As Builts
1/88
M.C.G.

M.K.E.

WILDERNESS THIRD ADDITION
STORM WATER SEWER NO.
PROJ-NO-46876-24581583-000-000-001



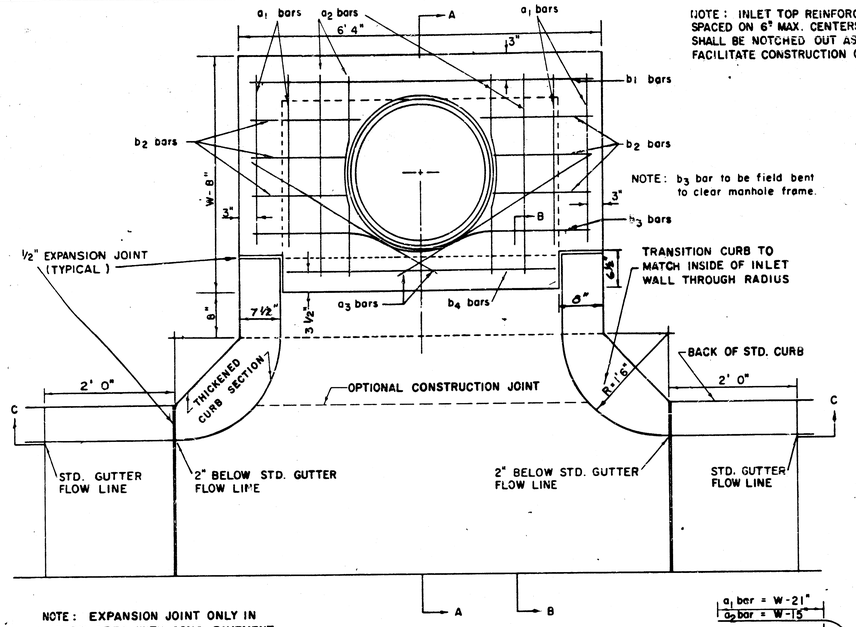
PLAN LINE 1



RJ Bluitt
188
MCG

9/12

M.K.E.C.



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.

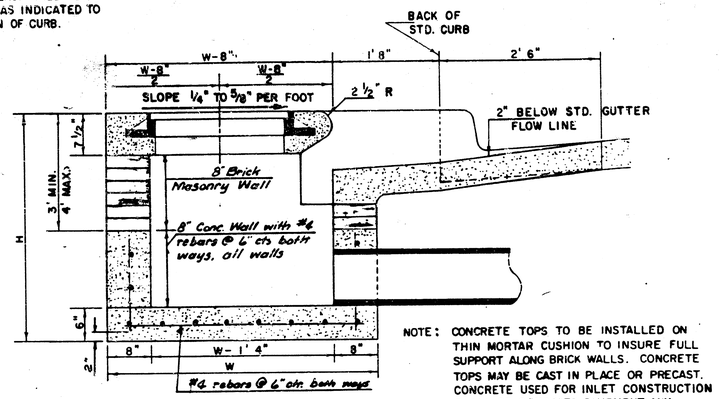
NOTE: b_3 bar to be field bent to clear manhole frame.

BENDING DIAGRAM

STEEL SCHEDULE

BAR		a_1	a_2	a_3*	b_1 W=4'4"	W=5'4"	W=6'4"	W=7'4"	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±
	W=5'4"	7'7"	8'7"	5'0"	–	6' 1"	–	–	–	1' 9"	6'2"	4'8"	81 ±
	W=6'4"	9'7"	10'7"	6'0"	–	–	6' 1"	–	–	1' 9"	6'2"	4'8"	101±
	W=7'4"	11'7"	12'7"	7'0"	–	–	–	6' 1"	–	1' 9"	6'2"	4'8"	121 ±
	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



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.

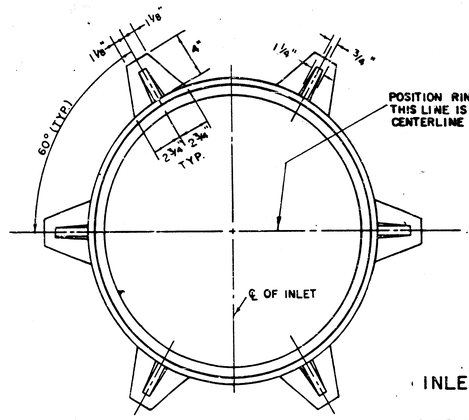
NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 6'4" AND H = 7'0" OR LESS.

