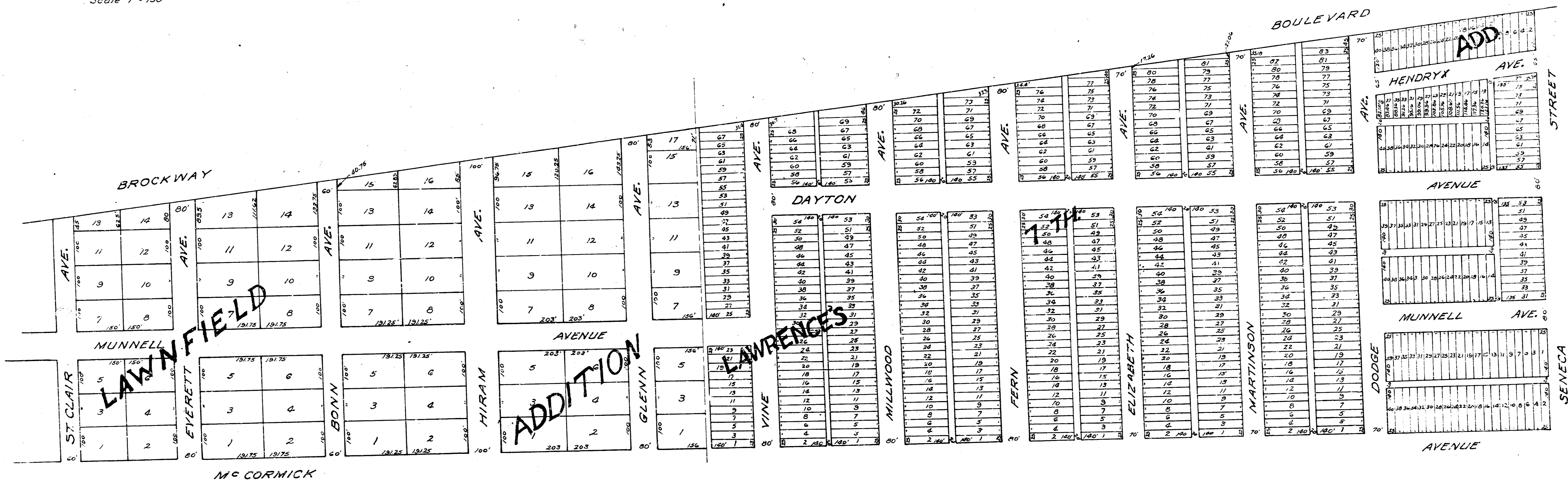
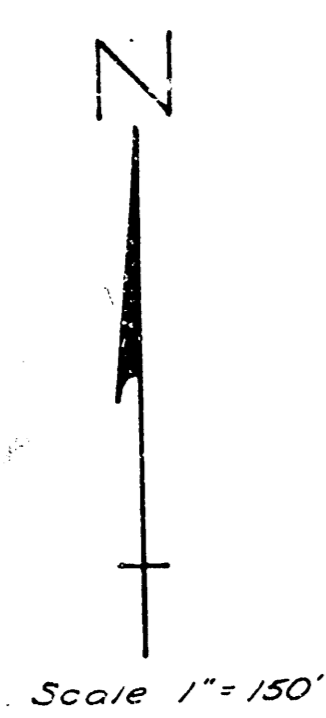
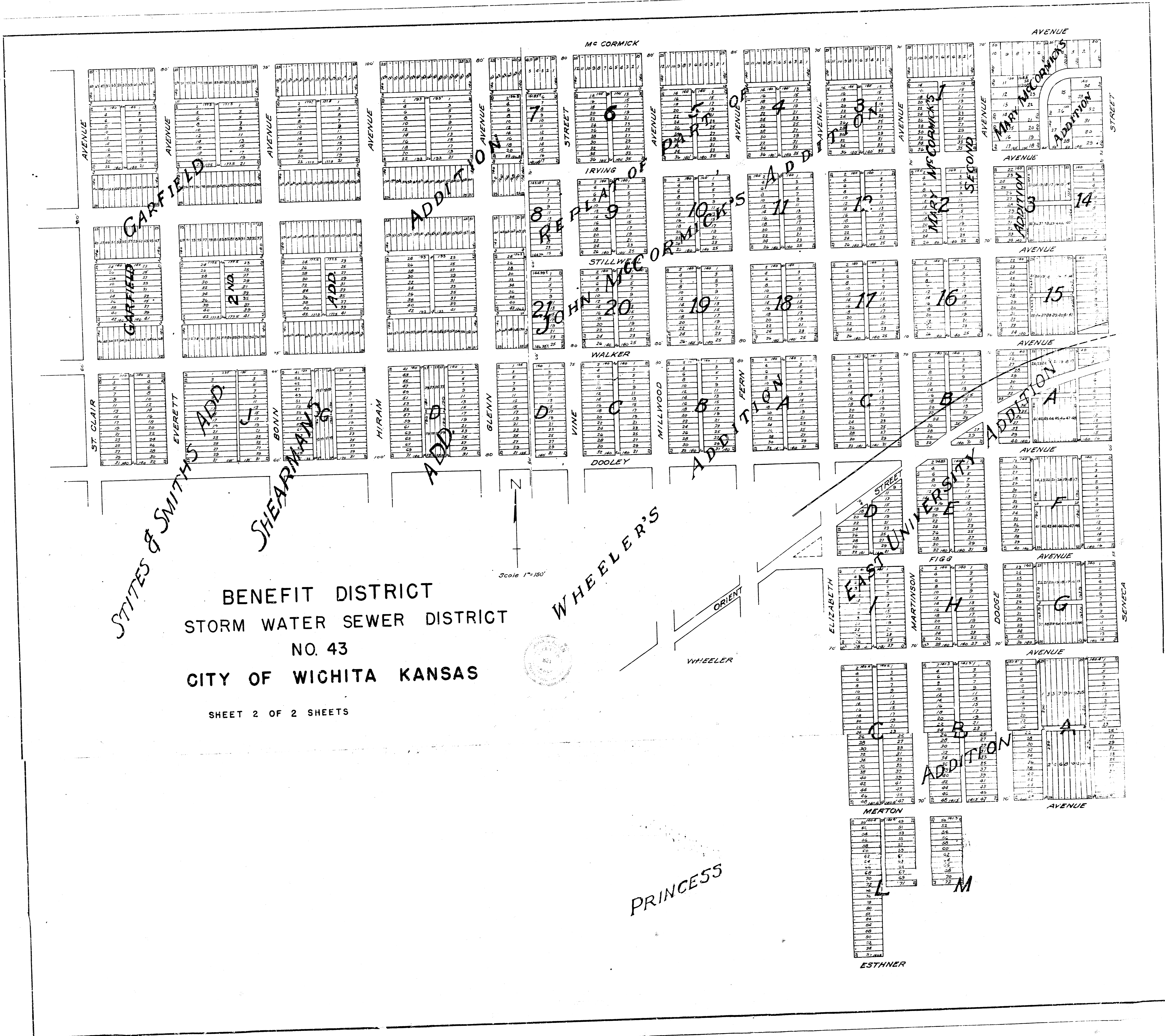


BENEFIT DISTRICT
STORM WATER SEWER DISTRICT
NO. 43
CITY OF WICHITA KANSAS

SHEET 1 OF 2 SHEETS





STITES & SMITH'S ADD.

SHEARMAN'S

ADD.

WHEELER'S

ADD.

ELIZABETH

EAST UNIVERSITY

ADDITION

ADDITION

PRINCESS

BENEFIT DISTRICT
 STORM WATER SEWER DISTRICT
 NO. 43
 CITY OF WICHITA KANSAS

SHEET 2 OF 2 SHEETS

Scale 1"=150'



ESTHNER

LOCATION MAP OF STORM WATER SEWER
DISTRICT NO. 43
CITY OF WICHITA KANSAS

L.K. WHITE CITY ENGINEER

PROJECT NO. C21-65

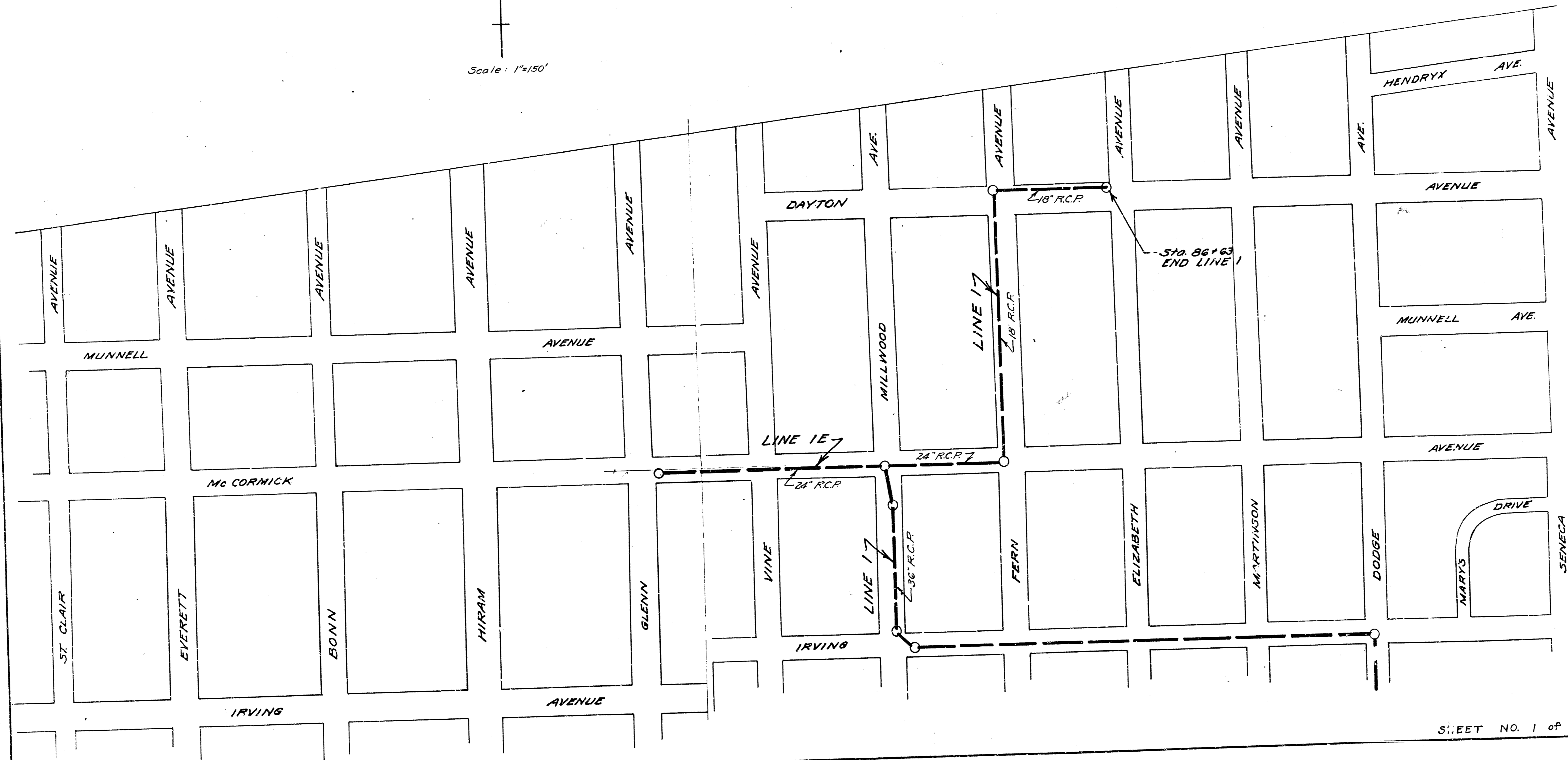
DATE - MAY 15, 1952

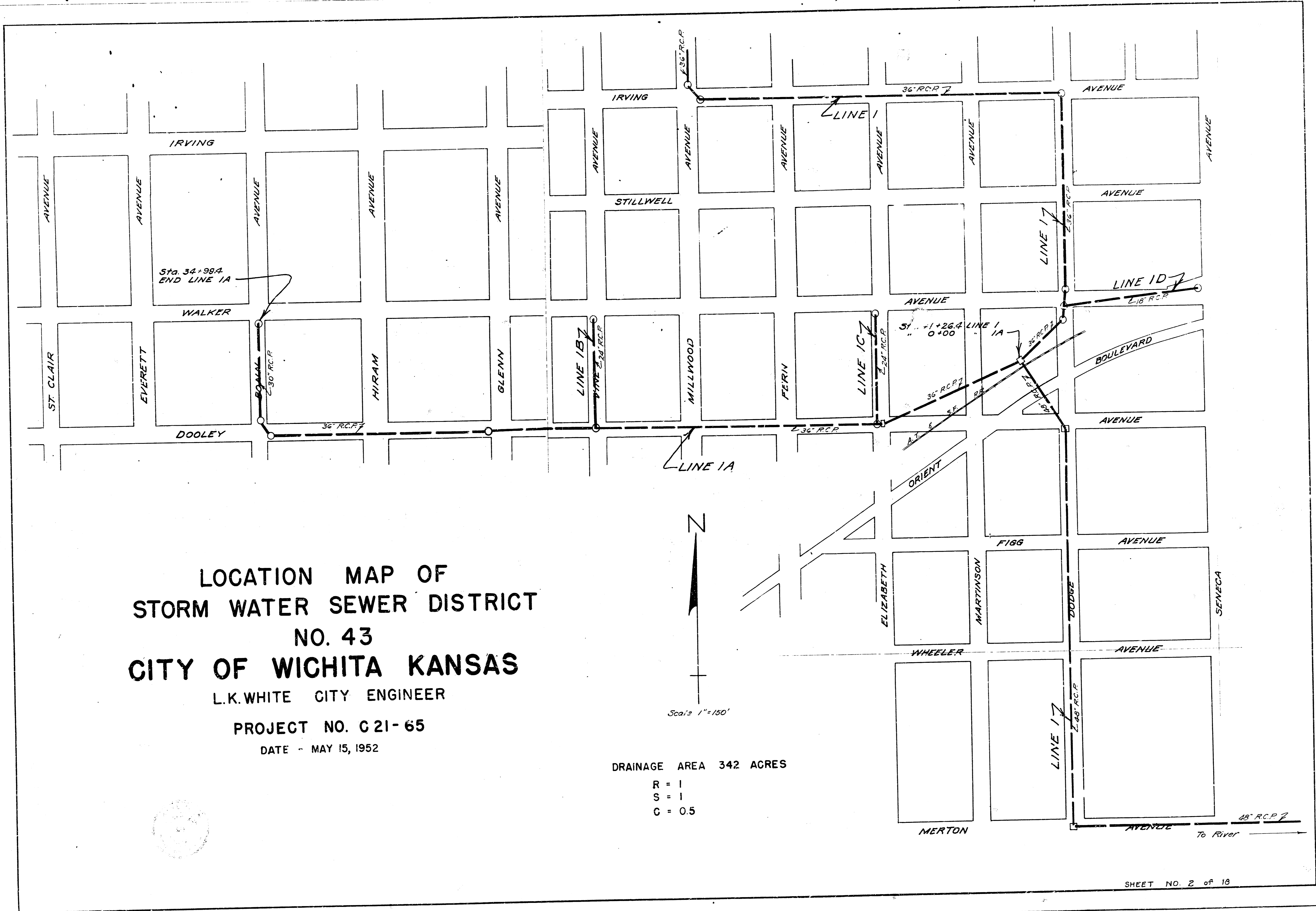
DRAINAGE AREA 342 ACRES

R = 1
S = 1
C = 0.5

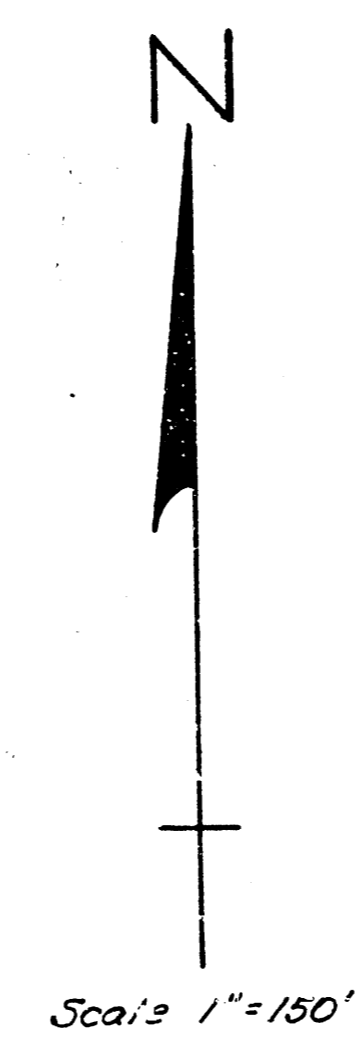


Scale: 1"=150'

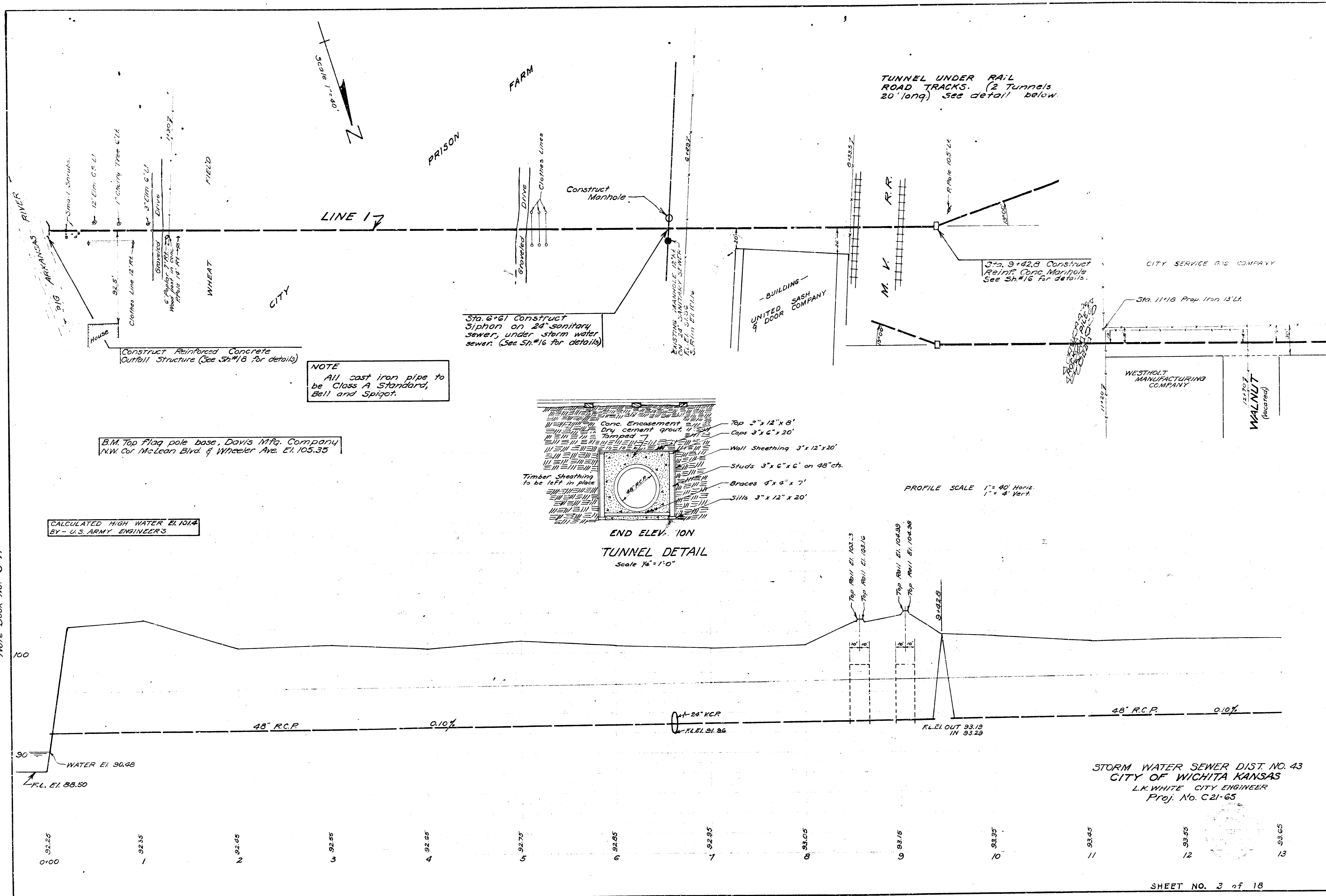




LOCATION MAP OF
 STORM WATER SEWER DISTRICT
 NO. 43
 CITY OF WICHITA KANSAS
 L.K. WHITE CITY ENGINEER
 PROJECT NO. C21-65
 DATE - MAY 15, 1952



