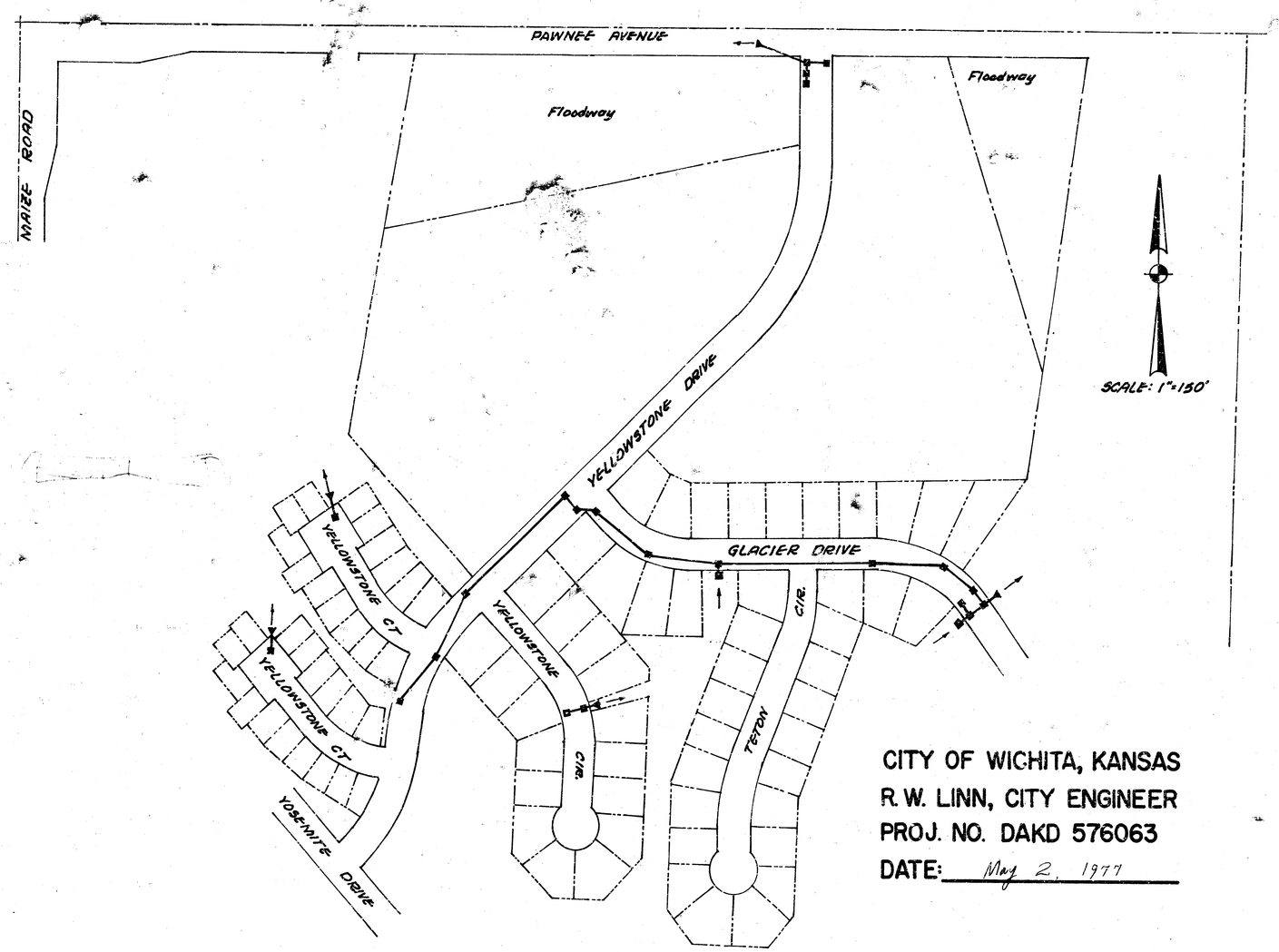
DRAINAGE IN CONNECTION WITH YELLOWSTONE DRIVE PAVING
(THE PARK ADDITION)



CITY OF WICHITA, KANSAS
R.W. LINN, CITY ENGINEER
PROJ. NO. DAKD 576063
DATE: May 2, 1977

INDEX

GENERAL NOTES

1. ALL EXCESS EXCAVATED MATERIAL FROM CONSTRUCTION OF CHANNEL (SEE SHEET 6) BETWEEN STATION NOS. 0+00 and 0+55 SHALL BE USED TO FILL THE LOW AREAS IN THE VICINITY OF THE 24" PIPE BETWEEN STATION NOS. 0+55 and 1+10 FLAGGED AS FILL, SEE SHEET 6. FILL IN LOW AREAS WILL NOT REQUIRE COMPACTION OTHER THAN THAT WHICH IS NORMALLY OBTAINED FROM THE EQUIPMENT USED IN HAULING AND GRADING. THE WORK WILL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER ITEMS OF WORK.

2. ALL CIRCULAR STORM WATER SEWER PIPE SHALL BE EITHER ALL R.C.P. OR ALL C.M.P.

3. ALL 12-INCH TO 21-INCH DIAMETER CORRUGATED METAL PIPE SHALL BE HELICALLY CORRUGATED METAL PIPE. ALL 24-INCH DIAMETER AND LARGER CORRUGATED METAL PIPE SHALL BE FULLY PAVED (SMOOTH FLOW) C.M.P.

4. FIELD ENGINEER TO TAKE NECESSARY TIES OF ALL IRONS THAT WILL BE DESTROYED BY CONTRACTOR. CONTRACTOR TO REPLACE IRONS (AND THIMBLES) DURING CONSTRUCTION AS DIRECTED BY THE FIELD ENGINEER.