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.

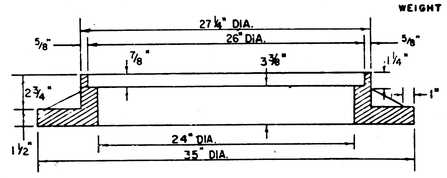
THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.

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" & 30"	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 ±

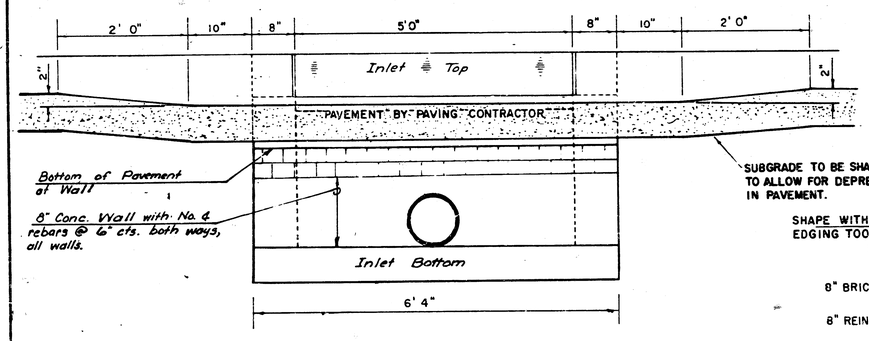


INLET FRAME

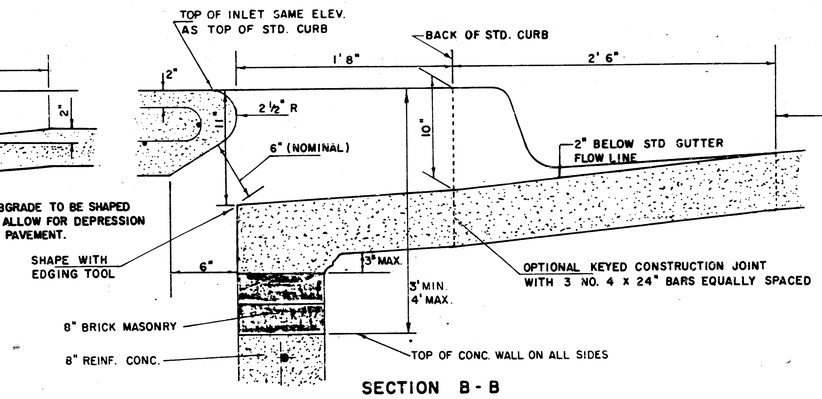
WEIGHT = 180 LBS.



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



SECTION C - C



SECTION B - B

REVISED 12-21-1984

DETAIL STANDARD TYPE IA CURB INLET

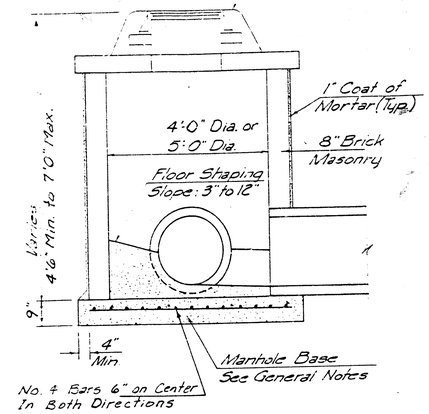
CITY OF WICHITA, KANSAS

INLET OPENING = 6" x 5' 0"