DRAINAGE AREA 342 ACRES
 R = 1
 S = 1
 C = 0.5



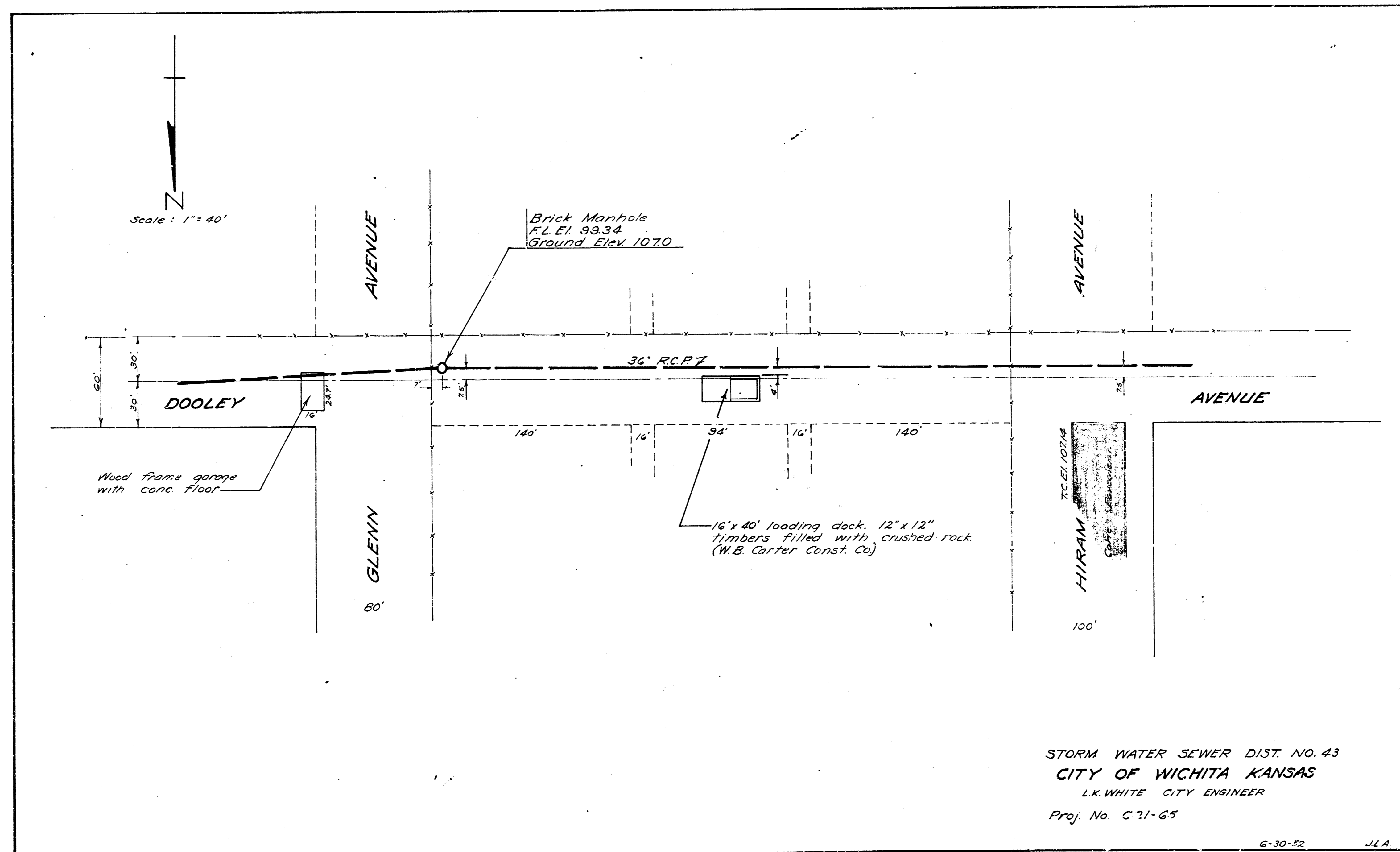
NOTE
 All cast iron pipe to be Class A Standard, Bell and Spigot.

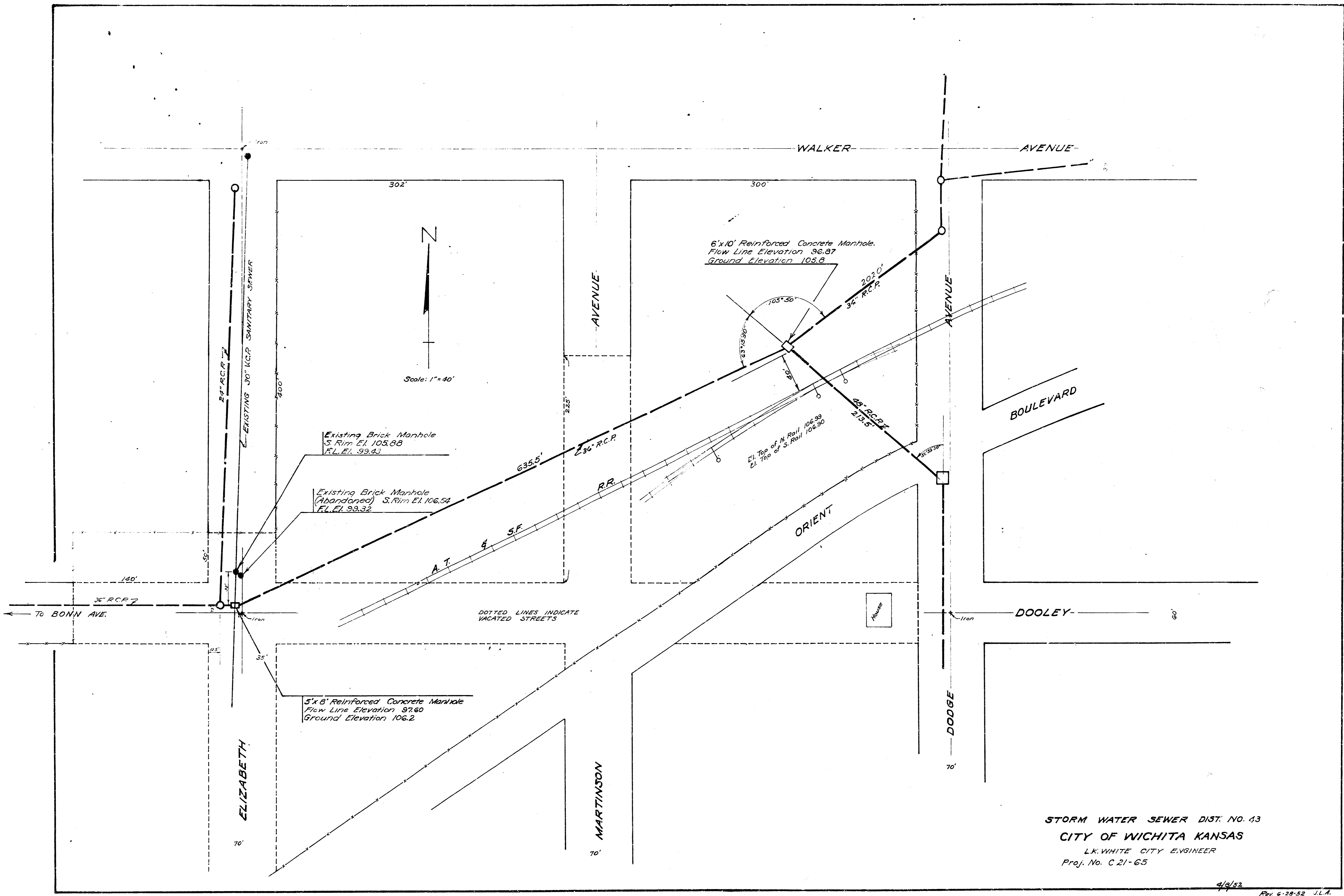
B.M. Top flag pole base, Davis Mfg. Company
 NW Cor. McLean Blvd. & Wheeler Ave. El. 105.35

CALCULATED HIGH WATER EL. 101.4
 BY - U.S. ARMY ENGINEERS

Date 5-15-52
 Drawn by J.L.A.
 Checked by Able Book No. 5-11

STORM WATER SEWER DIST. NO. 43
 CITY OF WICHITA KANSAS
 L.K. WHITE CITY ENGINEER
 Proj. No. C-21-65



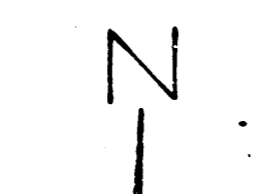


Existing Brick Manhole
S. Rim El. 103.88
F.L. El. 99.43

Existing Brick Manhole
(Abandoned) S. Rim El. 106.54
F.L. El. 99.32

5'x8' Reinforced Concrete Manhole
Flow Line Elevation 97.60
Ground Elevation 106.2

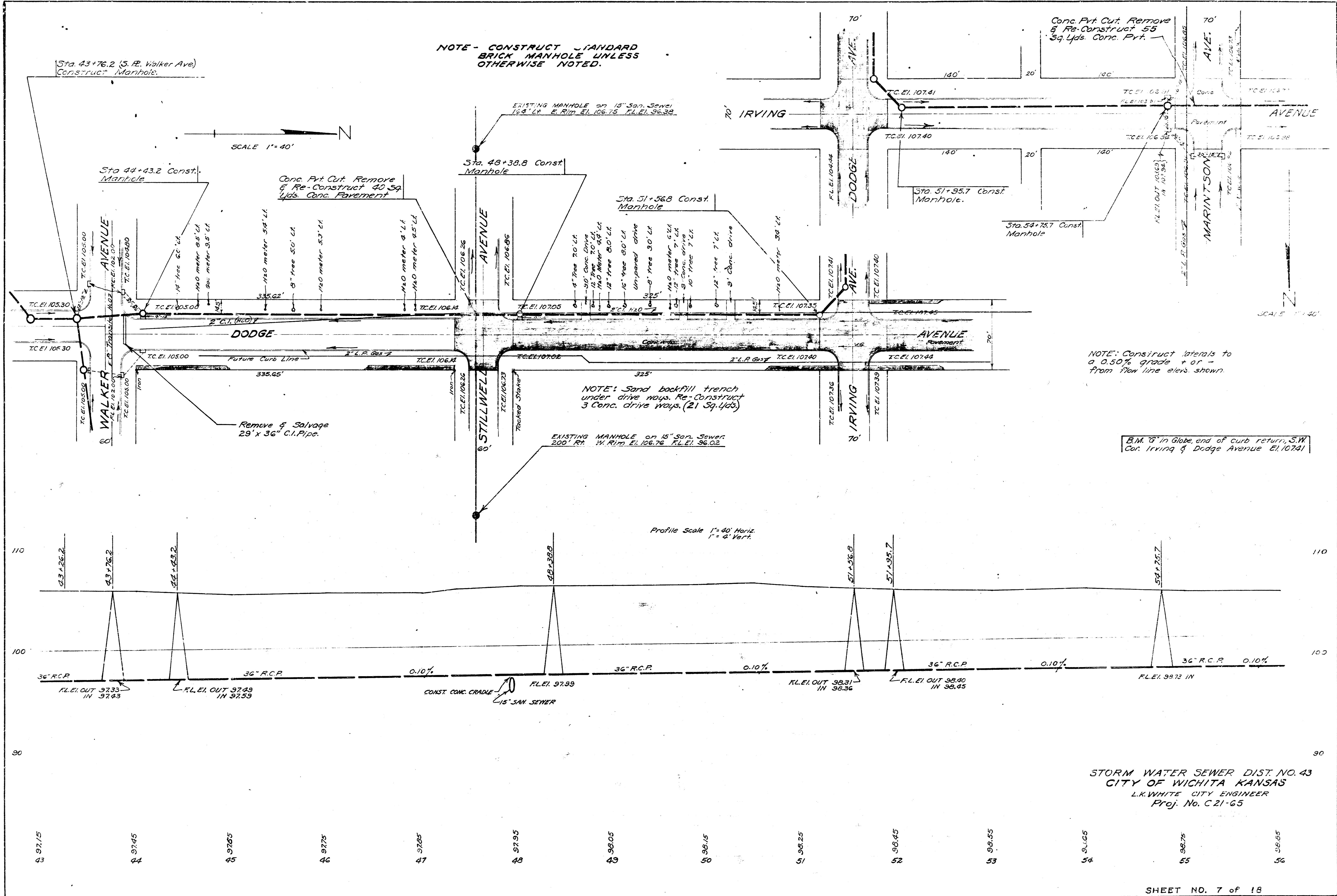
6'x10' Reinforced Concrete Manhole
Flow Line Elevation 96.87
Ground Elevation 105.6



Scale: 1" = 40'

STORM WATER SEWER DIST. NO. 43
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C 21-65

4/9/52 Rev. 6-28-52 J.L.A.



NOTE - CONSTRUCT STANDARD BRICK MANHOLE UNLESS OTHERWISE NOTED.

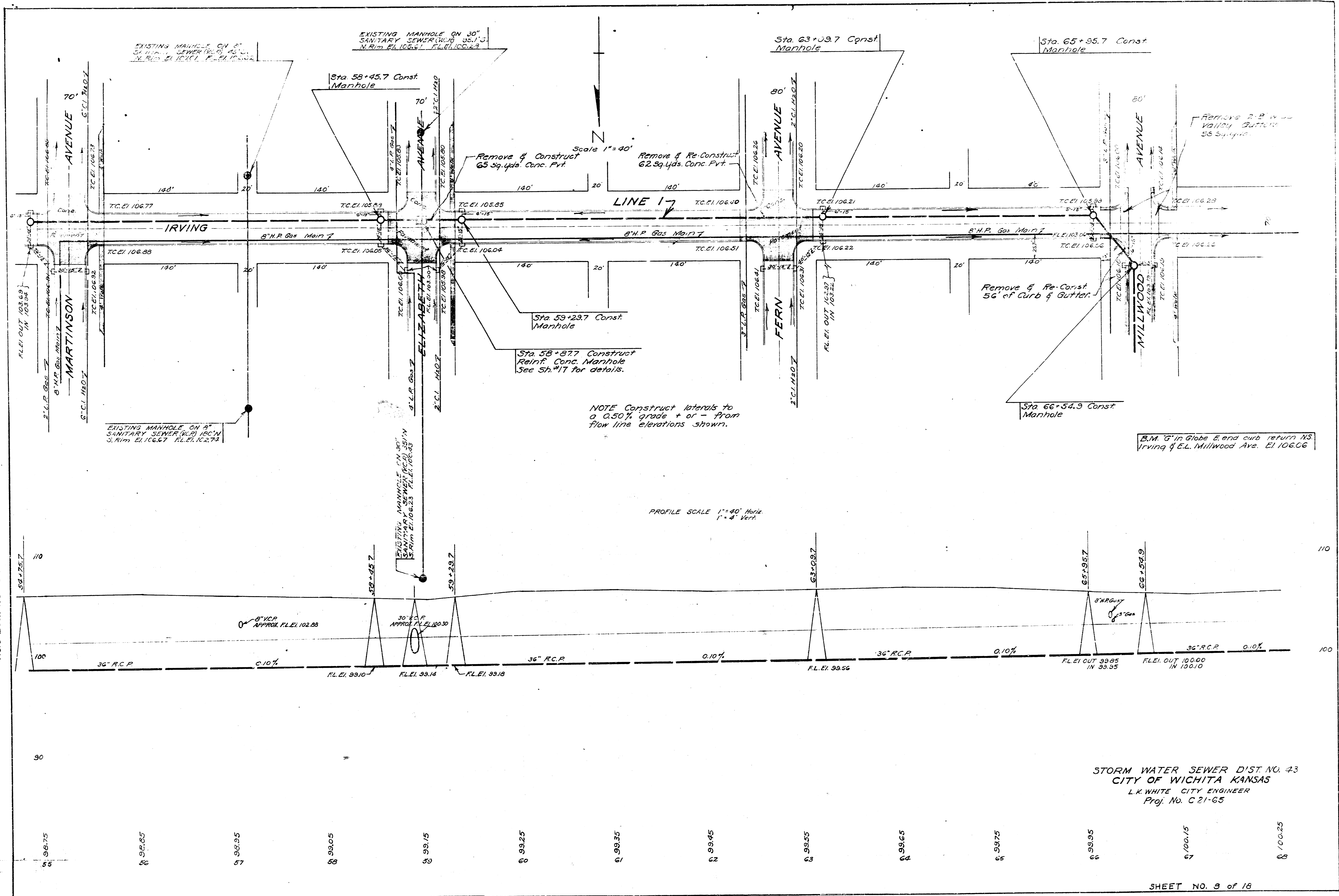
NOTE: Construct laterals to a 0.50% grade + of from flow line elev. shown.

