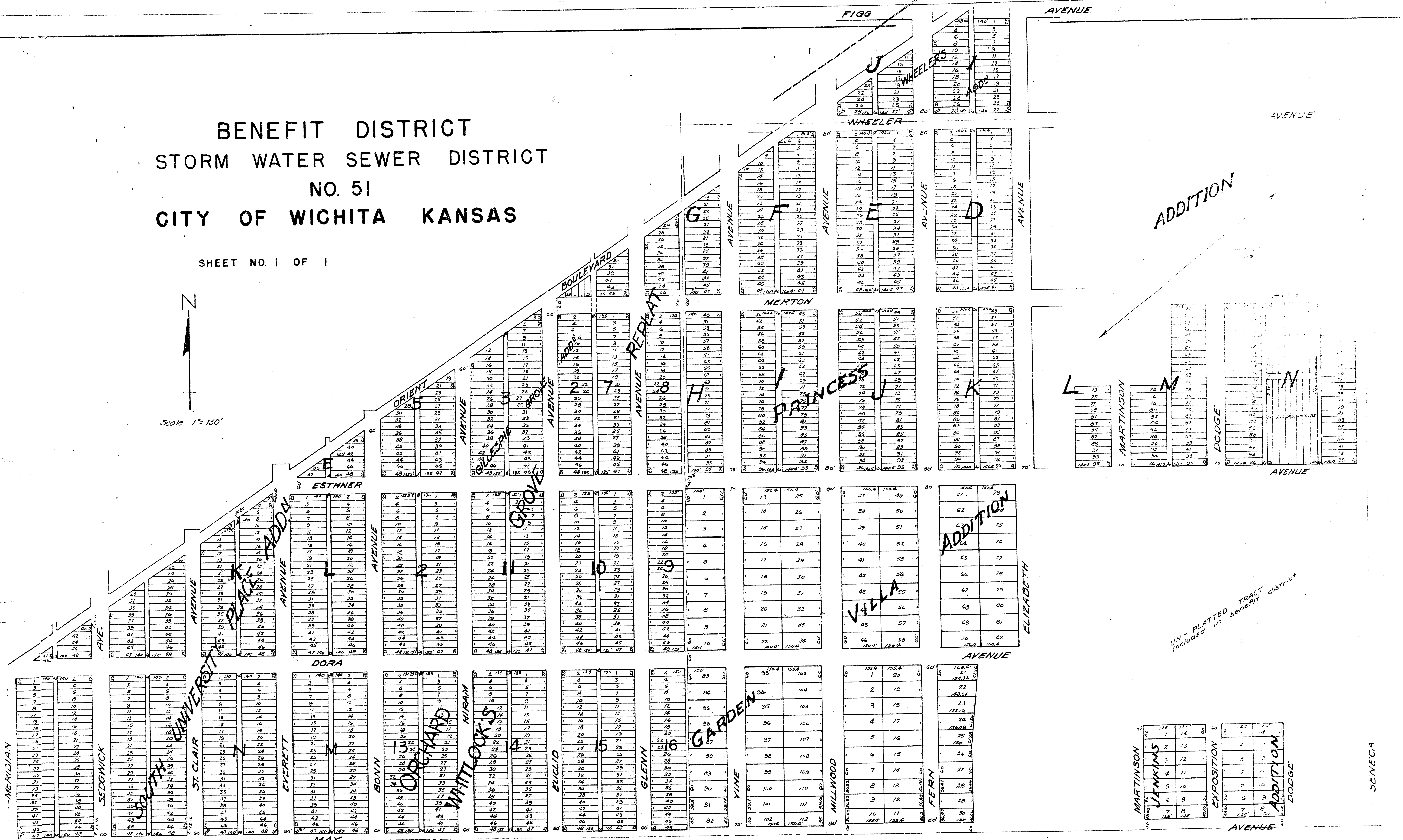
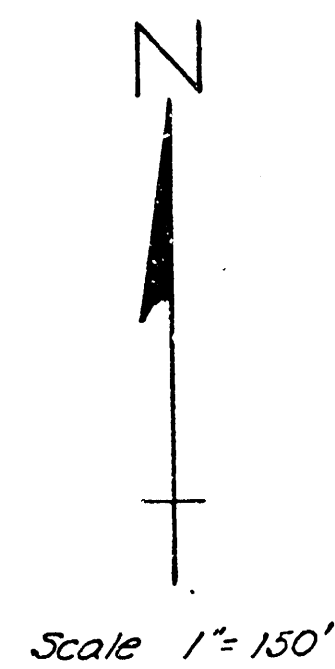


BENEFIT DISTRICT
STORM WATER SEWER DISTRICT
NO. 51
CITY OF WICHITA KANSAS

SHEET NO. 1 OF 1



LOCATION MAP OF STORM WATER SEWER
DISTRICT NO. 51
CITY OF WICHITA KANSAS

L.K. WHITE CITY ENGINEER

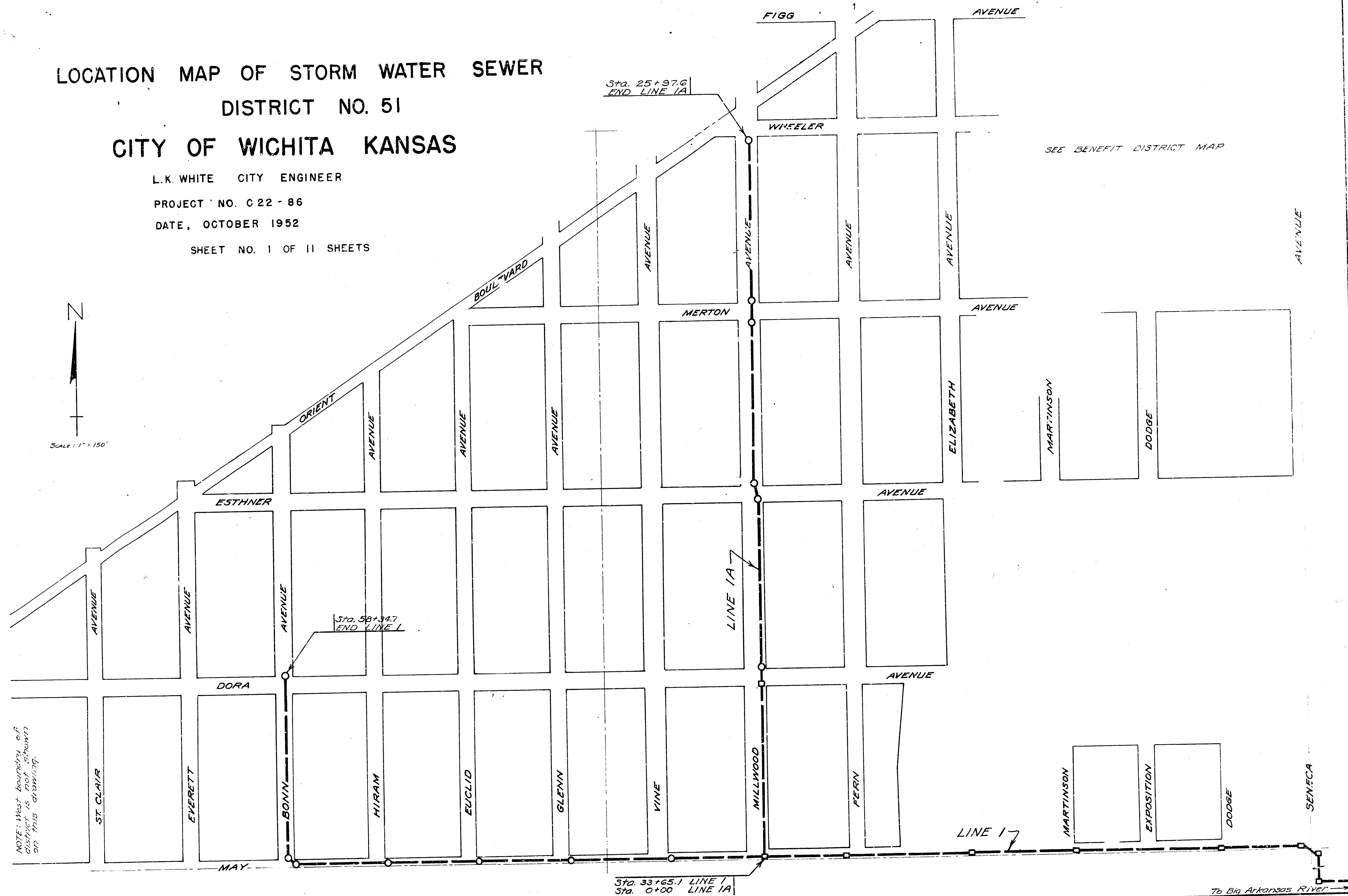
PROJECT NO. C 22 - 86

DATE, OCTOBER 1952

SHEET NO. 1 OF 11 SHEETS



NOTE: West boundary of
district is not shown
on this drawing.



NOTE:
WHERE SAND FILL IS USED, BID PRICE INCLUDES COST OF FLUSHING. WHERE EXCAVATED MATERIAL IS SUITABLE FOR FILL, FLUSHING WILL BE PAID AS LIN. FT. OF FLUSHING. BID PRICE OF FLUSHING SHALL INCLUDE LABOR, WATER, & EQUIPMENT.

Sta. 10+48 Construct Reinf. Conc. Manhole See Sh. #10 for details

Scale 1" = 40'

Sta. 4+76 Cross 30" VC Pipe El. Top 30" VC.P. 99.36

33' x 24" V.C.P.
F.L.E.I. 99.45

EXISTING MANHOLE ON 30" SANITARY SEWER 16.3' DI. STA. 9+23.25 ELEV. 101.17 F.L.E.I. 96.62

Reconstruct that portion of levee damaged during the construction of storm water sewer.

LEVEE

Do not remove trees. If necessary move pipe line 2 or 3' South.

Construct Reinf. Concrete Outfall Structure. See Sh. #10 for details.

B.M. S. Rim Manhole 16.8' L.R. Sta. 4+58 ELEV. 101.17

20' TUNNEL UNDER RAIL ROAD TRACK.

NOTE:
All cast iron pipe to be class "A" standard Bell and Spigot.

BILL OF MATERIAL FOR TUNNEL 20' LONG
40'-3" x 12' x 8" Plank
40'-3" x 12' x 8" Plank
14 cu. yds. conc. grout.

RAILROAD CROSSING:
WITH PERMISSION FROM THE RAILROAD, PIPE MAY BE LAYED IN OPEN DITCH AT OPTION OF THE CONTRACTOR. IN THIS CASE, PAYMENT WILL BE MADE ON BID PRICE OF 78" R.C.P.