5. CONTACT AND COORDINATE WORK WITH THE OWNER/DEVELOPER: MR. DOUGLAS CASTLEBERRY AT 755 NORTH RIDGE ROAD, WICHITA, KANSAS 67212; (316) 943-2237 AND/OR DESIGN CONSULTANT: BILL G. YUNG AT (315) 264-0676 OR YASH DESAI, DRAINAGE ENGINEER IN THE CITY HALL AT (316) 268-4235; WITH REGARD TO ANY TREE REMOVAL IN THE AREA, BOTH IN THE PARK ADDITION AND IN THE STREET(S) RIGHT-OF-WAY.

As built 5-12-78

For B.M see Sheet 3

5-30" R.C.P.

Install 30" ~~Pipe~~ Stub @ 0.8%
DSFL 116.89, Install Pipe Plug

Constr. Type I Curb Inlet, w=4'10", Top 123.34
Sta 8+81.82 (Street), Sta ~~0+36~~ (Storm Sewer)
0+00

Install ~~35'~~ 38' of 18" ~~Pipe~~ R.C.P.
USFL 118.24; DSFL 118.89

Constr. Type I Curb Inlet, w=3'10"
Sta. 8+81.82 (Street), Top 123.35

Channel by Others

Construct Headwall Structure
Headwall Invert El. 118.60; Pipe Invert El. 118.85

Install ~~31'~~ 32' of 18" ~~Pipe~~ R.C.P.
USFL 118.60, DSFL 118.29

Install ~~30'~~ 32' of 15" ~~Pipe~~ R.C.P.
USFL 119.70, DSFL 118.54

Constr. Type I Curb Inlet, w=3'10"
Sta. 8+47 (Street), Top 123.29

Constr. Type I Curb Inlet, w=4'10", Top 123.67
Sta. 7+75 (Street), Sta ~~11+50~~ (Storm Sewer)
1+13

Constr. Type I Curb Inlet, w=4'10", Top=125.19
Sta. 6+25 (Street), Sta ~~2+05~~ (Storm Sewer)
2+66

Constr. Type I Curb Inlet, w=3'10", Top 130.54
Sta. 2+92 (Street), Sta ~~6+36~~ (Storm Sewer)
5+79

Constr. Headwall Structure
Headwall Invert El. 128.00; Pipe Invert El. 128.25
Install ~~35'~~ 22' of 18" ~~Pipe~~ R.C.P.
USFL 128.00; DSFL 127.50

Channel by Others

Valley Gutter by Others

Lot 114 Blk 5

TETON CIRCLE

GLACIER DRIVE

24" SWS

8" San. Sewer by Others

8" San. Sewer by Others

30" SWS

30" SWS

San. Sewer by Others

Constr. Type I Curb Inlet, w=4'10", Top 123.29
Sta 8+30 (Street), Sta ~~0+70~~ (Storm Sewer)
0+34

Install End-Section

Channel by Others

NOTE: For Street Station See Paving Plan.

SCALE

Channel by Others
Start Pipe Sta. 0+00

Install End-Section to be Paid for as 1.4' of 36" Pipe

8" Ductile Iron San. Sewer

Sta. 0+86 Curb Inlet Top 123.34

Sta. 0+120 Curb Inlet Top 123.29

Sta. 1+50 Curb Inlet Top 123.67

Sta. 3+03 Top 125.19

Proposed Rt curb

Existing Ground

Proposed Lt. Curb

TETON CIRCLE

8" San. Sewer

Sta 6+34 Curb Inlet Top 130.54

Sta 7+00 Match Line

Proposed Lt. Curb

130
125
120
115
110

116.11
116.95
117.33
118.01
118.05
118.85
116.89
120.42
120.92
124.25
124.29
126.74

35' @ +2.00%
36" RCP or ~~36" CMP~~ (fully paved)

34' @ +2.00%
30" RCP or ~~30" CMP~~ (fully paved)

79' @ +1.00%
~~80~~ 30" RCP or ~~30" CMP~~ (fully paved)

453' @ +1.00%
~~459~~ 30" RCP or ~~36" CMP~~ (fully paved)

332' @ +1.60%
~~333~~ 24" RCP or ~~24" CMP~~ (fully paved)

64' @ +0.71%
24" RCP or 24" CMP (fully paved)

116.03
118.35
119.39
120.39
122.47
124.07
125.47

BM 144.01 R.R. Spike E-Side P.P., E.S. Maize Rd. @ S.L. Shenandoah Court.

BM 119.57 R.R. Spk S.E. Side P, N.S. Pawnee 17' West of W.L. Yellowstone Dr.

Constr. Type I Curb Inlet, w=3'10", Top=134.50
Sta. 0+08 (Street); Sta. ~~9+32~~ (Storm Sewer)
8+97

Constr. Type I Curb Inlet, w=3'10", Top 133.16
Sta. 1+50 (Street); Sta. ~~2+83~~ (Storm Sewer)
7+46

℄ GLACIER DRIVE

℄ YELLOWSTONE DRIVE

24" SWS

24"@0.44% (Same Pipe)

Constr. Type I Curb Inlet, w=3'10", Top 134.50
Sta. 8+88.23 (Street); Sta. ~~0+62~~ (Storm Sewer)
9+28

SCALE: 1"=20'

8" Water Line

Valley Gutter by Others

℄ YELLOWSTONE DRIVE

24" SWS

R/W 70'

B/C 41'