B.M. 6" in Globe end of curb return, SW Cor. Irving & Dodge Avenue E.I. 10741

NOTE: Sand backfill trench under drive ways. Re-Construct 3 Conc. drive ways (21 Sq. Yds)

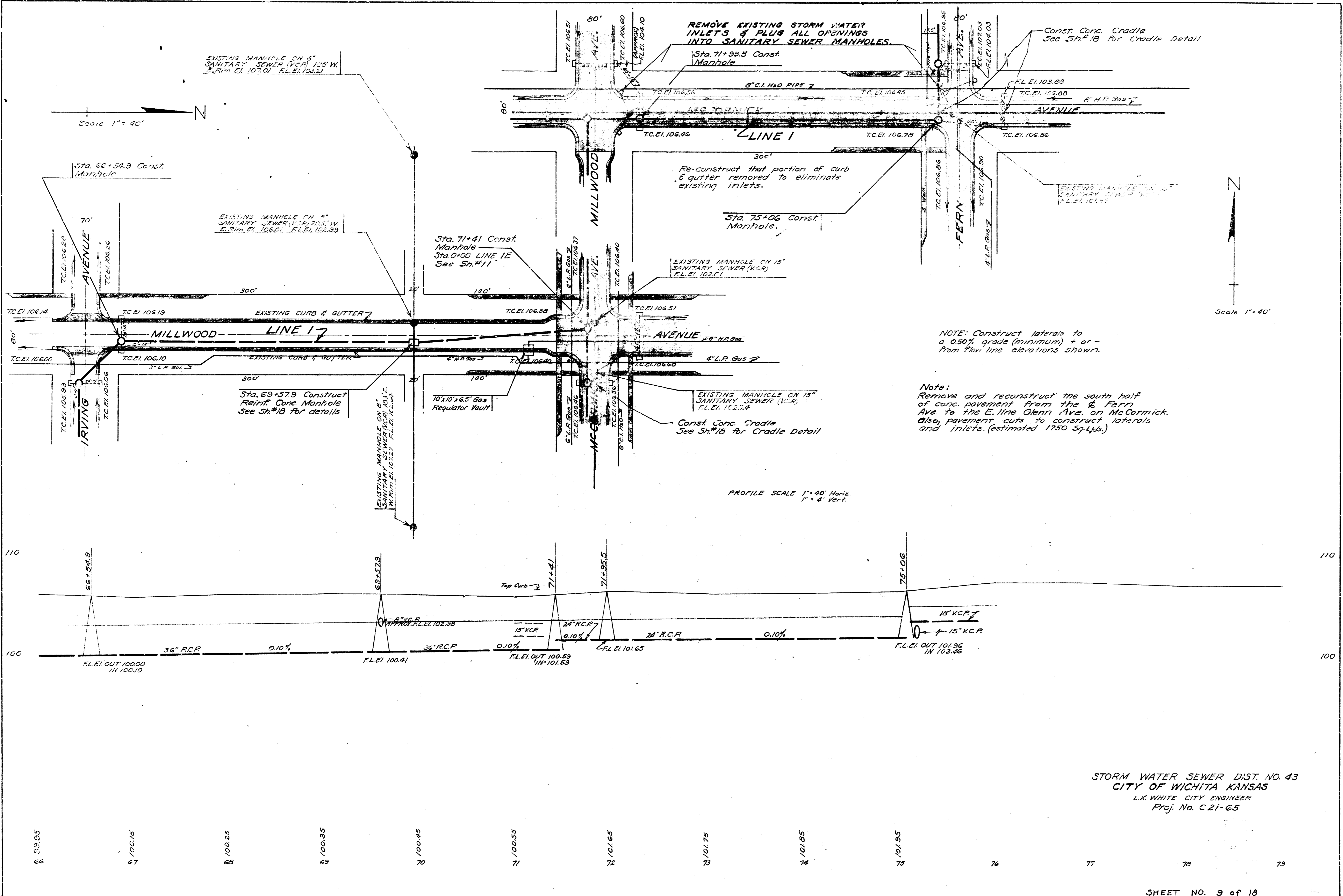
Drafts 5-15-52
 Checked by J.L.A.
 Chapter 4
 Note Book 16 5-11

STORM WATER SEWER DIST. NO. 43
 CITY OF WICHITA KANSAS
 L.K. WHITE CITY ENGINEER
 Proj. No. C-21-65



Date 5-15-52
 Drawn by J.L.A.
 Checked by Note Book No. 5-11

STORM WATER SEWER DIST. NO. 43
 CITY OF WICHITA KANSAS
 L.K. WHITE CITY ENGINEER
 Proj. No. C 21-65



Scale 1" = 40'

Scale 1" = 40'

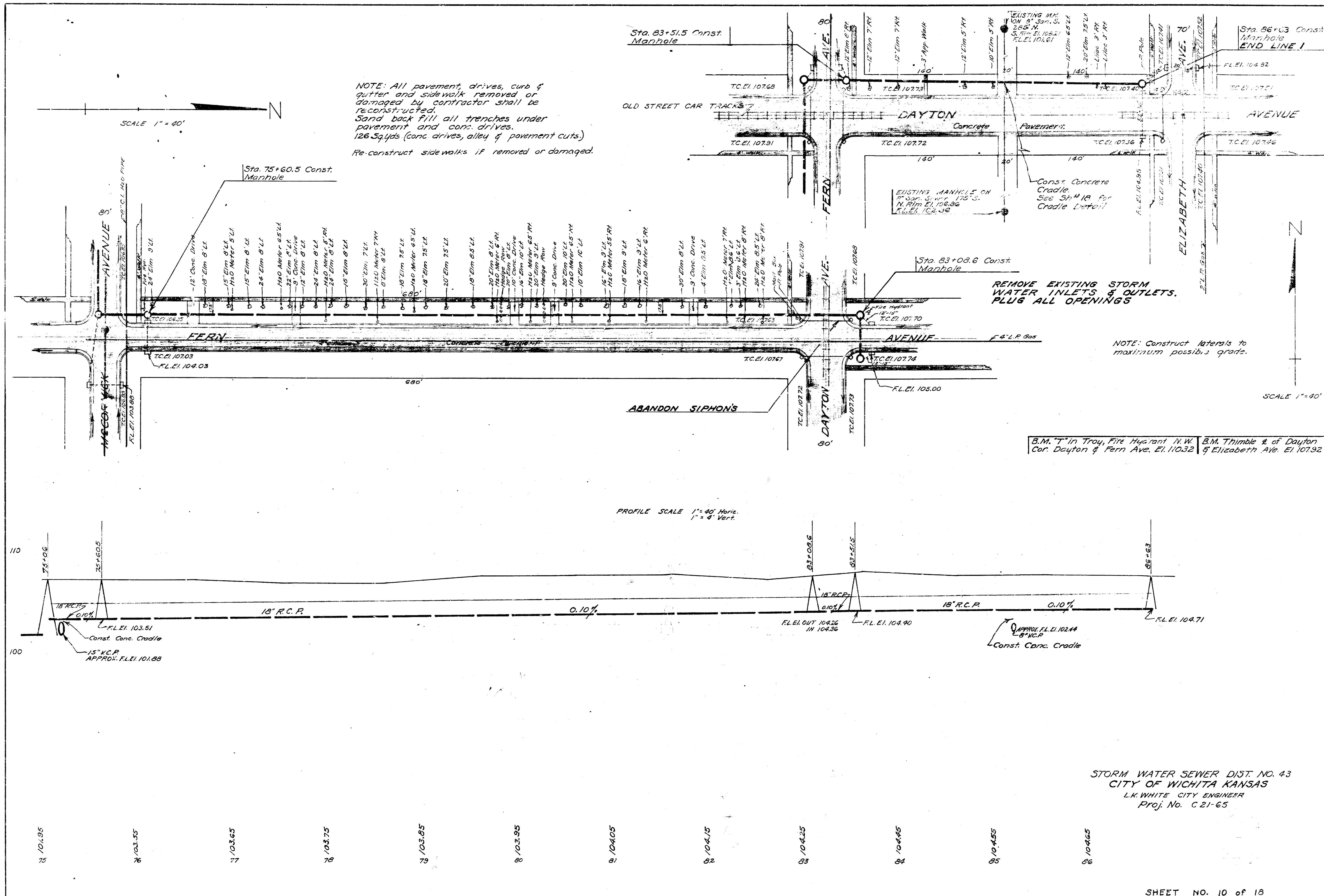
PROFILE SCALE 1" = 40' Horiz.
1" = 8' Vert.

NOTE: Construct laterals to a 0.50% grade (minimum) + or - from flow line elevations shown.

Note: Remove and reconstruct the south half of conc. pavement from the E. line Glenn Ave. to the E. line McCormick Ave. on McCormick. Also pavement cuts to construct laterals and inlets. (estimated 1750 Sq. Yds.)

Date 5-15-52
 Drawn by J.L.A.
 Checked by
 Note Book No. 5-11

STORM WATER SEWER DIST. NO. 43
 CITY OF WICHITA KANSAS
 L.K. WHITE CITY ENGINEER
 Proj. No. C 21-65



NOTE: All pavement, drives, curb & gutter and sidewalk removed or damaged by contractor shall be reconstructed. Sand back fill all trenches under pavement and conc. drives. 126 Sqyds (conc. drives, alley & pavement cuts). Re-construct sidewalks if removed or damaged.

REMOVE EXISTING STORM WATER INLETS & OUTLETS. PLUS ALL OPENINGS

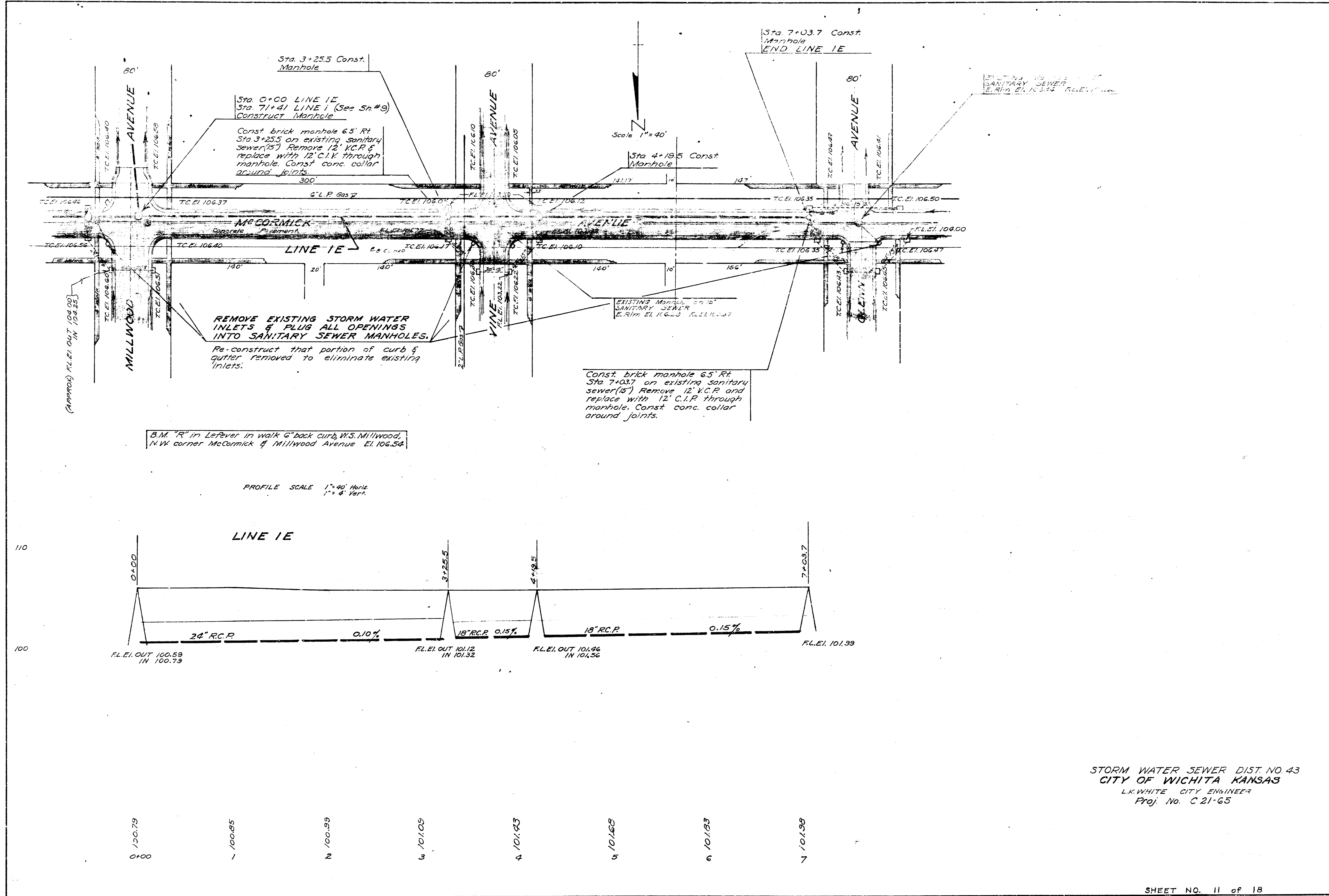
NOTE: Construct materials to maximum possible grade.

B.M. T in Troy, Fire Hydrant N.W. of Dayton & Fern Ave. El. 103.32
 B.M. Thimble # of Dayton & Elizabeth Ave. El. 107.92

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

Date: 5-15-52
 Drawn by: J.L.A.
 Checked by: [Signature]
 Note Book No. 5-11

STORM WATER SEWER DIST. NO. 43
 CITY OF WICHITA KANSAS
 L.K. WHITE CITY ENGINEER
 Proj. No. C-21-65



Sta. 3+25.5 Const. Manhole

Sta. 0+00 LINE 1E
Sta. 7+41 LINE 1 (See Sh #9)
Construct Manhole

Const brick manhole 6.5' Rt. Sta. 3+25.5 on existing sanitary sewer (18") Remove 12" R.C.P. & replace with 12" C.I.P. through manhole. Const conc. collar around joints.

Scale 1" = 40'

Sta. 7+03.7 Const. Manhole
END LINE 1E

REMOVE EXISTING STORM WATER INLETS & PLUG ALL OPENINGS INTO SANITARY SEWER MANHOLES.

Re-construct that portion of curb & gutter removed to eliminate existing inlets.

Const brick manhole 6.5' Rt. Sta. 7+03.7 on existing sanitary sewer (18") Remove 12" R.C.P. and replace with 12" C.I.P. through manhole. Const conc. collar around joints.

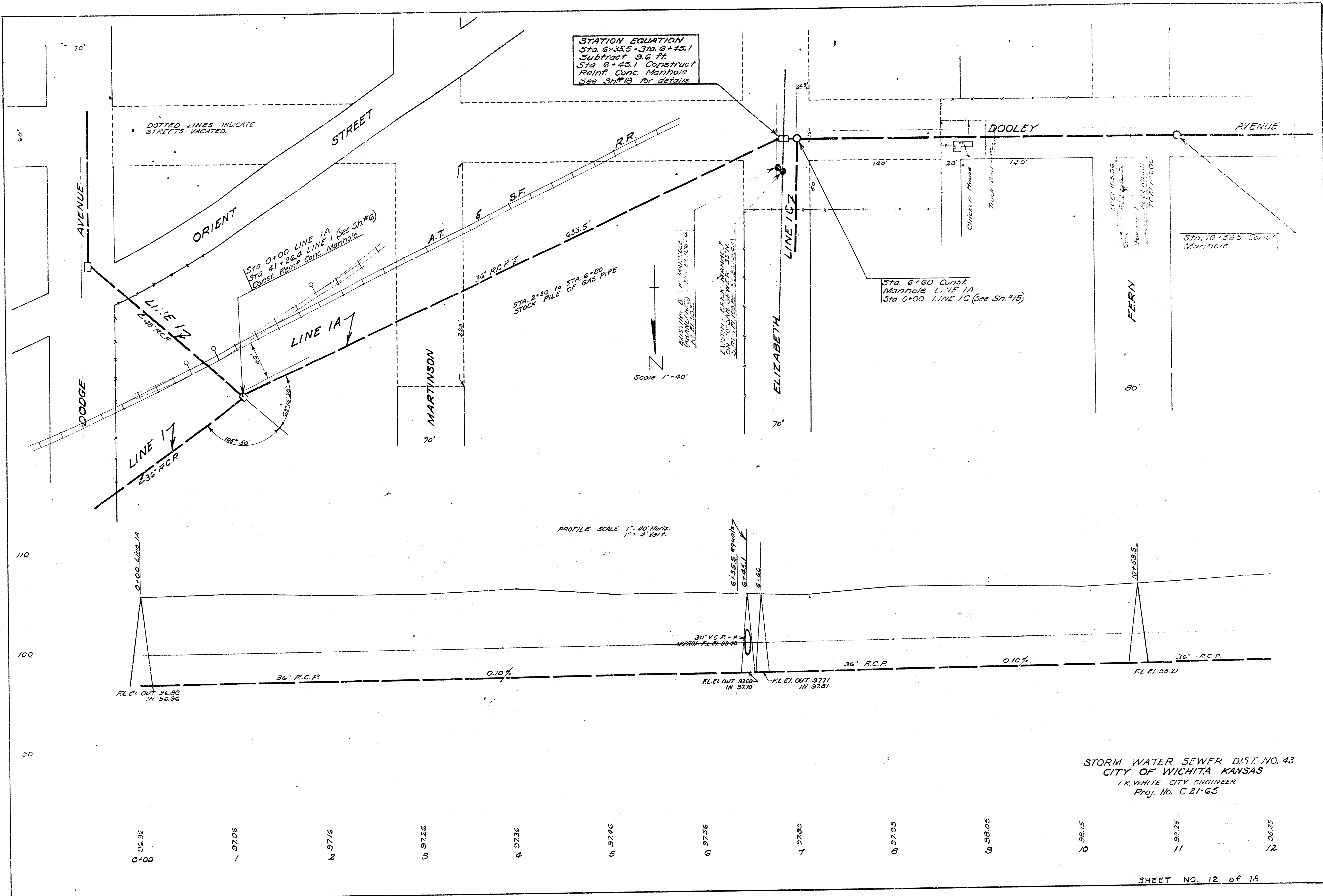
B.M. "R" in Lefever in walk 6" back curb, W.S. Millwood, N.W. corner McCormick & Millwood Avenue El. 106.54

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

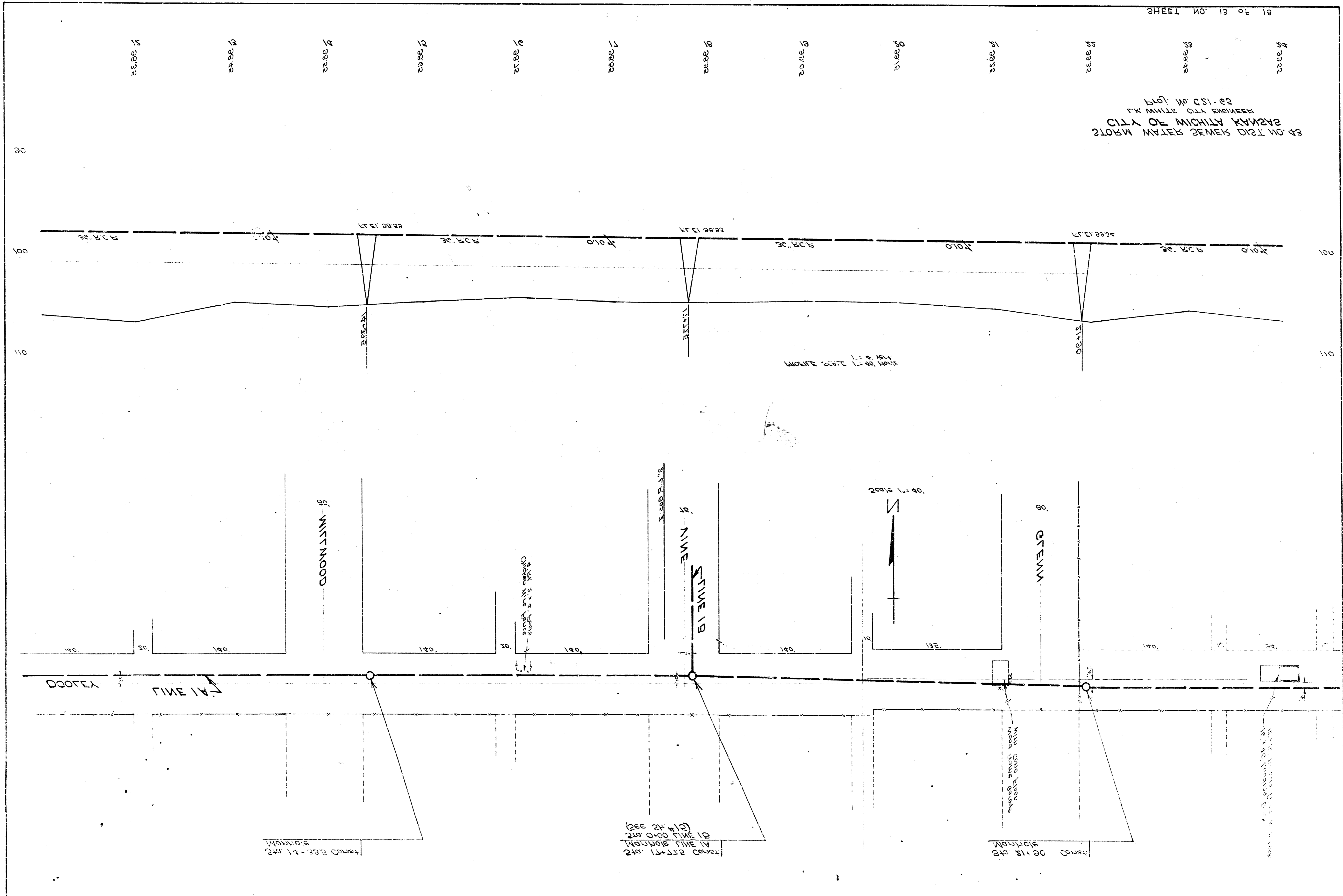
Date 5-15-52
Drawn by JLA
Checked by
Note Book No. 5-11

STORM WATER SEWER DIST. NO. 43
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C 21-65