END ELEVATION TUNNEL DETAIL
Scale 1/2" = 1'-0"

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

48" R.C.P. 0.10% 48" R.C.P. 0.10%

F.L.E.I. OUT 92.11 IN 92.21

10+48

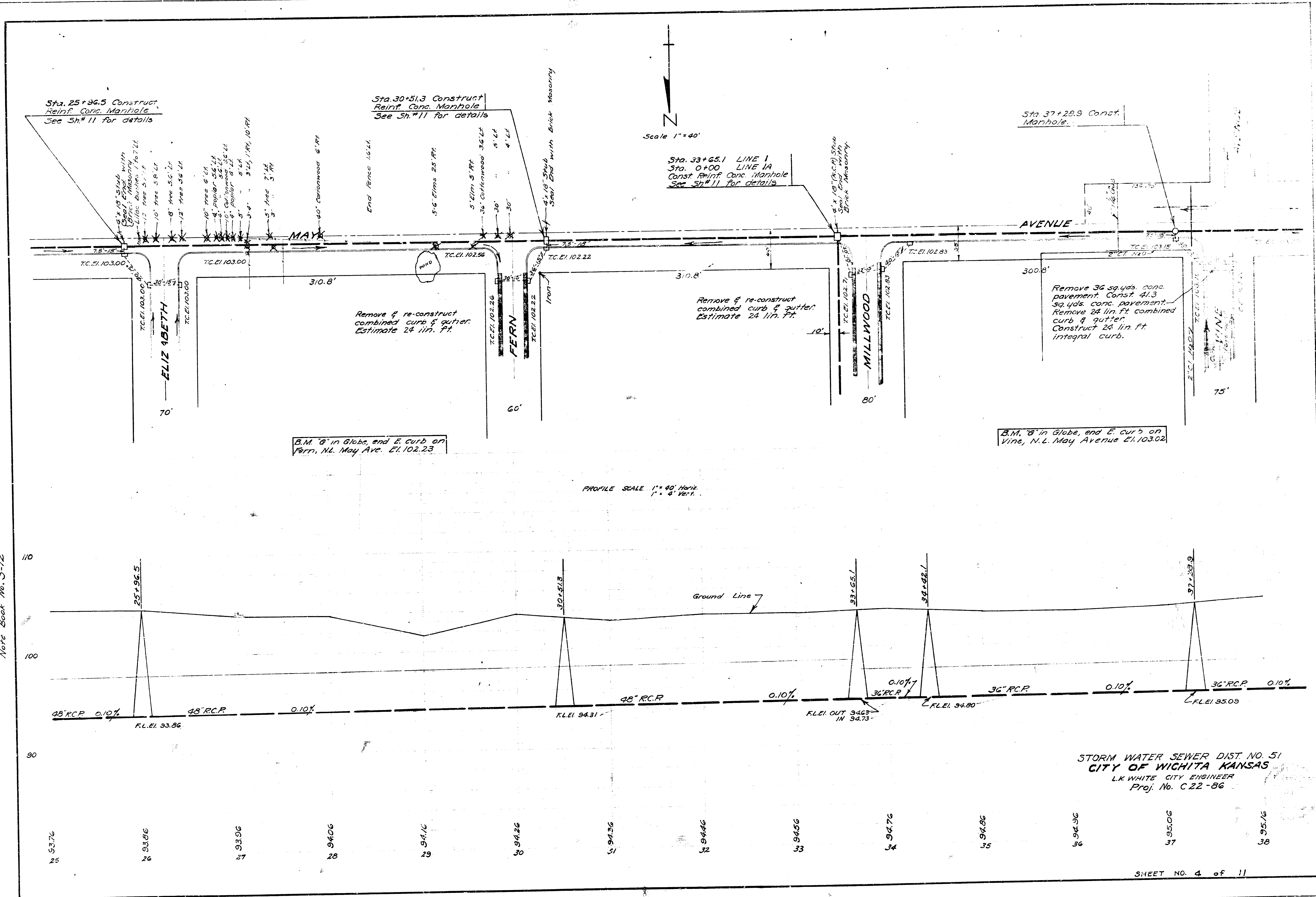
30" VC.P.

Big Arkansas River

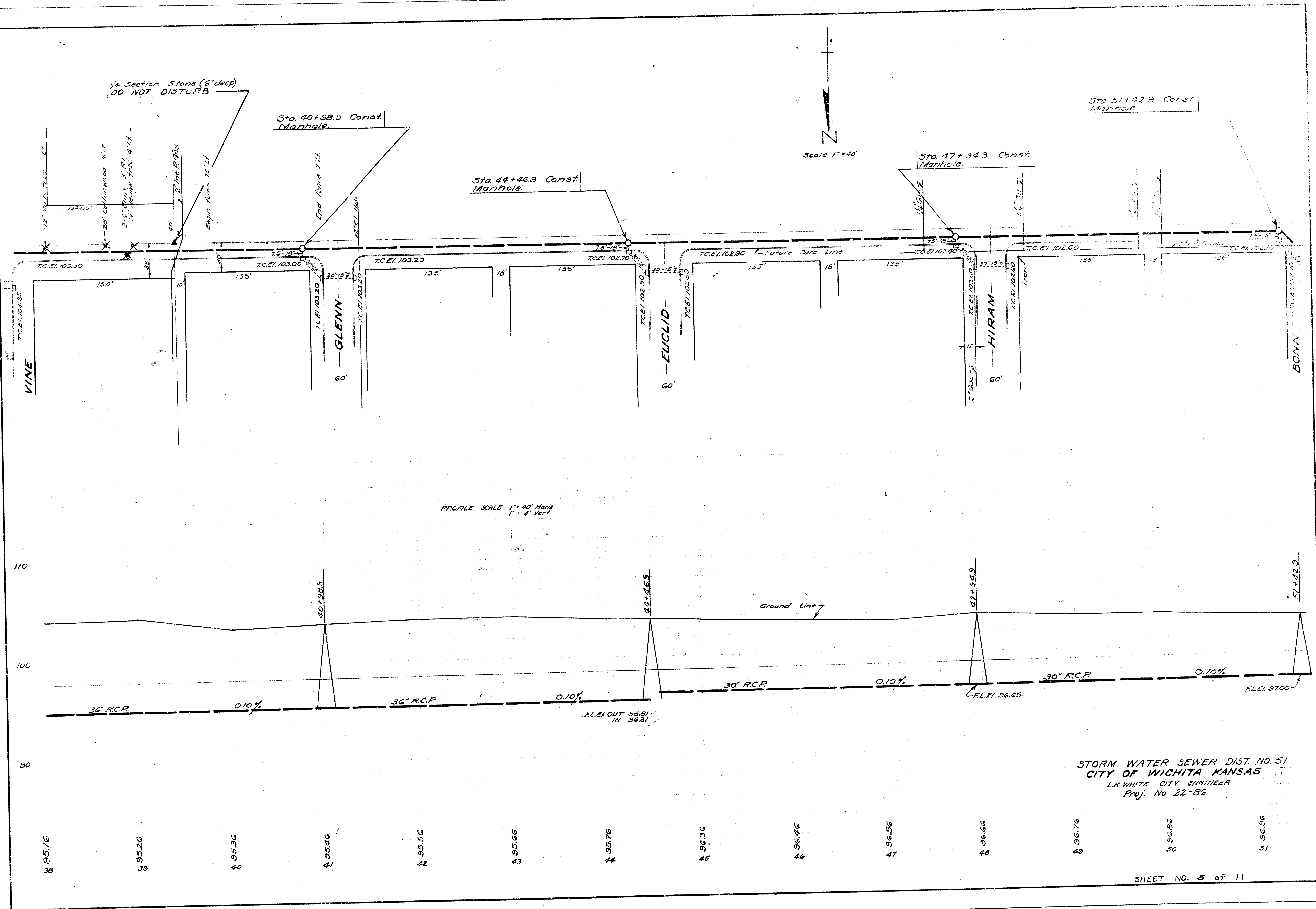
STORM WATER SEWER DIST. NO. 51
CITY OF WICHITA KANSAS
L.K. WHITE CITY ENGINEER
Proj. No. C.22-86

