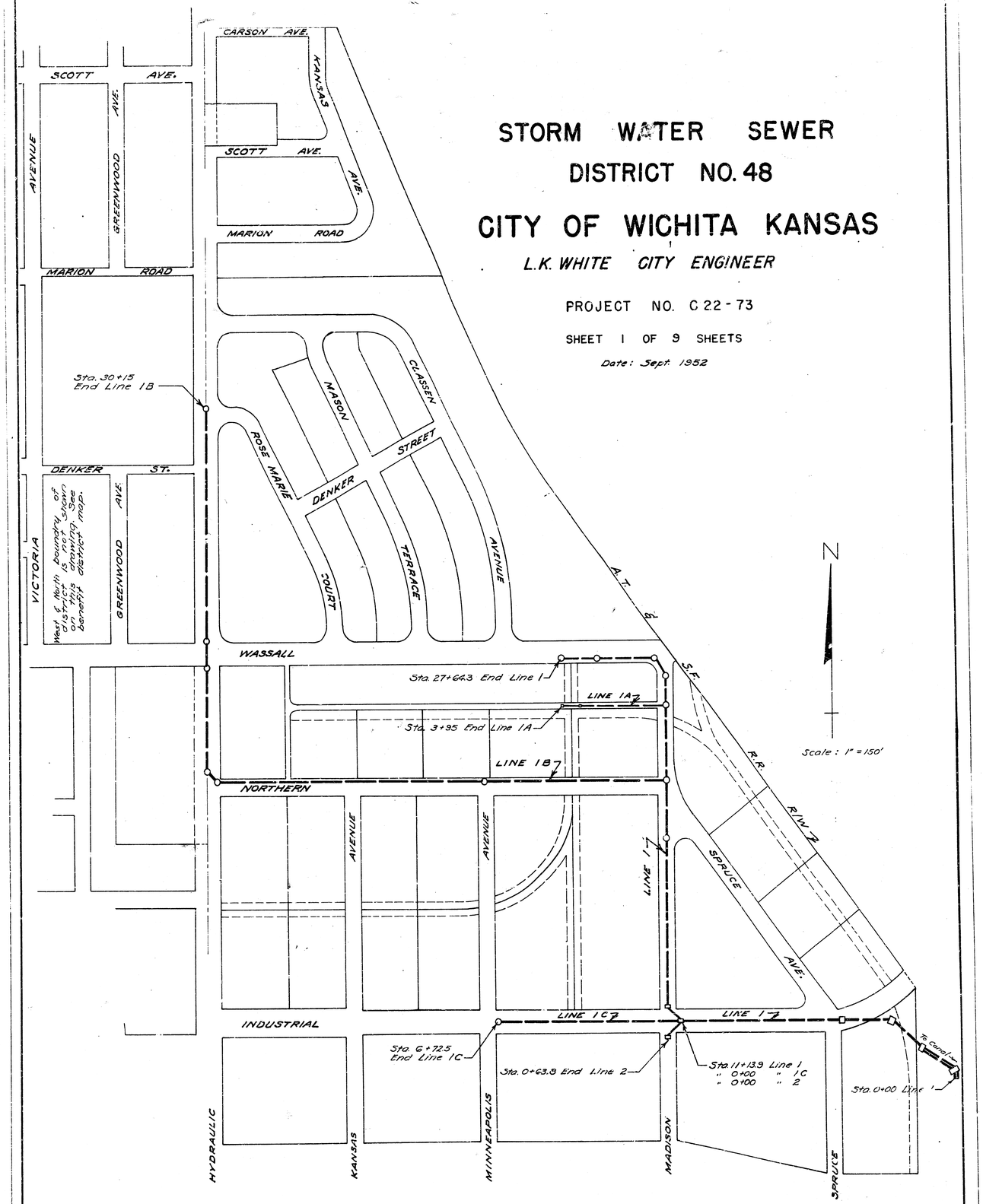
STORM WATER SEWER
DISTRICT NO. 48
CITY OF WICHITA KANSAS

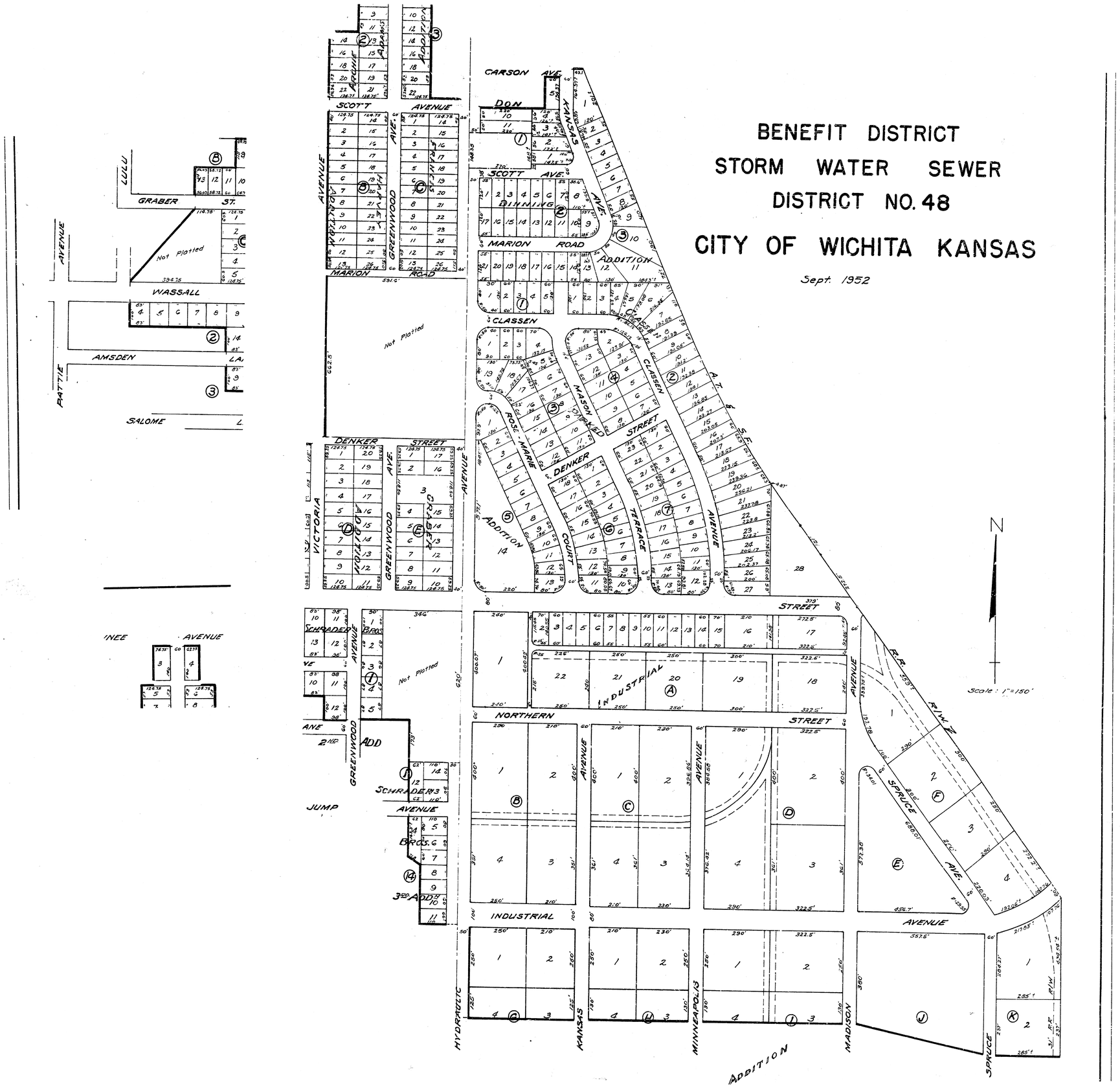
L.K. WHITE CITY ENGINEER

PROJECT NO. C 22-73

SHEET 1 OF 9 SHEETS

Date: Sept. 1952




BENEFIT DISTRICT
STORM WATER SEWER
DISTRICT NO. 48
CITY OF WICHITA KANSAS
Sept. 1952
Scale: 1"=150'
N
CARSON AVE.
DON
SCOTT AVENUE
SCOTT AVE.
DINNING
MARION ROAD
ADDITION
CLASSEN
MASON
ROSE MARIE
DENKER STREET
DENKER
COURT
TERRACE
A.T. & S.F.
R.R. R/W
STREET
INDUSTRIAL
NORTHERN STREET
SPRUCE AVE.
AVENUE
HYDRAULIC
KANSAS
MINNEAPOLIS
MADISON
SPRUCE
ADDITION
GREENWOOD AVE.
VICTORIA
GRABER
SCHRADER BROS.
JUMP
2ND ADD
3RD ADDN
WASSALL
AMSDEN
SALOME
PATTIE
LULU
GRABER ST.
Not Platted

Note: Sand backfill all trenches inside future curb lines.

DRAINAGE CANAL

EXISTING Timber Pile and Sheeting

Sta. 1+80 Construct Reinf. Conc. Manhole See Sh. #8

Sta. 0+18 Construct Reinf. Conc. Box See Sh. #8

Const. Conc. Encasement See Sheet No. 8

EXISTING Timber Pile and Sheeting

SOUTH LINE OF EASEMENT

Building Line Setback

EXISTING MANHOLE ON 10" SANITARY SEWER (INDUSTRIAL) FL.EL. OUT 83.77

NOTE: All construction from Station 0+00 to and including Reinf. Conc. Box Sta. 0+18 is considered as (out fall structure) one unit.

