

Lot 1 - B1K 1

Lot 2 - B1K 1

Sta. 5+43.75' Lt-Connect
to Exist. Manhole. Regrade
Top to Elev. 92.63

Scale: Horiz. 1"=20'
Vert. 1"=5'

Sta. 8+75' Const. 3-Type 1-A Curb
Inlets. Install 95 L.F. 18" R.C.P.
Connect 5' W Inlets with 4 L.F.
15" RCP. See Sh. 10. W=3'-10"

AVE.

HYDRAULIC

Sta. 0+00 Tulsa St =
Hydraulic Ave.

Sta. 5+02.6 40' Lt Const
3-Type 1-A Curb
Inlets. Top
Elev. 93.6. Install
5' Stubs SW & SE

BM "M" in Mueller Fire Hydrant @
NW Cor. Hydraulic & Tulsa. El. 94.39

Sta. 5+40.6 40' Rt. 2-Const
Std. Type A or C Manhole
with 6' Stubs SW & SE
See Profile Below Lt.

PIPE GRADES

Inlet No	To Inlet No	Grade
1	2	5.20%
2	3	5.70%
2	5	0.94%
4	5	9.80%

INLET SCHEDULE

Inlet No	Top El.	"H"	El. in	El. in
1	91.95	4'-0"		
2	91.42	4'-9"	8763-E	8763-W
3	91.39	4'-0"		
4	91.45	4'-0"		
5	91.42	6'-9"	8717-W	86.92-N

Exist. Ground

Top Curb Lt & Rt - 0.32%

Sta. 8+75' Const. 2-Type 1A Curb
Inlets. Install 960 L.F. 24" RCP
Connect Inlet W. with 4 L.F.
15" RCP. See Sh. 10. W=3'-10"

Lot 2 - Bk 1

Sta 10+44-40' L & R
Const. Std. Type "A"
or "C" Manhole with
6" Stub NW & SE
See Profile Below Lt.

Lot 3 - Bk 1

Sta 13+64-40' L & R
Const. Std. Type "A"
or "C" Manhole with
6" Stub N. See Profile
Below Rt.

Scale: Horiz. 1" = 20'
Vert. 1" = 5'

Sta 13+45-Const. 3-Type 1A
Curb Inlets. Install 45 L.F.
24" RCP. Connect E & W Inlets
with 4 L.F. 15" RCP. See Sh. 10
W = 3'-10"

Sta 13+64-85' L & R
Connect to Exist.
Manhole. Regrade
Top to Elev. 89.69

TULSA

ST.

Sta 10+44-85' L & R
Connect to Ex. Manhole
Regrade top to El. 90.59

Sta 13+45-Const. 2-Type 1A
Curb Inlets. Install 53 L.F.
30" R.C.P. See Profile Below
Connect Inlet W. with 4 L.F.
24" RCP. See Sh. 10. W = 3'-10"

Chain Link Fence to be
Relocated along south
line of Tulsa St.

PIPE GRADES

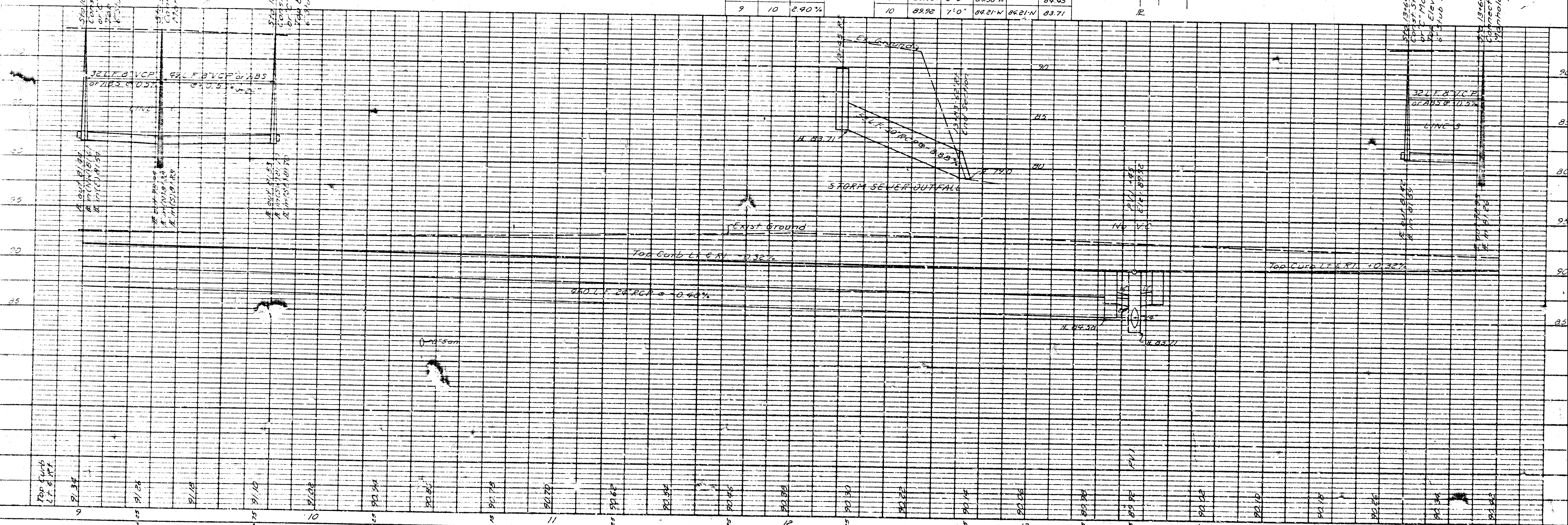
Inlet No.	To Inlet No.	Grade
6	7	7.20%
7	8	7.20%
7	10	1.96%
9	10	2.90%

INLET SCHEDULE

Inlet No.	Top El.	"H"	E. in	E. in	E. out
6	89.95	4'-0"			86.64
7	89.92	5'-6"	85.92-W	85.92-E	85.17
8	89.95	4'-0"			86.64
9	89.95	6'-3"	84.58-W		84.45
10	89.92	7'-0"	84.21-W	84.21-N	83.71

Sta 13+83-62' Rt. Install
30" End Section Outlet
with 20 S.Y. Dumped
Stone Riprap.

Lot 2 - Bk 2



Lot 5 - Bk. 1

Lot 1 - Greenbergs Add

Scale: Horiz. 1"=20'
Vert. 1"=5'

Warp Flowline of Curb
& Gutter from 0' Depth
to Railroad Spur to Normal
Depth in 20'

Sta. 22+11.69-30' Lt.
Const. Std. Type "A" or "C"
MH with 6" Stub SW

Remove Ex. Inlet
& 15" Pipe

Sta. 24+46.69-30' Lt.
Const. Std. Type "A" or "C" MH
with 6" Stub SW

Sta. 24+55.67 Lt.-Const.
Std. Type "A" Inlet. Install
4 L.F. 15" R.C.P. See Sh. 10

See Sh. 7 for San.
Sewer Details

Sta. 24+64 & Regrade
Ex. Manhole to El. 91.74

Sta. 24+55.67 Rt.-Const.
Std. Type "A" Inlet. Install
4 L.F. 15" R.C.P. See Sh. 10

Sta. 24+64 Rt.-Const.
Std. Type "A" Inlet. Remove
Ex. Inlet & Extend Ex.
15" R.C.P. to Connect New
Inlet. See Sh. 10

Sta. 24+91.2-22 Rt.
Remove Ex. Inlet &
Const. Std. Type "A" or
"C" Manhole on Ex. 24"
Sewer. Top El. 91.7
See Sh. 8 & 9

BM - Spk in S Face PP, 175' N & 23' E
N.W. Cor. Greenbergs Add - El. 94.33

Lot 4 - Bk. 2

Const. Conc. Underpinning.
See Detail Right

7" Conc. Base &
3" Asph. Overlay

Sta. 25+11.69 Madison
& Industrial Ave.