SHEET NO. 2 of 11

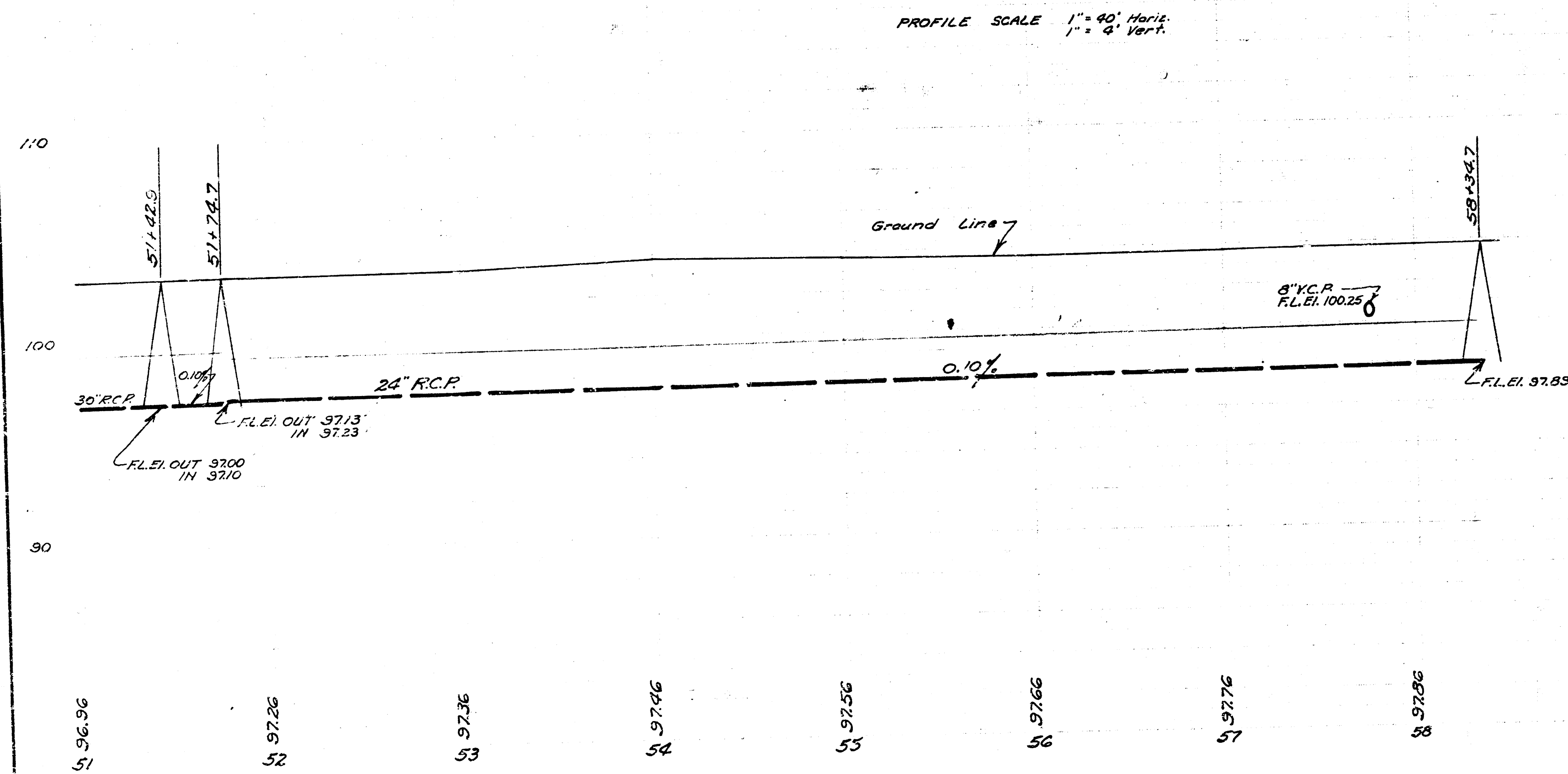
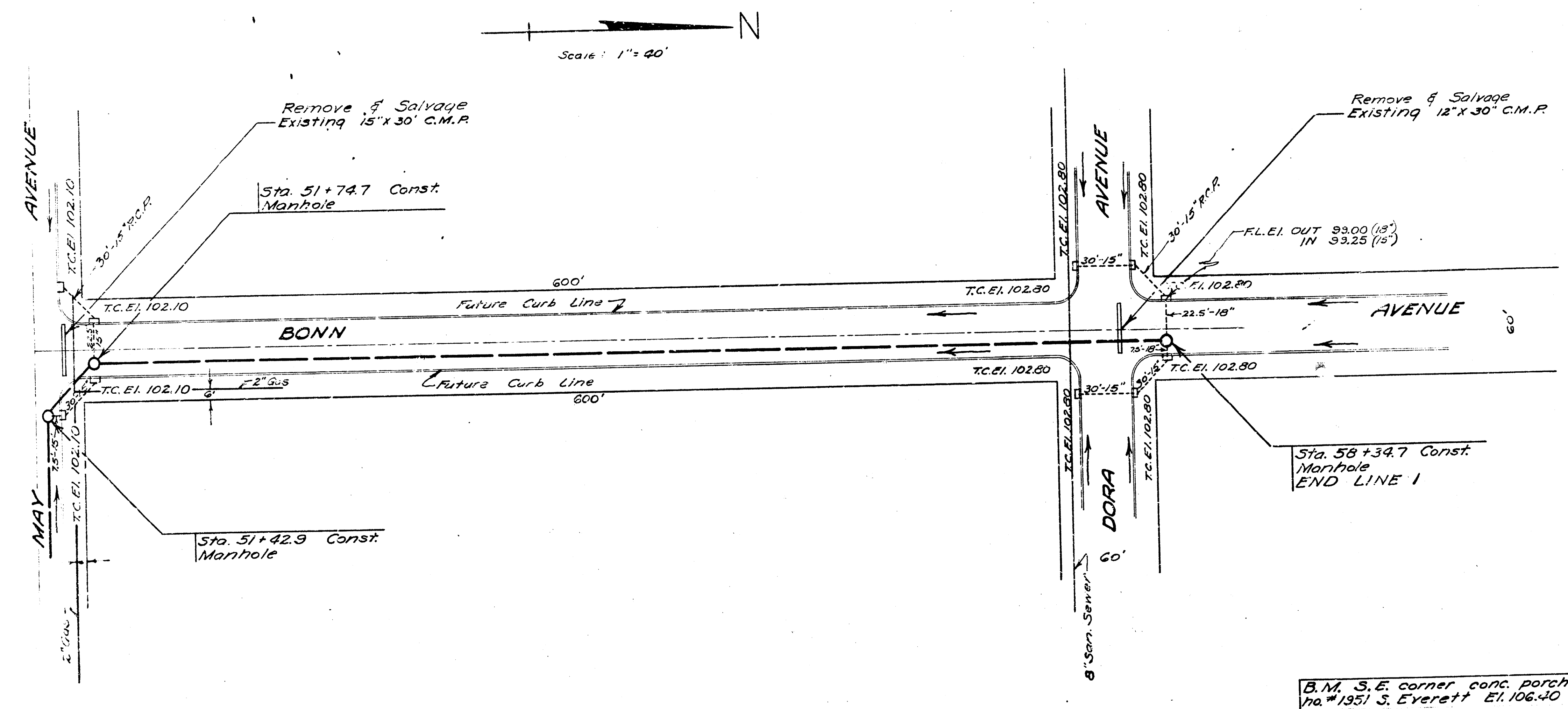
Date Oct 1952
 Drawn by J.L.A.
 Checked by Note Book No. 5-12