San. Sewer by Others

18" SWS

San. Sewer by Others

Constr. Type I Curb Inlet, w=3'10", Top 134.56
Sta. 8+88 (Street); Sta. ~~10+04~~ (Storm Sewer)
9+71

Constr. Type I Curb Inlet, w=3'10", Top 135.81
Sta. 6+00 (Street); Sta. ~~13+48~~ (Storm Sewer)
12+56

SCALE: 1"=20'

NOTE: For Street Station see Paving Plan

Sta. 7+00 Match Line

Sta 7+83 Constr. Curb Inlet, Top 133.16

Sta. 9+32 Top 134.50

8" Water Line

Sta. 9+62 Curb Top 134.50

Sta. 10+04 Curb Inlet Top 134.56

San. Sewer by Others

Sta. 12+92 Curb Inlet Top 135.81

Sta. 12+92 Match Line

135

130

125

124.74

127.33
127.37

128.09
128.07

128.20
128.24

128.42
128.52

128.93
128.92

147 6
~~83~~'@ +0.71%
24" RCP or
~~24" CMP~~ (fully paved)

151 0
~~145~~'@ 0.44%
24" RCP or
~~24" CMP~~ (fully paved)

30 3
~~30~~'@ 0.44%
24" RCP or
~~24" CMP~~ (Fully Paved)

43 0
~~40~~'@ +0.44%
24" RCP or
~~24" CMP~~ (fully paved)

285 3
~~288~~'@ + 0.35%
18" RCP or
~~18" CMP~~

124.74 127.44 127.88 128.41 129.24 129.61

10 11 12 13

For B.M. see Sheet 3

Scale: 1"=20'

YELLOWSTONE CIRCLE

Valley Gutter by Others

18" SWS San. Sewer by Others

8" Water Line

18" SWS 14

15" SWS 15

Type I Constr. Curb Inlet, w=3'10", Top 136.04
Sta. 4+52 (Street), Sta ~~4+56~~ (Storm Sewer)
14+10 8

YELLOWSTONE DRIVE

R/W 70'

B/B 41'

Valley Gutter by Others

Sta. 12+92 March Line

San. Sewer by Others

Constr. Curb Inlet See Sheet 3 4
12+56

Valley Gutter by Others

YELLOWSTONE COURT

Constr. Type I Curb Inlet, w=3'10", Top 136.72
Sta. 3+46 (Street), Sta ~~4+56~~ (Storm Sewer)
15+12 5

Lot 80 Blk 2

Lot 79 Blk 2

San. Sewer M.H. Top 138.0, R 128.79

NOTE: For Street Station See Paving Plan.

YOSEMITE DR.

Sta. 12+92 March Line Curb Inlet, Top 135.81

Proposed Rt Curb

Existing Ground

Sta. 14+42 Curb Inlet Top 136.04

Proposed Lt Curb

Proposed Rt Curb

Sta. 15+55 Curb Inlet Top 136.72

135

130

129.93
129.97

130.50
130.75

131.74

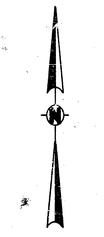
154 4
~~156~~ @ +0.35%
18" RCP ~~or 18" CMP~~