Remove & Replace
30 S.Y. Ex. Pavement
For Detail See Sh. 7

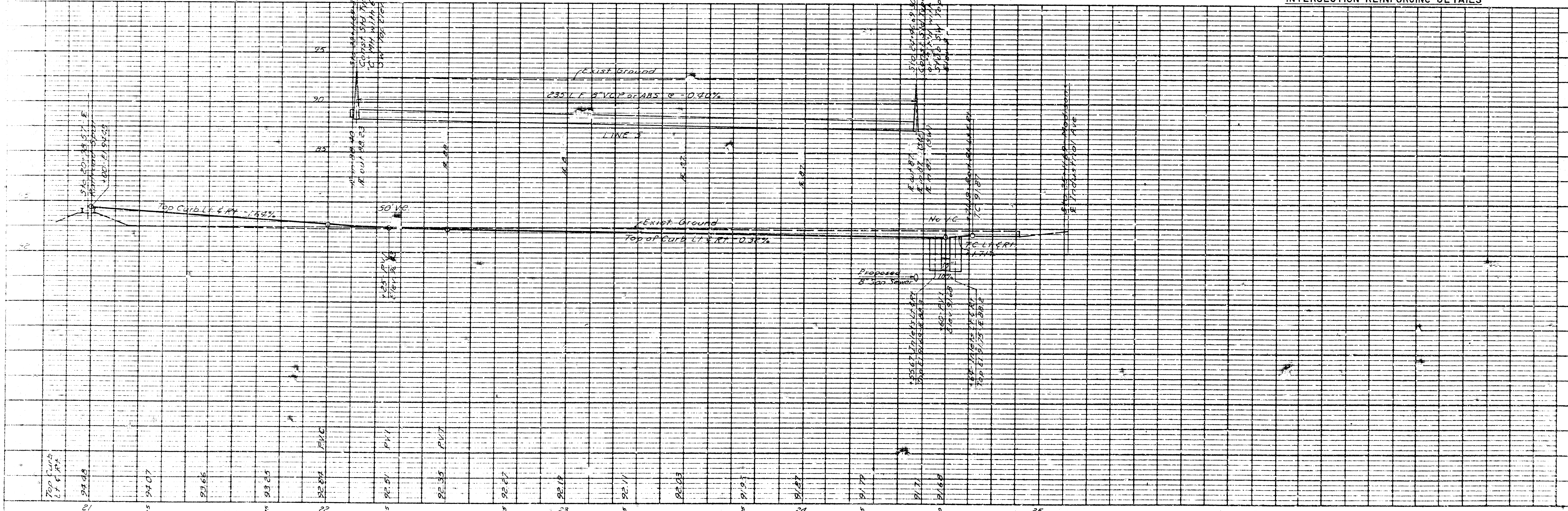
Remove Ex. Inlet
& 15" Pipe

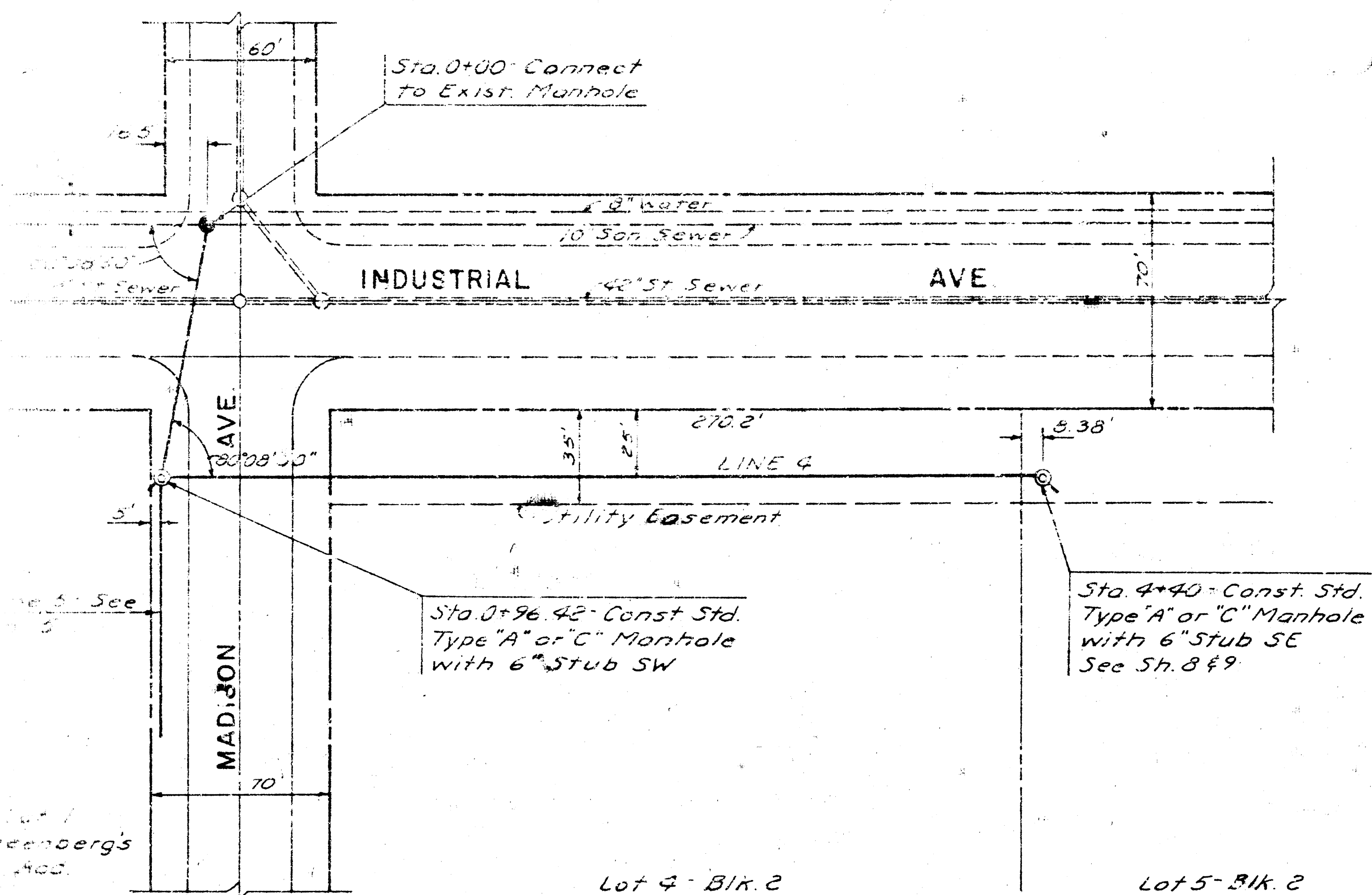
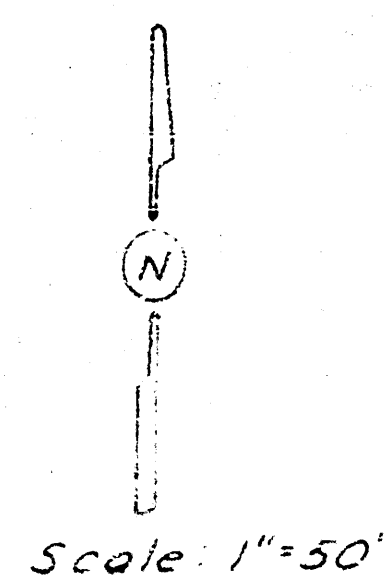
INTERSECTION REINFORCING DETAILS