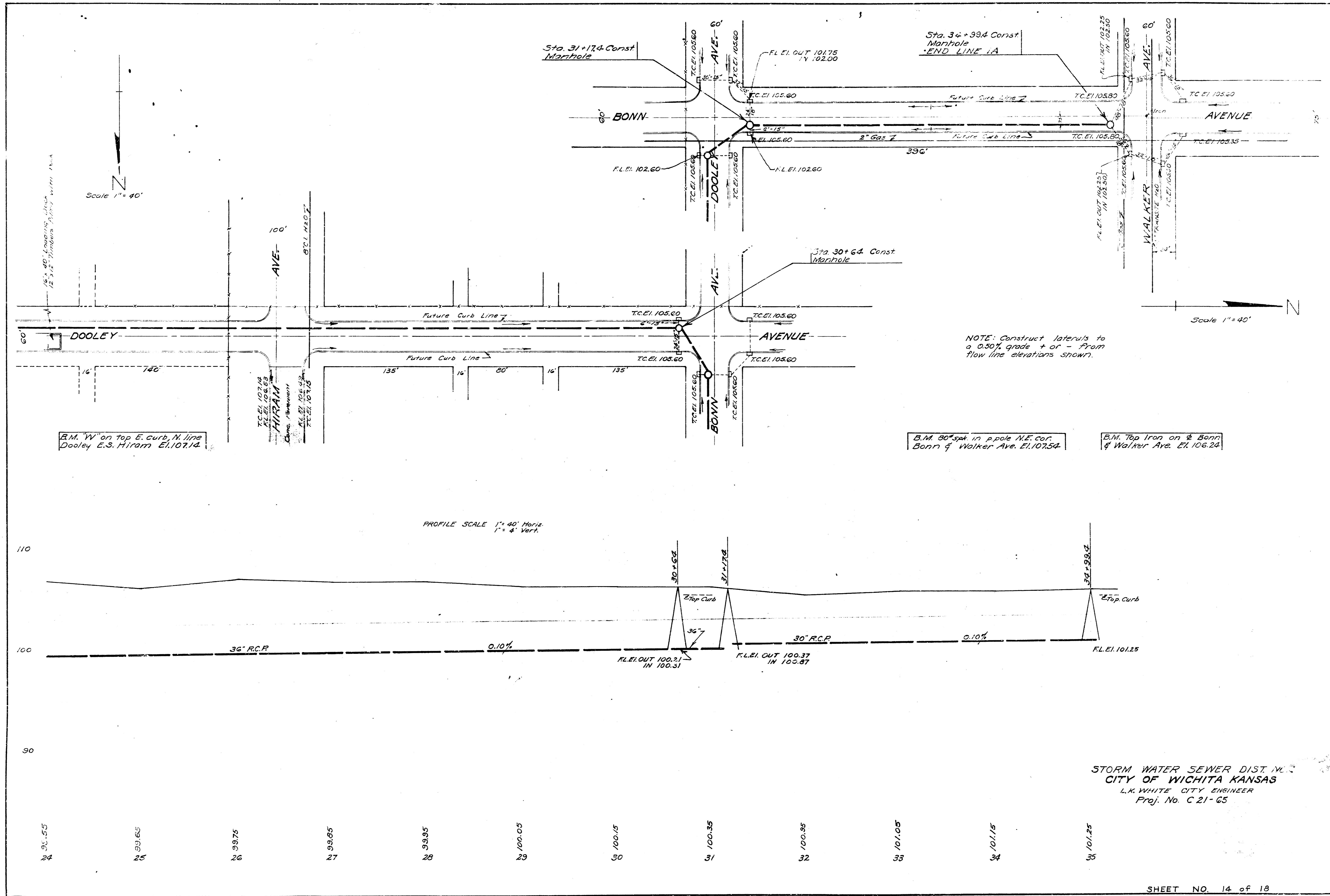
Date 5-15-52
 Drawn by J.L.A.
 Checked by
 Note Book No. 5-11



PLAN NO. CS1-02
FR. WHITE, C.E. ENGINEER
CITY OF MICHIGAN
2108 W. WATER STREET, DETROIT, MICH. 48226



Notes Book No. 2-11
Checked by [Signature]
Drawn by [Signature]
Date 2-12-23



Date 5-15-52
 Drawn by J.L.A.
 Checked by
 Note Book No. S-11

B.M. 'W' on top E. curb, N. line
 Dooley E.S. Hiram El. 107.14

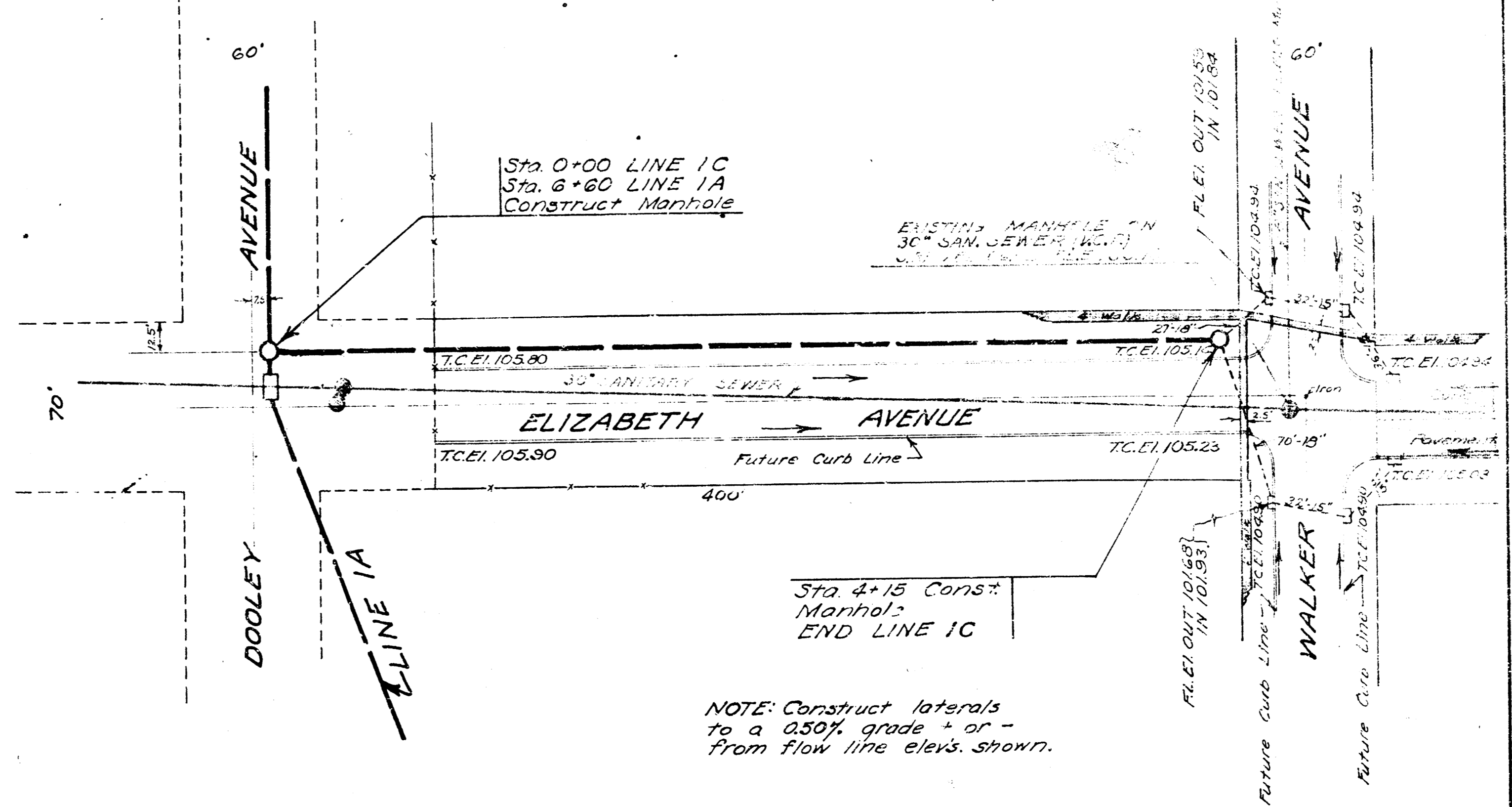
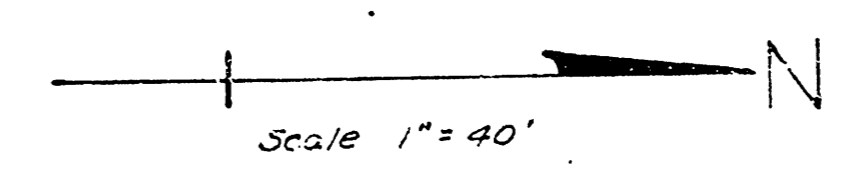
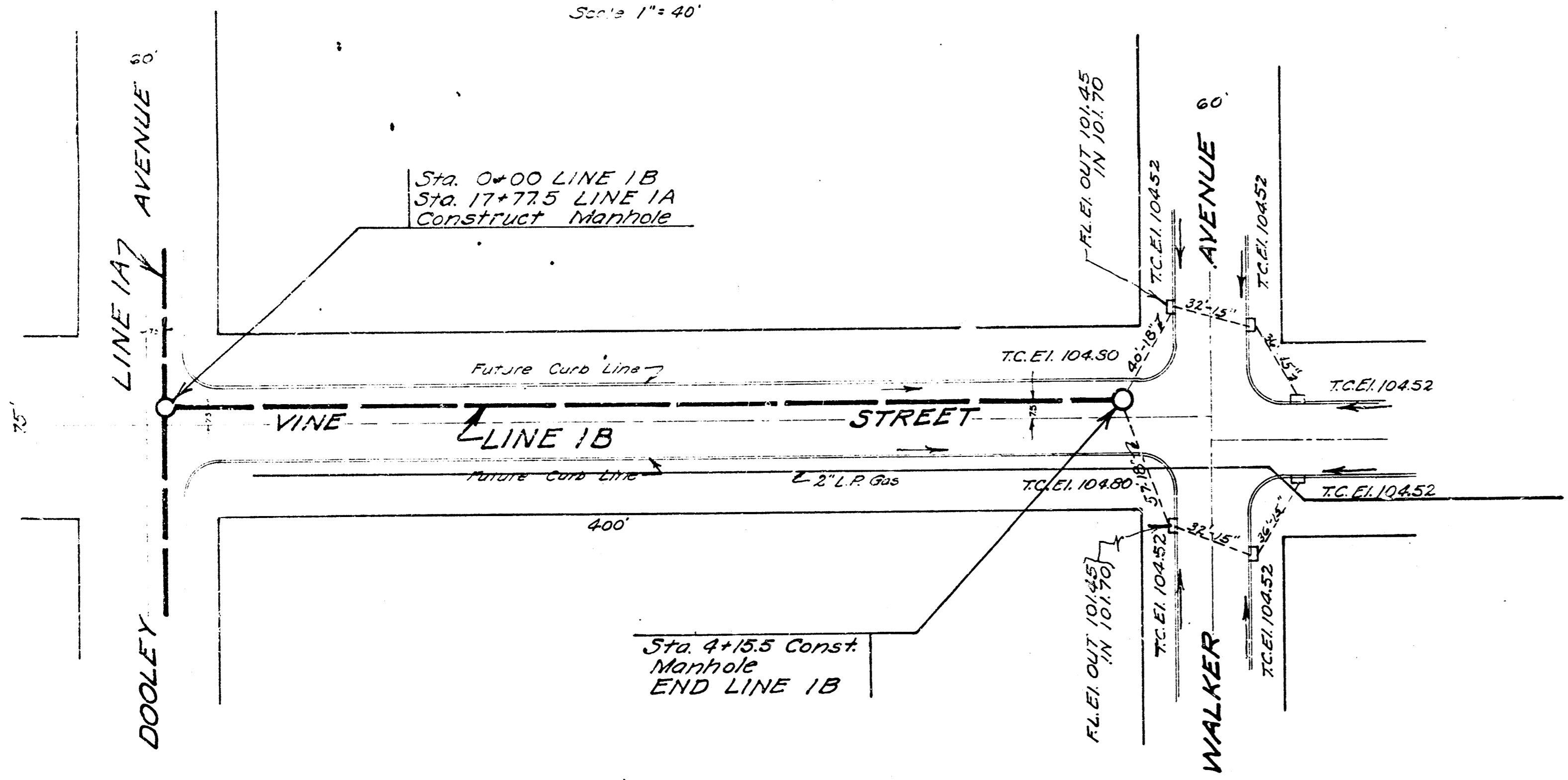
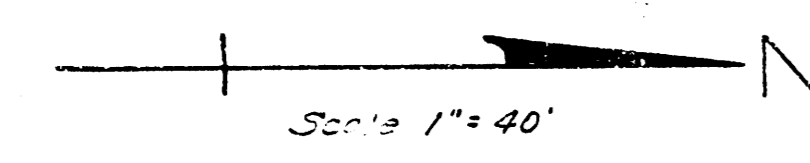
B.M. 30\"/>
 Bonn & Walker Ave. El. 107.54

B.M. Top Iron on E. Bonn
 & Walker Ave. El. 106.24

PROFILE SCALE 1\"/>
 4\"/>
 Horiz.
 1\"/>
 4\"/>
 Vert.

NOTE: Construct laterals to
 a 0.50% grade + or - from
 flow line elevations shown.

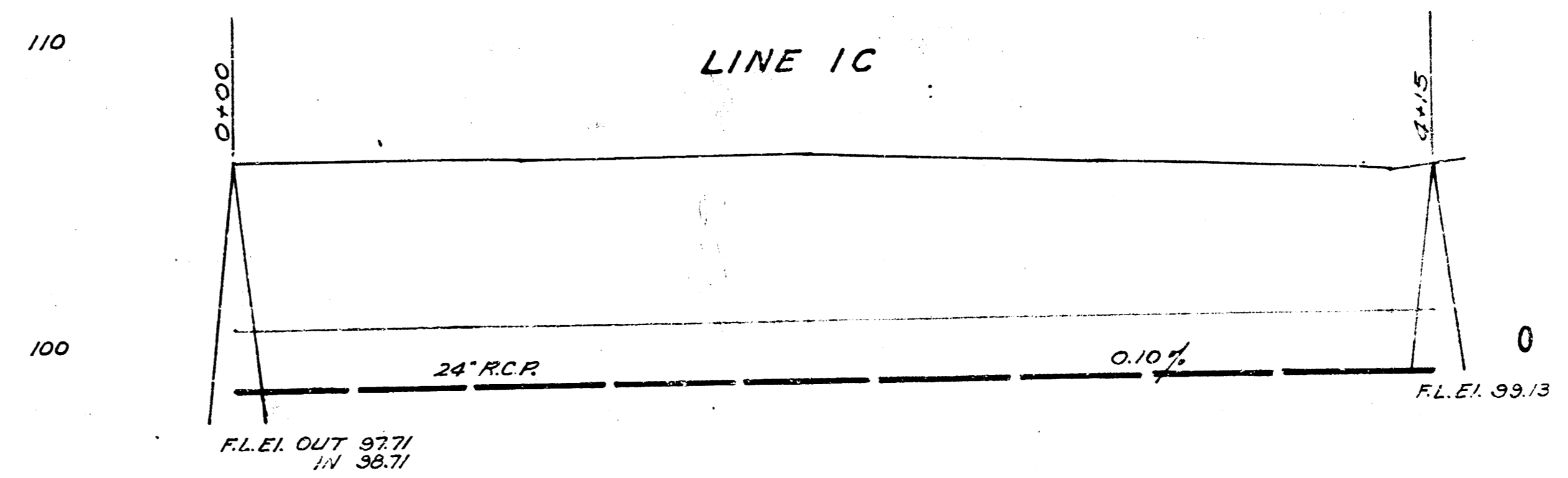
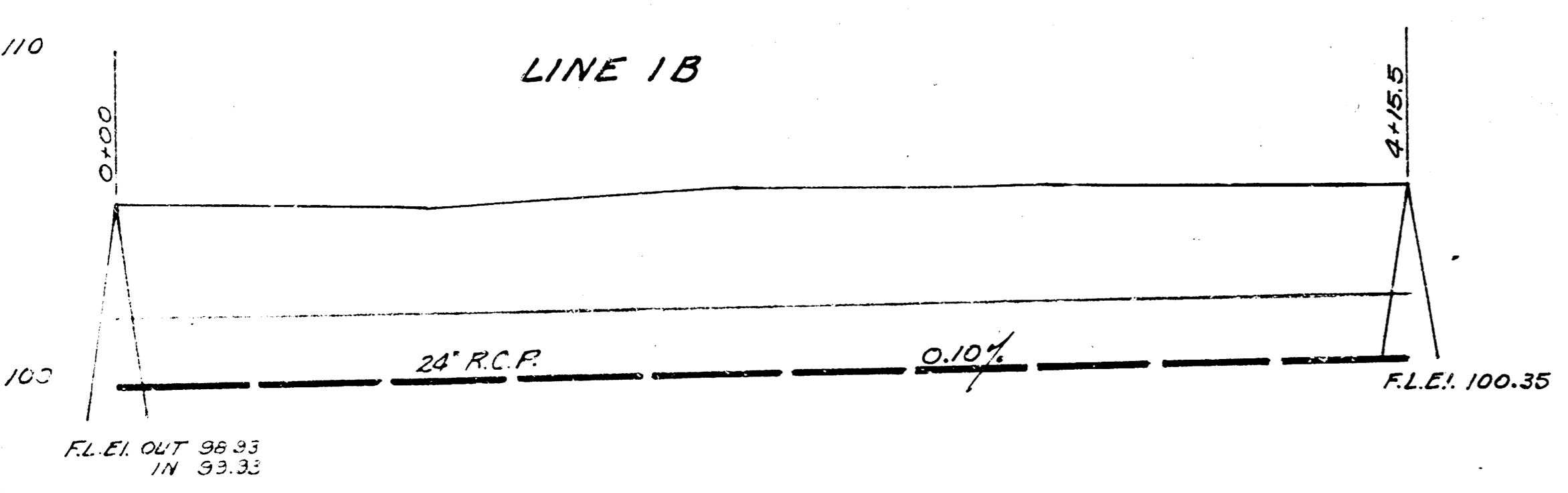
STORM WATER SEWER DIST. NO. 2
 CITY OF WICHITA KANSAS
 L.K. WHITE, CITY ENGINEER
 Proj. No. C 21-65



NOTE: Construct laterals to a 0.50% grade "or" from flow line elevs. shown.