111 7
~~115~~ @ +0.88%
15" RCP ~~or 15" CMP~~

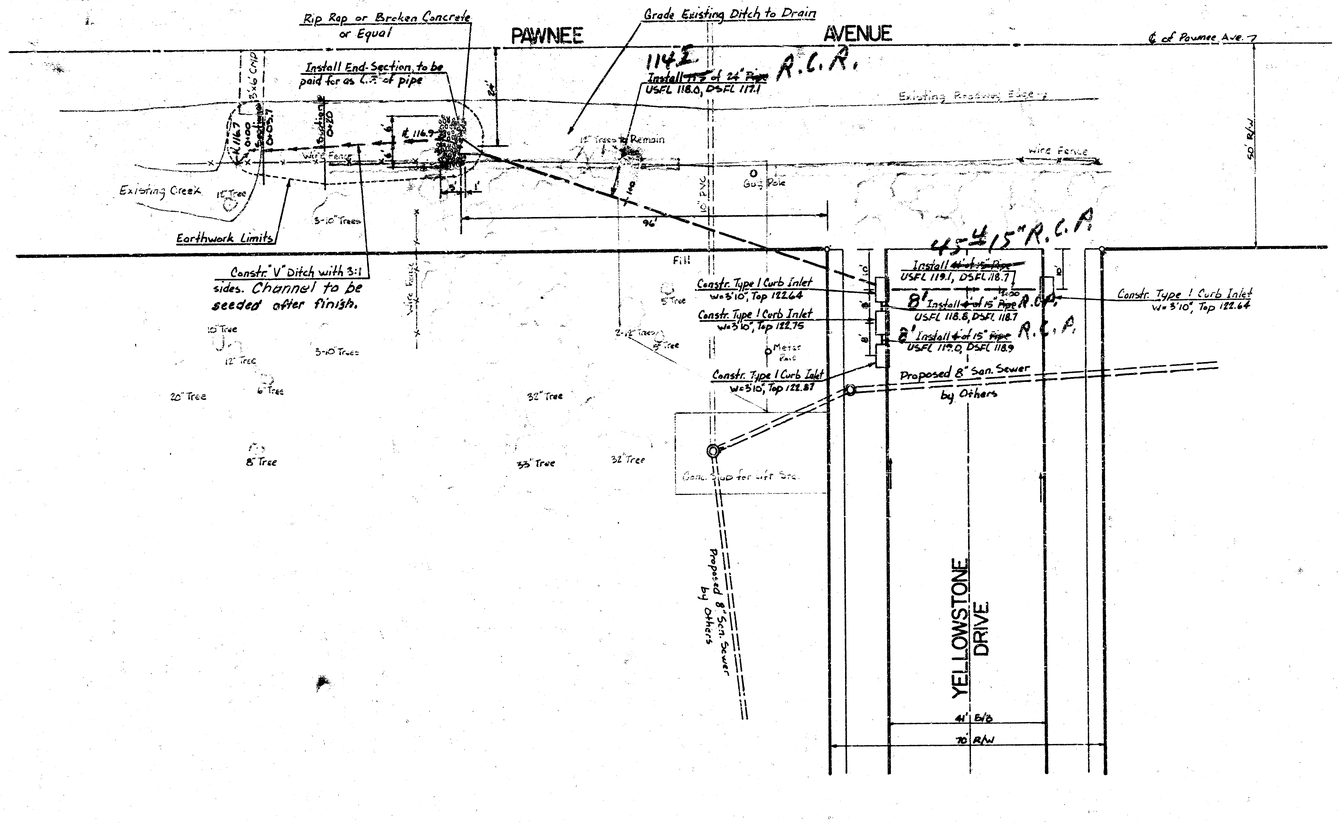
130.00 130.35 131.26

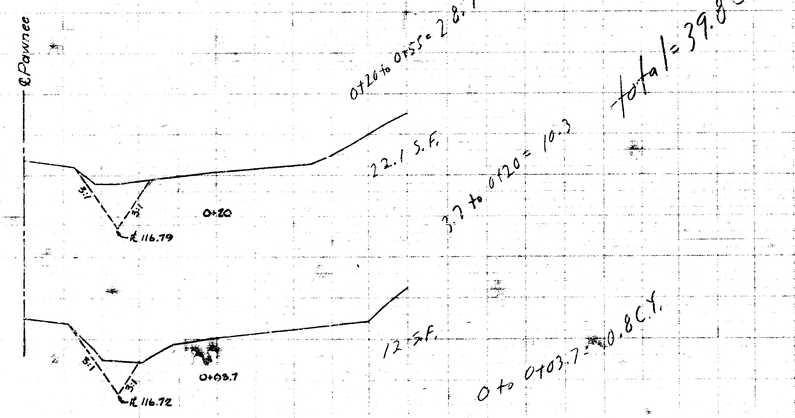
13 14 15 16

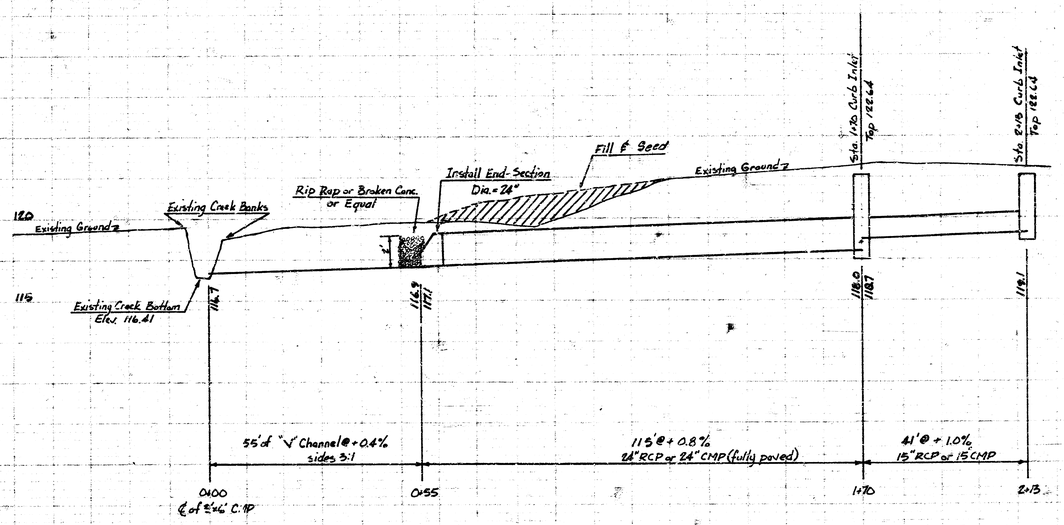
For Bench Marks see Sheet 3



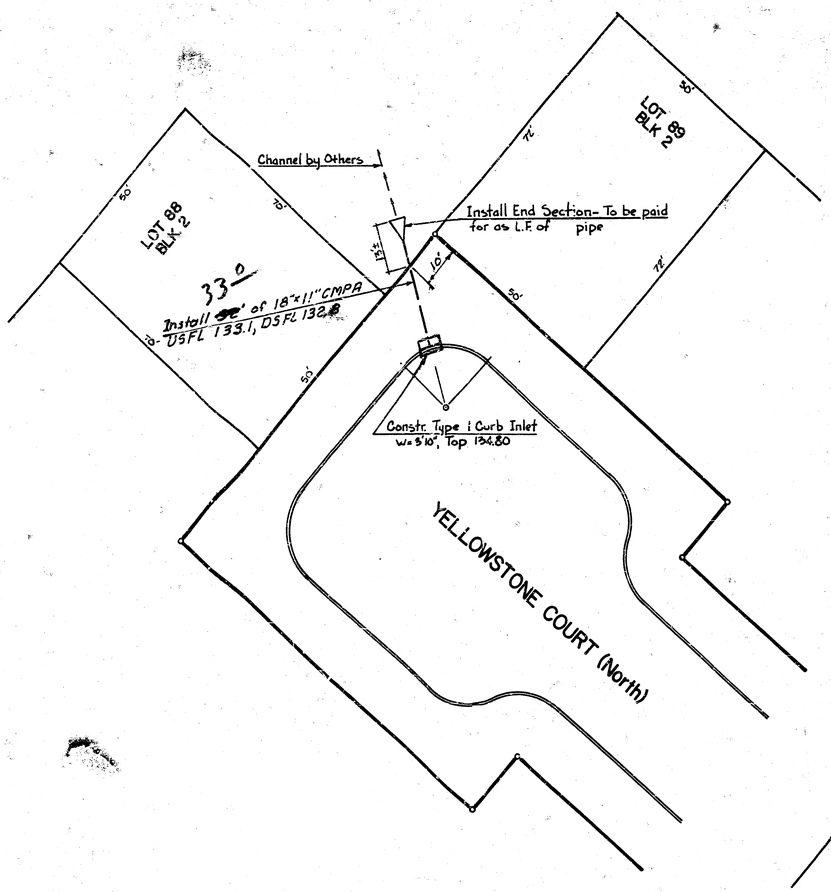
SCALE 1"=20'