CONC. UNDERPINNING DETAIL

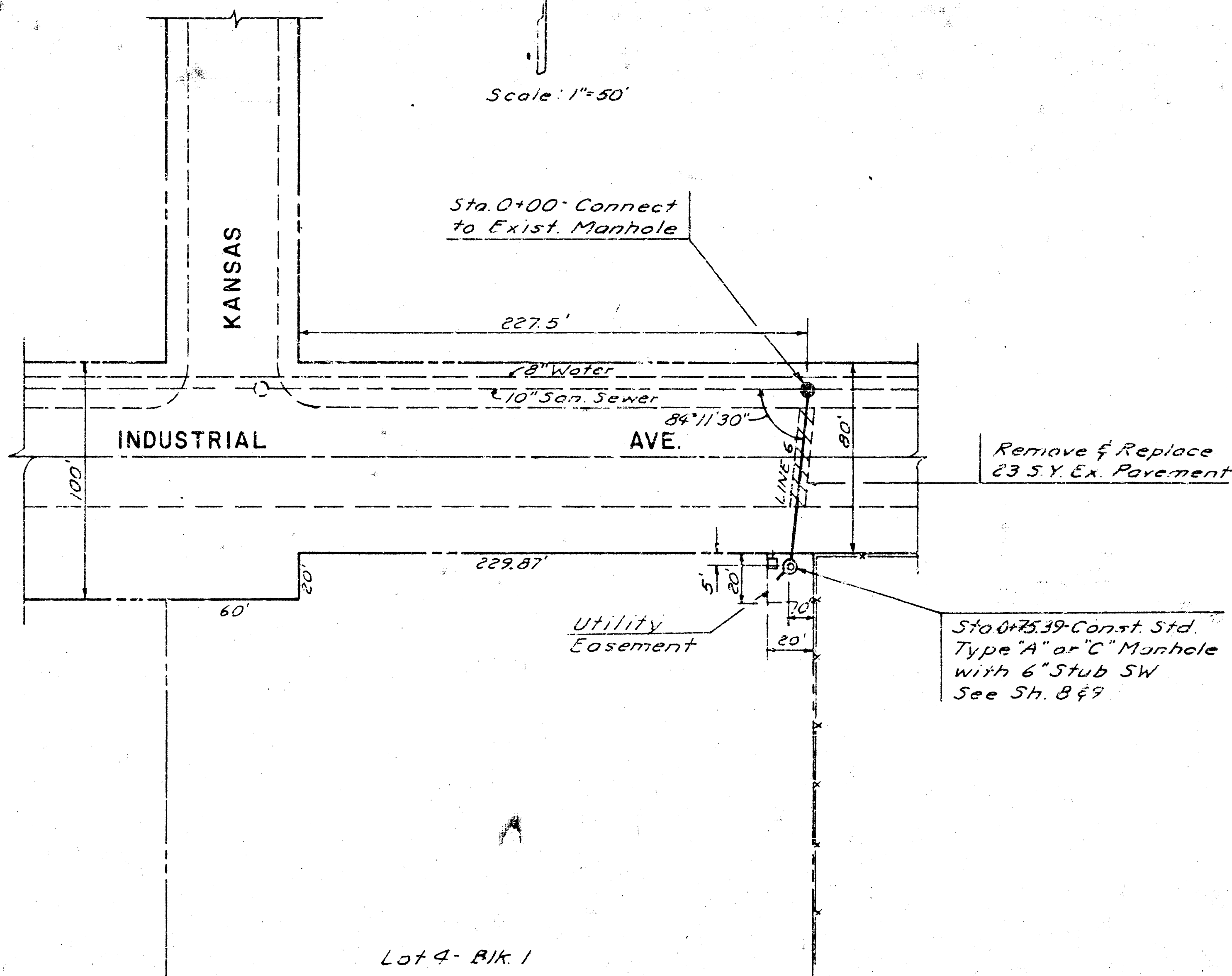
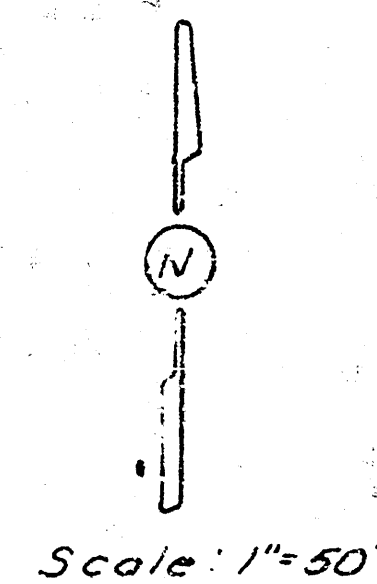
Note: All bars
unless otherwise
noted.

#4 bars = 90 L.
#6 bars = 273 L.

