EXTENSION OF
REINFORCED CONCRETE MANHOLE
ON EXISTING SANITARY SEWER

For A.T. & S.F. R.R. Industry Track Crossing
In Santa Fe Midland Industrial District
Wichita, Kansas

City of Wichita Private Project No. 468-76-80906-000-000-008

4-15-80

APPROVED AS NOTED
By CITY ENGINEER OF WICHITA
Sanitary Sewers DCd
Storm Sewers ______
Driveway Approaches ______

NOTE TO CONTRACTOR
This project will be constructed under the supervision of the CITY ENGINEER and conforming to the SPECIFICATIONS of the CITY OF WICHITA. The CONTRACTOR will reimburse the City of Wichita for all cost of [redacted]s, [redacted] inspection.

Moehring & Associates
Consulting Engineers

DON C. MOEHRING, II
3463

APRIL 1980

INDEX —

SHEET 1. TITLE
2. VICINITY PLAN & PROFILE
3. DETAIL PLAN
4. STRUCTURAL DETAIL

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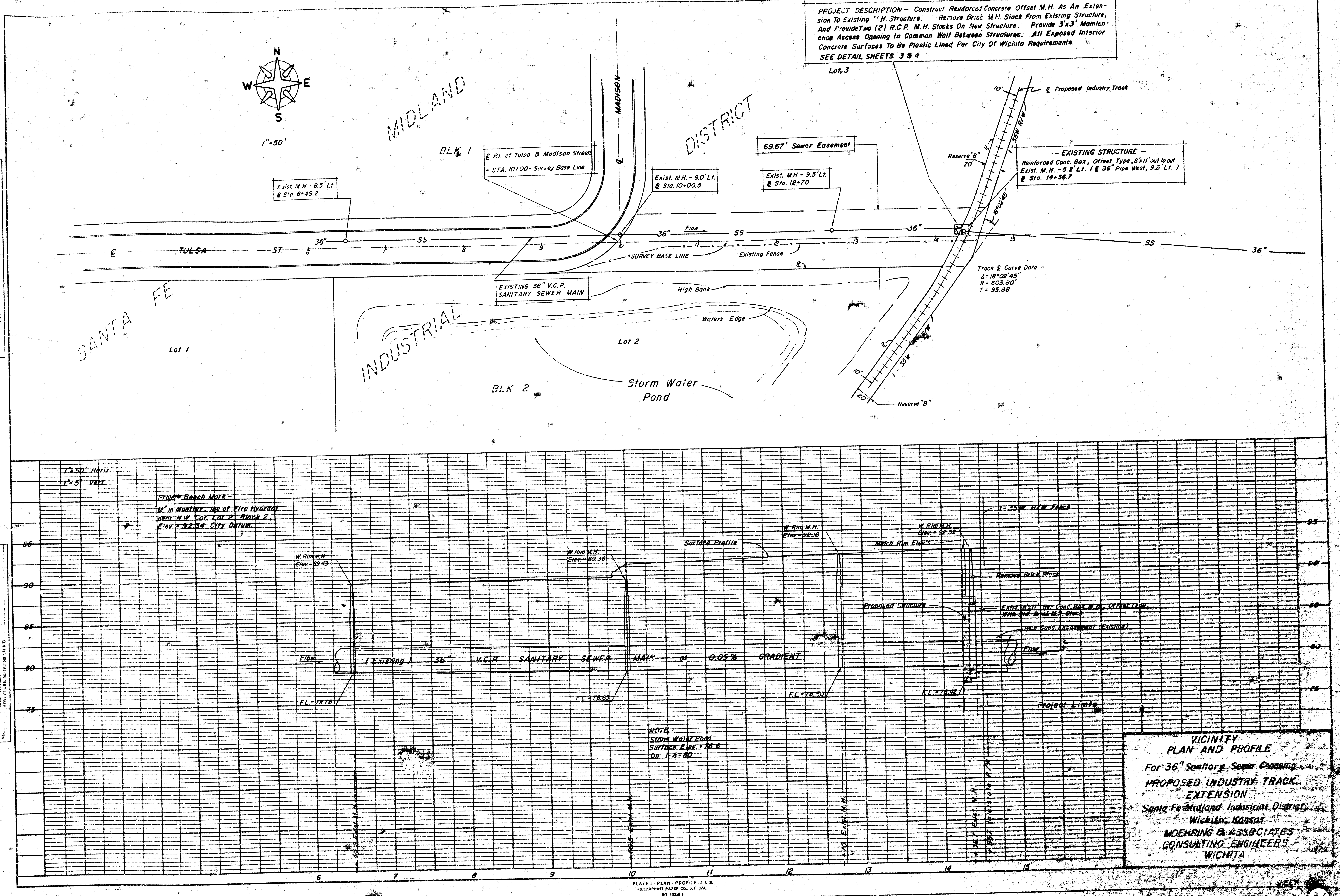
PROJECT DESCRIPTION – Construct Reinforced Concrete Offset M.H. As An Extension To Existing M.H. Structure. Remove Brick M.H. Stack From Existing Structure, And Provide Two (2) R.C.P. M.H. Stacks On New Structure. Provide 3'x3' Maintenance Access Opening In Common Wall Between Structures. All Exposed Interior Concrete Surfaces To Be Plastic Lined Per City Of Wichita Requirements.