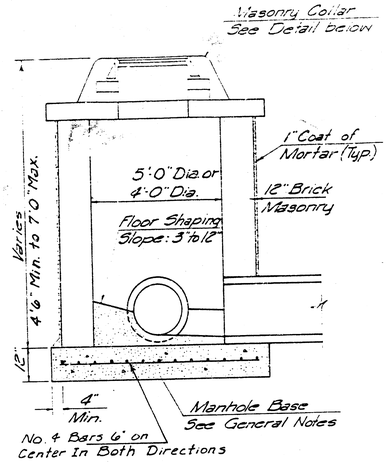
JUNE 1984

10/12

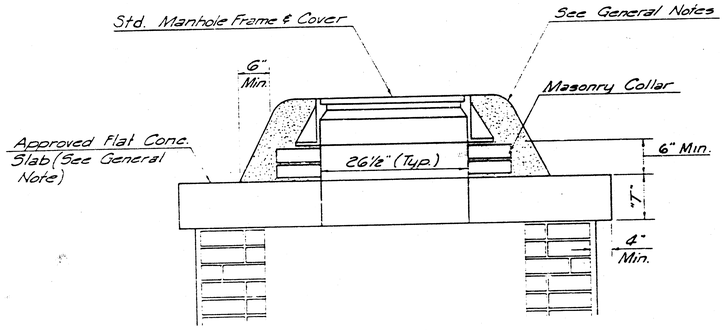
10/12



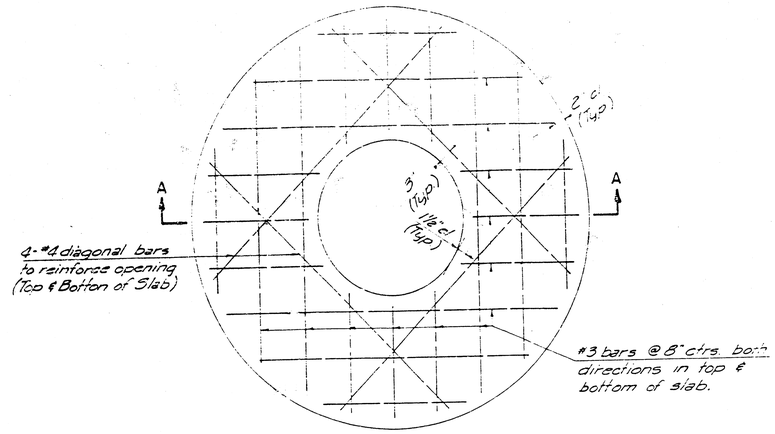
SHALLOW TYPE "A" MANHOLE



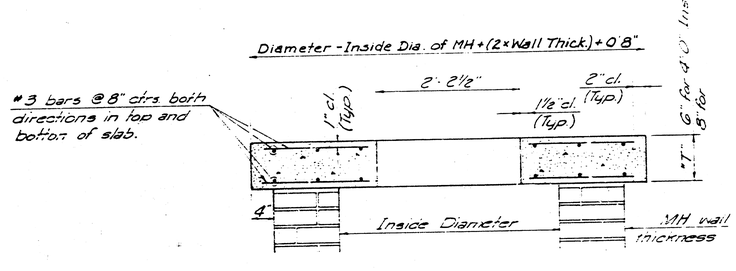
SHALLOW TYPE "B" MANHOLE



MASONRY COLLAR DETAIL

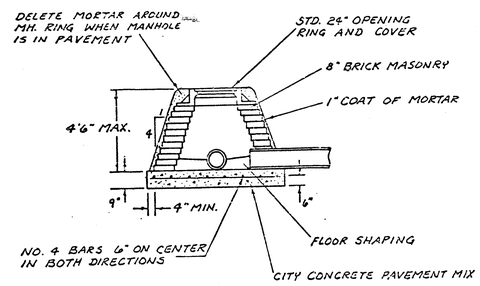


PLAN

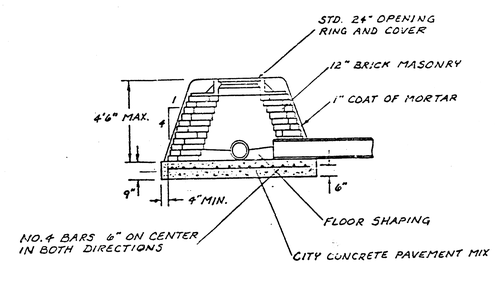


SECTION A-A

FLAT CONCRETE SLAB DETAILS



SPECIAL SHALLOW TYPE 'A' MANHOLE



SPECIAL SHALLOW TYPE 'B' MANHOLE

GENERAL NOTES

1. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE CEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. TYPE "A" SHALLOW MANHOLES CAN BE USED ON SEWERS WHEN THE MANHOLE IS NOT LOCATED WITHIN PUBLIC STREET PAVEMENT. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 4'. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5'. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.

2. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED 6" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.

3. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAT LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.

4. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.

5. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWINGS.

6. THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.

7. STANDARD SHALLOW MANHOLES TYPE "A" AND "B" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH FOR THE TYPE AND DIAMETER INDICATED. STANDARD SPECIAL SHALLOW MANHOLES TYPE "A" AND "B" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH FOR THE TYPE INDICATED. ALL STANDARD SHALLOW MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.