Date Oct. 1952
 Drawn by J.L.A.
 Checked by
 Note Book No. 5-12

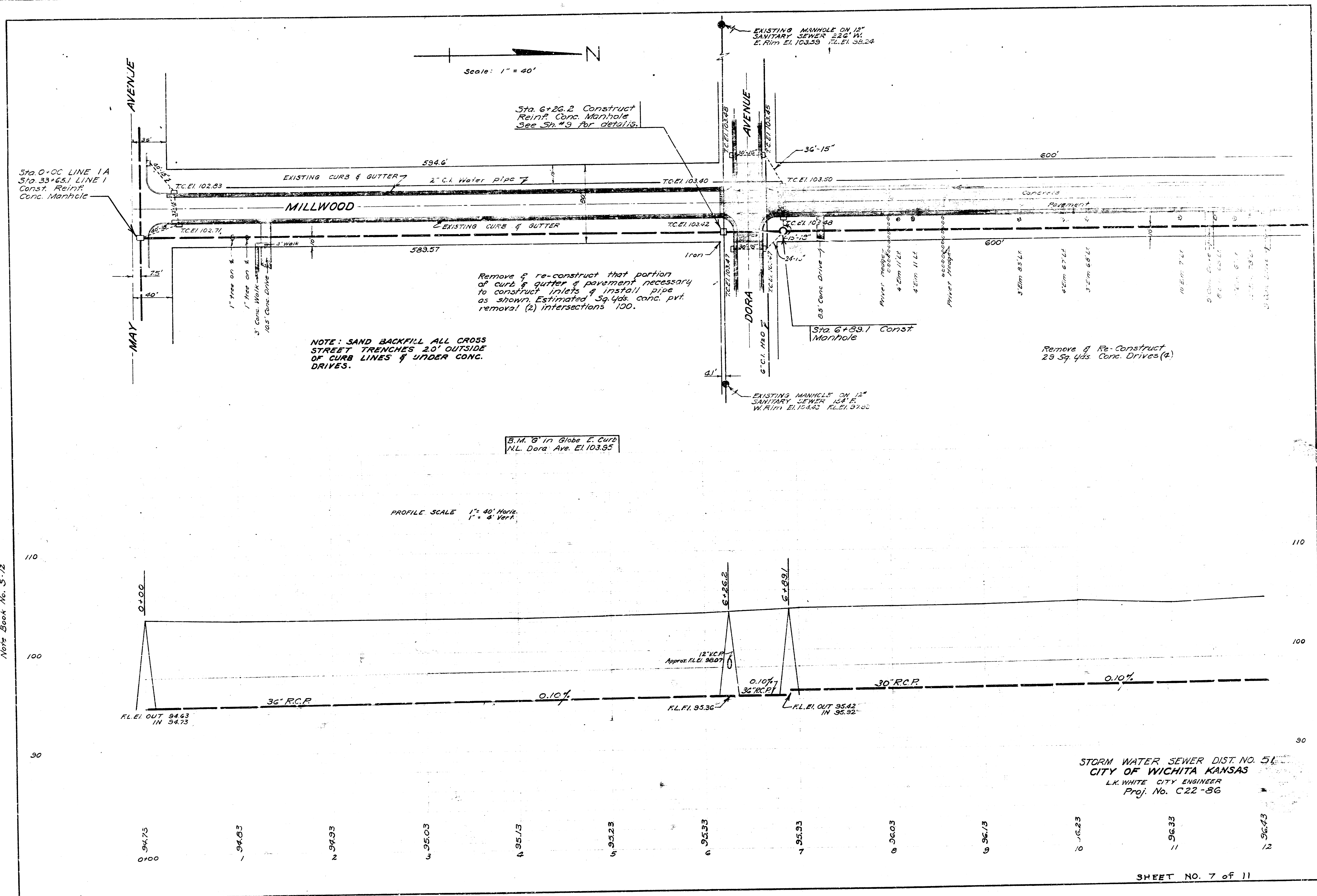


Date Oct 1952
 Drawn by J.L.A.
 Checked by
 Note Book No. 5-11

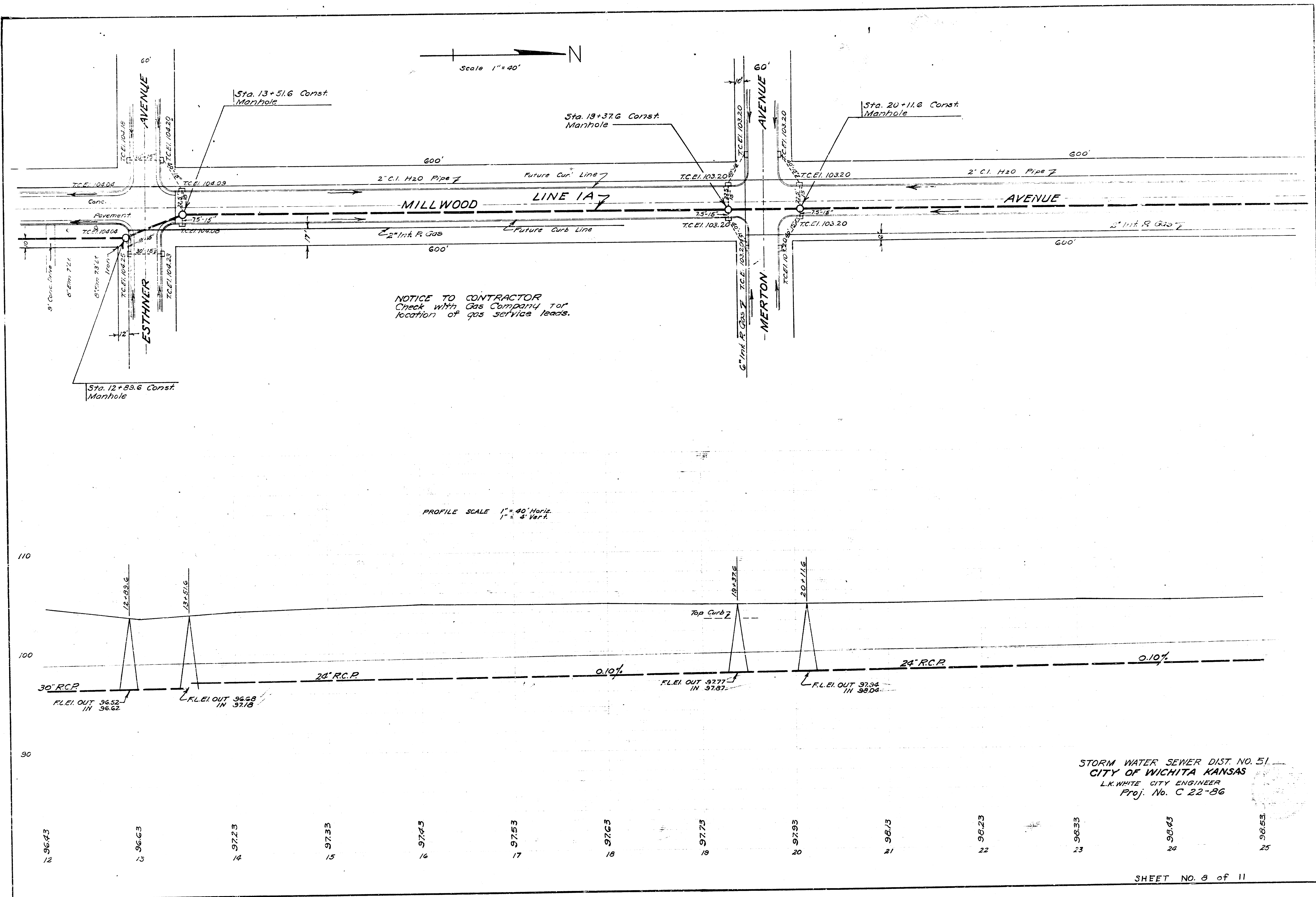


STORM WATER SEWER DIST. NO. 51
 CITY OF WICHITA KANSAS
 L. WHITE CITY ENGINEER
 Proj. No. C22-86

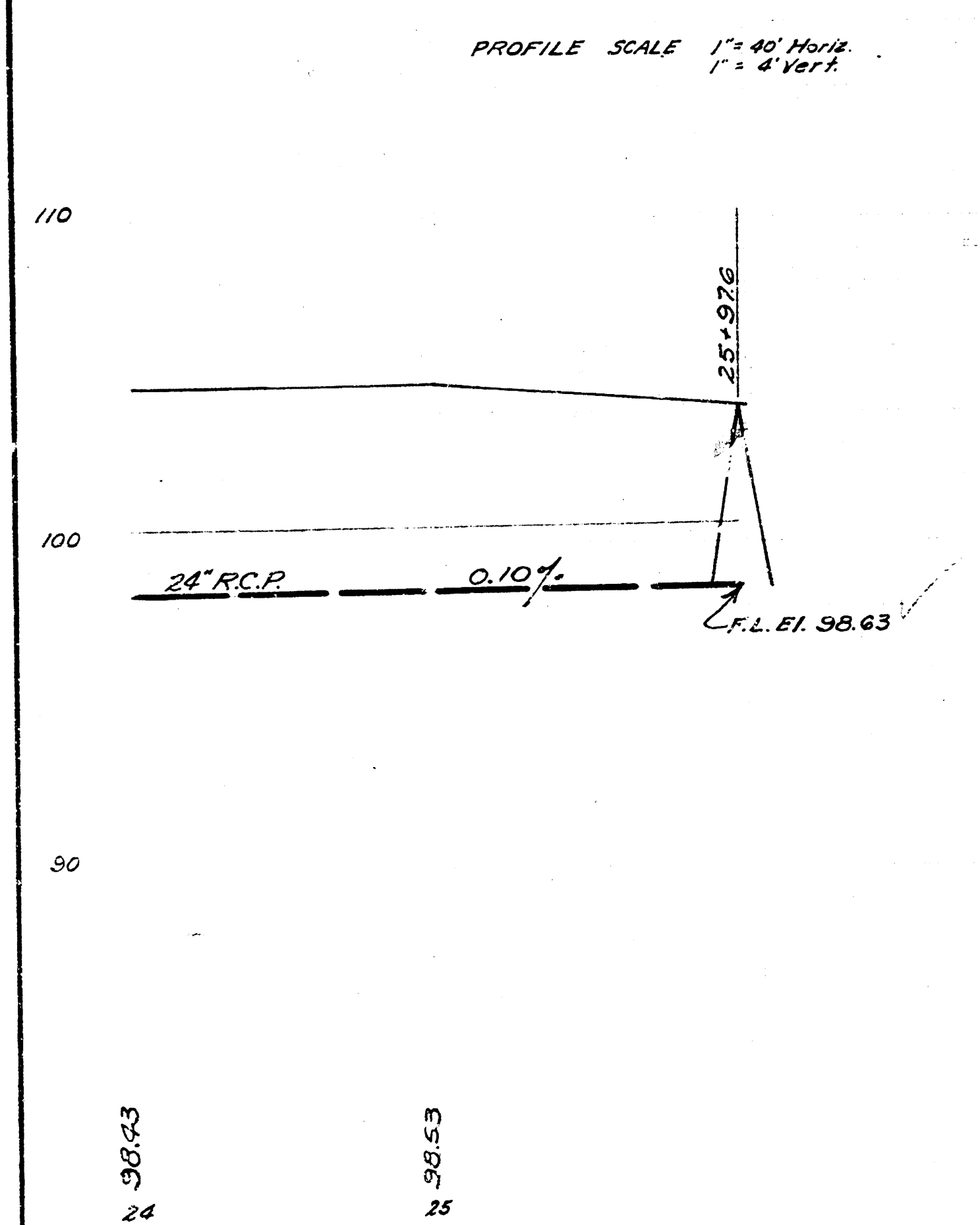
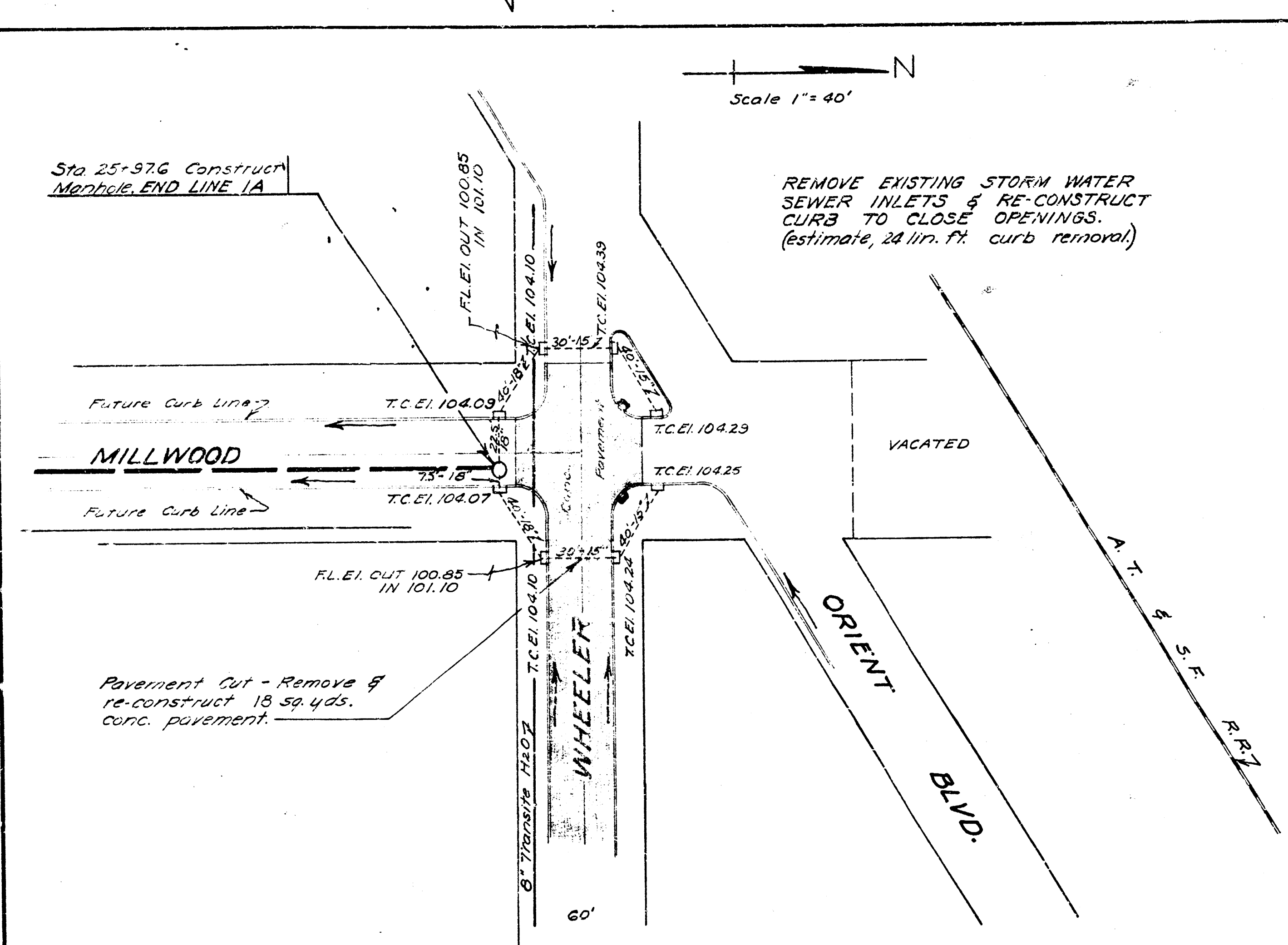
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 Checked by
 Note Book No. 5-12