SEE DETAIL SHEETS 3 & 4


N
S
E
W
1"=50'
SANTA FE MIDLAND INDUSTRIAL DISTRICT
BLK 1
BLK 2
Lot 1
Lot 2
Lot 3
MADISON
TULSA ST.
℄ P.I. of Tulsa & Madison Streets = STA. 10+00 - Survey Base Line
Exist. M.H. - 8.5' Lt. @ Sta. 6+49.2
Exist. M.H. - 9.0' Lt. @ Sta. 10+00.5
Exist. M.H. - 9.5' Lt. @ Sta. 12+70
69.67' Sewer Easement
EXISTING 36" V.C.P. SANITARY SEWER MAIN
SURVEY BASE LINE
Existing Fence
High Bank
Waters Edge
Storm Water Pond
Flow
36"
SS
℄ Proposed Industry Track
10'
20'
Reserve "B"
1 - 35W R/W
18°02'45"
– EXISTING STRUCTURE –
Reinforced Conc. Box, Offset Type, 8'x11' out to out
Exist. M.H. - 5.2' Lt. (℄ 36" Pipe West, 9.5' Lt.)
@ Sta. 14+36.7
Track ℄ Curve Data –
Δ = 18°02'45"
R = 603.80'
T = 95.88
1"=50' Horiz.
1"=5' Vert.
Project Bench Mark –
"M" in Mueller, top of Fire Hydrant near N.W. Cor. Lot 2, Block 2.
Elev. = 92.34 City Datum.
W. Rim M.H. Elev. = 89.43
W. Rim M.H. Elev. = 89.36
W. Rim M.H. Elev. = 92.16
W. Rim M.H. Elev. = 92.52
Surface Profile
Match Rim Elev's
1 - 35W R/W Fence
Remove Brick Stack
Proposed Structure
Exist. 8'x11' Re. Conc. Box M.H., Offset Type, With Std. Brick M.H. Stack
Re. Conc. Encasement (Existing)
Flow
(Existing) 36" V.C.P. SANITARY SEWER MAIN at 0.05% GRADIENT
F.L. = 78.78
F.L. = 78.63
F.L. = 78.50
F.L. = 78.42
Project Limits
NOTE: Storm Water Pond Surface Elev. = 76.6 On 1-8-80
95
90
85
80
75
6
7
8
9
10
11
12
13
14
15
PLAN
PROFILE
NOTE BOOK
SURVEYED
PLOTTED
STRUCTURE NOTATIONS CHK'D
NO.
DATE
PLATE 1 - PLAN - PROFILE - F.A.S.
CLEARPRINT PAPER CO., S.F. CAL.

VICINITY
PLAN AND PROFILE
For 36" Sanitary Sewer Crossing
PROPOSED INDUSTRY TRACK
EXTENSION
Santa Fe Midland Industrial District
Wichita, Kansas
MOEHRING & ASSOCIATES
CONSULTING ENGINEERS
WICHITA