Scale: 1" = 40'

EXISTING MANHOLE ON 60" SAN. SEWER EL. X on Mh. 84.20 FL.EL. 80.20

INDUSTRIAL

SPRUCE AVE.

Sta. 4+96.4 Const. Reinf. Concrete Manhole. See Sh. #9

Sta. 2+95.4 Construct Reinf. Conc. Manhole See Sh. #8

EXISTING MANHOLE ON 10" Sanitary Sewer FL. EL. 85.03

Sta. 3+63.4

Future Curb Line

LINE 1

LINE 1C

AVENUE

Sta. 11+13.9 Line 1
Sta. 0+00 " 2
Sta. 0+00 " 1C
Const. Reinf. Conc. Manhole See Sh. #9 for details.

Install 1-4' joint 24" R.C.P. South out of manhole Sta. 0+39.8 Line 2 for future connection. Seal end of pipe with brick masonry. FL. Elev. Manhole OUT 83.98 IN 84.18

Sta. 0+39.8 Line 2 Construct Reinf. Conc. Manhole See Sh. #9 FL. EL. OUT 83.78 IN 83.98

Sta. 11+73.7 Line 1 Constr. ct Reinf. Conc. Manhole. See Sh. #9 for details.

MADISON AVENUE

B.M. + on hubguard, N.W. cor. canal br. on K-15 highway 150' S.E. iron on W.L. A.T.&S.F. R/W & S.L. Industrial Ave. El. 96.16

PROFILE SCALE 1" = 40' Horiz.
1" = 4' Vert.

Date 9-30-52
Drawn by J.L.A.
Checked by
Note Book No. WC. 6. 5

Elev. bottom of 60" San. Sewer 79.60 (approx)

Canal El. 76.30

2-30" R.C.P. 0.60% FL. EL. 77.13

42" R.C.P. 0.28% FL. EL. 77.47

42" R.C.P. 0.29% FL. EL. 78.05

42" R.C.P. 0.29%

0.20% 42" R.C.P. FL. EL. OUT 79.84 IN 79.34

FL. EL. OUT 80.06 IN 80.16

0+00	1	2	3	4	5	6	7	8	9	10	11
76.05	76.65	77.19	77.48	77.77	78.06	78.35	78.64	78.93	79.22	79.51	79.80

STORM WATER SEWER DIST. NO. 48
CITY OF WICHITA KANSAS
L.K WHITE CITY ENGINEER
Proj. No. C22-73

Scale: 1" = 40'

N

Sta. 11+13.9 Line 1
" 0+00 " 2
" 0+00 " 1C
Const. Reinf. Conc. Manhole

EXISTING MANHOLE ON 10" SANITARY SEWER FL.EL. 85.68

EXISTING MANHOLES ON 8" SANITARY SEWER

Sta. 17+77 Const. Manhole

Sta. 22+32.7 Const Manhole Line 1
Sta. 0+00 Line 1A

Sta. 24+23.8 Const Manhole

Sta. 11+73.7 Const. Reinf. Conc. Manhole

Sta. 19+82.7 Const Manhole Line 1
Sta. 0+00 Line 1B

Sta. 23+40.2 Const. Manhole

EXISTING MANHOLE ON 8" SANITARY SEWER FL.EL. Out 86.76 In 86.97

B.M. 60# Spk. W.S. R.R. R/W Fence post W.S. A.T. & S.F. R/W & Wassall West. El. 95.07

PROFILE SCALE 1" = 40' Horiz.
1" = 4' Vert.

Sta.	11+13.9	11+73.7	17+77	19+82.7	22+32.7	23+40.2	24+23.8
Elevation	100	100	100	100	100	100	100
Top Curb Elevation					96.25	96.25	96.25
Invert Elevation	79.80	80.21	81.41	81.61	81.01	81.21	81.41
	11	12	13	14	15	16	17
Invert Elevation	81.41	81.61	81.01	81.21	83.60	85.49	87.38	88.11	88.33
	18	19	20	21	22	23	24

10" V.C.P.
8" V.C.P.
42" R.C.P. 0.20%
F.L.El. Out 79.64 In 79.94
F.L.El. Out 80.06 In 80.16
F.L.El. 81.36
42" R.C.P. 0.20%
F.L.El. Out 81.78 In 83.28
24" R.C.P. 1.89%
F.L.El. 88.00
8" V.C.P. San. Sewer
CONST. CONC. CRADLE
24" R.C.P. 0.17%
F.L.El. 88.13
24" R.C.P. 0.17%
F.L.El. 88.33