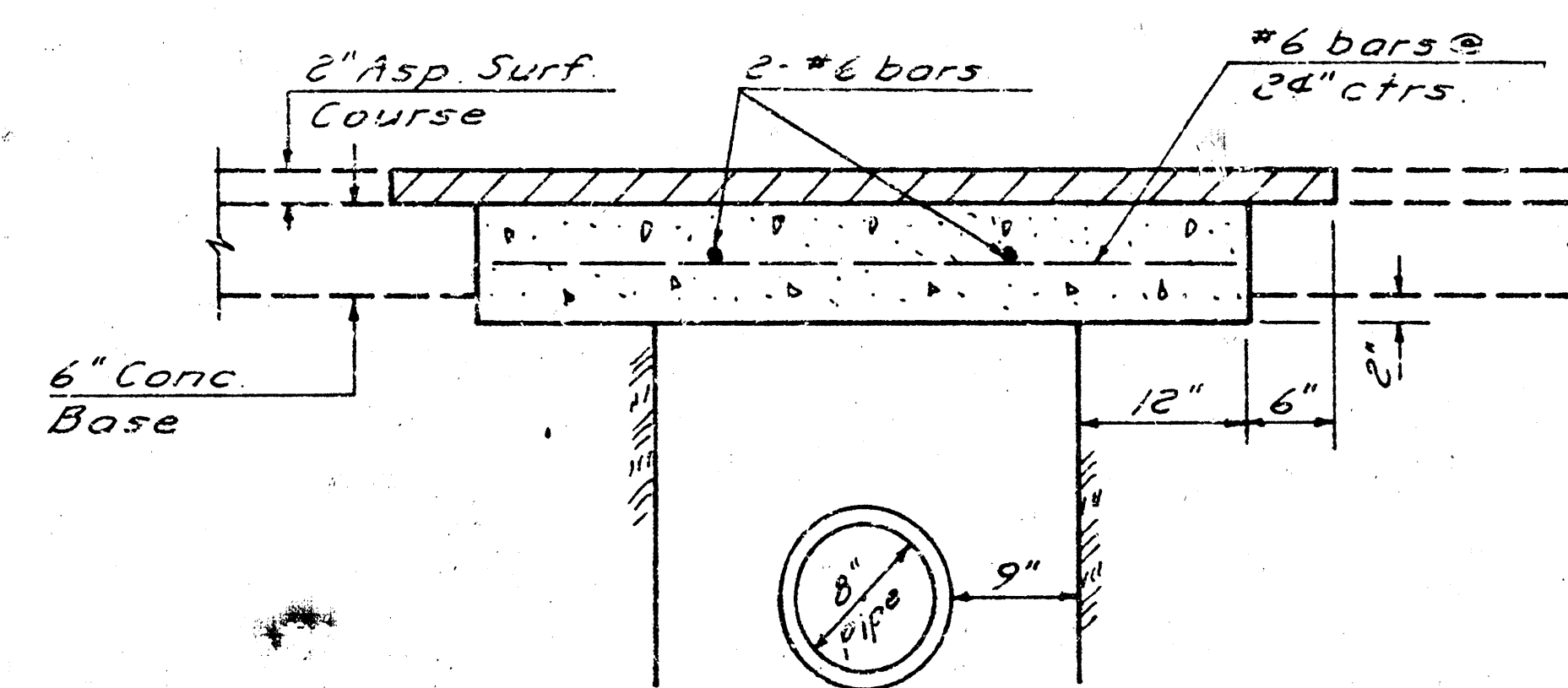




Lot 4 - Blk 2

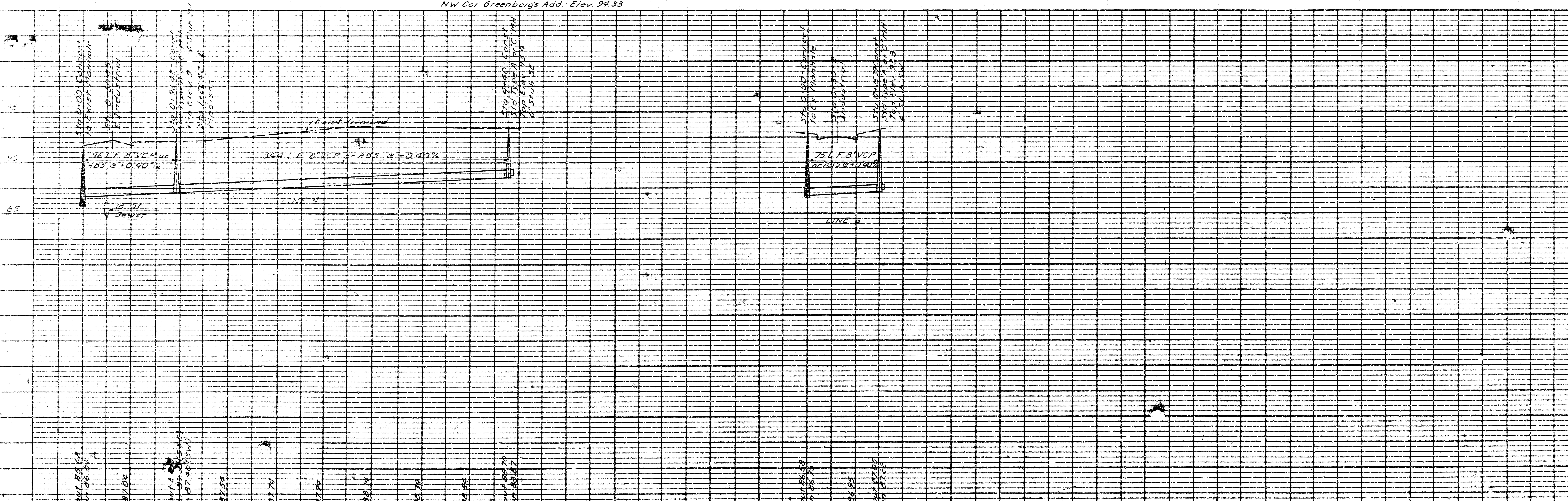


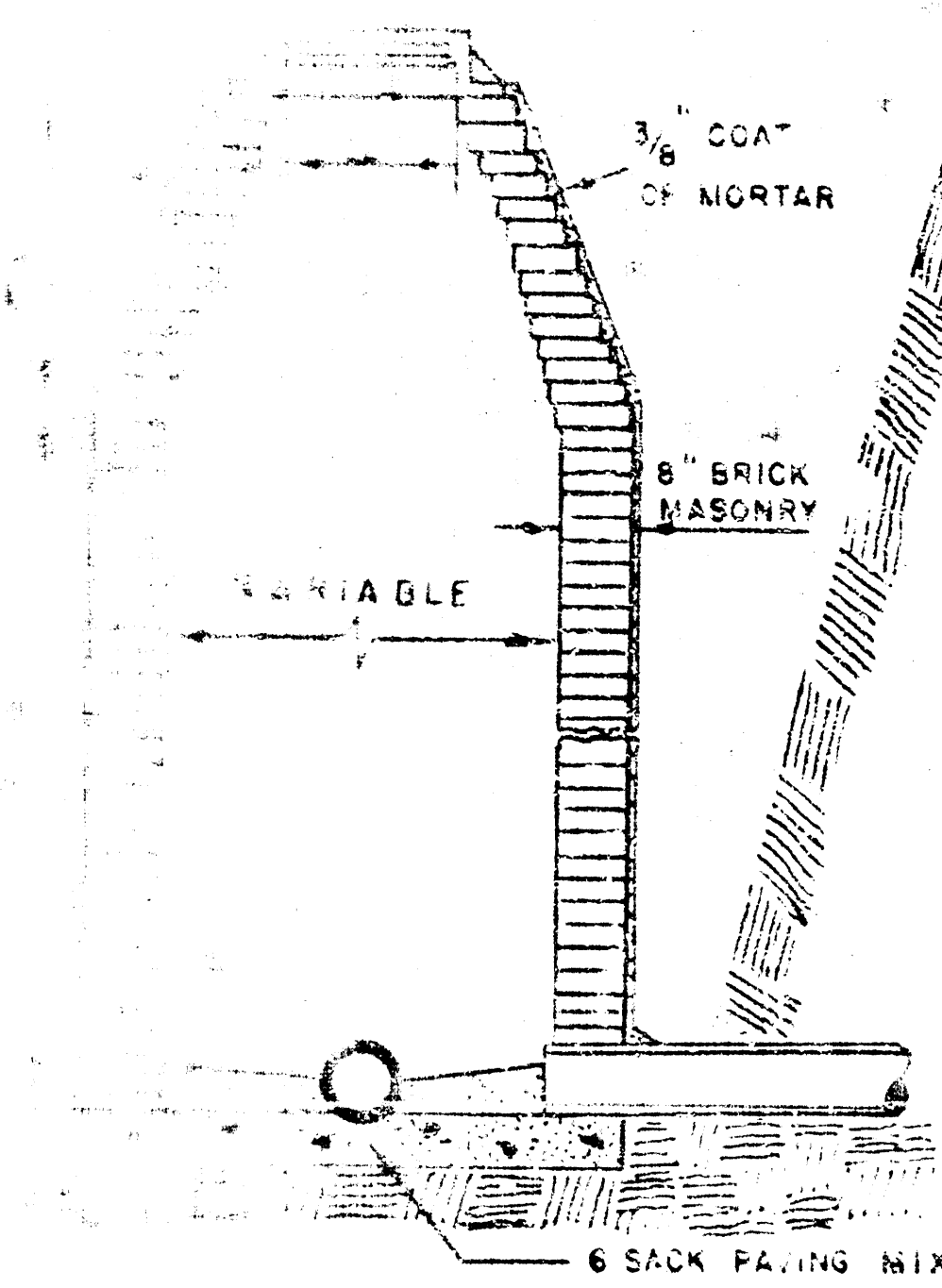
Lot 4 - Blk 1