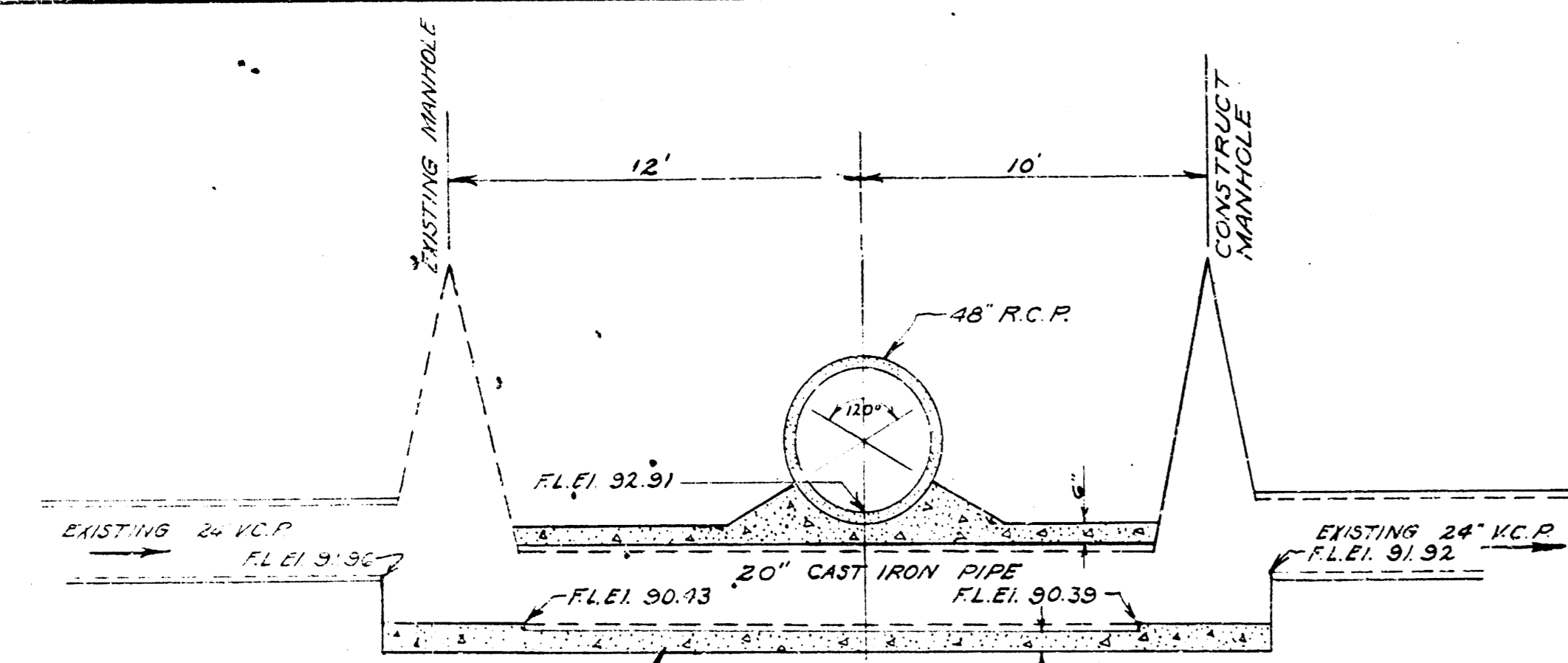
B.M. "M" in Mueller Top Fire Hydrant N.E. corner Walker & Elizabeth El. 107.18

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

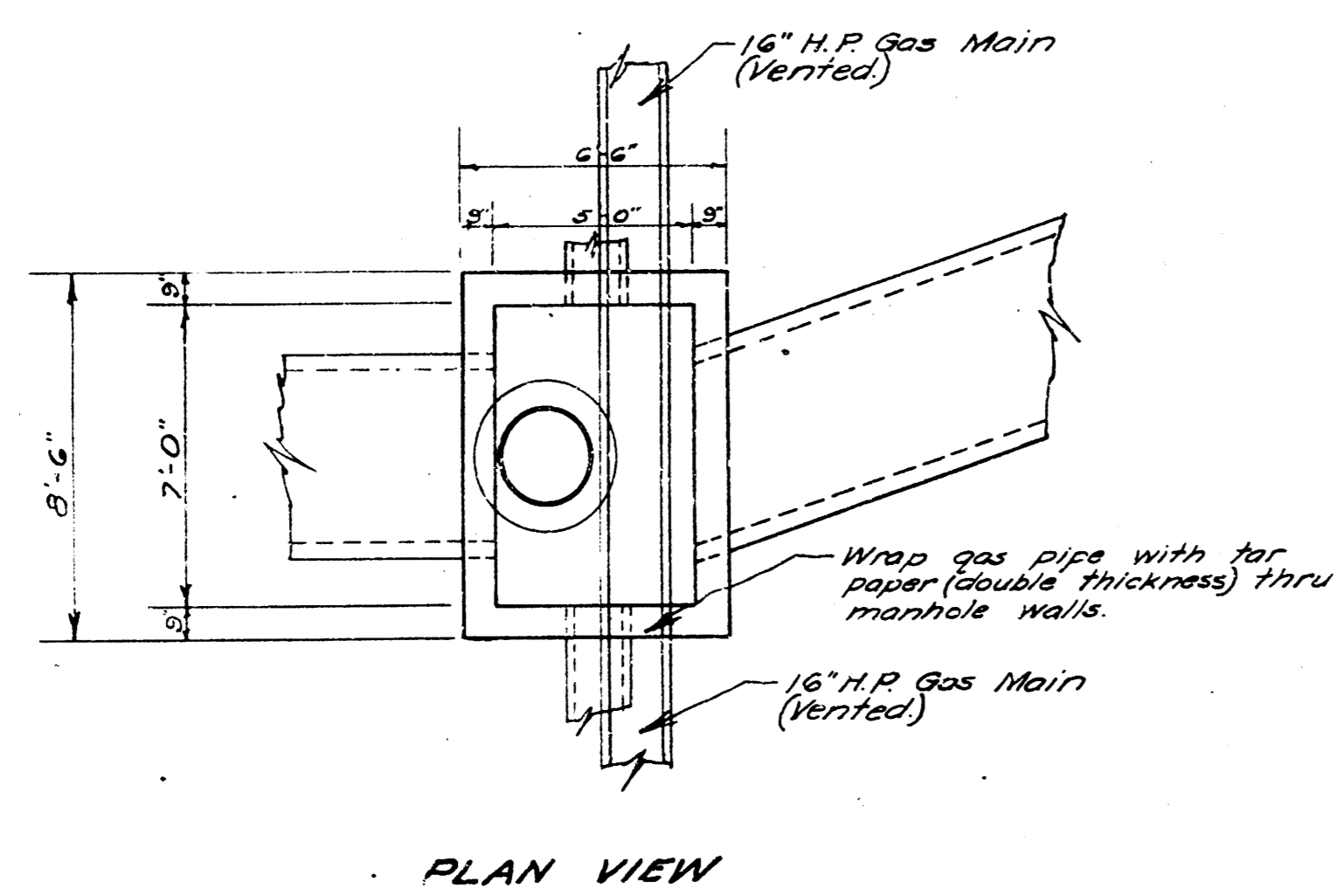


5-15-52
 Drawn by J.L.A.
 Checked by No. 5-11

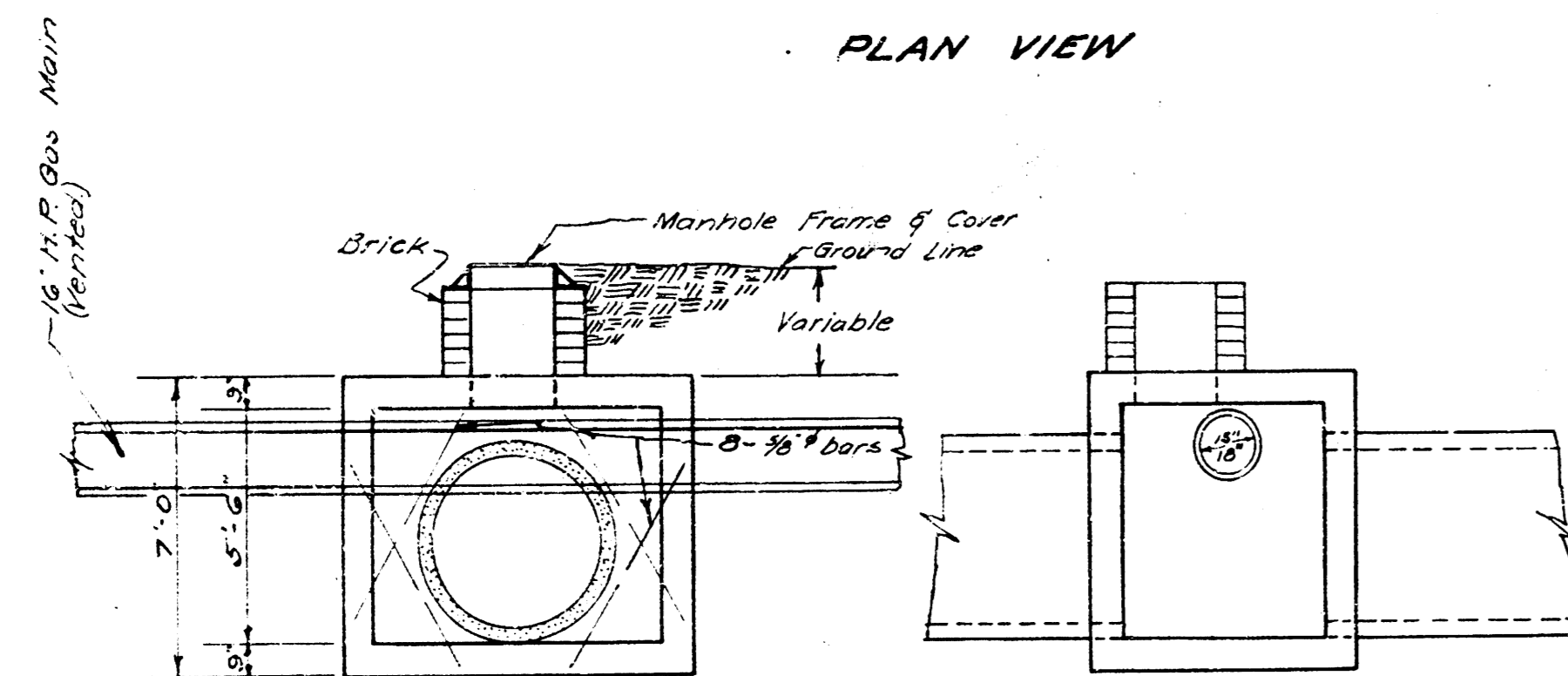
STORM WATER SEWER DIST. NO. 43
 CITY OF WICHITA KANSAS
 L.A. WHITE CITY ENGINEER
 Proj. No. C-21-65



ELEVATION
SIPHON DETAIL
SCALE 1/2" = 1'-0"
Sta. 6+61 Line 1



PLAN VIEW

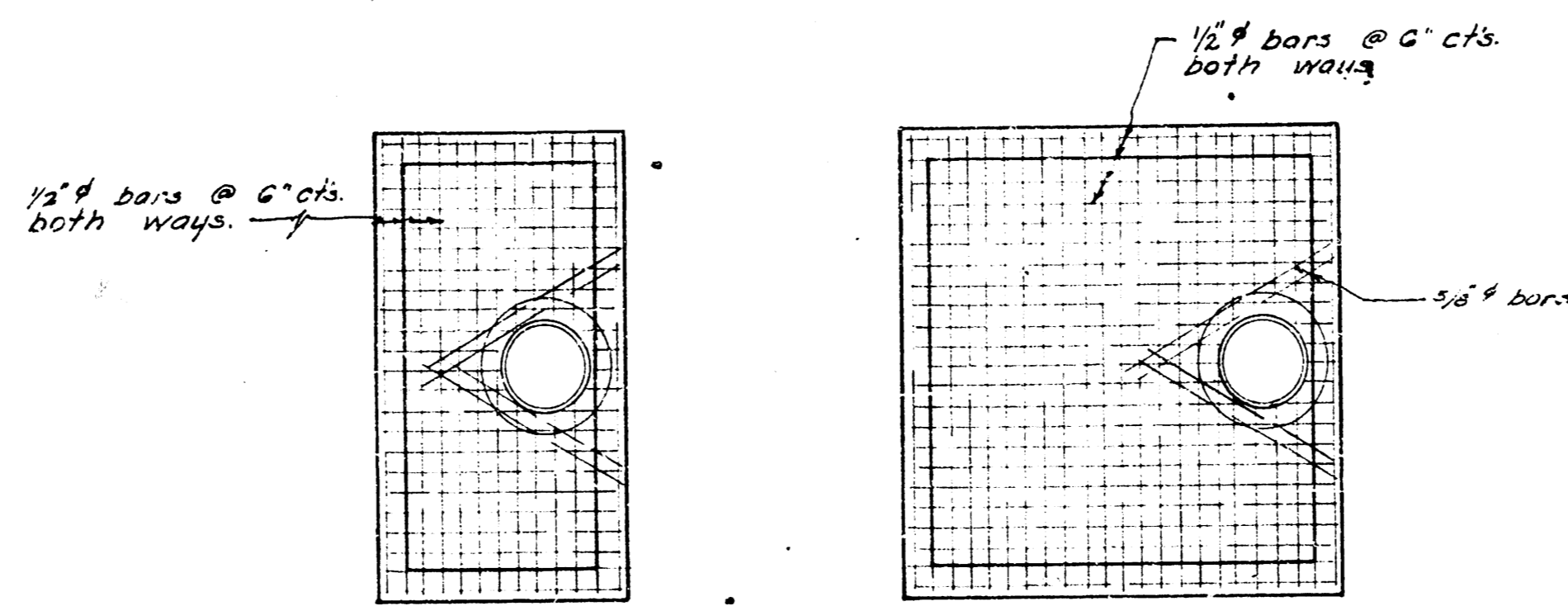


SIDE ELEVATION

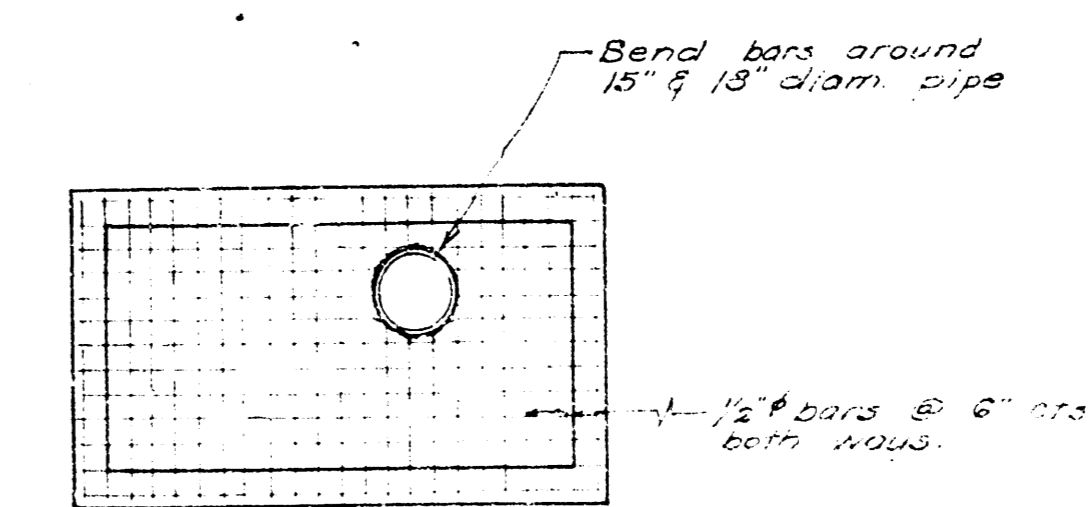
END ELEVATION

REINF. CONC. MANHOLE
SCALE 1/2" = 1'-0"

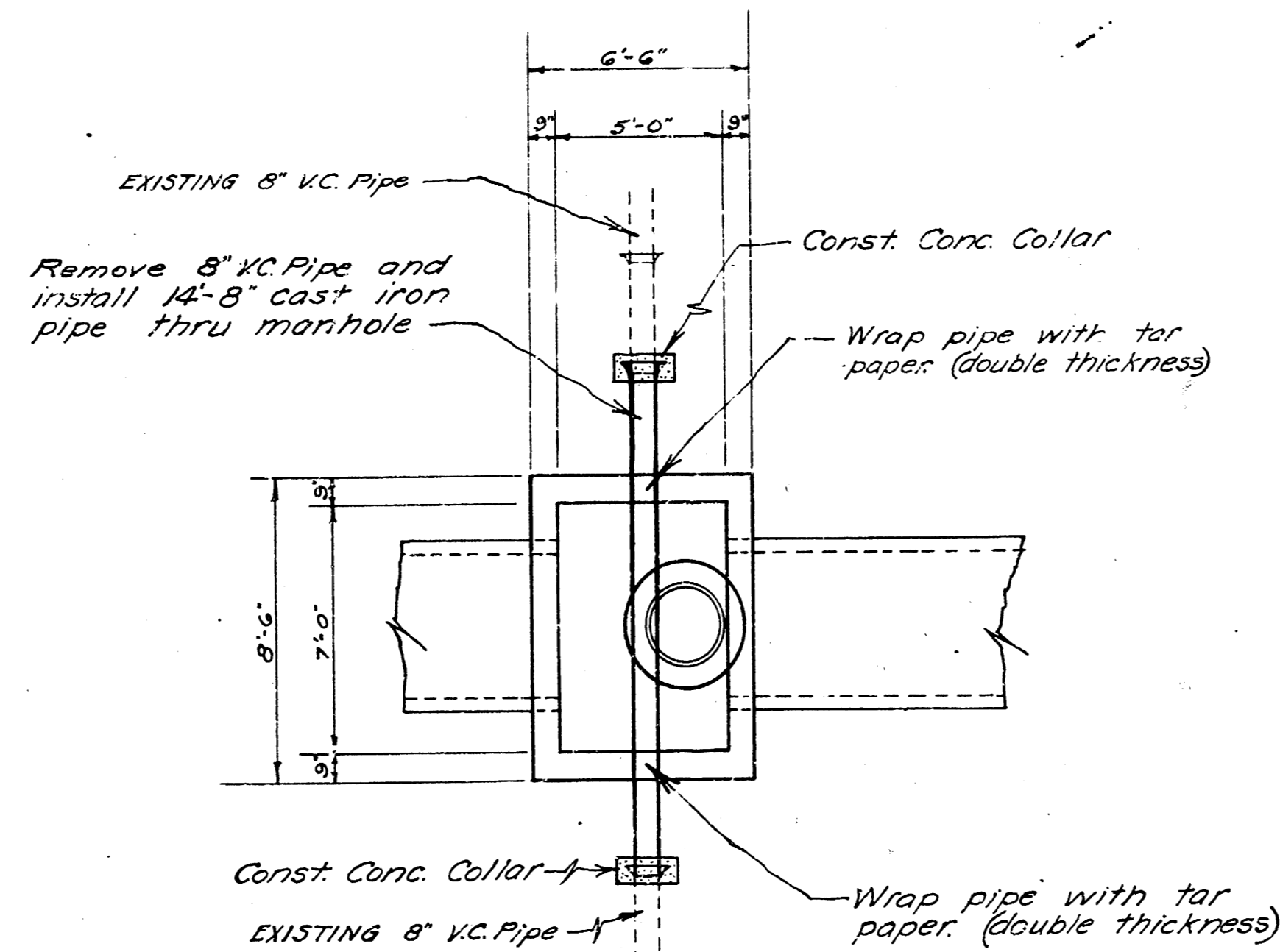
- Sta. 9+42.8 Line 1
- Sta. 16+54 " 1
- Sta. 17+24.4 " 1
- Sta. 29+57.7 " 1
- Sta. 33+60.2 " 1
- Sta. 38+20.2 " 1