SHEET 2/4

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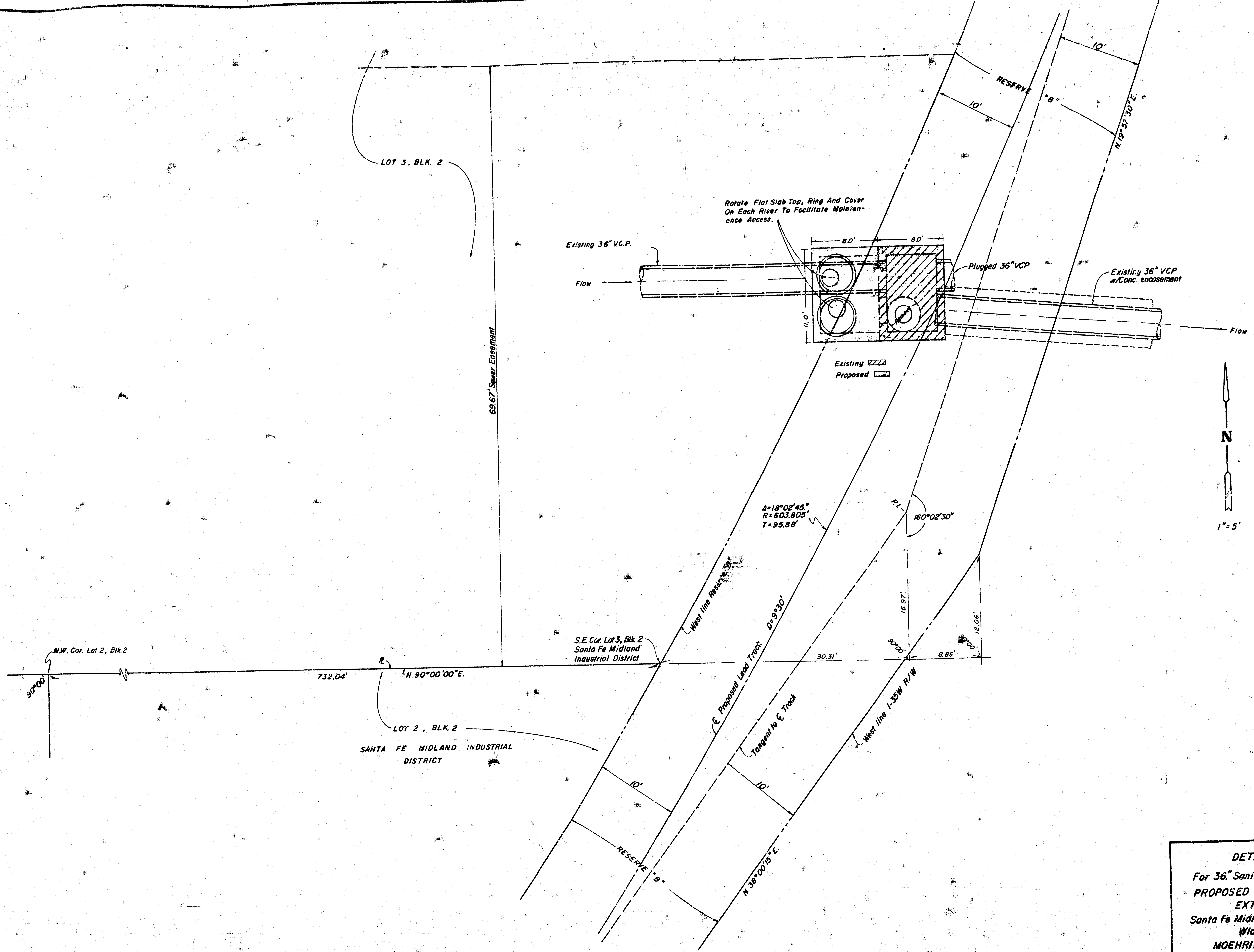
Rotate Flat Slab Top, Ring And Cover On Each Riser To Facilitate Maintenance Access.
8.0'
8.0'
Existing 36" V.C.P.
Flow
Plugged 36" VCP
Existing 36" VCP w/Conc. encasement
Flow
11.0'
Remove
Existing ▨
Proposed ☐
10'
RESERVE "B"
10'
N. 19°57'30" E.
LOT 3, BLK. 2
69.67' Sewer Easement
N
1" = 5'
Δ = 18°02'45"
R = 603.805'
T = 95.88'
P.I.
160°02'30"
West line Reserve "B"
D = 9°30'
16.97'
12.06'
90°00'
90°00'
30.31'
8.86'
S.E. Cor. Lot 3, Blk. 2
Santa Fe Midland
Industrial District
N.W. Cor. Lot 2, Blk. 2
90°00'
732.04'
℄
N. 90°00'00" E.
LOT 2, BLK. 2
SANTA FE MIDLAND INDUSTRIAL DISTRICT
℄ Proposed Lead Track
Tangent to ℄ Track
West line I-35W R/W
10'
10'
RESERVE "B"
N. 38°00'15" E.