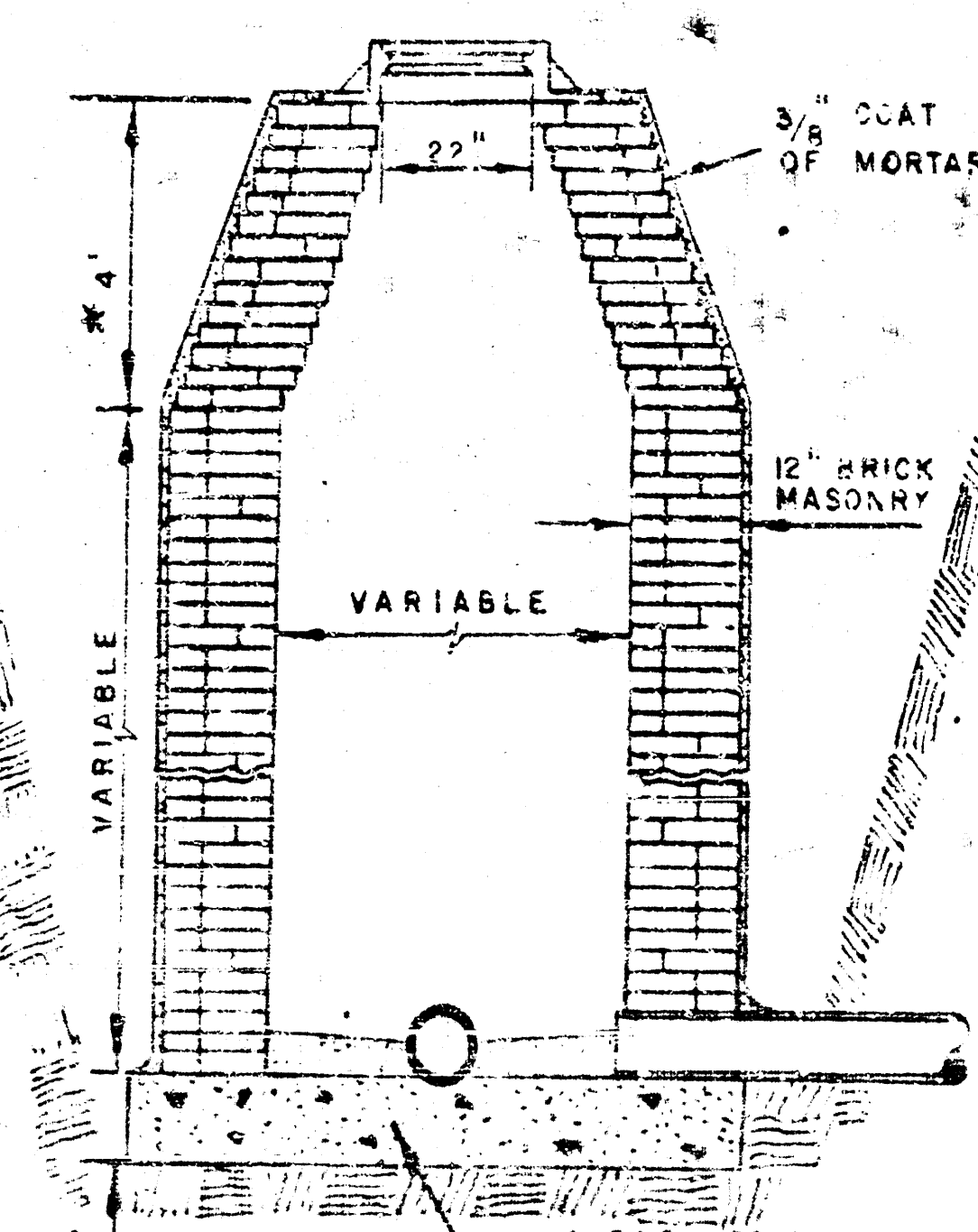
PAVEMENT CUT DETAIL

B.M. - Spk in S Face PP, 175' N & 23' E.
NW Cor. Greenbergs Add. Elev. 94.33

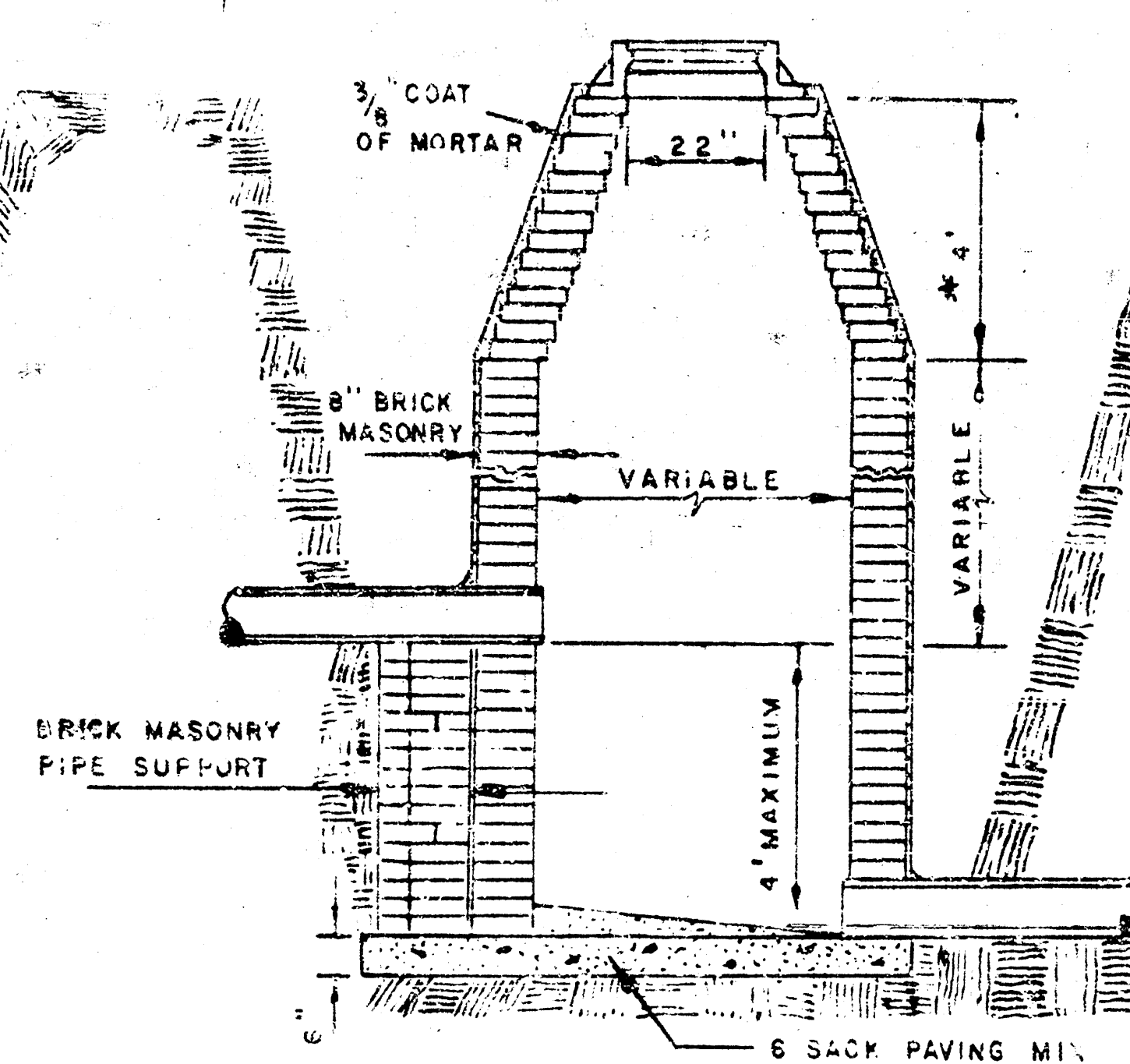