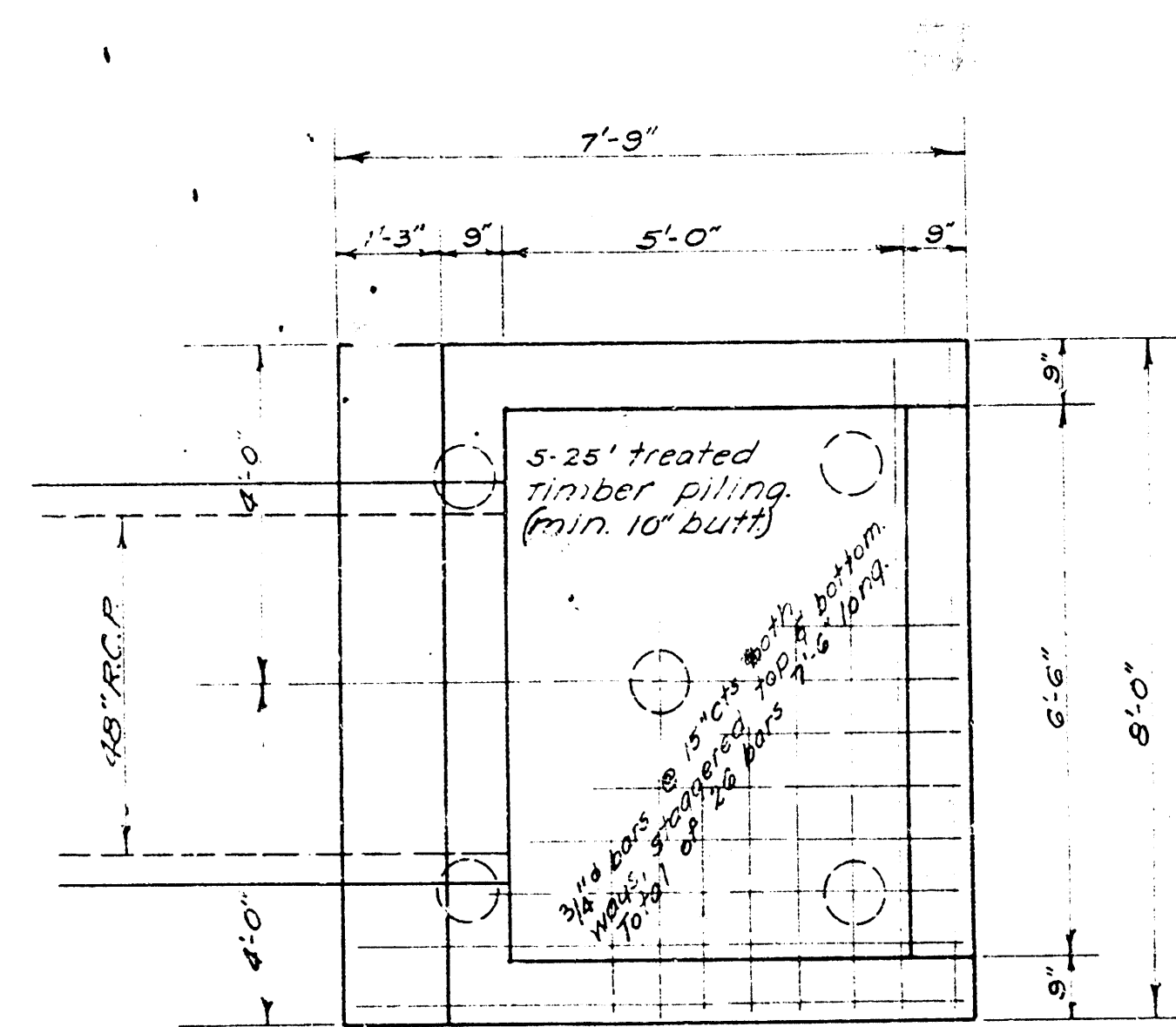
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 Checked by J.L.A.
 Note Book No. 5-12



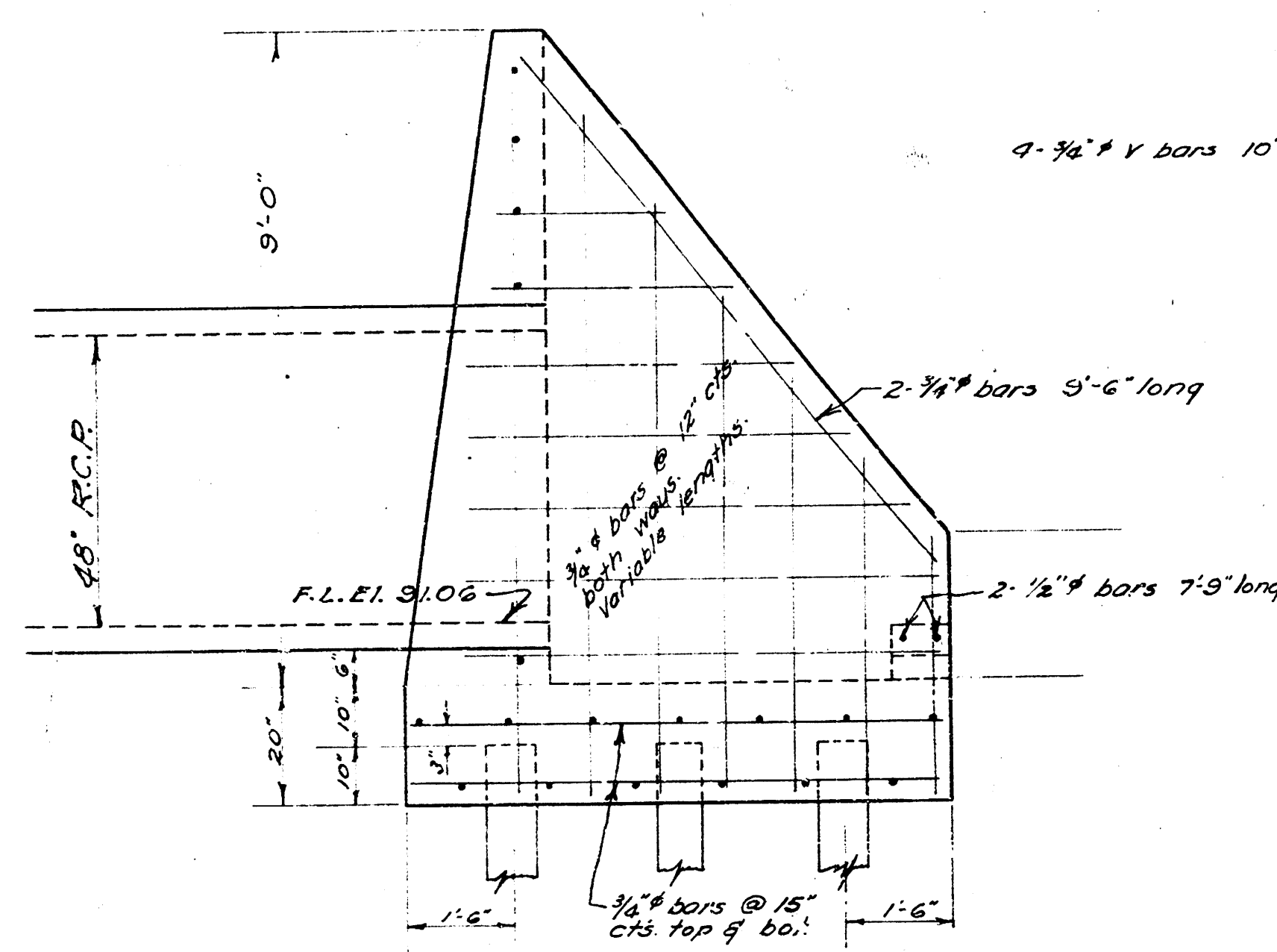
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 Drawn by J.L.A.
 Checked by Note Book No. S-12