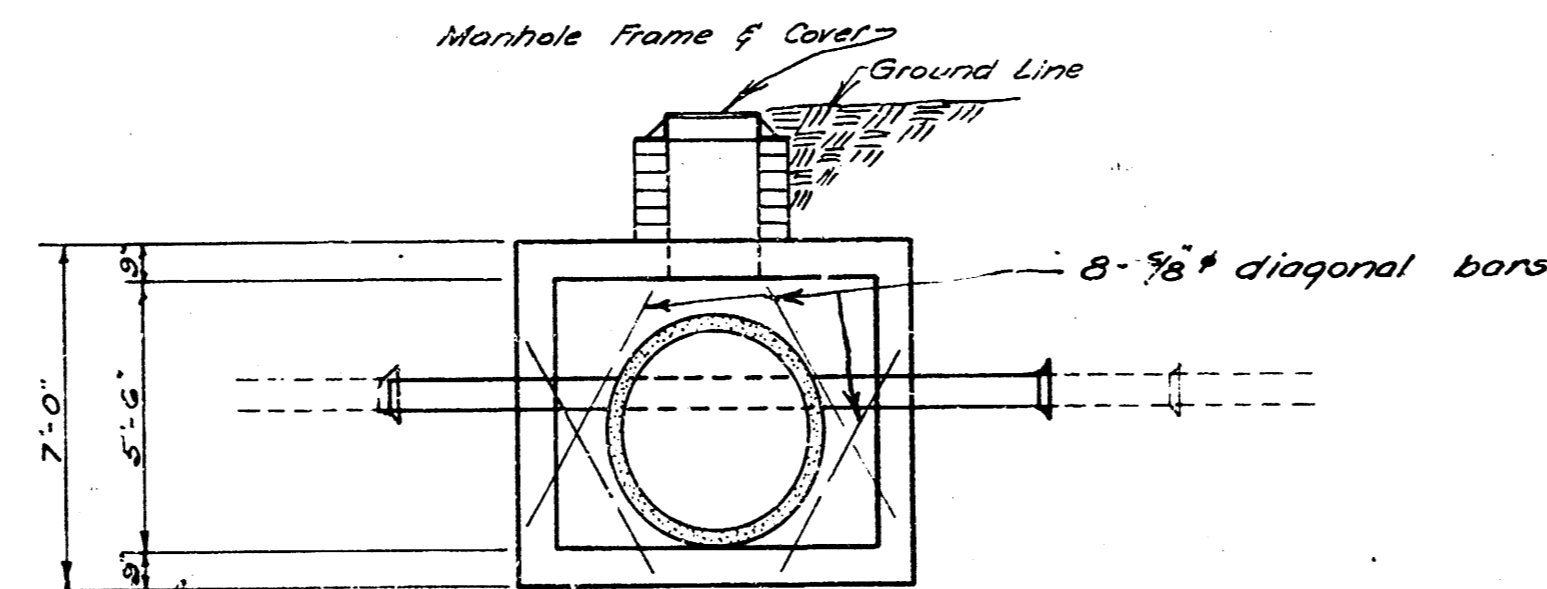
TYPICAL SECTIONS TOP & BOTTOM
STEEL PATTERN



TYPICAL WALL SECTION
STEEL PATTERN



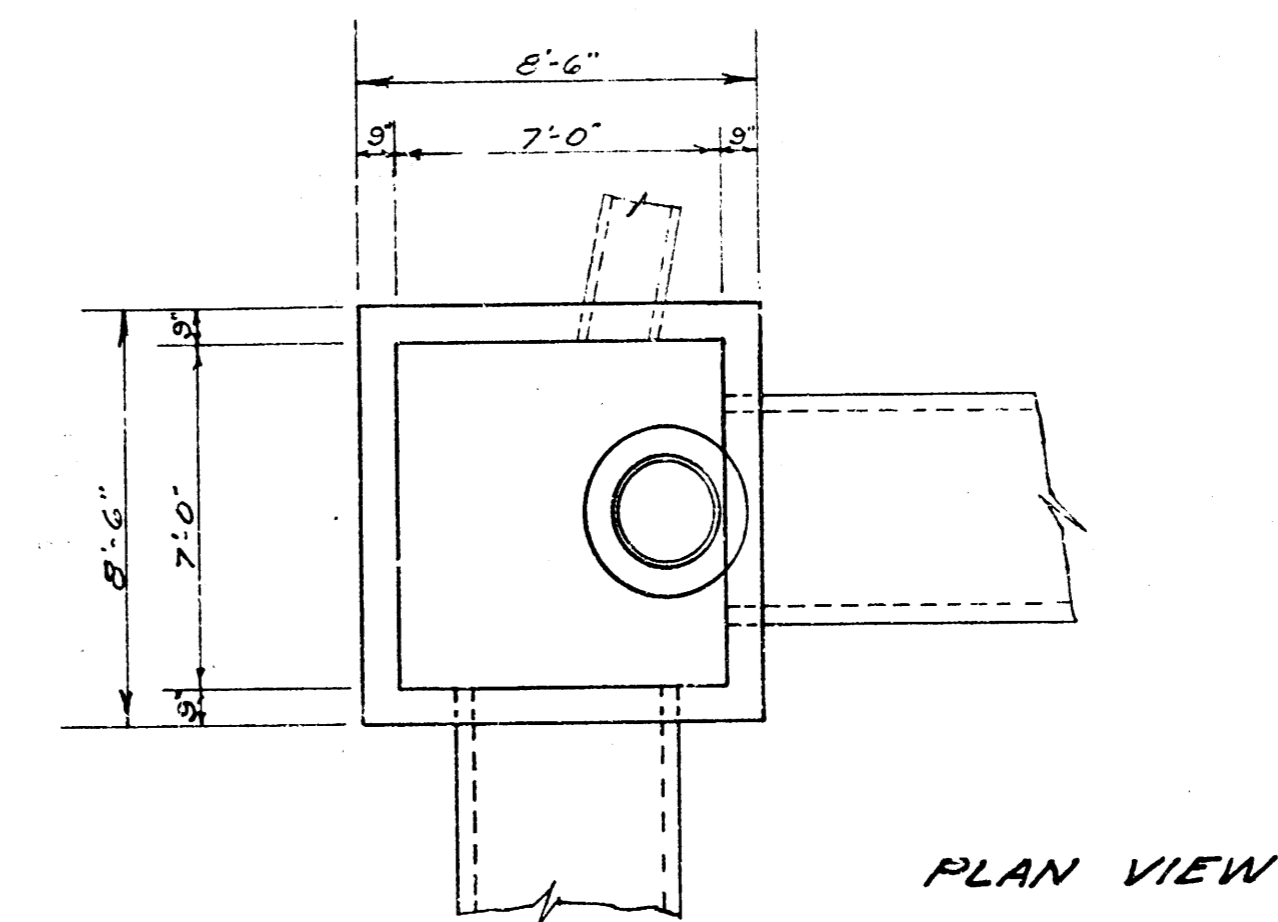
PLAN VIEW



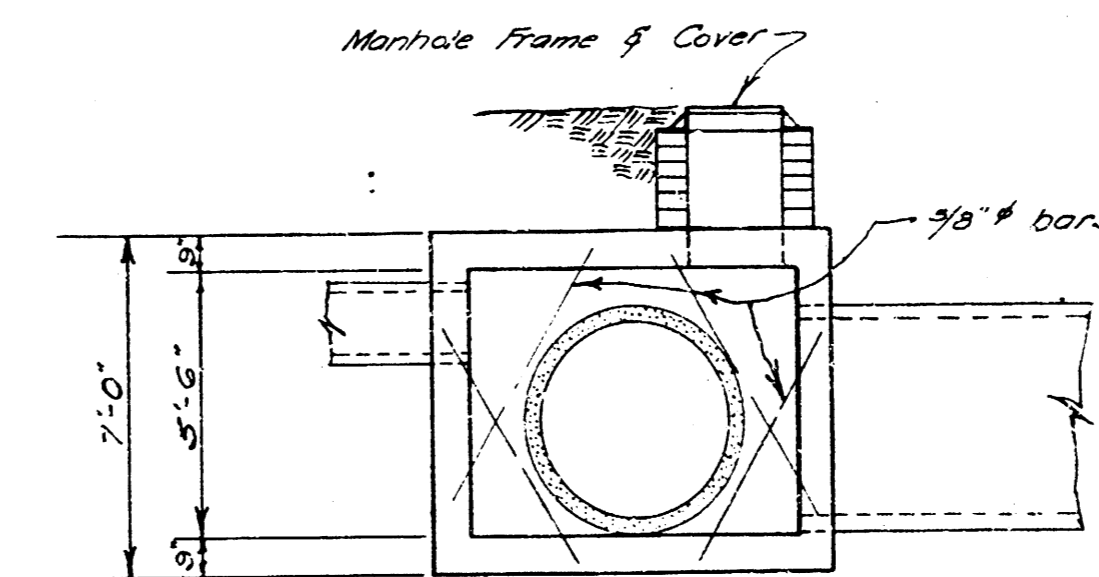
SIDE ELEVATION

REINF. CONC. MANHOLE
SCALE 1/2" = 1'-0"

- Sta. 18+64.3 Line 1
- Sta. 20+81.3 " 1



PLAN VIEW

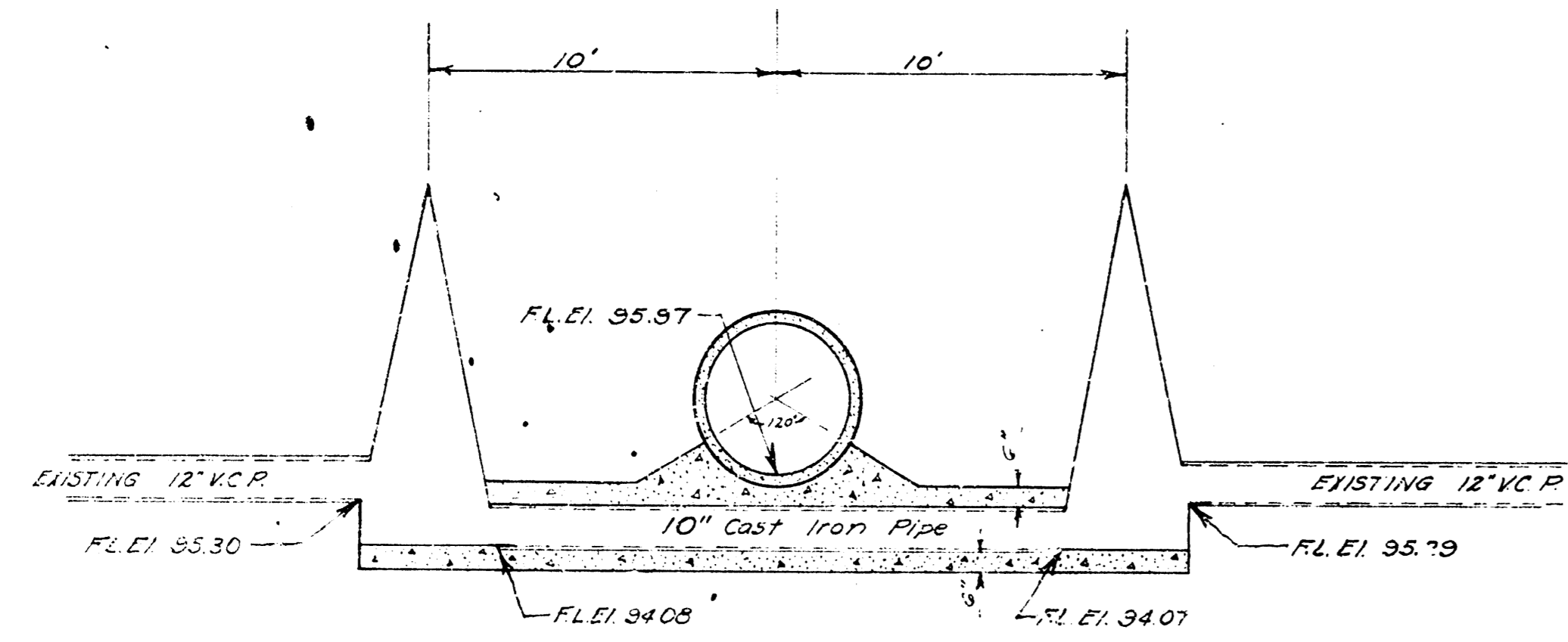


ELEVATION

REINF. CONC. MANHOLE
SCALE 1/2" = 1'-0"

- Sta. 22+68.2 Line 1

STORM WATER SEWER DIST NO. 43
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C21-65
5-15-52



Encase 10" Cast Iron Pipe in Concrete (min. thickness 6")

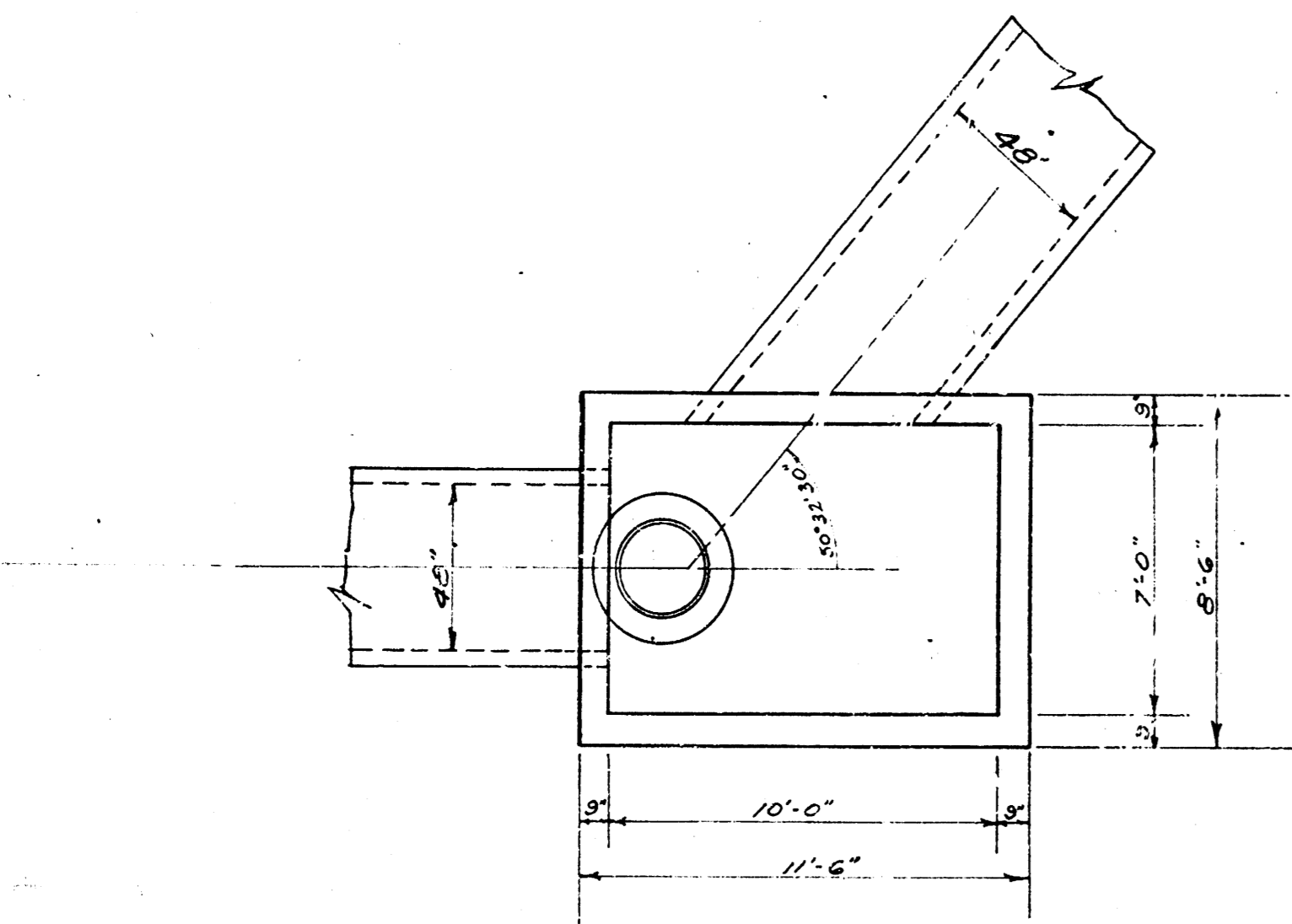
ELEVATION
SIPHON DETAIL
 SCALE 1/4" = 1'-0"
 Sta. 33+13 Line 1

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 coarse aggregate shall be such as will produce a maximum density of a most workable mixture.

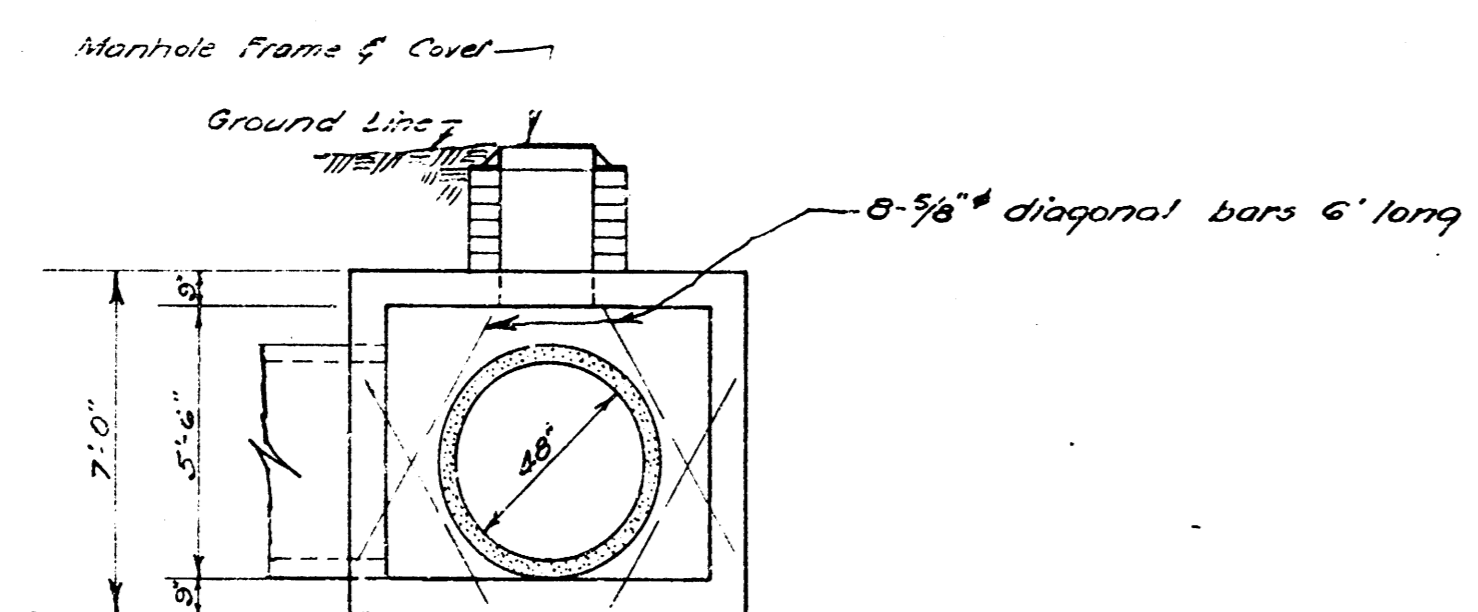
IN GENERAL - Pipes will enter and leave the manholes at various angles and elevations. Where possible bend reinf. bars around pipes (8" diam. or less) where pipes are large use 3/8" diagonal bars as shown.

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.

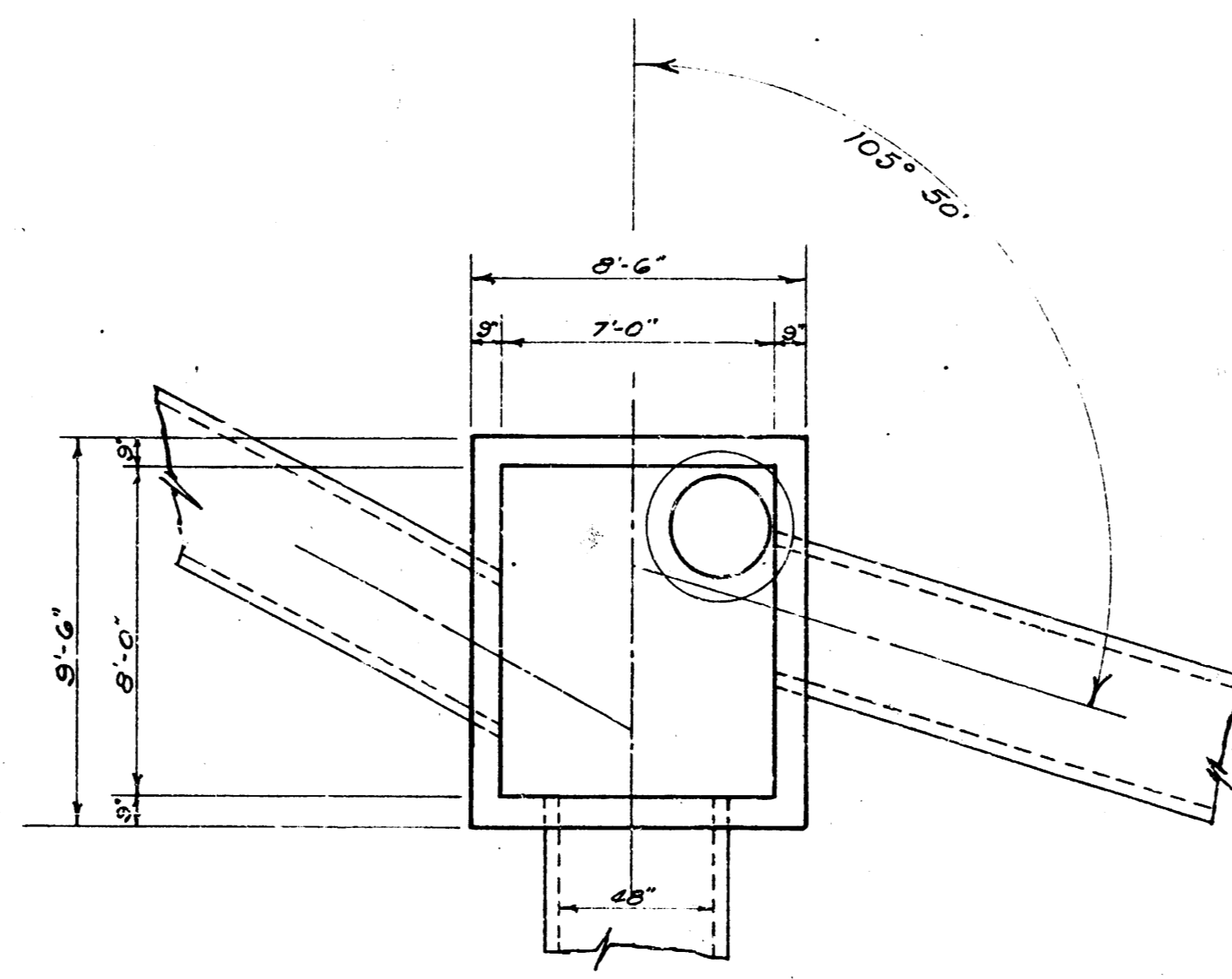
An internal vibrator shall be used for placing concrete.