DETAIL PLAN

For 36" Sanitary Sewer Crossing
PROPOSED INDUSTRY TRACK
EXTENSION
Santa Fe Midland Industrial District
Wichita, Kansas
MOEHRING & ASSOCIATES
CONSULTING ENGINEERS
WICHITA

3/4

SHEET 3

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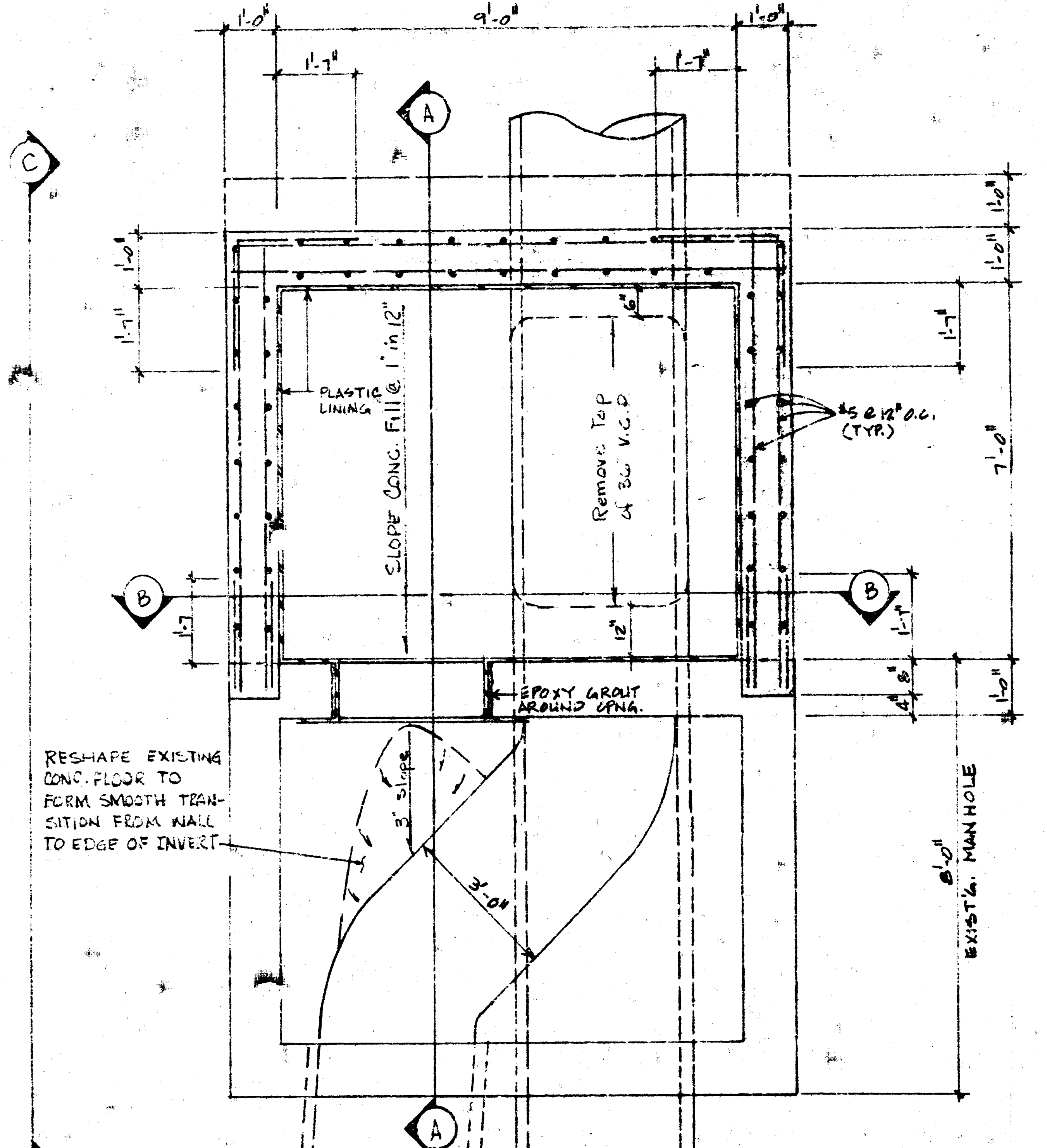
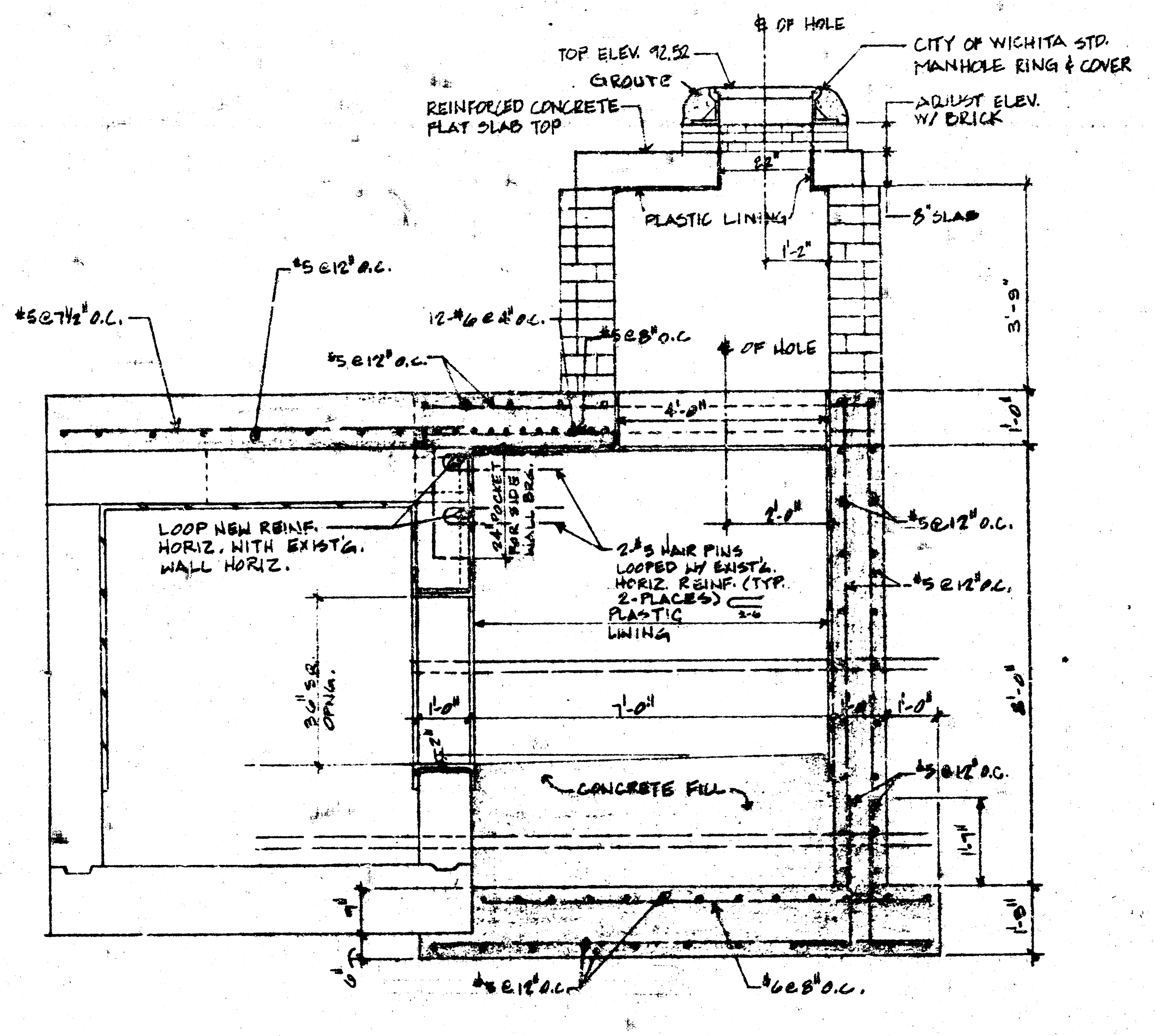