STORM WATER SEWER DIST. NO. 48
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
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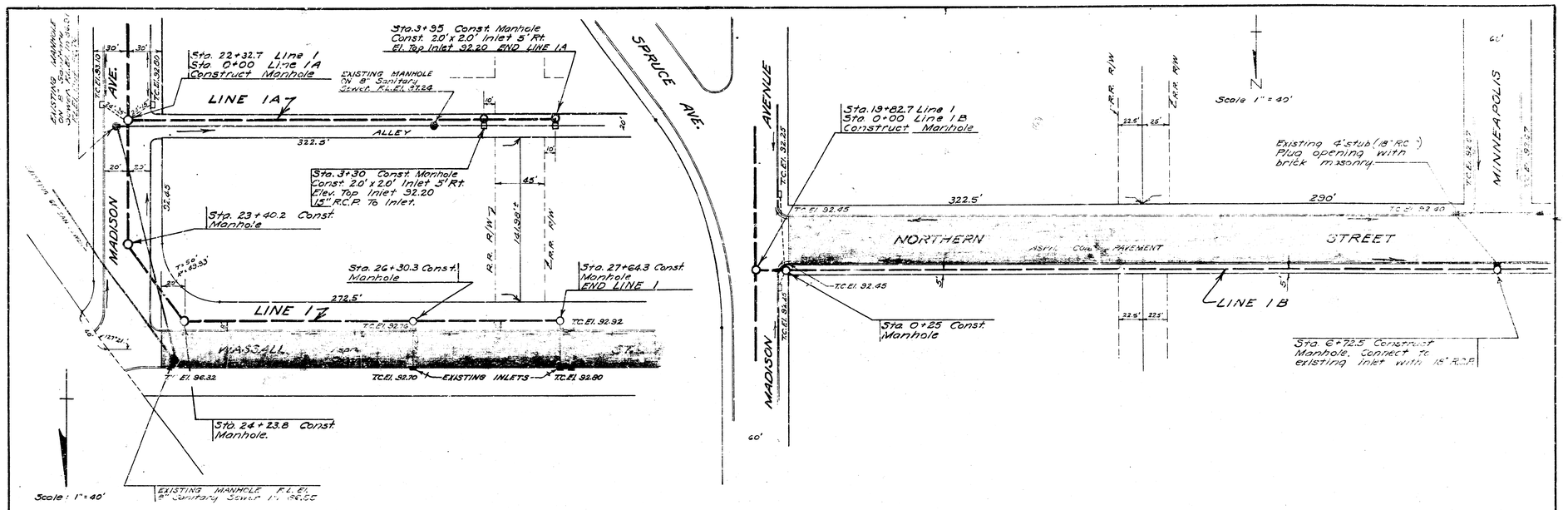
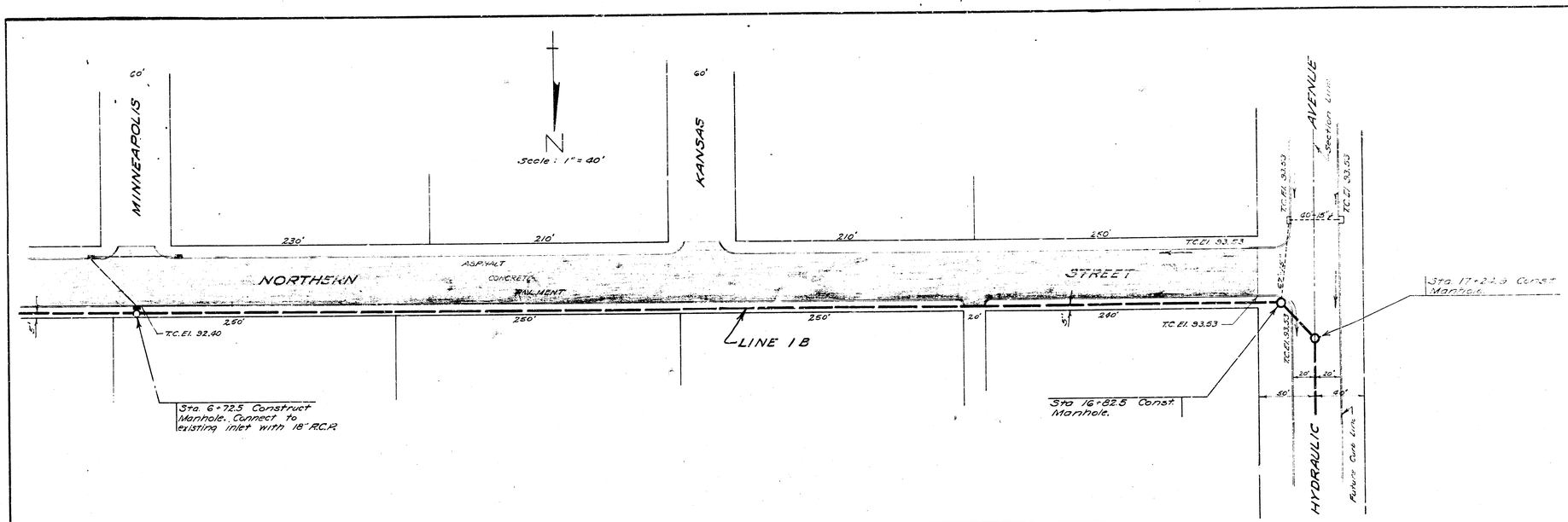
Date 9-30-52
Drawn by J.L.K.
Checked by
Note Book No. —