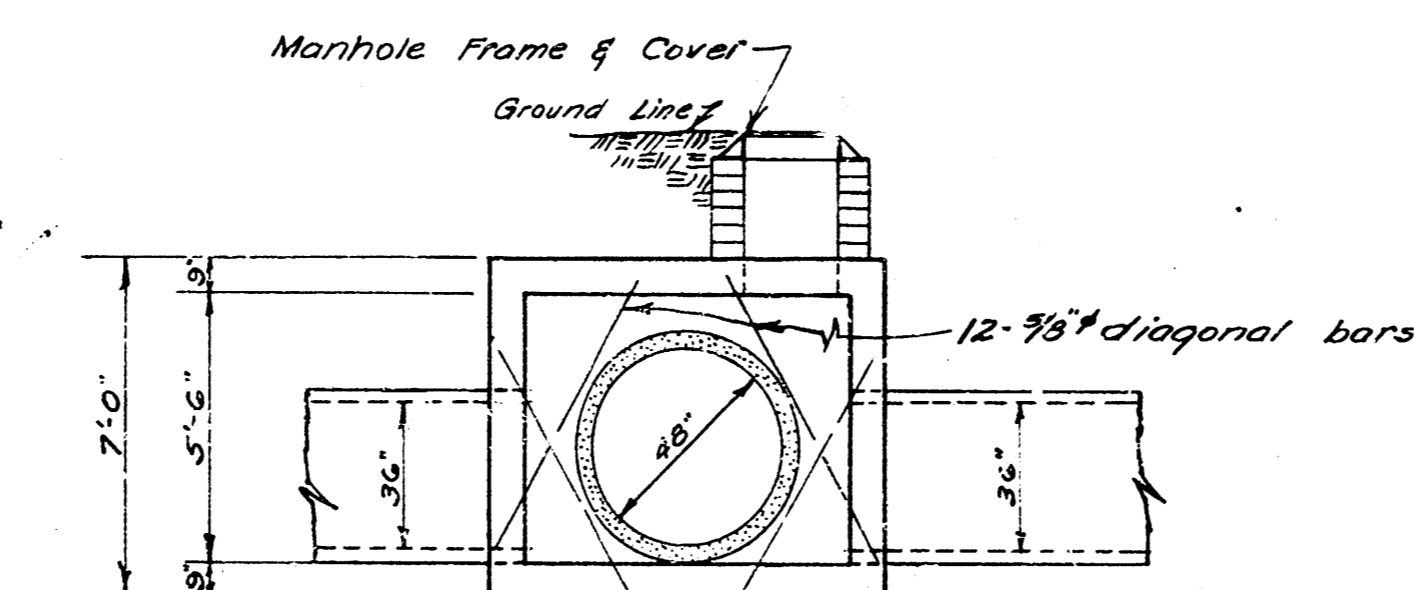
PLAN VIEW



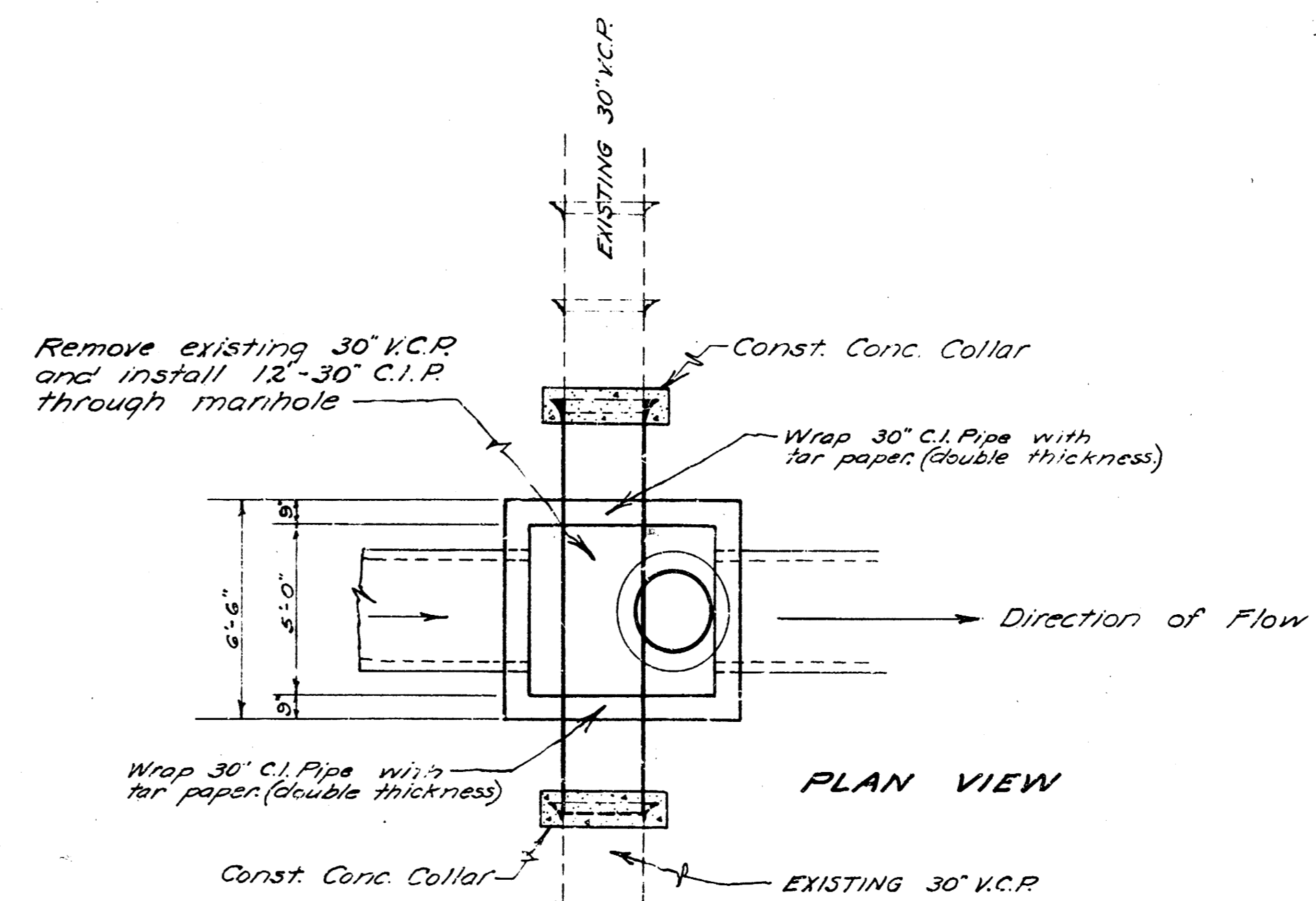
END ELEVATION
REINF. CONC. MANHOLE
 SCALE 1/4" = 1'-0"
 Sta. 39+12.9 Line 1



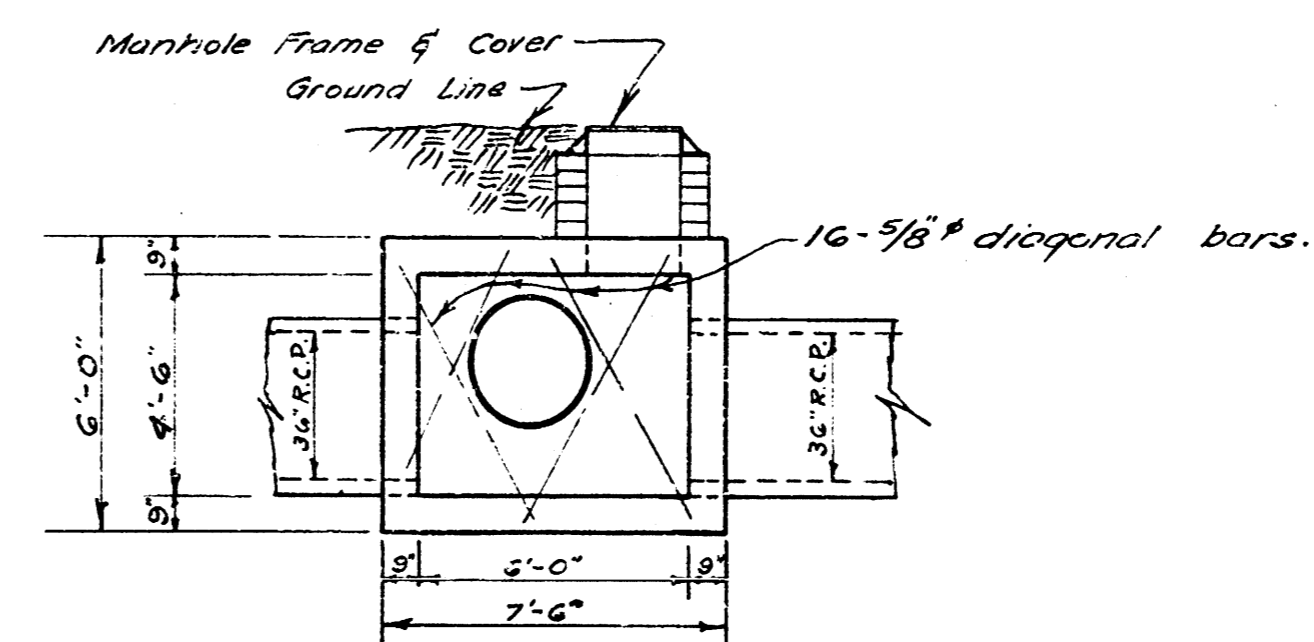
PLAN VIEW



ELEVATION
REINF. CONC. MANHOLE
 SCALE 1/4" = 1'-0"
 Sta. 41+26.4 Line 1
 Sta. 0+00 " 1A

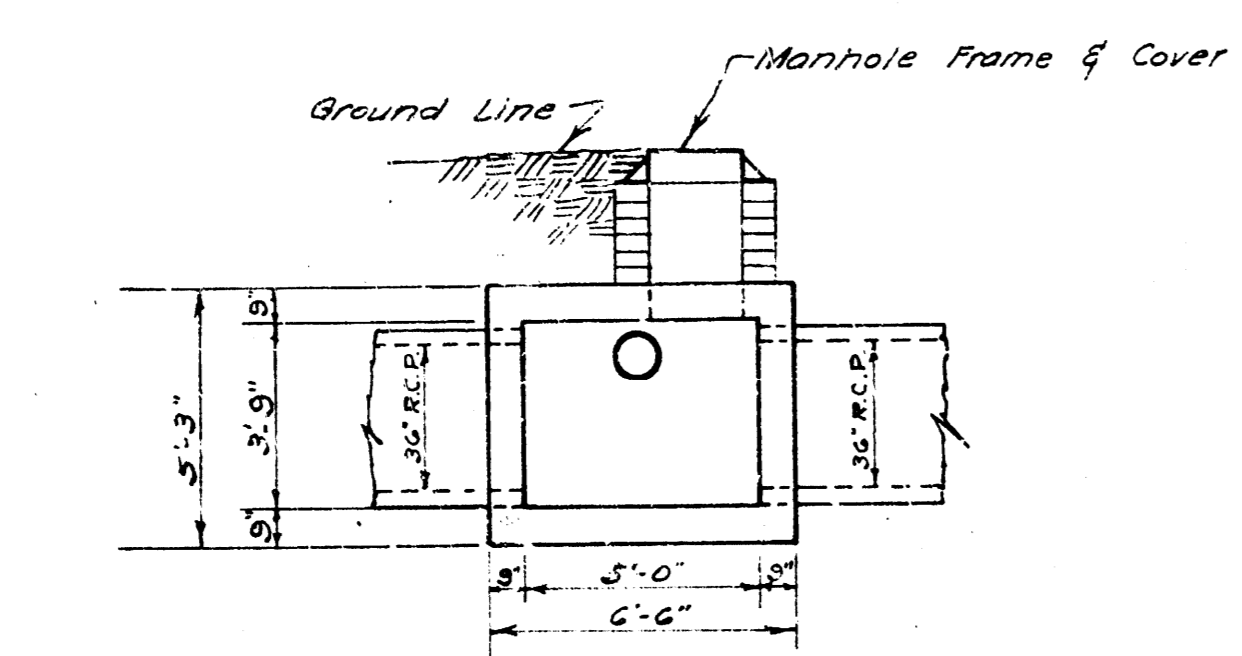
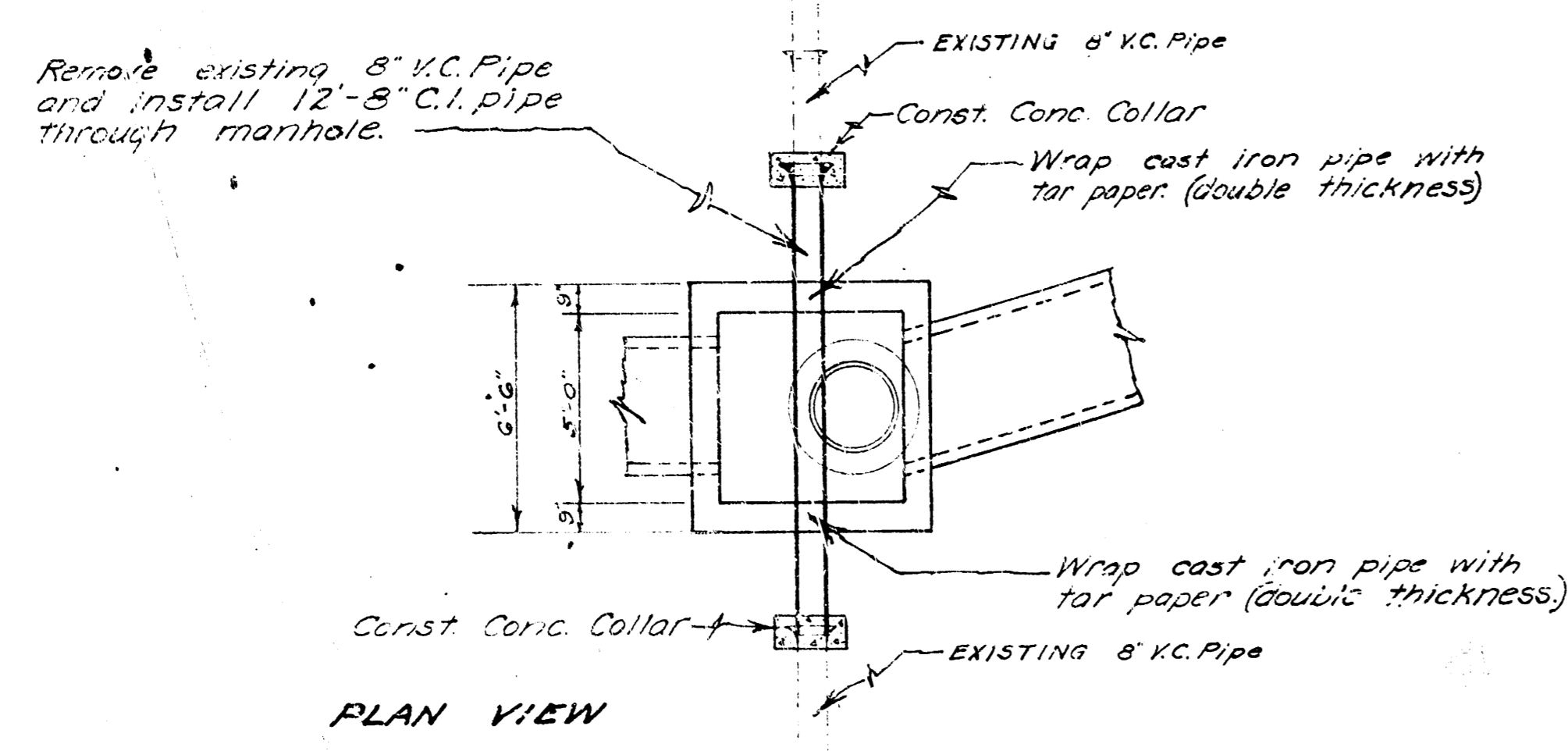