CITY OF WICHITA, KANSAS
STANDARD SHALLOW MANHOLES
TYPE 'A' AND TYPE 'B'

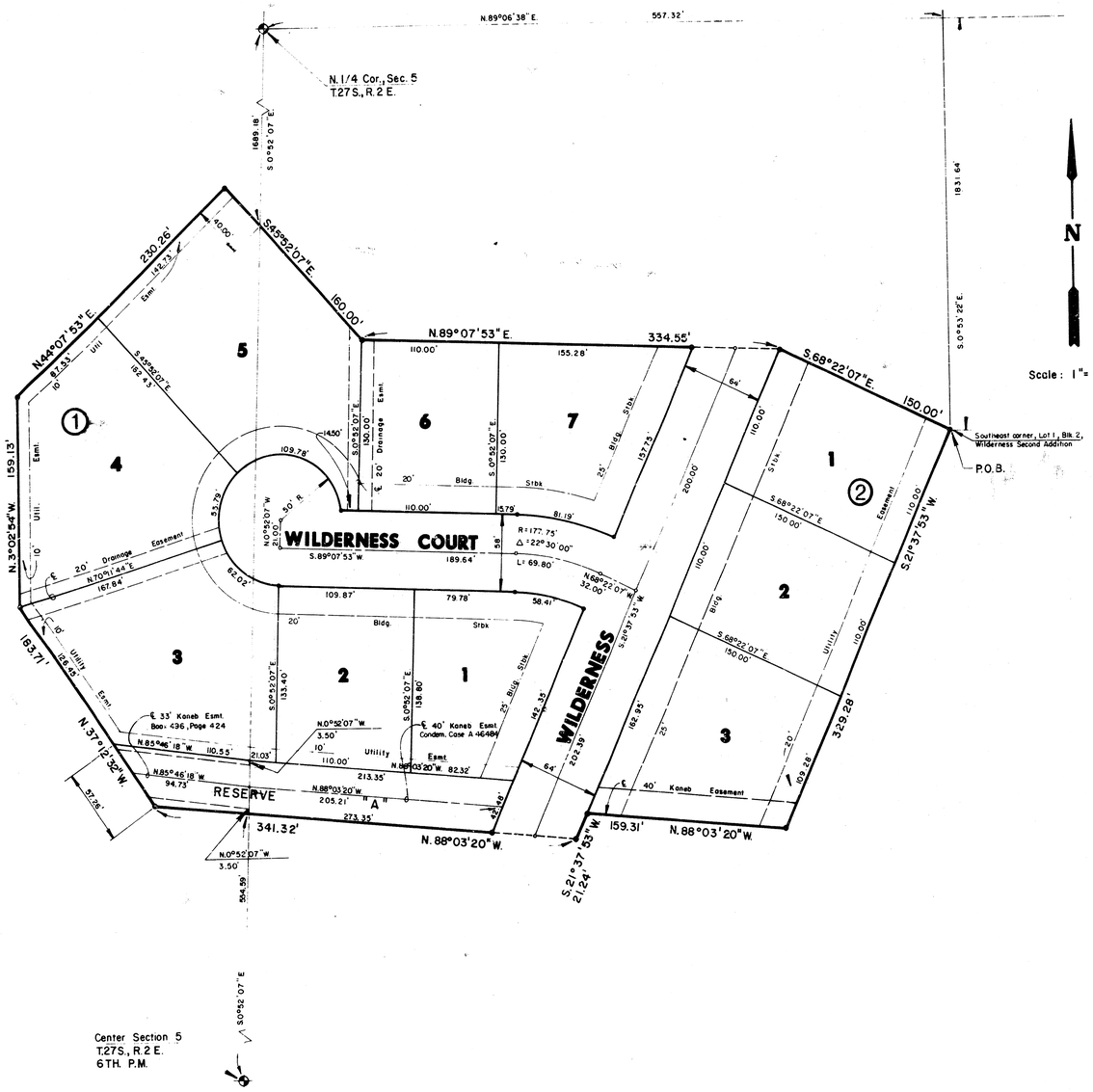
11/12 | 11/12

Designed by | Checked by
Drawn by | Date | Job No.