STORM WATER SEWER DIST. NO. 51
 CITY OF WICHITA KANSAS
 L.K. WHITE CITY ENGINEER
 Proj. No. C 22-86



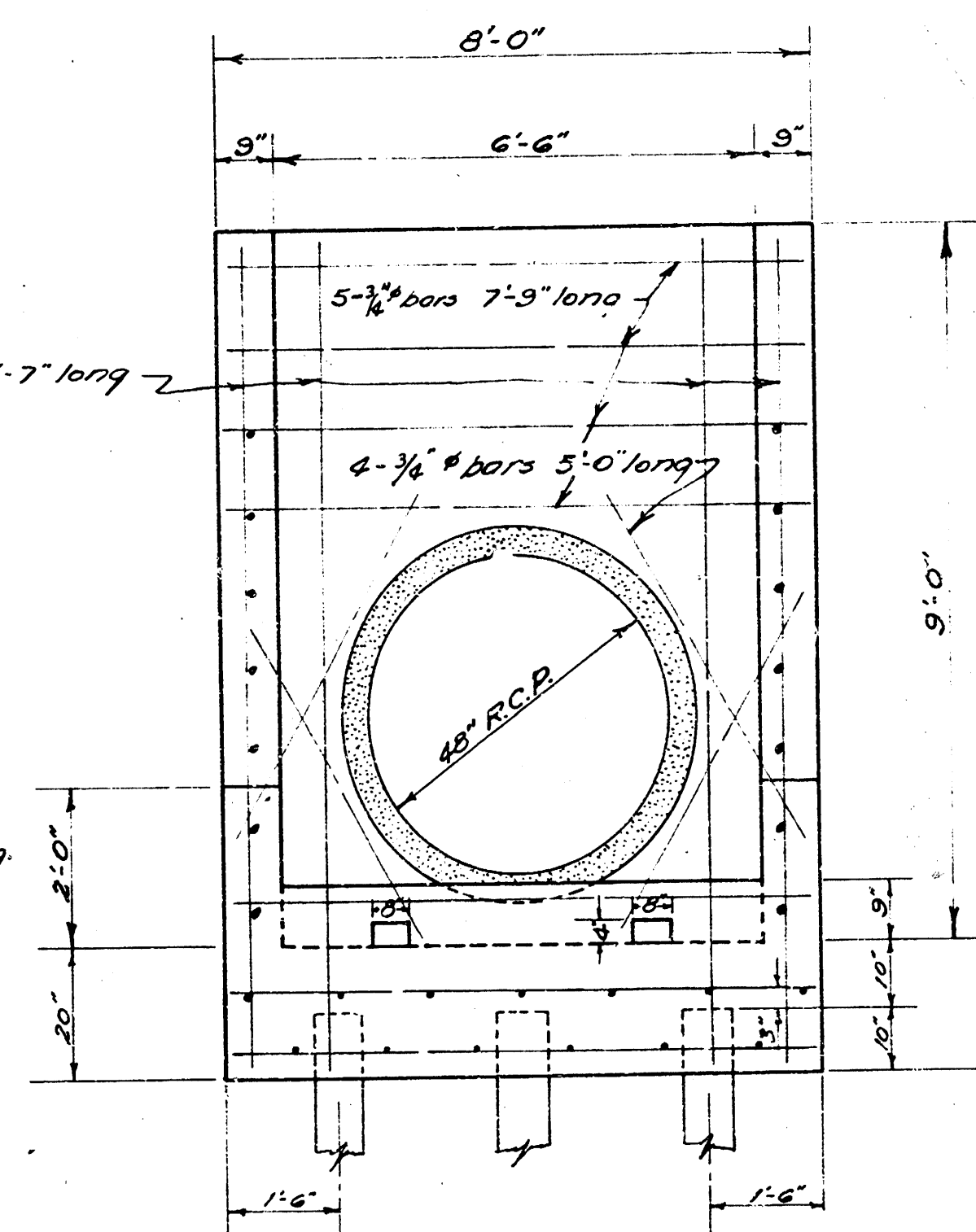
PLAN VIEW



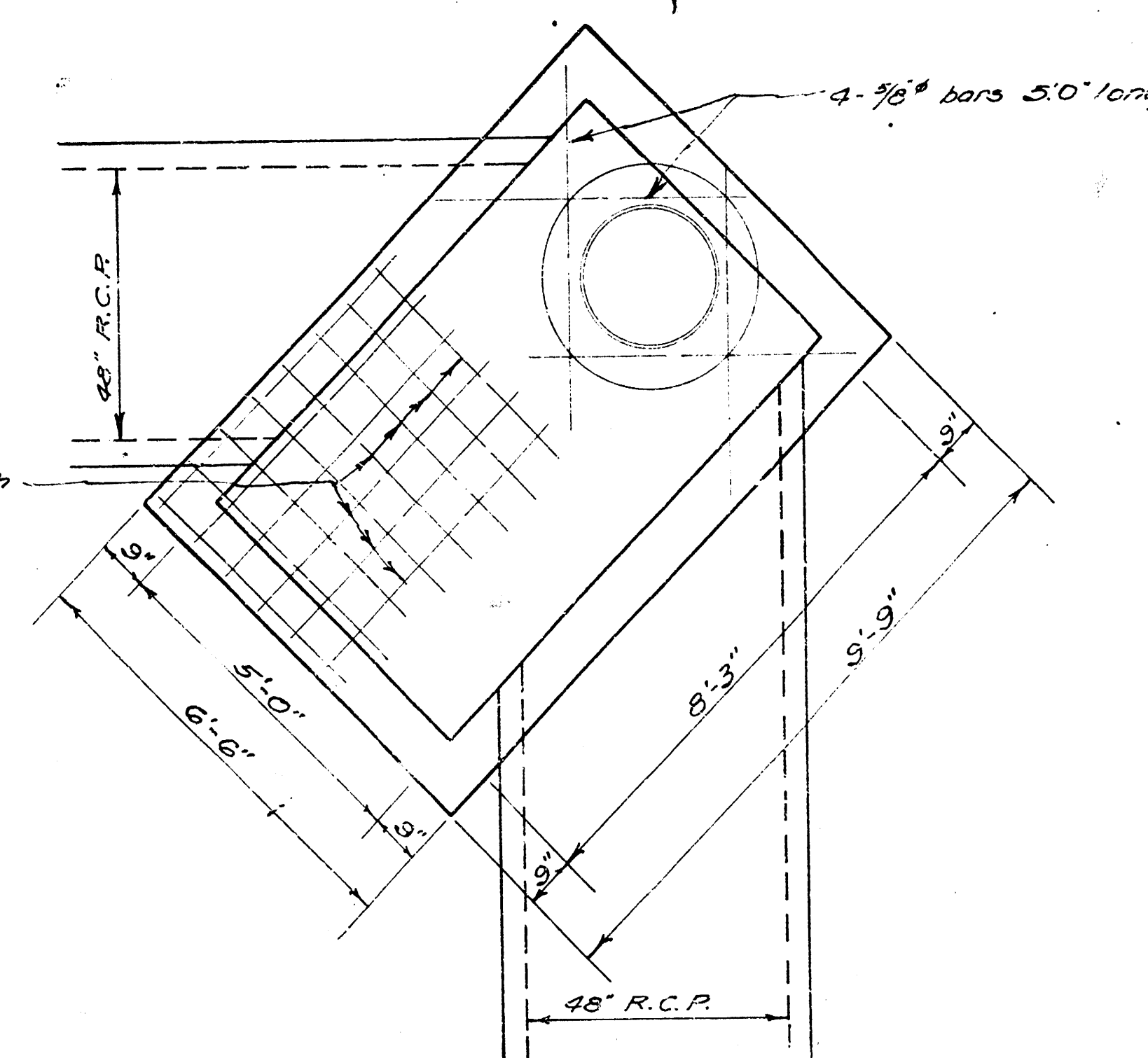
SIDE ELEVATION

OUTFALL STRUCTURE

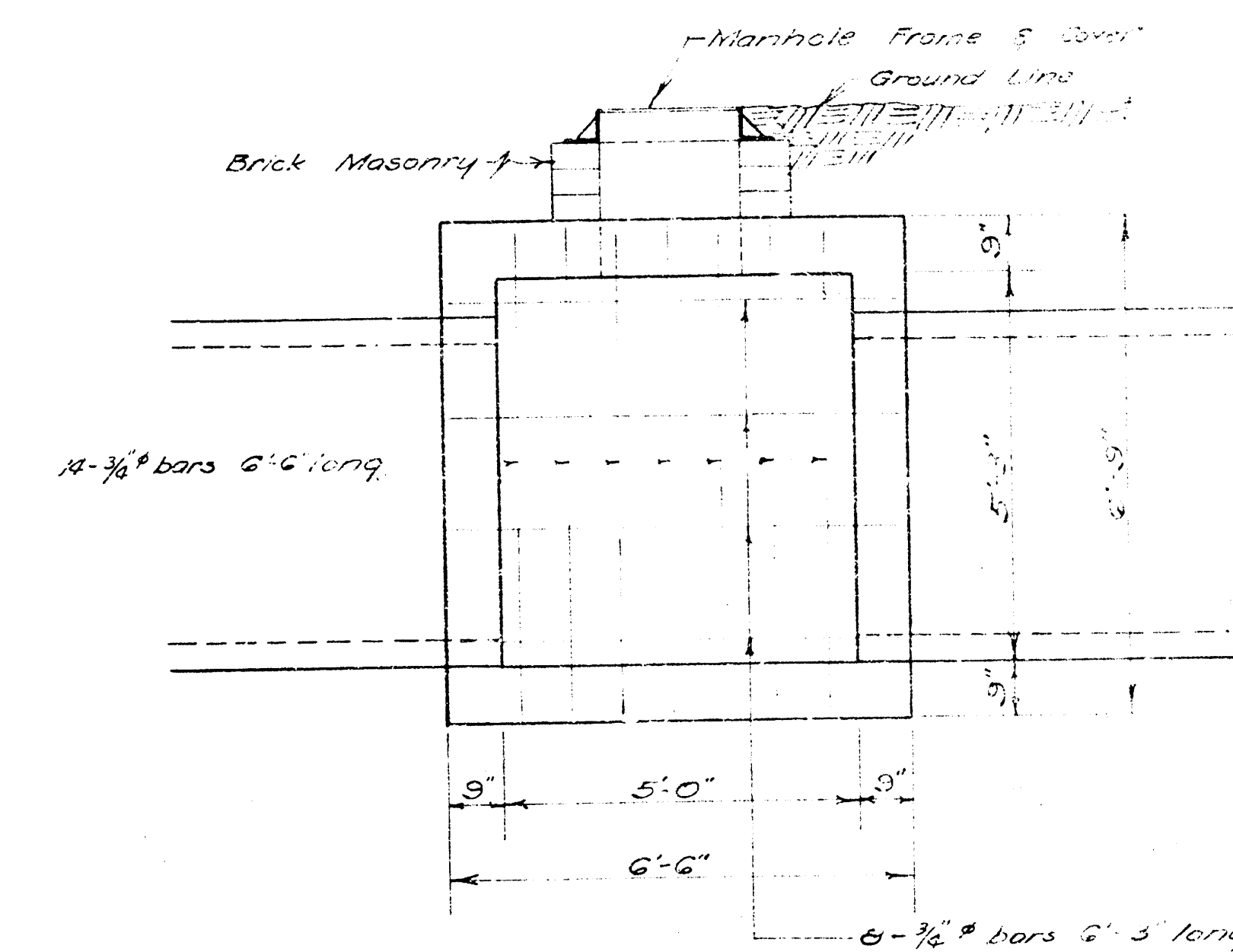
SCALE: 1/2" = 1'-0"