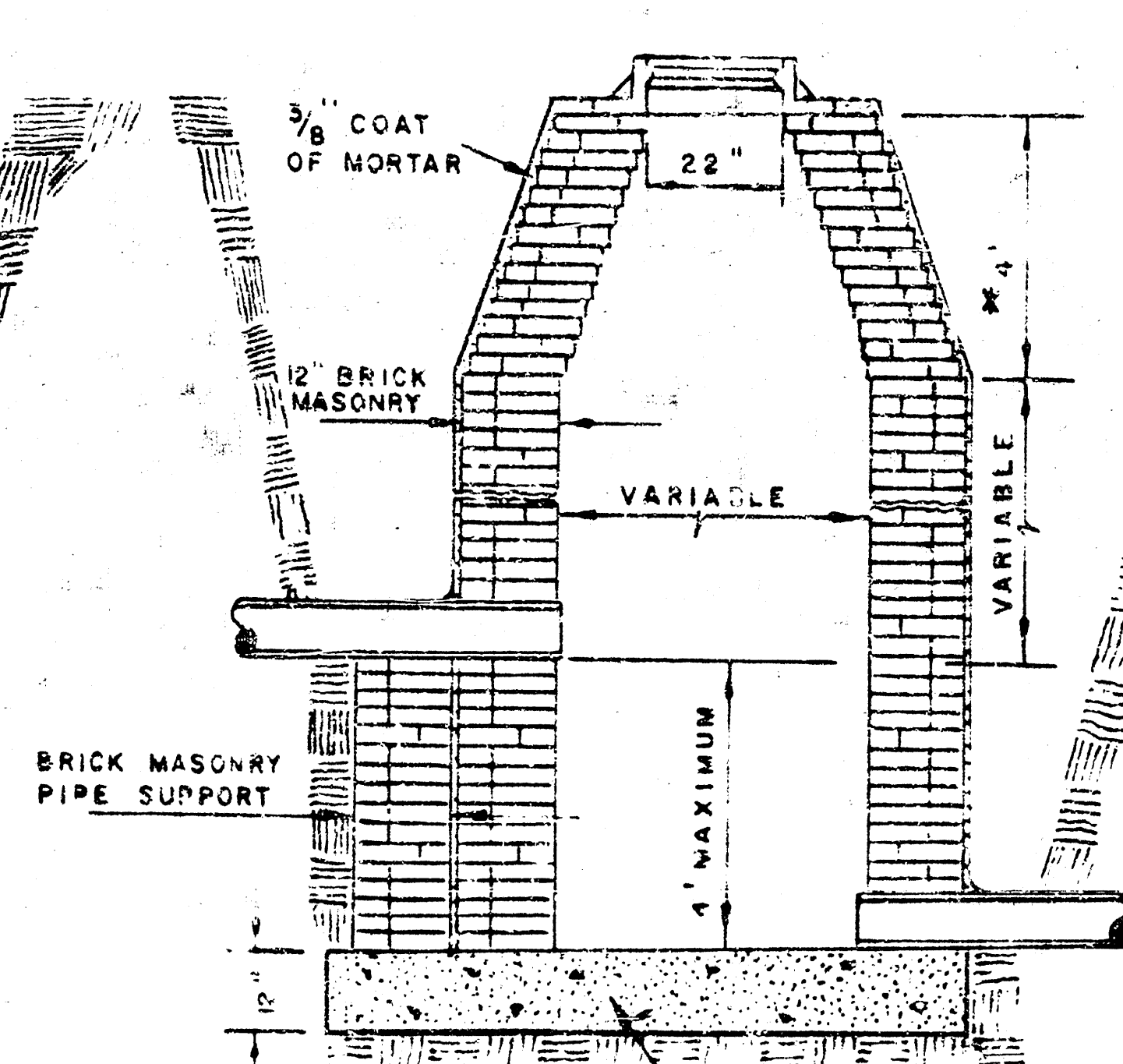
STANDARD MANHOLE
TYPE "A"



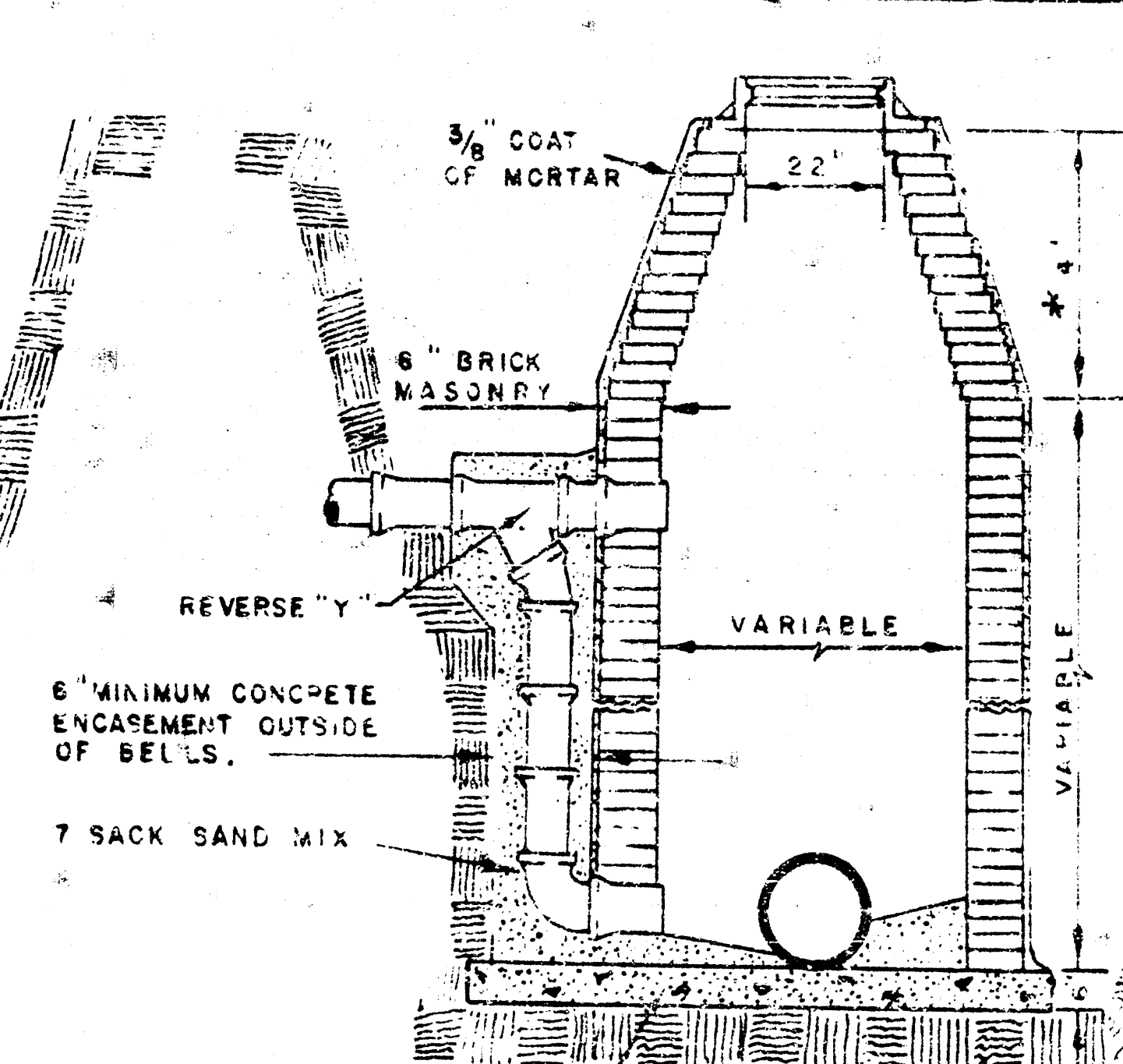
STANDARD MANHOLE
TYPE "B"