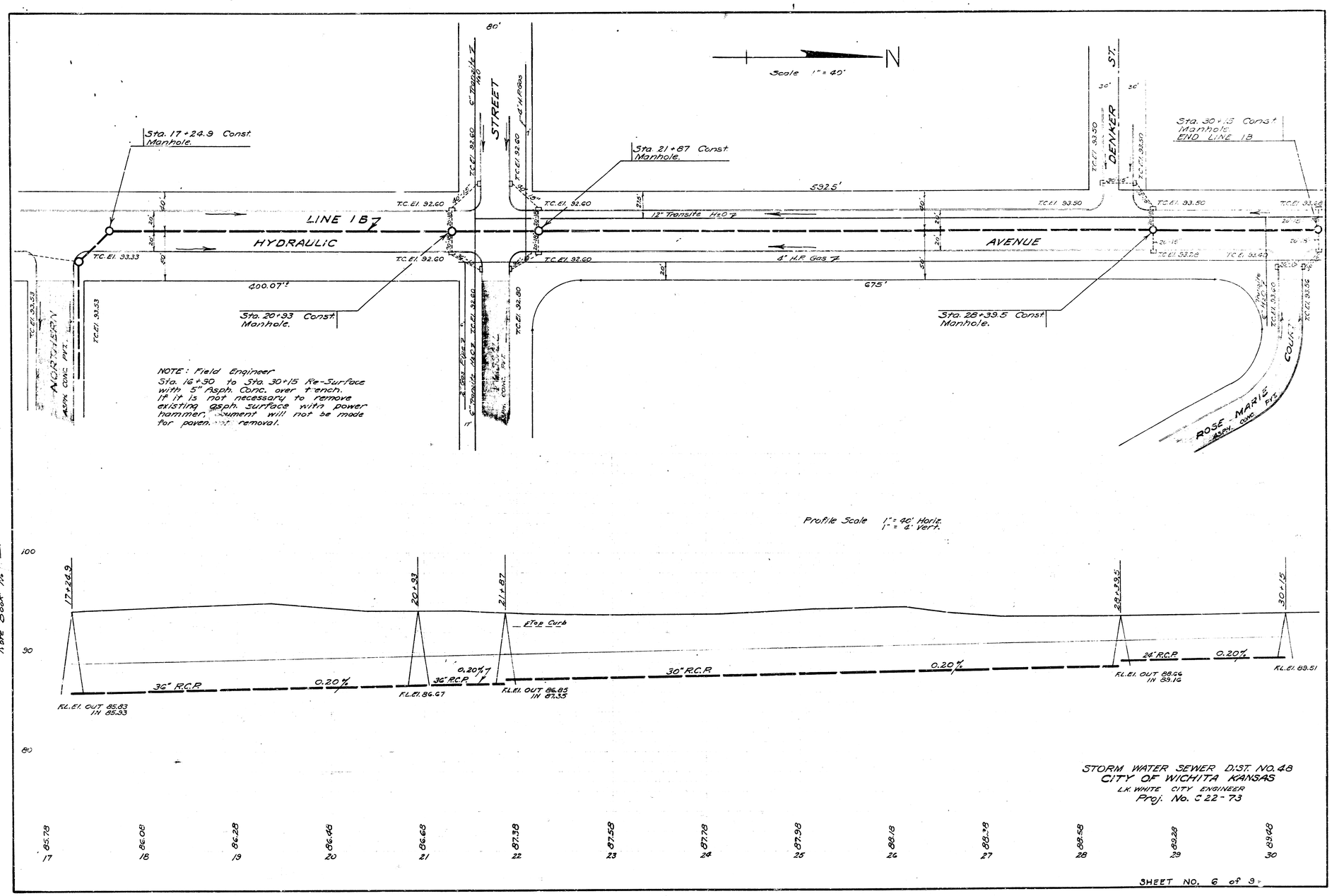
SHEET NO. 3 of 9


Sta. 3+95 Const. Manhole
Const. 2.0' x 2.0' Inlet 5' Rt.
El. Top Inlet 92.20 END LINE 1A
Sta. 22+32.7 Line 1
Sta. 0+00 Line 1A
Construct Manhole
EXISTING MANHOLE
24" Sanitary
Sewer FLEl. 87.84
LINE 1A
ALLEY
322.5'
MADISON AVE.
SPRUCE AVE.
Sta. 3+30 Const. Manhole
Const. 2.0' x 2.0' Inlet 5' Rt.
Elev. Top Inlet 92.20
15" R.C.P. To Inlet.
Sta. 23+40.2 Const.
Manhole
Sta. 26+30.3 Const.
Manhole
Sta. 27+64.3 Const.
Manhole
END LINE 1
LINE 1Z
272.5'
T.C.El. 92.70
T.C.El. 92.92
WASSALL
EXISTING INLETS
T.C.El. 92.80
Sta. 24+23.8 Const.
Manhole.
EXISTING MANHOLE F.L.El.
8" Sanitary Sewer 11, 86.55
Scale: 1"=40'
A.T. & S.F. R/W
R.R. R/W
Z.R.R. R/W
Sta. 19+82.7 Line 1
Sta. 0+00 Line 1B
Construct Manhole
Existing 4' stub (18" RC)