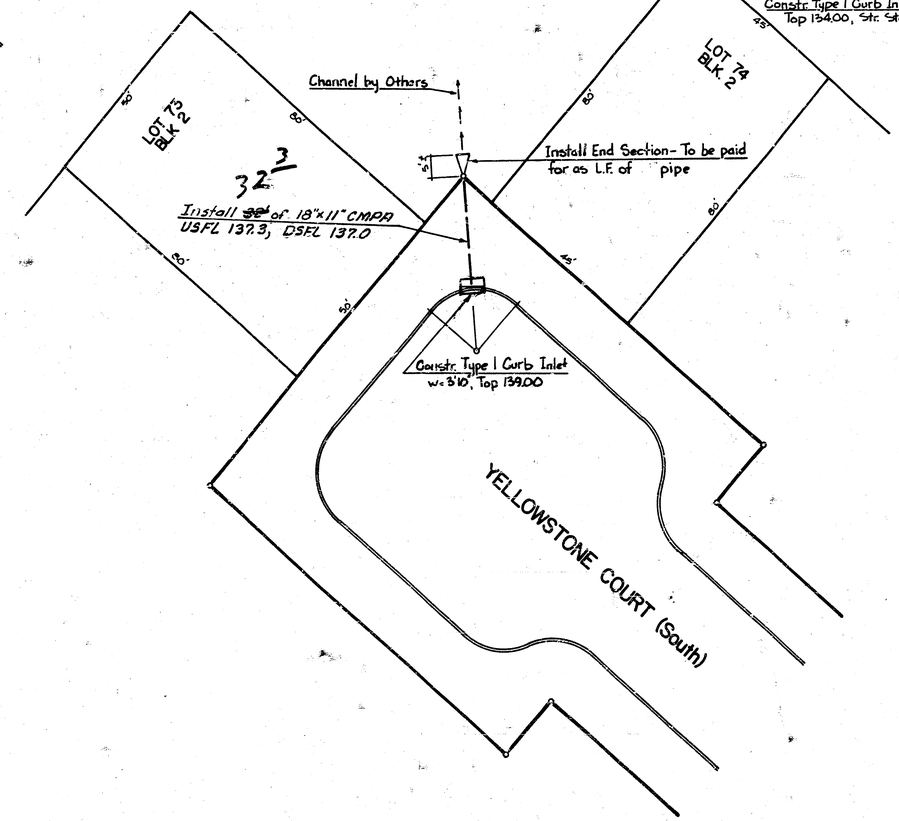


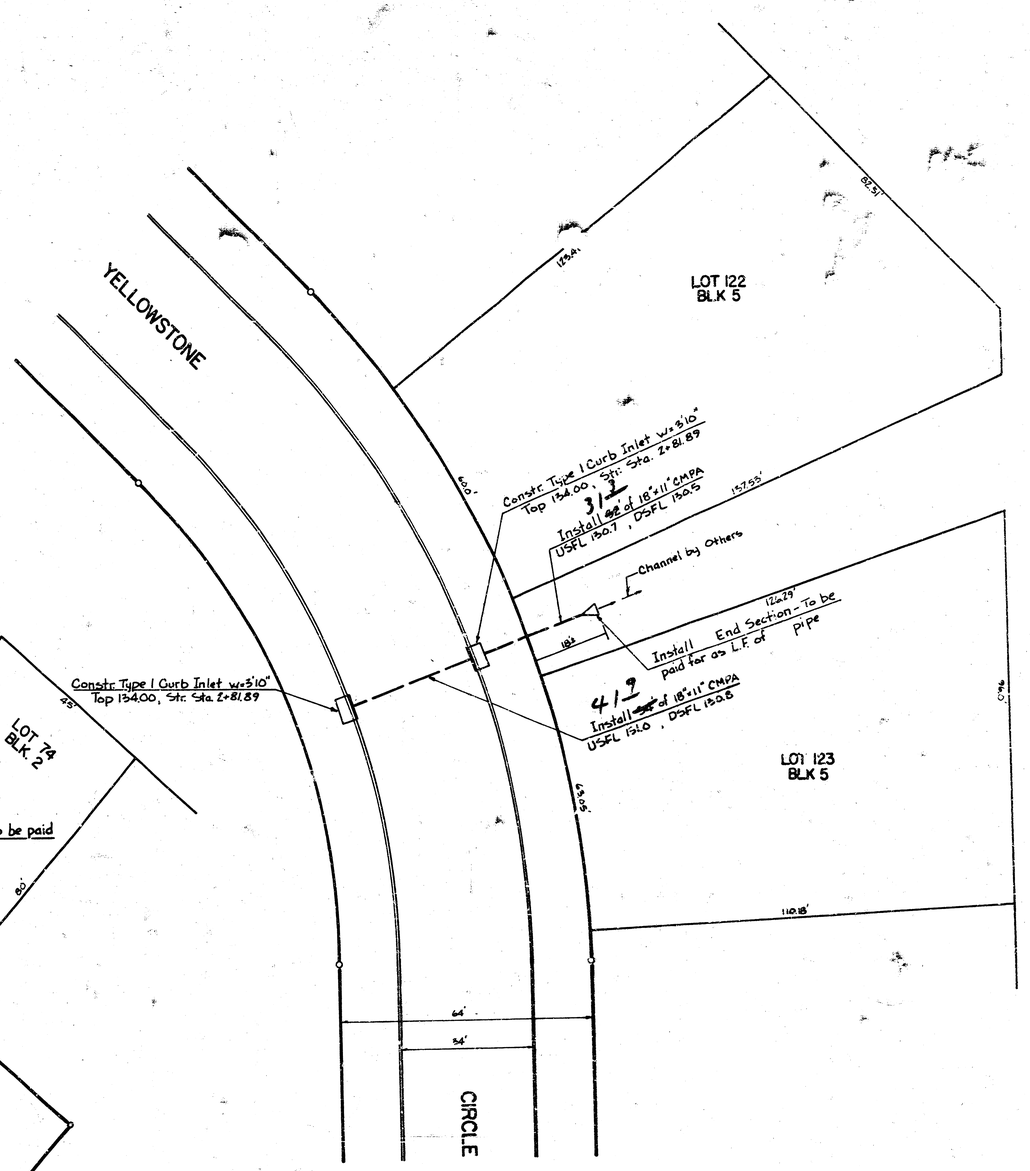


For BM see Sheet 3



SCALE 1"=20'