PLAN VIEW

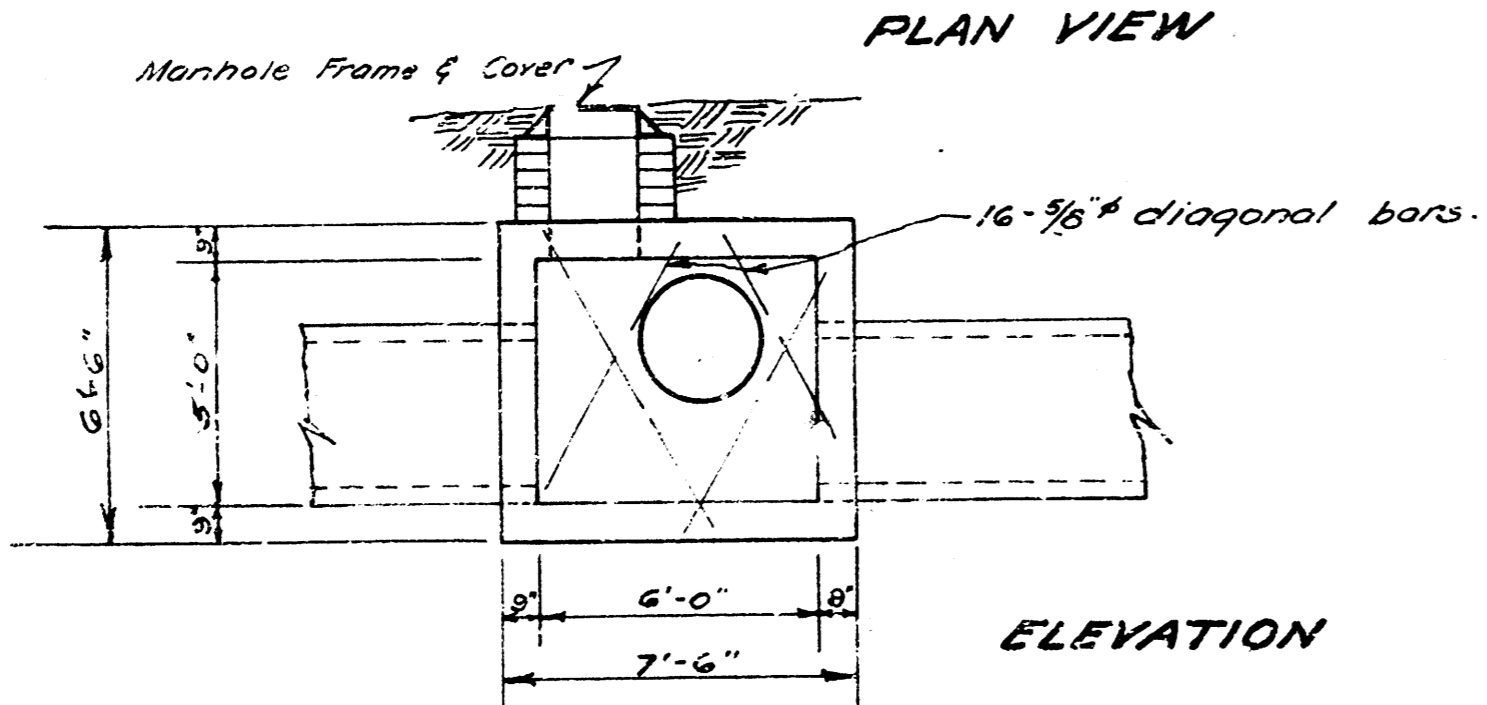
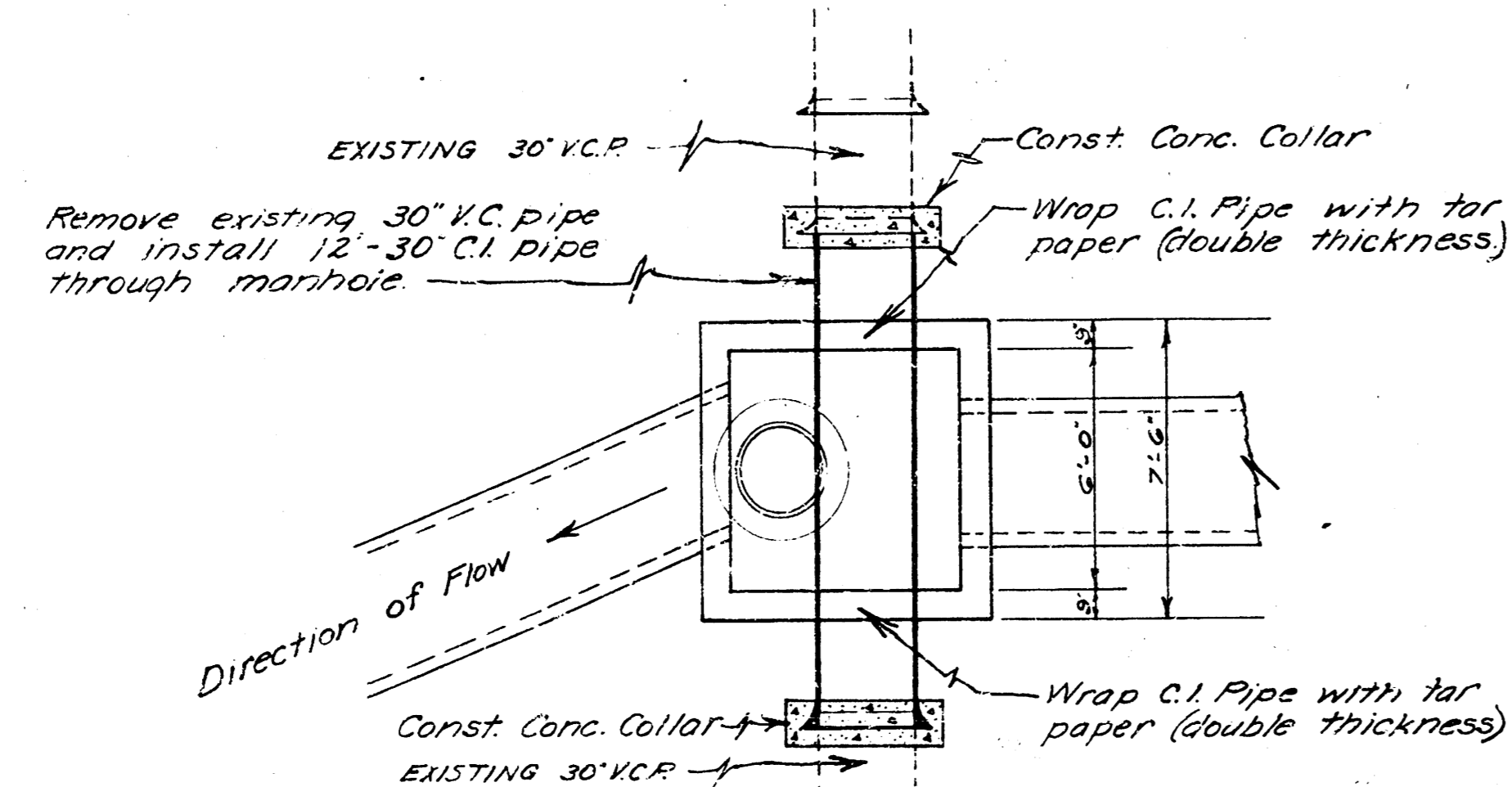


ELEVATION
REINF. CONC. MANHOLE
 SCALE 1/4" = 1'-0"
 Sta. 58+87.7 LINE 1

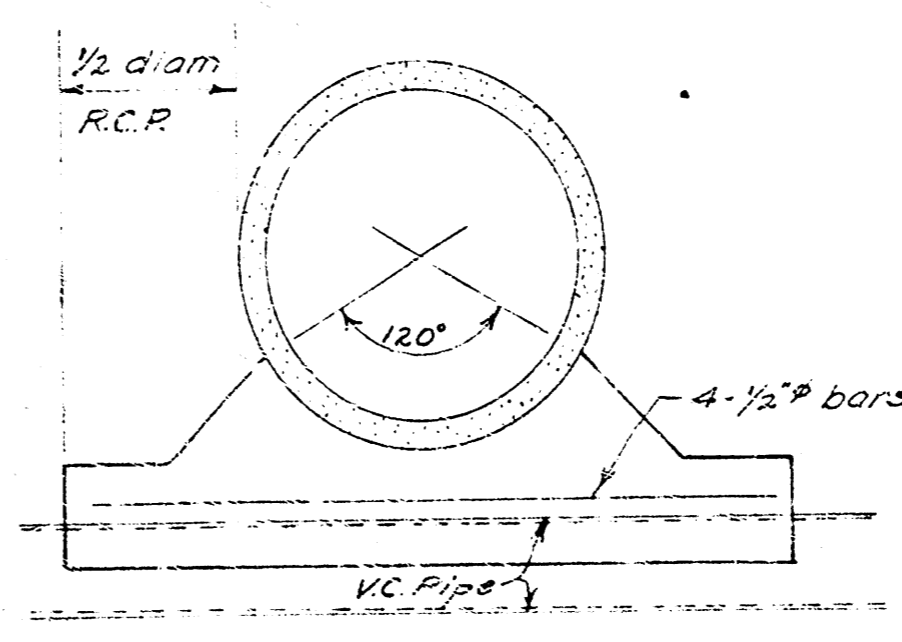
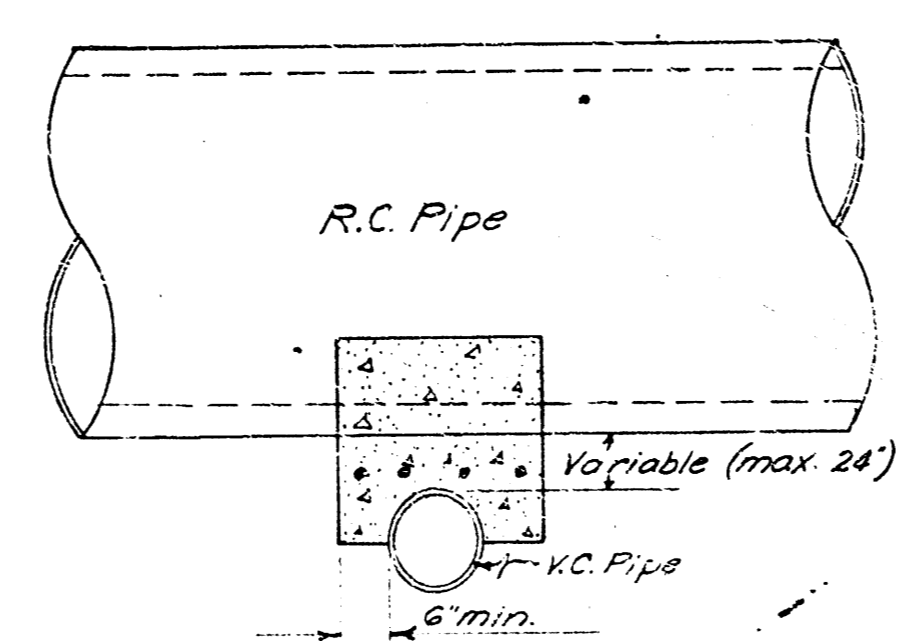
STORM WATER SEWER DIST. NO. 43
 CITY OF WICHITA KANSAS
 L.K. WHITE CITY ENGINEER
 Proj. No. C21-65
 5-15-52



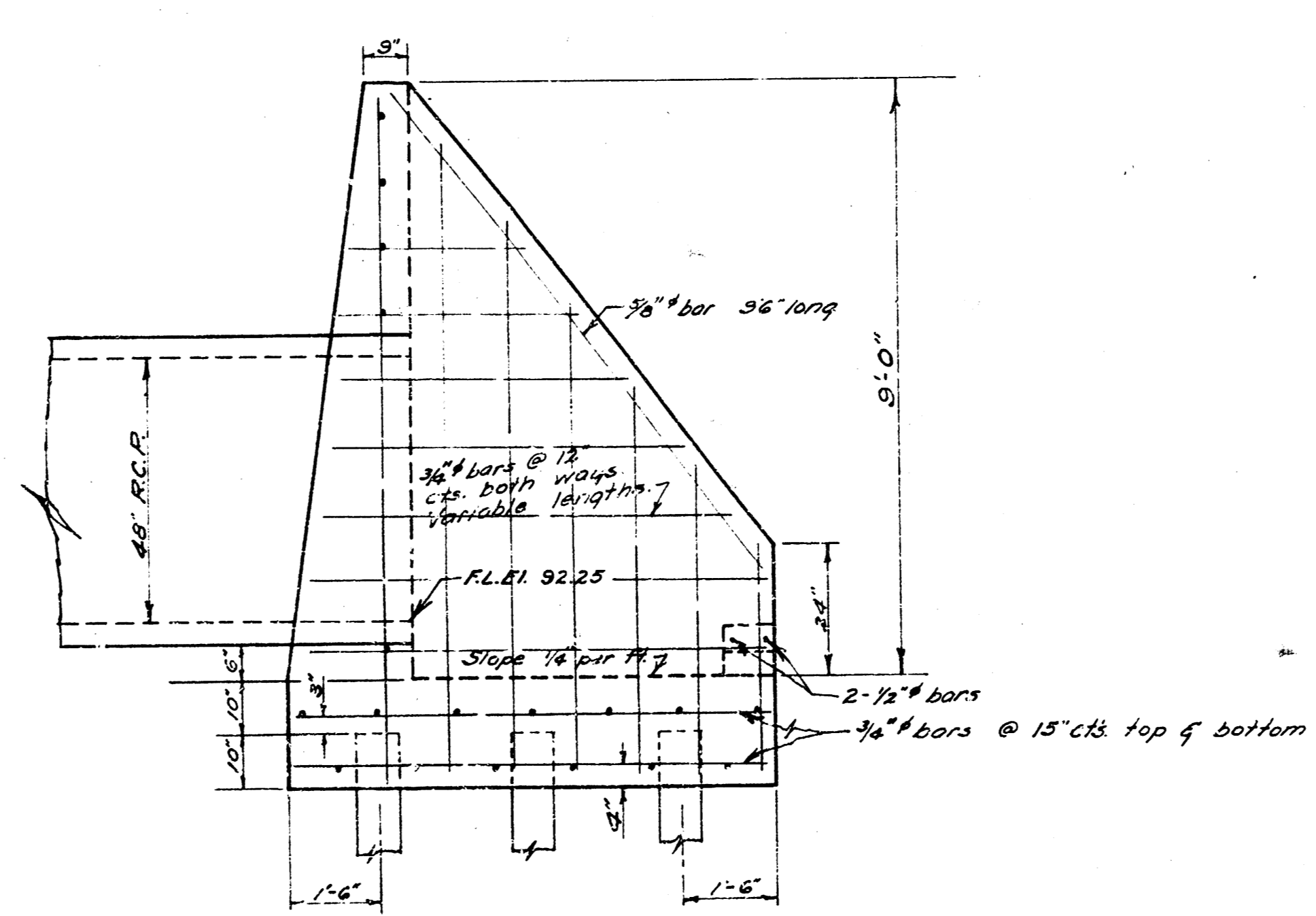
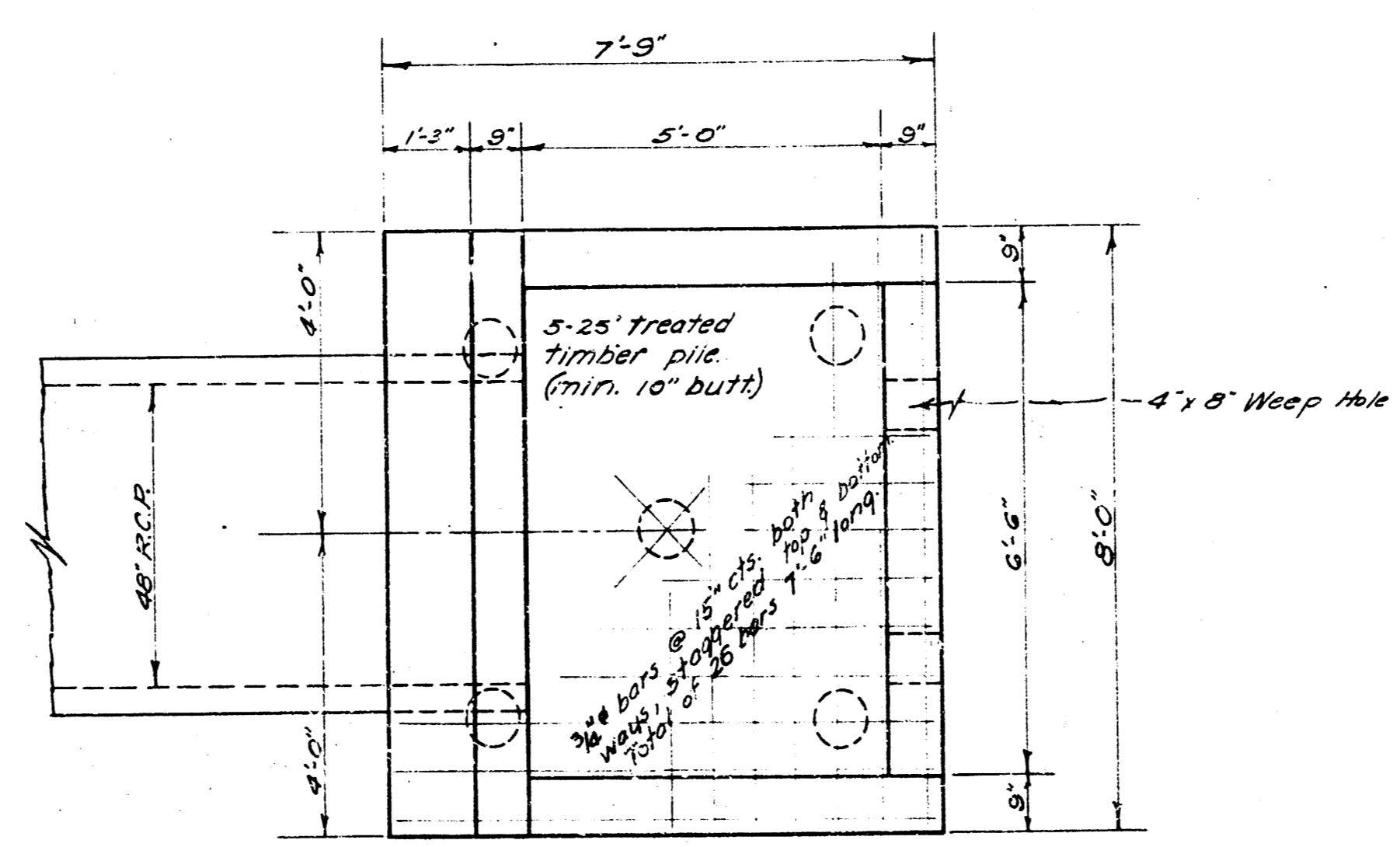
REINF. CONC. MANHOLE
SCALE 1/8" = 1'-0"
Sta. 69+57.9 Line 1



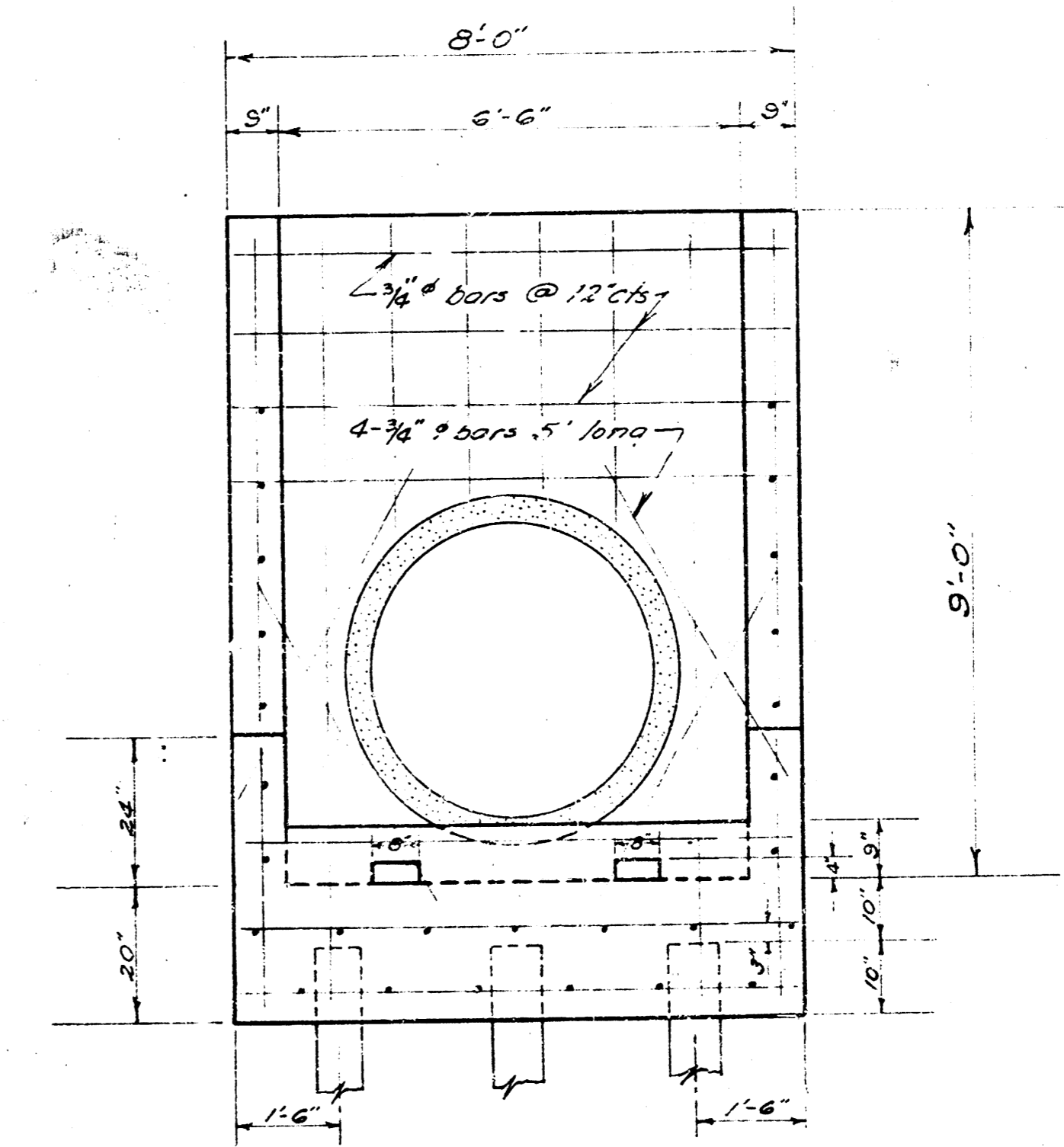
REINF. CONC. MANHOLE
SCALE 1/8" = 1'-0"
Sta. 6+45.1 Line 1A



CONCRETE CRADLE DETAIL
No Scale



OUTFALL STRUCTURE
Scale 1/8" = 1'-0"



OUTFALL STRUCTURE
Scale 1/8" = 1'-0"

STORM WATER SEWER DIST. NO. 43
CITY OF WICHITA KANSAS
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