Plug opening with
brick masonry
322.5'
290'
NORTHERN
STREET
LINE 1B
Sta. 0+25 Const.
Manhole
Sta. 6+72.5 Construct
Manhole. Connect to
existing inlet with 18" R.C.P.
MINNEAPOLIS
Scale 1" = 40'
PROFILE SCALE 1"= 40' Horiz.
1"= 4' Vert.
LINE 1A
18" R.C.P.
0.30%
15" R.C.P.
F.L.El. 88.00
F.L.El. OUT 88.33
IN 88.28
F.L.El. 88.44
Const. conc. cradle between
base of inlets & 8" Sanitary
sewer pipe.
LINE 1
24" R.C.P.
0.17%
F.L.El. 88.33
F.L.El. 88.68
F.L.El. 88.91
LINE 1B
36" R.C.P.
0.20%
F.L.El. OUT 81.75
IN 82.28
F.L.El. 82.33
F.L.El. 83.63
STORM WATER SEWER DIST. NO. 48
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C 22-73
Date 9-30-52
Drawn by J.L.A.
Checked by
Note Book No.
SHEET NO. 4 of 9



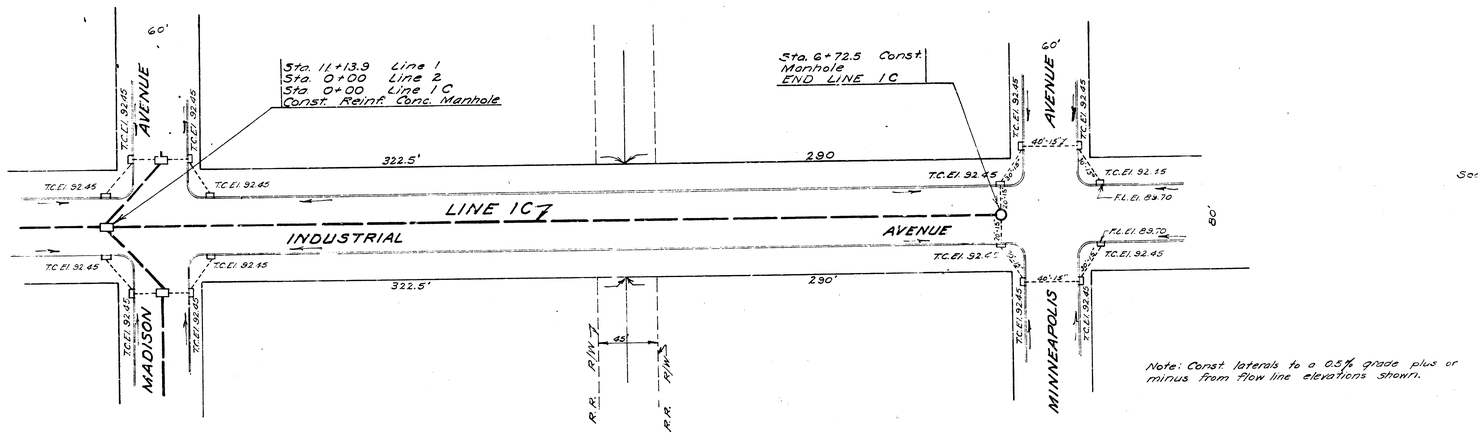
Date 3-30-52
Drawn by J.L.A.
Checked by
Note Book No. —