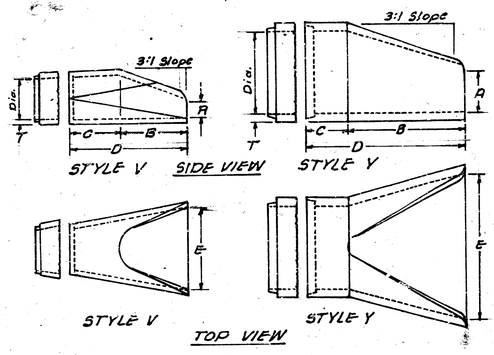




NOTE: See Paving Plan for Additional Lay Out Information

DRAINAGE in CONNECTION with YELLOWSTONE DRIV
PAVING
THE PARK ADDITION

CITY of WICHITA, KANSAS
R. W. LINN-CITY ENGINEER
DATE _____
PROJ. NO. DAKD 576063

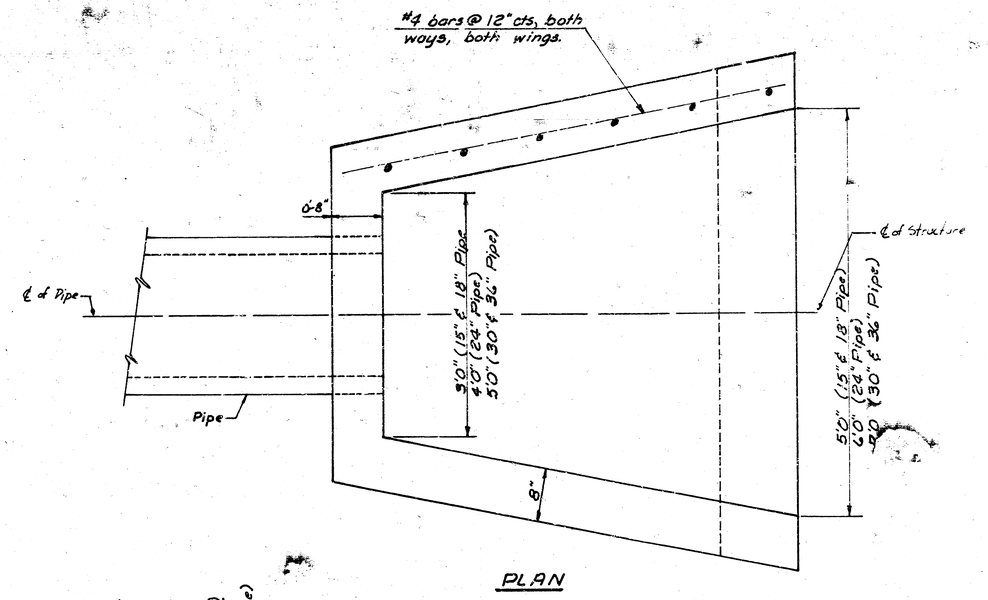


FRONT VIEW

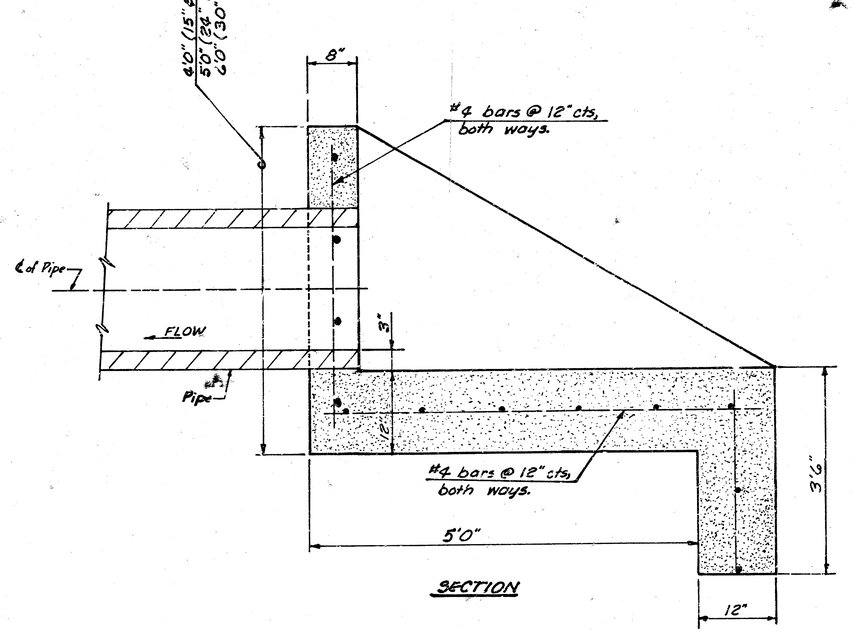
CONC. END SECTIONS

No Scale

Dia.	T	STYLE	A	B	C	D	E
15"	2¼"	V	7½"	1'10"	3'2"	5'0"	2'4"
18"	2½"	V	9"	2'3"	3'10"	6'1"	3'0"
24"	3"	V	9½"	3'8"	2'6"	6'2"	4'0"
30"	3½"	V	18"	4'4"	1'8"	6'2"	5'0"
42"	4½"	Y	21"	5'3"	2'11"	8'2"	6'6"
48"	5"	Y	24"	6'0"	2'2"	8'2"	7'0"
54"	5½"	Y	27"	5'5"	2'11"	8'4"	7'6"