1'-0"
9'-0"
1'-0"
1'-7"
1'-7"
A
C
B
1'-0"
1'-7"
PLASTIC LINING
SLOPE CONC. FILL @ 1" in 12"
Remove Top of 36" V.C.P.
6"
12"
#5 @ 12" O.C. (TYP.)
7'-0"
1'-7"
1'-0"
4"
8"
EPOXY GROUT AROUND OPNG.
RESHAPE EXISTING CONC. FLOOR TO FORM SMOOTH TRANSITION FROM WALL TO EDGE OF INVERT
3' slope
3'-0"
8'-0" EXIST'G. MANHOLE

SECTIONAL PLAN
MANHOLE

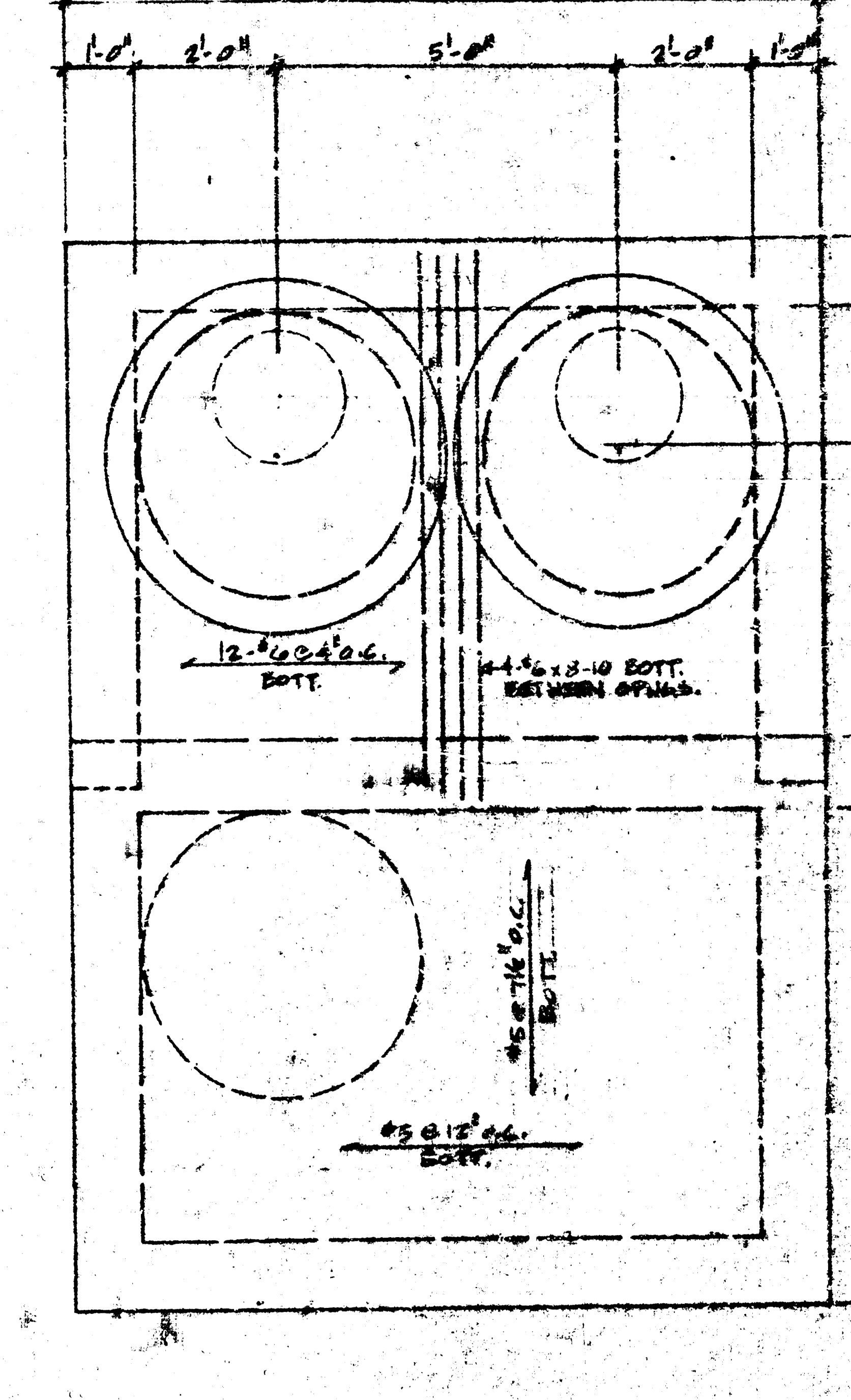
NOTE

MINIMUM CLEARANCES FOR REINFORCING STEEL FROM SURFACE OF CONCRETE:
ROOF – 1½"
WALLS – 2"
FOOTINGS – 3"

CONCRETE TO BE 3000# MIX.


℄ OF HOLE
TOP ELEV. 92.52
GROUTE
CITY OF WICHITA STD. MANHOLE RING & COVER
REINFORCED CONCRETE FLAT SLAB TOP
ADJUST ELEV. W/ BRICK
22"
PLASTIC LINING
1'-2"
8" SLAB
3'-9"
#5 @ 7½" O.C.
#5 @ 12" O.C.
12-#6 @ 4" O.C.
#5 @ 8" O.C.
#5 @ 12" O.C.
℄ OF HOLE
4'-0"
1'-0"
LOOP NEW REINF. HORIZ. WITH EXIST'G. WALL HORIZ.
24" POCKET FOR SIDE WALL BRG.
2-#3 HAIR PINS LOOPED W/ EXIST'G. HORIZ. REINF. (TYP. 2-PLACES)
PLASTIC LINING
2'-0"
#5 @ 12" O.C.
#5 @ 12" O.C.
36" R.C. OPNG.
1'-0"
7'-0"
1'-0"
1'-0"
2"
CONCRETE FILL
#5 @ 12" O.C.
1'-9"
8'-0"
1'-0"
8"
6"
#5 @ 12" O.C.
#6 @ 8" O.C.