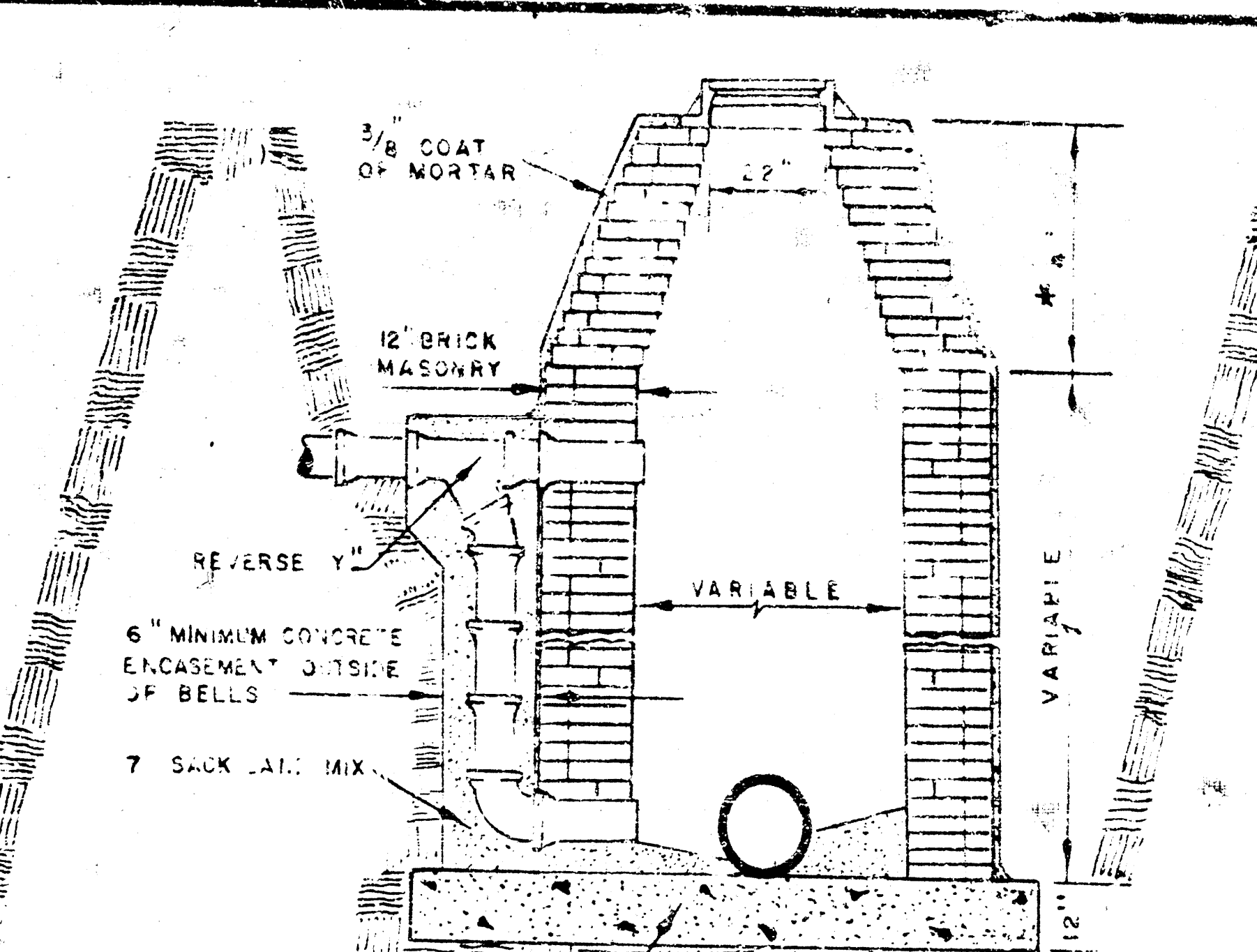
DROP MANHOLE
TYPE "A"



DROP MANHOLE
TYPE "B"

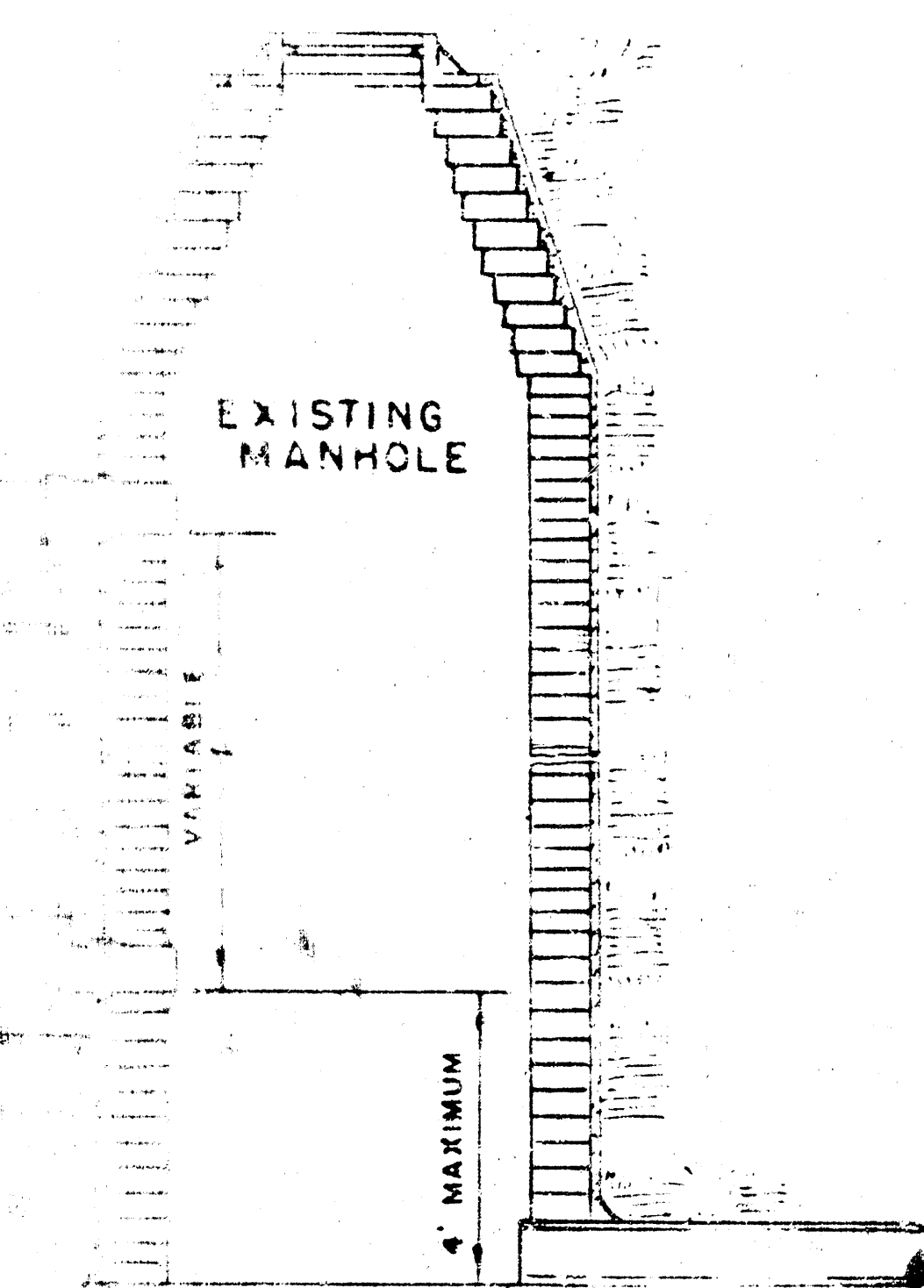


OUTSIDE DROP MANHOLE
TYPE "A"