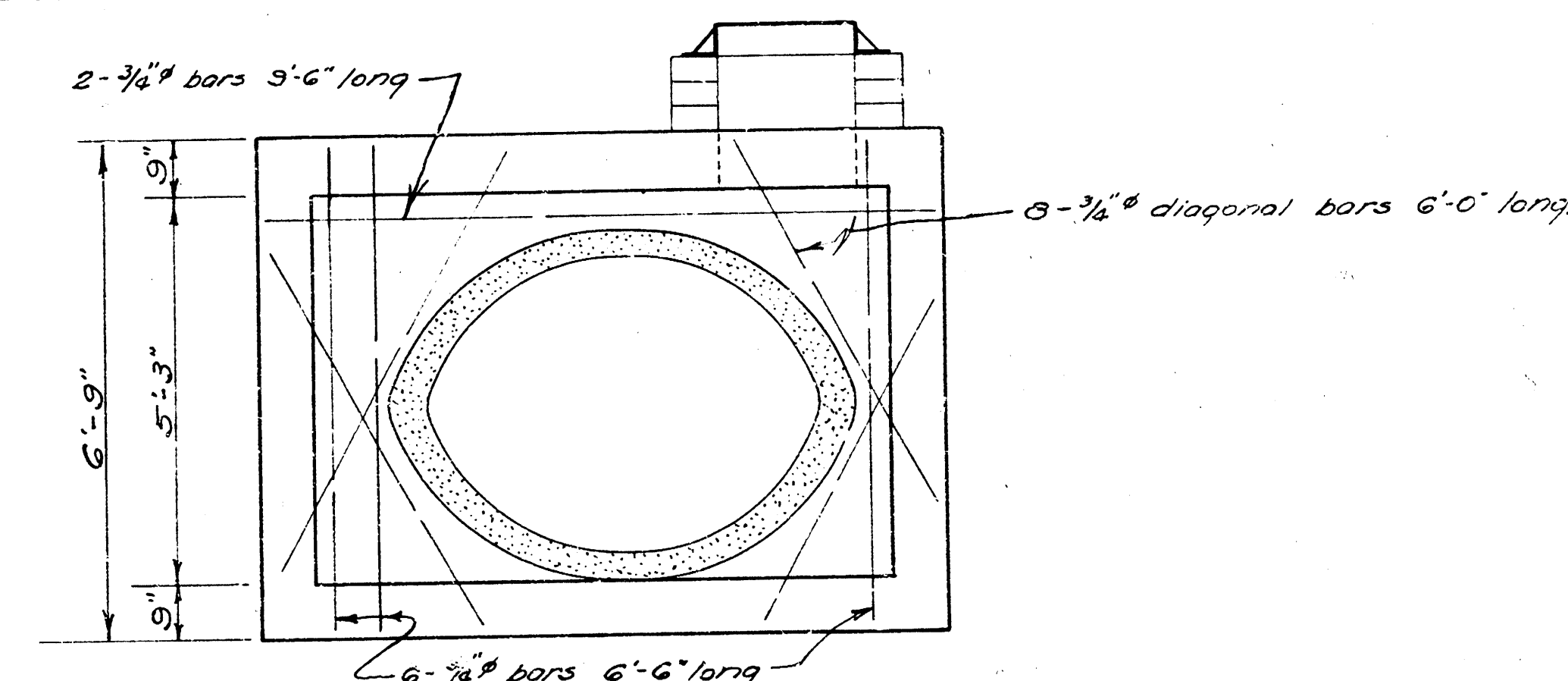
END ELEVATION



PLAN VIEW



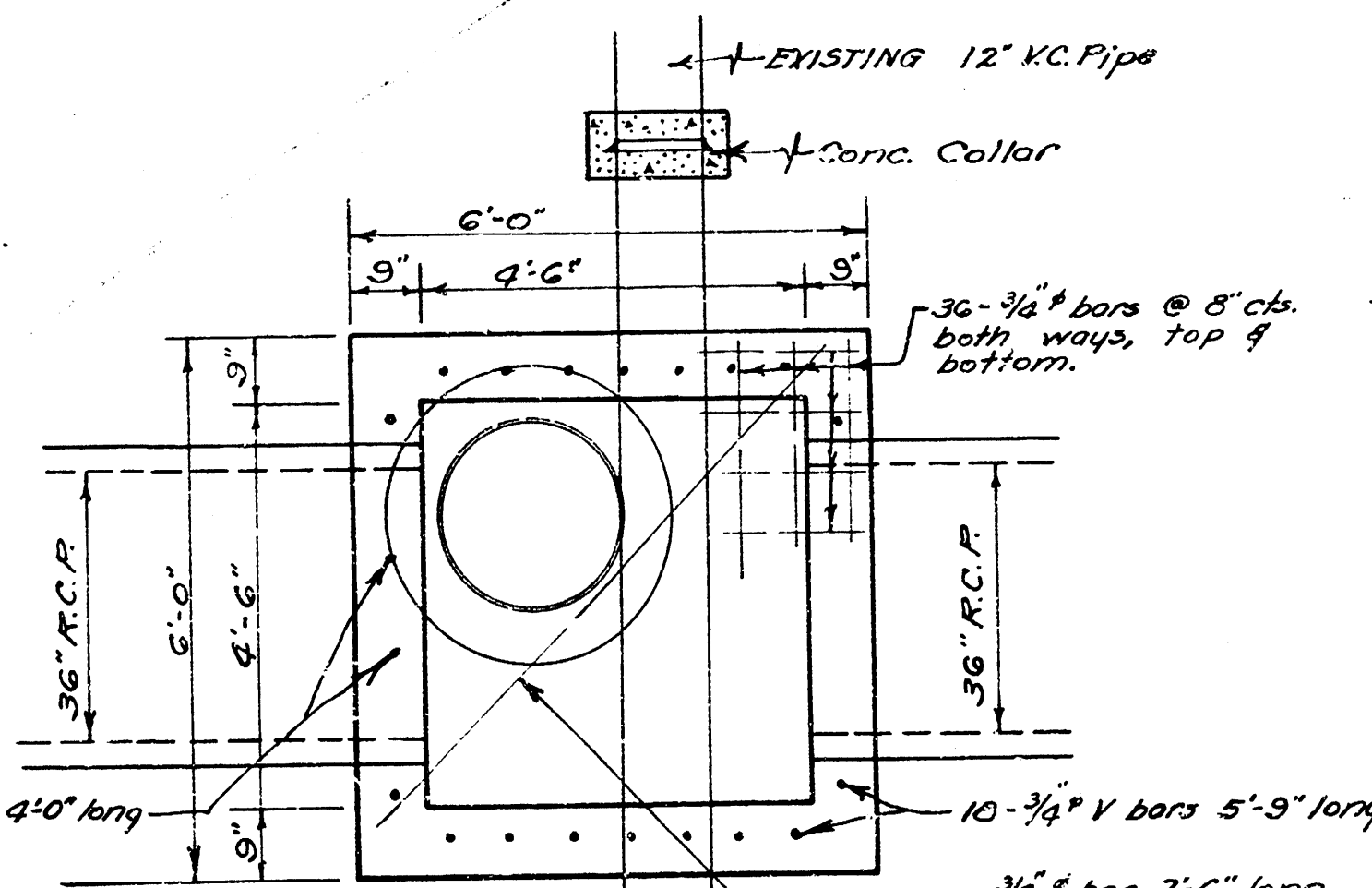
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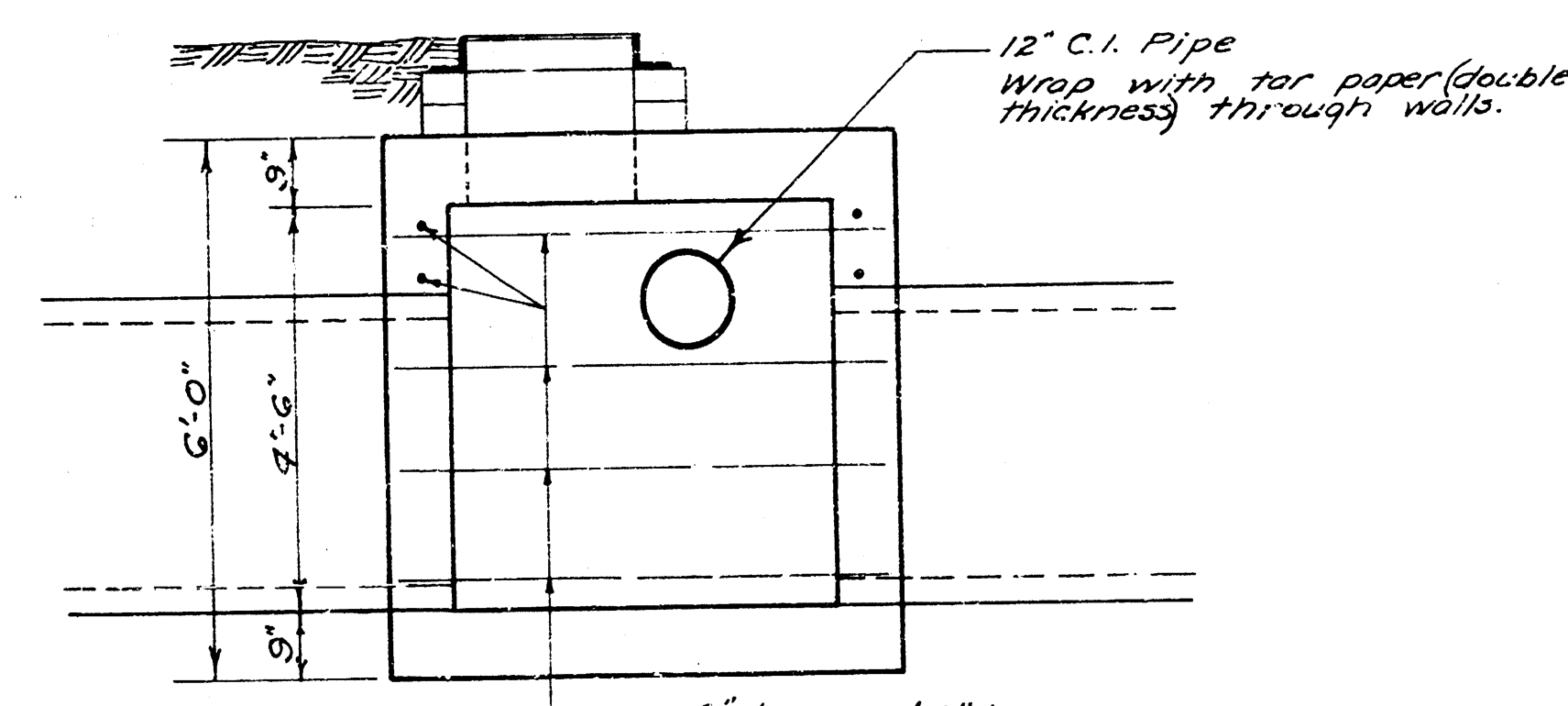
SIDE ELEVATION

REINF. CONC. MANHOLE Sta. 10+48 Line 1

Scale 1/2" = 1'-0"