SECTION A-A
MANHOLE

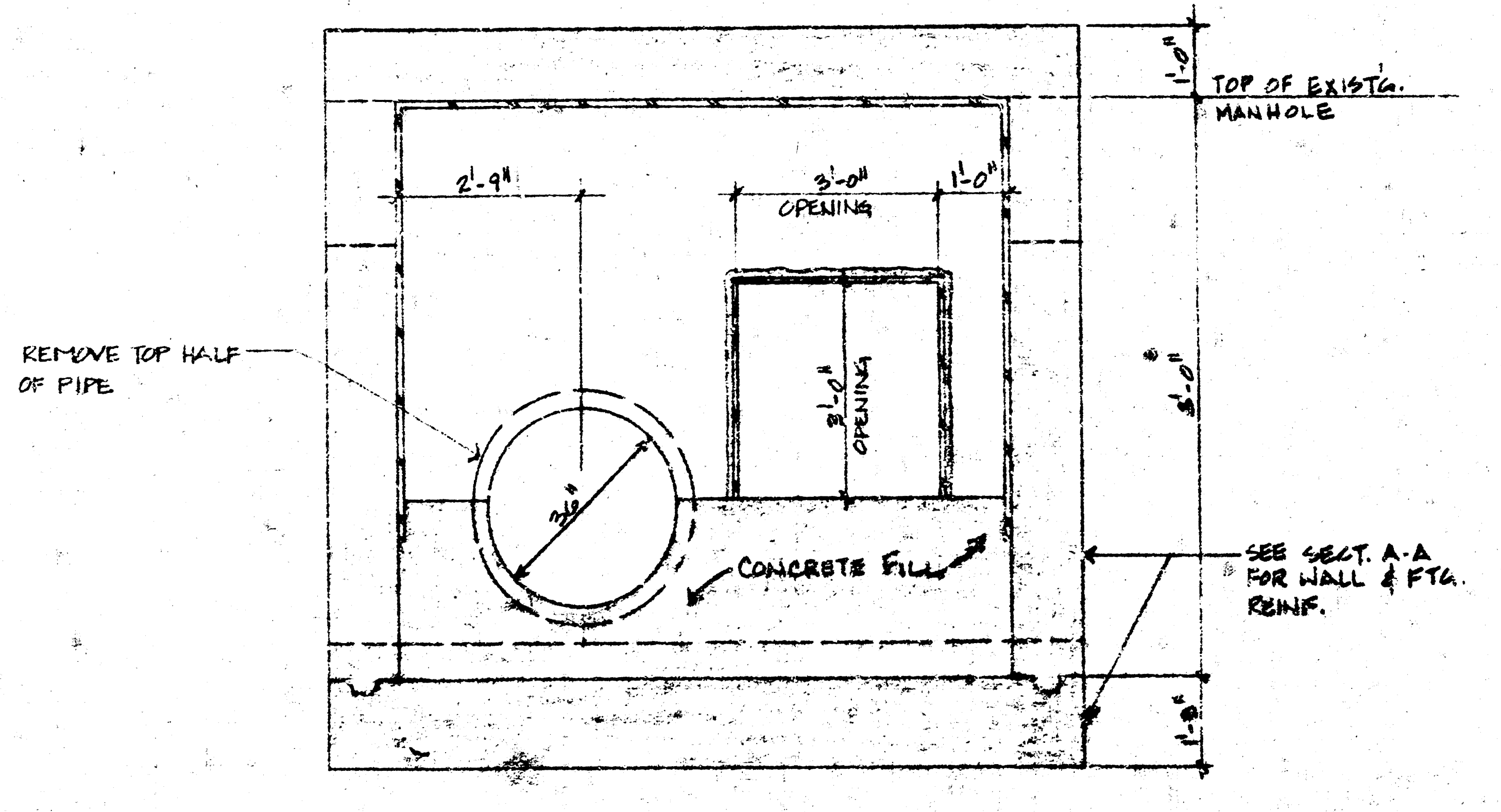

11'-0"
1'-0"
2'-0"
5'-0"
2'-0"
1'-0"
1'-0"
2'-0"
7'-0"
12-#6 @ 4" O.C. BOTT.
4-4-#6 x 8-10 BOTT. BETWEEN OPNGS.
1'-0"
#5 @ 7½" O.C. BOTT.
#5 @ 12" O.C. BOTT.
8'-0" EXIST'G. MANHOLE