60"	6"	Y	30"	5'0"	3'3"	8'3"	8'0"



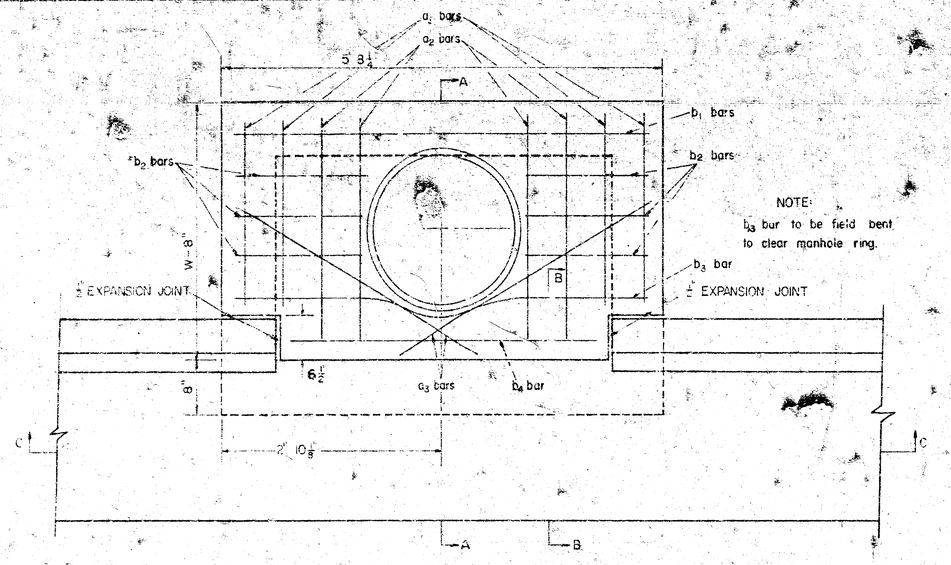
PLAN



SECTION

HEADWALL DETAIL

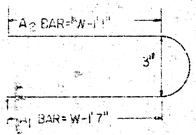
Scale: 1" = 1'0"



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

PLAN
SCALE: 1"=1'0"

REINF. STEEL TO BE PLACED ON 6" CTR'S.

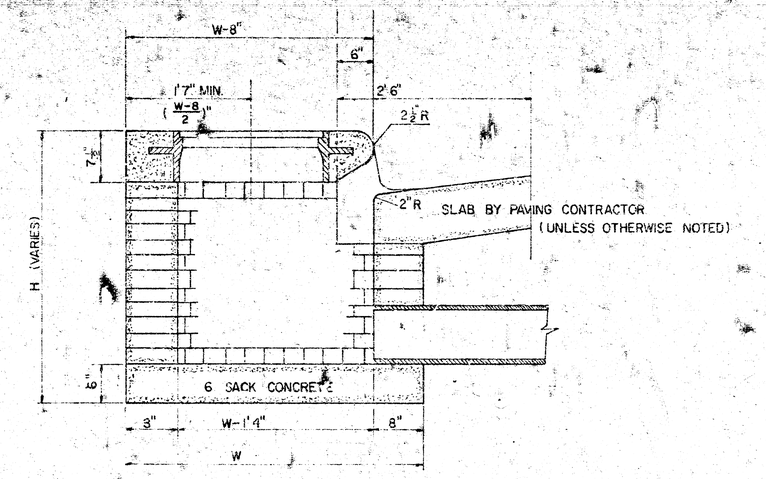


BAR	a_1	a_2	a_3*	b_1 W=3'10"	b_1 W=4'10"	b_1 W=5'10"	b_2	b_3	b_4	Wt. Lbs.
SIZE	#4	#4	#4	#4	#4	#4	#4	#4	#5	
NUMBER	4	4	2	1	3	5	6	1	1	
LENGTH W=3'10"	4'9"	5'9"	3'7"	5'5"	--	-	1'7"	5'6"	4'0"	53
LENGTH W=4'10"	6'9"	7'9"	4'7"	-	5'5"	-	1'7"	5'6"	4'0"	72
LENGTH W=5'10"	8'9"	9'9"	5'7"	-	-	5'5"	1'7"	5'6"	4'0"	91