FINAL PLAT OF

WILDERNESS THIRD ADDITION

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



I, Kenneth H. Bengtson, a Civil Engineer in Kansas, do hereby certify that I have been in responsible charge of surveying and platting of "WILDERNESS THIRD" an addition to Wichita, Sedgwick County, Kansas, into Lots, Blocks, a Reserve, and Streets, the same being accurately set forth in the accompanying plat and described herein:

A tract of land lying in the Northeast Quarter and the Northwest Quarter of Section 5, Township 27 South, Range 2 East of the 6th P.M., more particularly described as follows:

Beginning at the Southeast corner of Lot 1, Block 2, Wilderness Second Addition, an addition to Wichita, Sedgwick County, Kansas, said point being N 89° 06' 38" E, 557.32 feet along the North line of said Northeast Quarter and S 0° 53' 22" E, 1831.64 feet from the Northwest corner of said Northeast Quarter; thence S 21° 37' 53" W, 329.28 feet; thence N 89° 03' 20" W, 159.31 feet; thence S 21° 37' 53" W, 21.24 feet; thence N 88° 03' 20" W, 341.32 feet; thence N 37° 12' 32" W, 183.71 feet; thence N 3° 02' 54" W, 159.13 feet; thence N 44° 07' 53" E, 230.26 feet to the Southwesterly corner of Reserve G, Wilderness, an addition to Wichita, Sedgwick County, Kansas; thence S 45° 52' 07" E, 160.00 feet along the Southwesterly line of said Reserve G; thence N 89° 07' 53" E, 334.55 feet along the South line of said Wilderness Addition to the Southwest corner of said Lot 1, Block 2, Wilderness Second Addition; thence S 68° 22' 07" E, 150.00 feet along the South line of said Lot 1, Block 2 to the point of beginning.

Drainage and utility easements within the above described property are being vacated by virtue of KSA 12-512(b).

I hereby certify that the details of this plat are correct to the best of my knowledge and belief this 24th day of JULY, 1986.

Kenneth H. Bengtson
Kenneth H. Bengtson, P.E.
Mid-Kansas Engineering Consultants, P.A.
3500 N. Rock Road, Building #800

KENNETH H. BENGTSON LICENSED 7268 KANSAS PROFESSIONAL ENGINEER

Know all men by these presents that we the undersigned property owners of the land as above set forth in the Civil Engineers Certificate, have caused the same to be surveyed and platted into lots, blocks, streets and a reserve, the same to be known as "WILDERNESS THIRD ADDITION" an addition to Wichita, Sedgwick County, Kansas. The streets are hereby dedicated to and for the use of the public. Easements for the construction and maintenance of public utilities and drainage are hereby granted as indicated. The reserve is being platted for construction and maintenance of public utilities, landscaping, irrigation, cart paths, recreation buffer zones, open space, and drainage. The Reserve shall be owned and maintained by the Homeowners Association.

SLAWSON INVESTMENT CORPORATION

By: Larry A. Chambers
Larry A. Chambers, Vice President

STATE OF KANSAS)
) ss:
SEDGWICK COUNTY)

Be it remembered that on this 24th day of July, 1986, before me a Notary Public in and for said State and County, came Slawson Investment Corporation, by Larry A. Chambers, Vice President, to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same. In testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.

Linda S. Graham, Notary Public

My Appointment Expires: 2-9-86

We, Mellon Bank, N.A., Pittsburgh, Pennsylvania, mortgagee on the above described property, do hereby consent to the plat of "WILDERNESS THIRD".

MELLON BANK, N.A., Pittsburgh, Pennsylvania

By: _____

LINDA S. GRAHAM NOTARY PUBLIC STATE OF KANSAS

STATE OF KANSAS)
) ss:
SEDGWICK COUNTY)

Be it remembered that on this 7th day of August, 1986, before me a Notary Public in and for said State and County, came Mellon Bank, N.A., Pittsburgh, Pennsylvania, by Paul J. Brown, to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same. In testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.

Linda S. Graham, Notary Public

My Appointment Expires: 2-9-90

This plat of "WILDERNESS THIRD" has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this 10th day of July, 1986.

WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION

David Bayouth, Vice-Chairman

Michael E. Lindebak, Secretary

This plat approved and all dedications shown hereon, if any, accepted by the City Commission of the City of Wichita, Kansas, this 29th day of _____, 1986.

_____, Mayor
Tony Casado

_____, City Clerk
Donald C. Gisick

Entered on transfer record this ____ day of _____, 1986.

_____, County Clerk
Don Wright

STATE OF KANSAS)
) SS:
SEDGWICK COUNTY)

This is to certify that this instrument was filed for record in the Register of Deeds office this ____ day of _____, 1986.

_____, Register of Deeds
Pat Kettler

_____, Deputy
Ed Resa

12/12