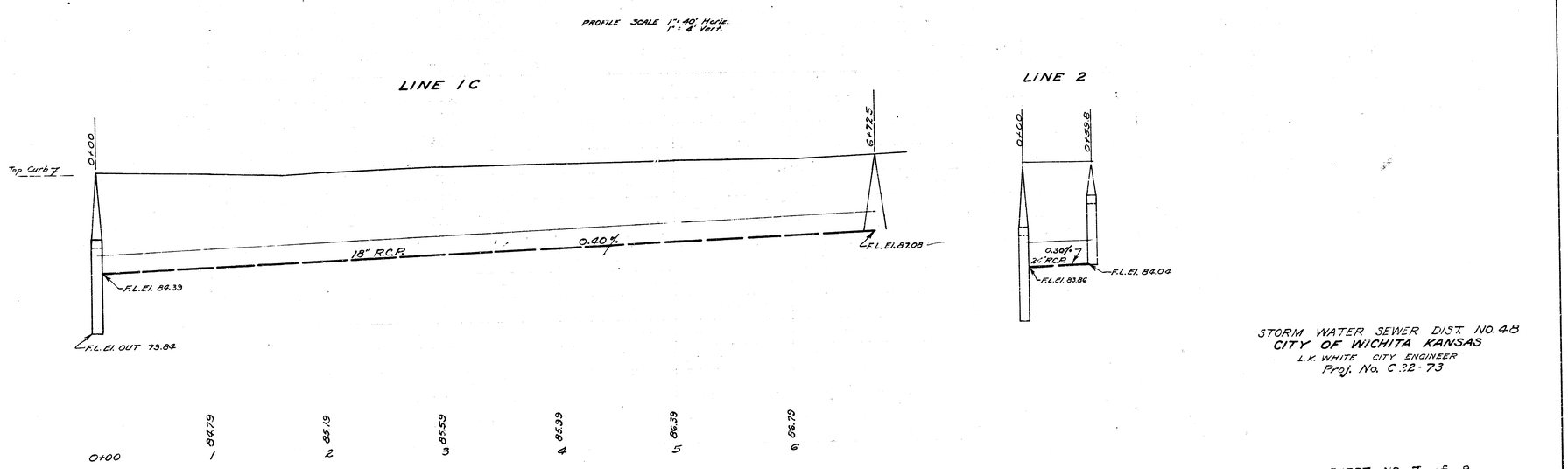
STORM WATER SEWER DIST. NO. 48
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C22-73



Date 9-30-52
Drawn by J.C.P.
Checked by
Note Book No. —

STORM WATER SEWER DIST. NO. 48
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C 22-73

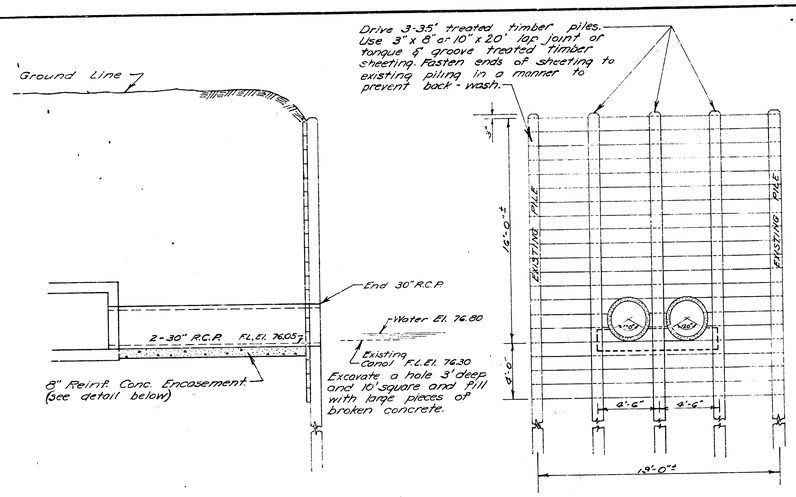




9-30-52
J.L.A.
1

Date
Drawn by
Checked by
Note Book No.