PLAN VIEW

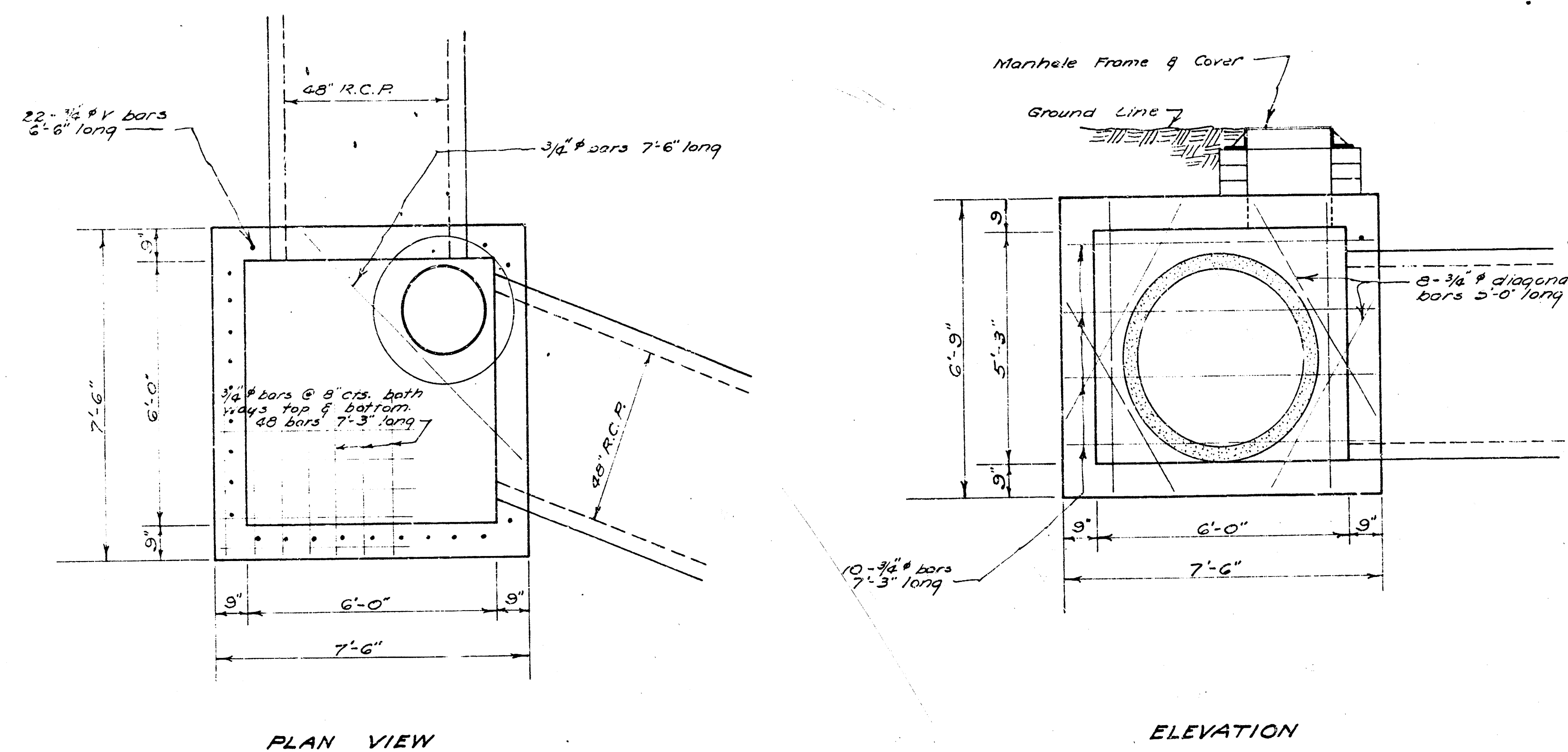


ELEVATION

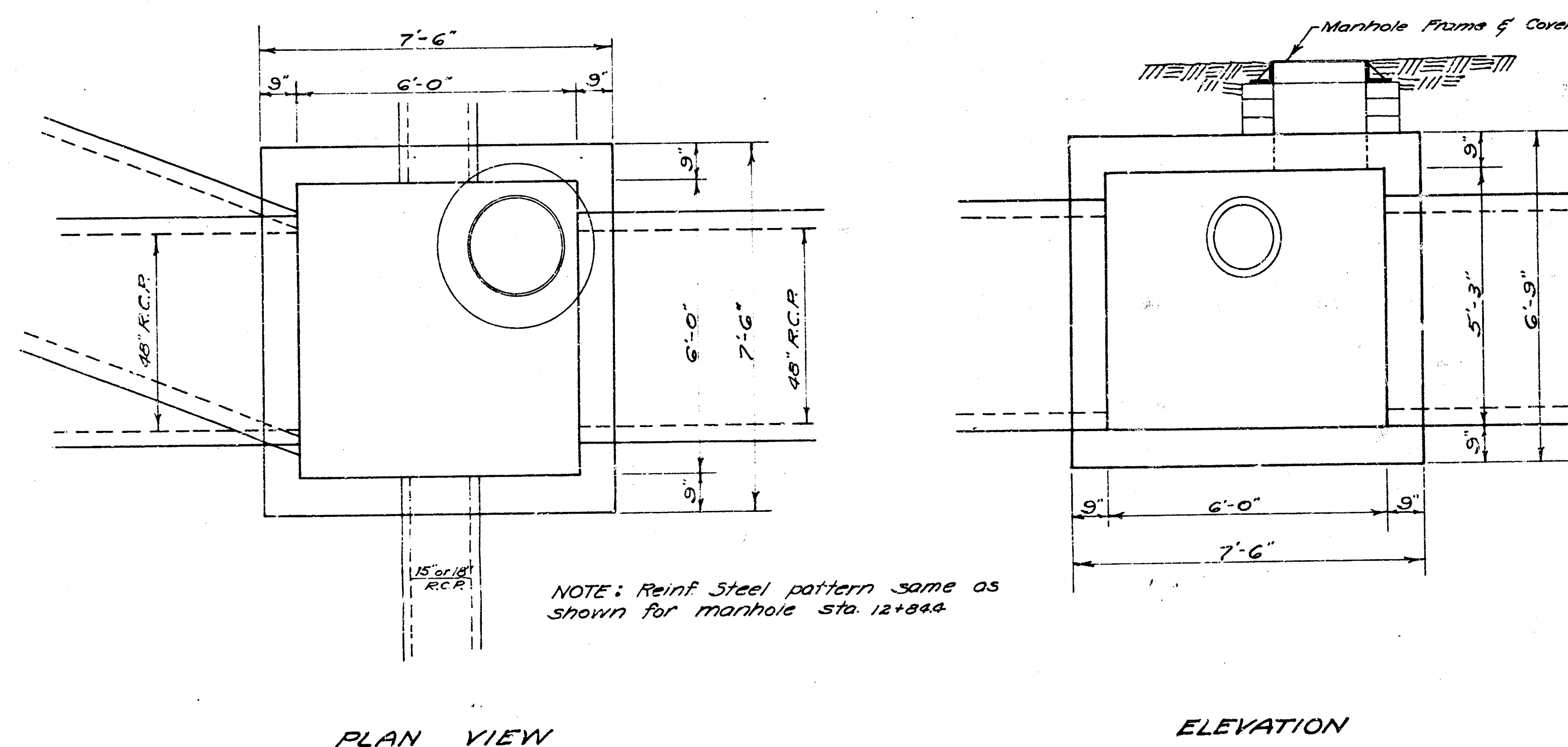
REINF. CONC. MANHOLE Sta. 6+26.2 Line 1A

Scale 1/2" = 1'-0"

STORM WATER SEWER DIST. NO. 51
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L.K. WHITE CITY ENGINEER
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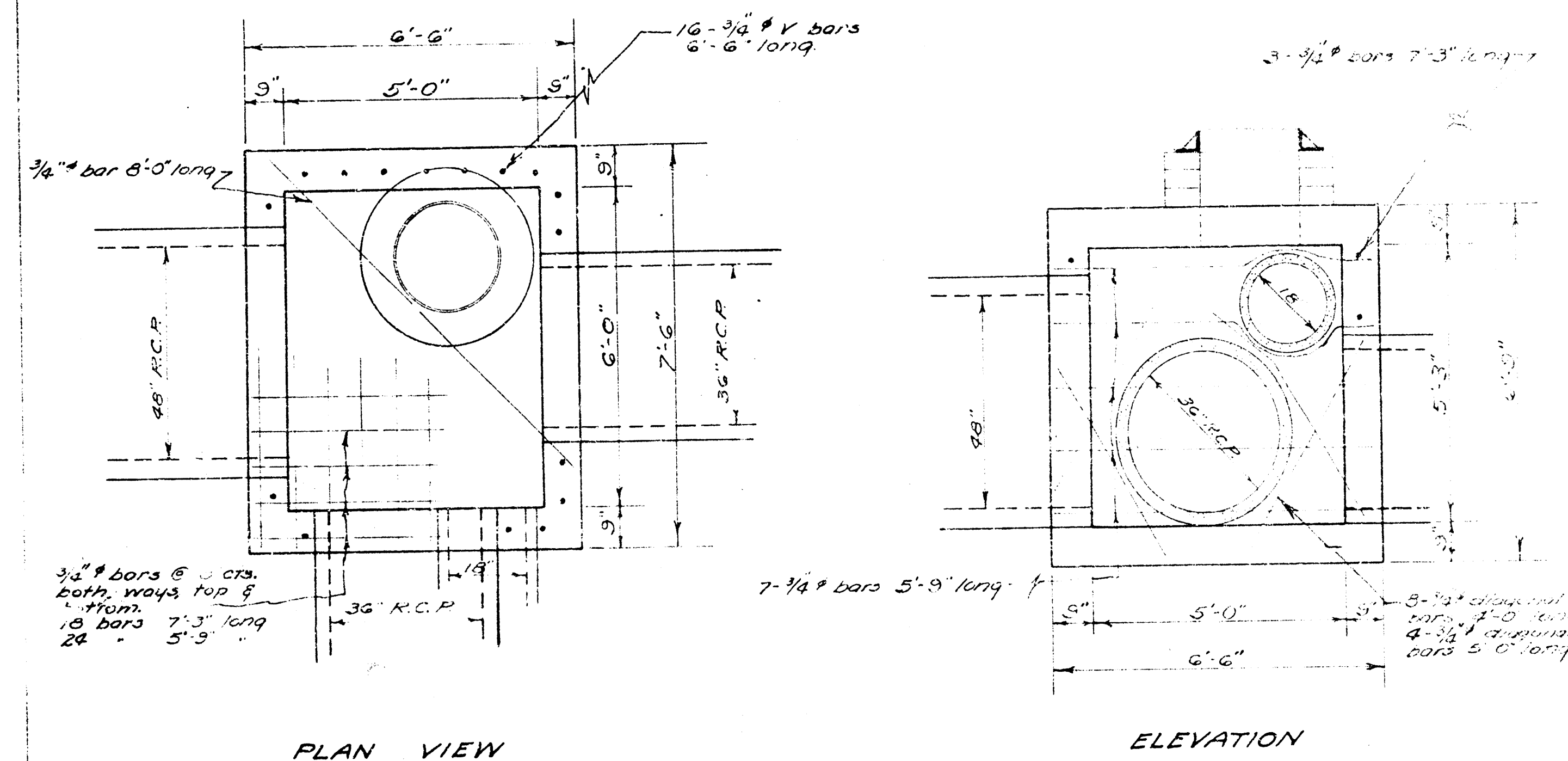
REINF. CONC. MANHOLE Sta. 12+91.2
SCALE 1/2" = 1'-0"



NOTE: Reinf. Steel pattern same as shown for manhole Sta. 12+91.2

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

Sta. 13+48
Sta. 16+61.4
Sta. 21+97.4
Sta. 25+96.5
Sta. 30+51.3



REINF. CONC. MANHOLE Sta. 33+65.1 Line 1
Sta. 0+00 Line 1A
SCALE 1/2" = 1'-0"

Concrete for manholes shall contain not less than 165 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 (18" diam. or less). Where pipes are large use 3/4" 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.

STORM WATER SEWER DIST. NO. 51
CITY OF WICHITA KANSAS
J. WHITE CITY ENGINEER
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