* NOTE: A_3 BARS TO BE PLACED APPROXIMATELY 2" BELOW TOP OF INLET COVER

SHAPE CURB AND/OR GUTTER AT INLET OPENING WITH SMOOTH CURVES

SECTION A-A



SECTION A-A
SCALE: 1"=1'0"

STD. CURB INLET CONCRETE TOP

W	SIZE	PIPE SIZE	CU. YD. CONC.
3'10"	3'2"X5'8¼"X 7½"	24" & SMALLER	0.42*
4'10"	4'2"X5'8¼"X7½"	30" & 36"	0.55*
5'10"	5'2"X5'8¼"X7½"	42" & 48"	0.68*

*GROSS VOLUME

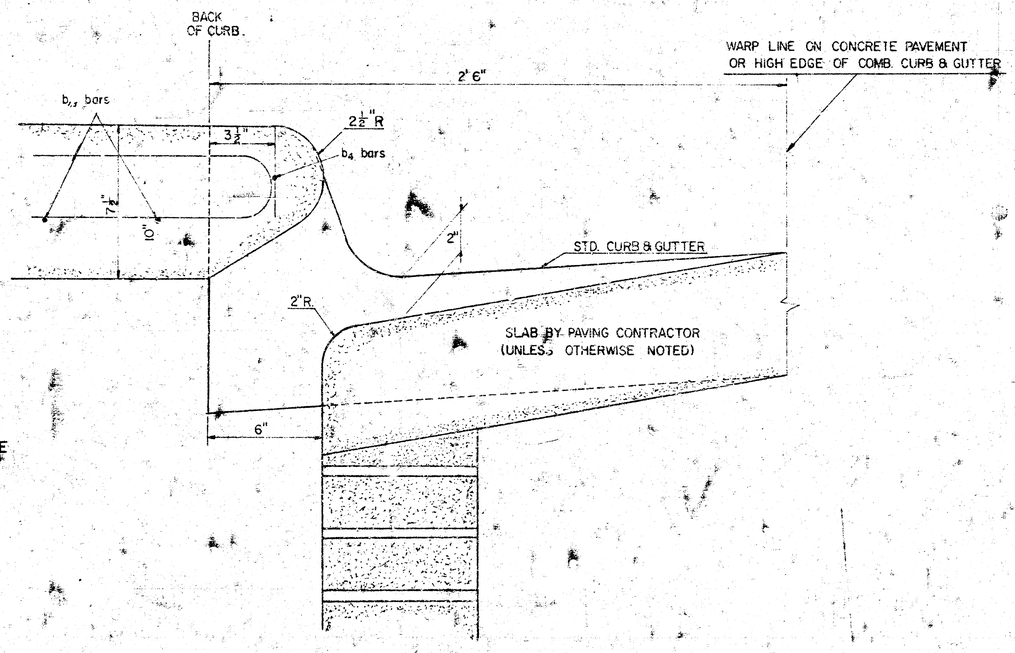
CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE FOR INLET TOPS AND FLOORS SHALL BE 6 SACK PAVING MIX.

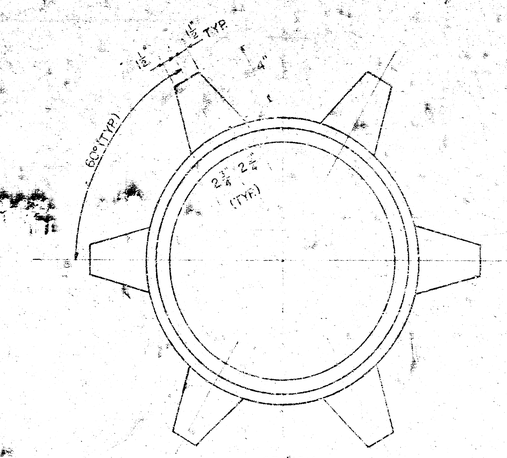
SUBGRADE TO BE SHAPED TO ALLOW FOR DEPRESSION IN PAVEMENT

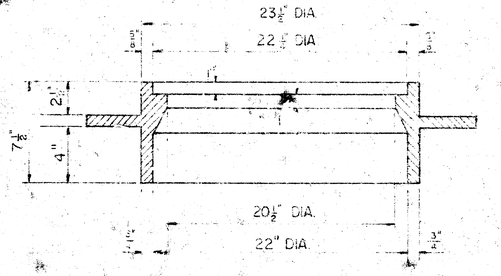
SECTION C-C
SCALE: 1"=1'0"

BRICK FOR INLET CONSTRUCTION SHALL CONFORM WITH THE LATEST REVISION OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS DESIGNATION C32 FOR MANHOLE BRICK GRADE MS.

SECTION B-B
SCALE: 3"=1'0"







MANHOLE RING

SEE SEWER APPURTENANCES DETAIL SHEET FOR MANHOLE COVER.

THIS TYPE INLET TO BE USED WHEN PAVEMENT IS ASPHALT PAVEMENT WITH CONCRETE BASE AND/OR WHEN PAVEMENTS HAVE FULL HEIGHT STANDARD CURBS.

DETAIL
STANDARD CURB INLET-TYPE I
CITY OF WICHITA, KANSAS
R. W. LINN-CITY ENGINEER
FEBRUARY, 1975

Project No. DAKD 576063 Park Add'n Drainage

Sheet 8 of 8