STORM WATER SEWER DIST. NO. 48
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C.32-73

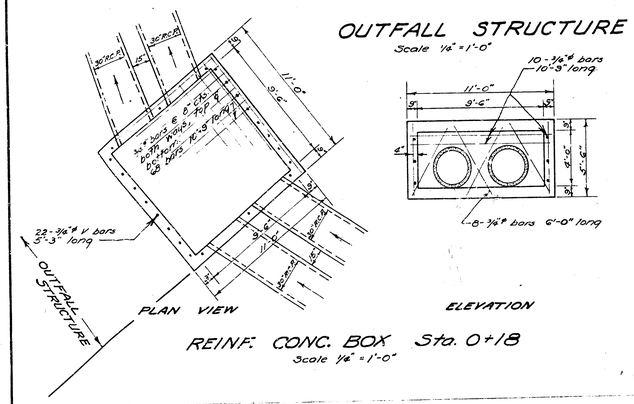


SIDE ELEVATION

END ELEVATION

OUTFALL STRUCTURE

Scale 1/2" = 1'-0"



PLAN VIEW

ELEVATION

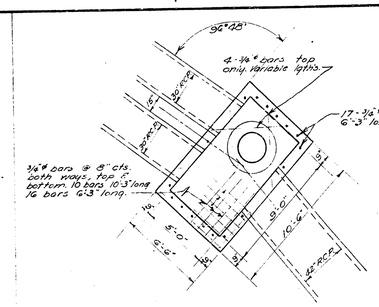
REINF. CONC. BOX Sta. 0+18

Scale 1/2" = 1'-0"

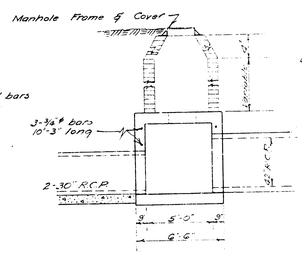
Concrete for manholes shall contain not less than 1.65 bbls. of cement per cu. yd. of concrete. In no event shall the total water content exceed 6.25 gals. per sack of cement. The mixture of fine and course aggregate shall be such as will produce a maximum density of a most workable mixture. IN GENERAL: Pipes will enter and leave the manholes at various angles and elevations. Where possible bend reinf. bars around pipes (18" diam. or less) where pipes are large use 5/8" ϕ diagonal bars as shown.

The floor of the manhole is to be shaped for flow and drainage with concrete. No deduction in concrete quantities shall be made for pipe openings. No addition in concrete quantities shall be made for shaping manhole floor.

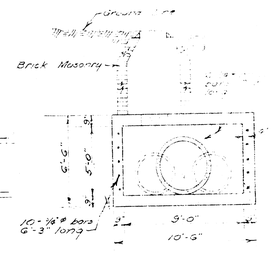
An internal viberator shall be used for placing concrete.



PLAN VIEW



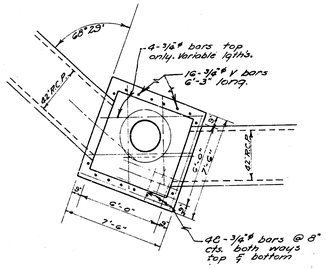
END ELEVATION



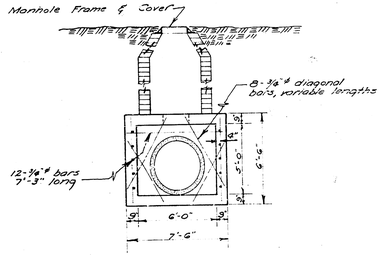
SIDE ELEVATION

REINF. CONC. MANHOLE Sta. 1+80

Scale 1/2" = 1'-0"



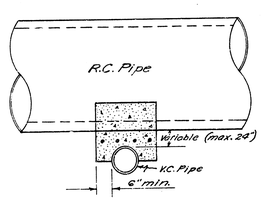
PLAN VIEW



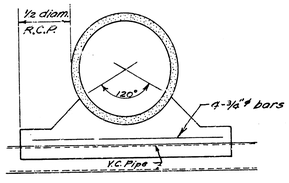
ELEVATION

REINF. CONC. MANHOLE Sta. 2+95.4

Scale 1/2" = 1'-0"

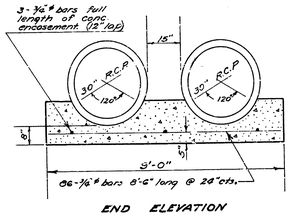


ELEVATION



REINFORCED CONCRETE CRADLE DETAIL

No Scale



END ELEVATION

REINF. CONC. ENCASEMENT DETAIL

Sta. 0+01 to Manhole Sta. 1+80

STORM WATER SEWER DIST. NO. 48
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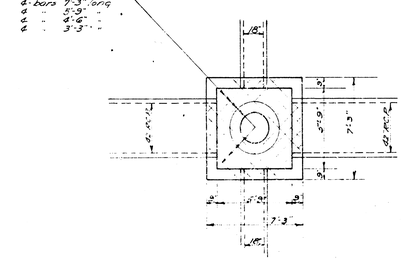
Steel Pattern (top only)
3/4" bars @ 8" cts. as shown.
Variable lengths
6 - bars 7'-3" long
6 " " 5'-9" "
6 " " 4'-6" "
6 " " 3'-3" "
5'-9"
7'-3"
5'-9"
1'-6"
1'-6"
1'-6