PLAN
MANHOLE

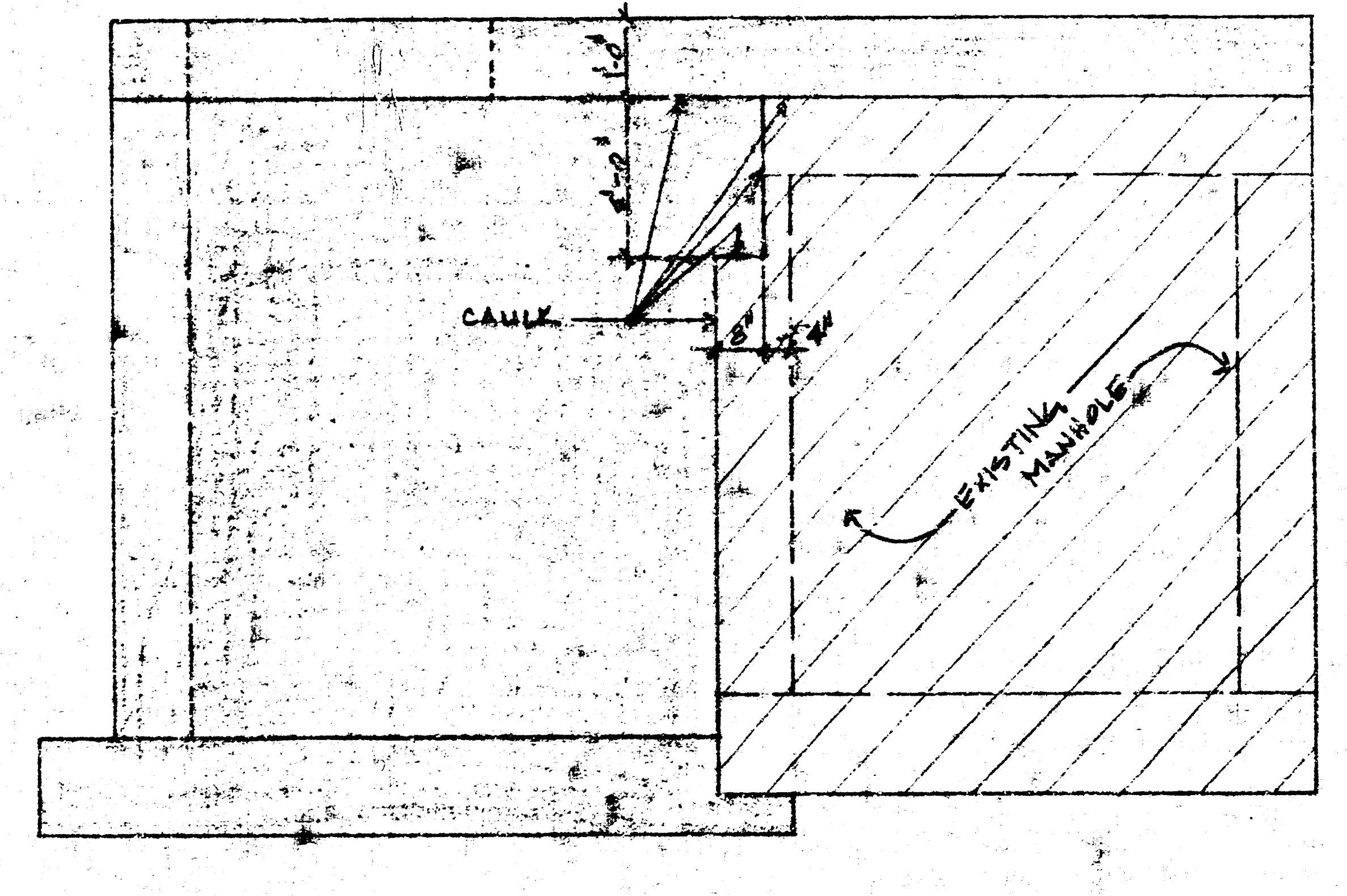
QUANTITIES

STRUCTURAL CONCRETE – 17.83 CU. YDS.
(NOT INCLUDING STACKS)

PLAIN CONCRETE FILL (INVERT) = 4.91 CU. YDS.


1'-0"
TOP OF EXIST'G. MANHOLE
2'-9"
3'-0" OPENING
1'-0"
REMOVE TOP HALF OF PIPE
36"
3'-0" OPENING
8'-0"
CONCRETE FILL
SEE SECT. A-A FOR WALL & FTG. REINF.
1'-8"

SECTION B-B
MANHOLE


1'-0"
2'-0"
CAULK
8"
4"
EXISTING MANHOLE

SECTION C-C WALL ELEVATION
MANHOLE

HARTWELL - JANTZ ENGINEERING
357 LULU
WICHITA, KANSAS 67211

RICHARD HARTWELL
1809

REINFORCED CONCRETE
STRUCTURAL DETAILS

SCALE: 1/4" = 1'-0"
DATE: 4-10-80
APPROVED BY:
DRAWN: [illegible]
CHECKED:
BY: HARTWELL - JANTZ ENGINEERING
SHEET 4/4

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