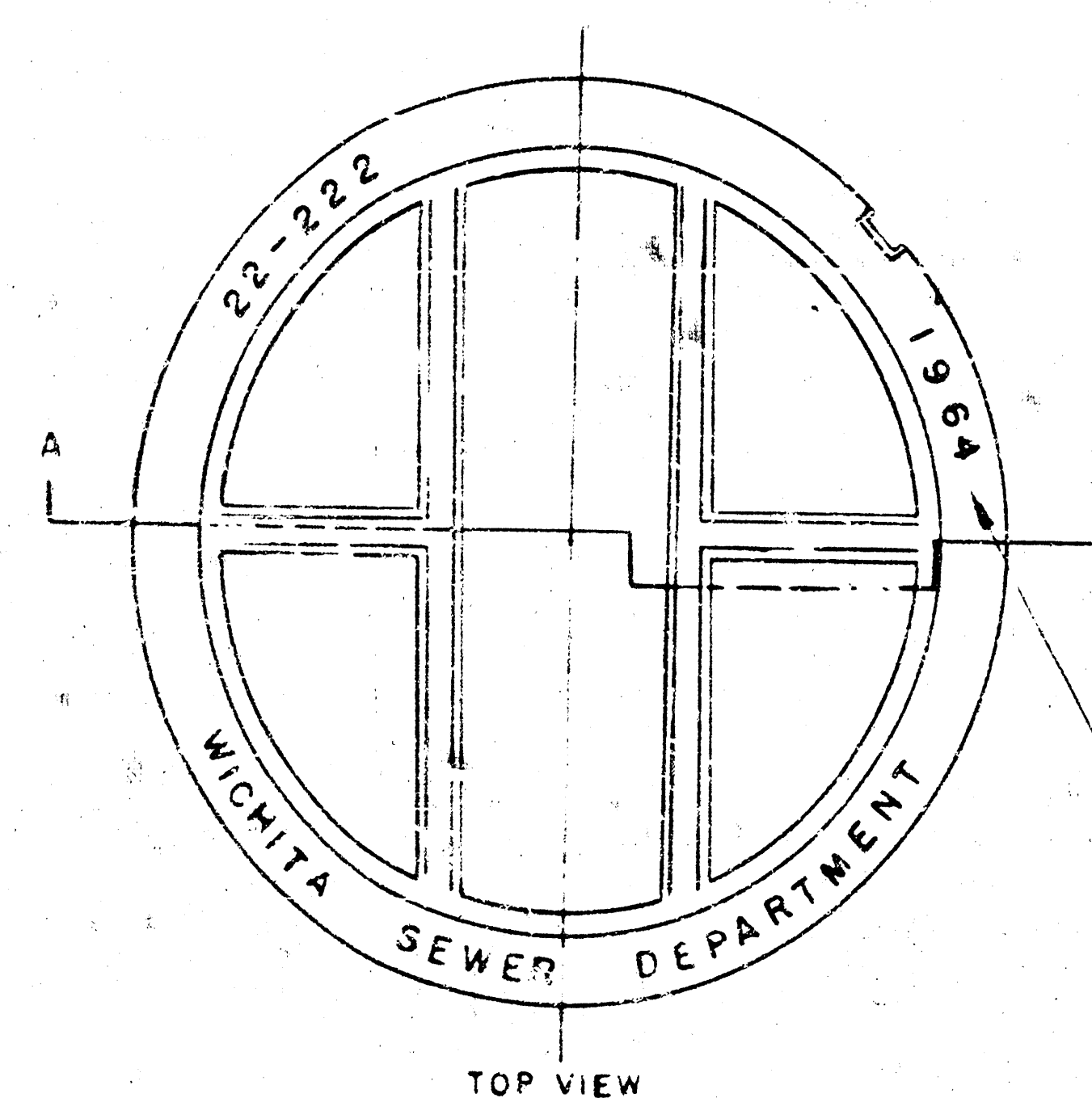
OUTSIDE DROP MANHOLE
TYPE "B"

* DRAW = 6' ON 5' DIA. M.H.

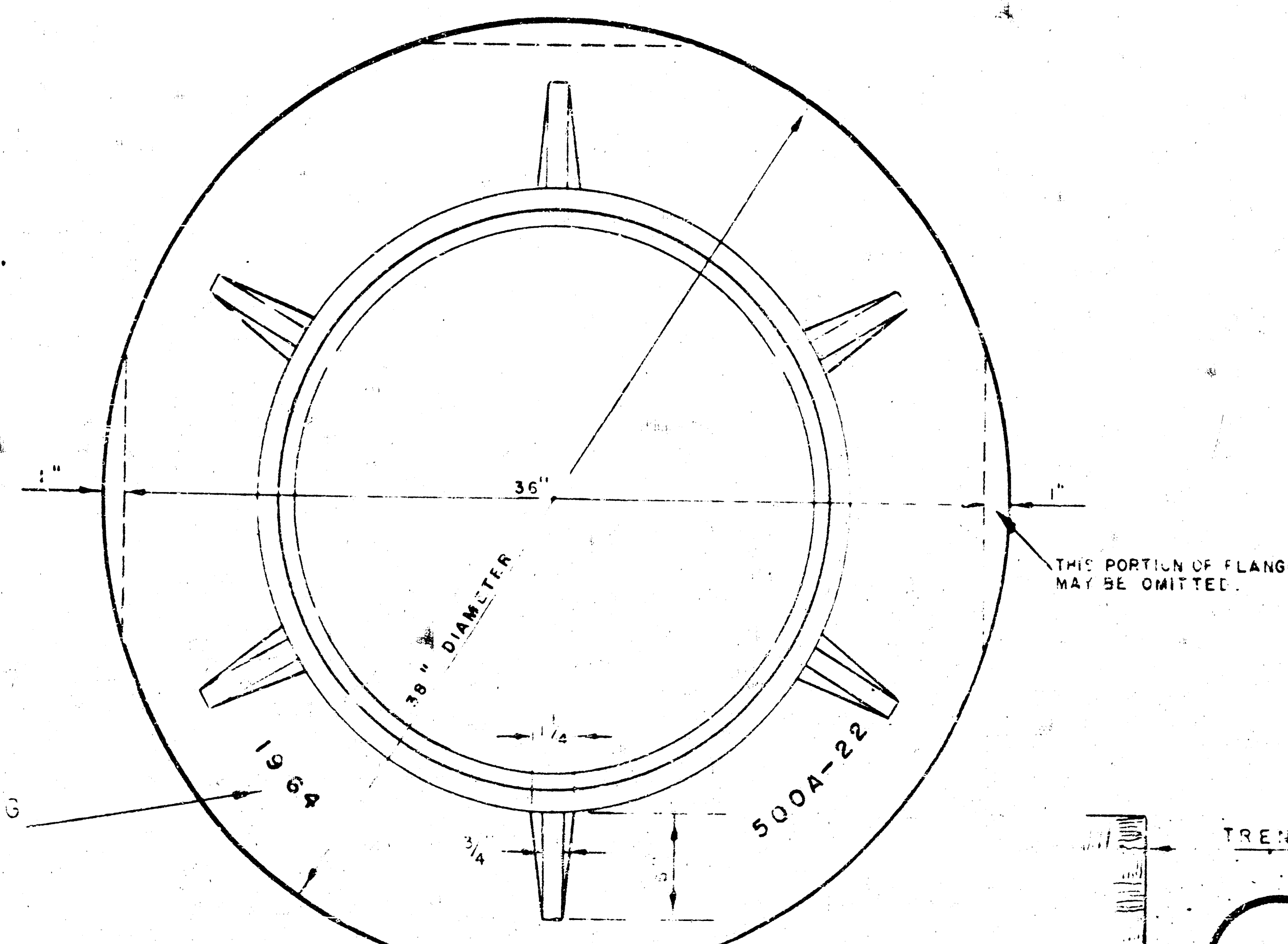


EXISTING MANHOLE

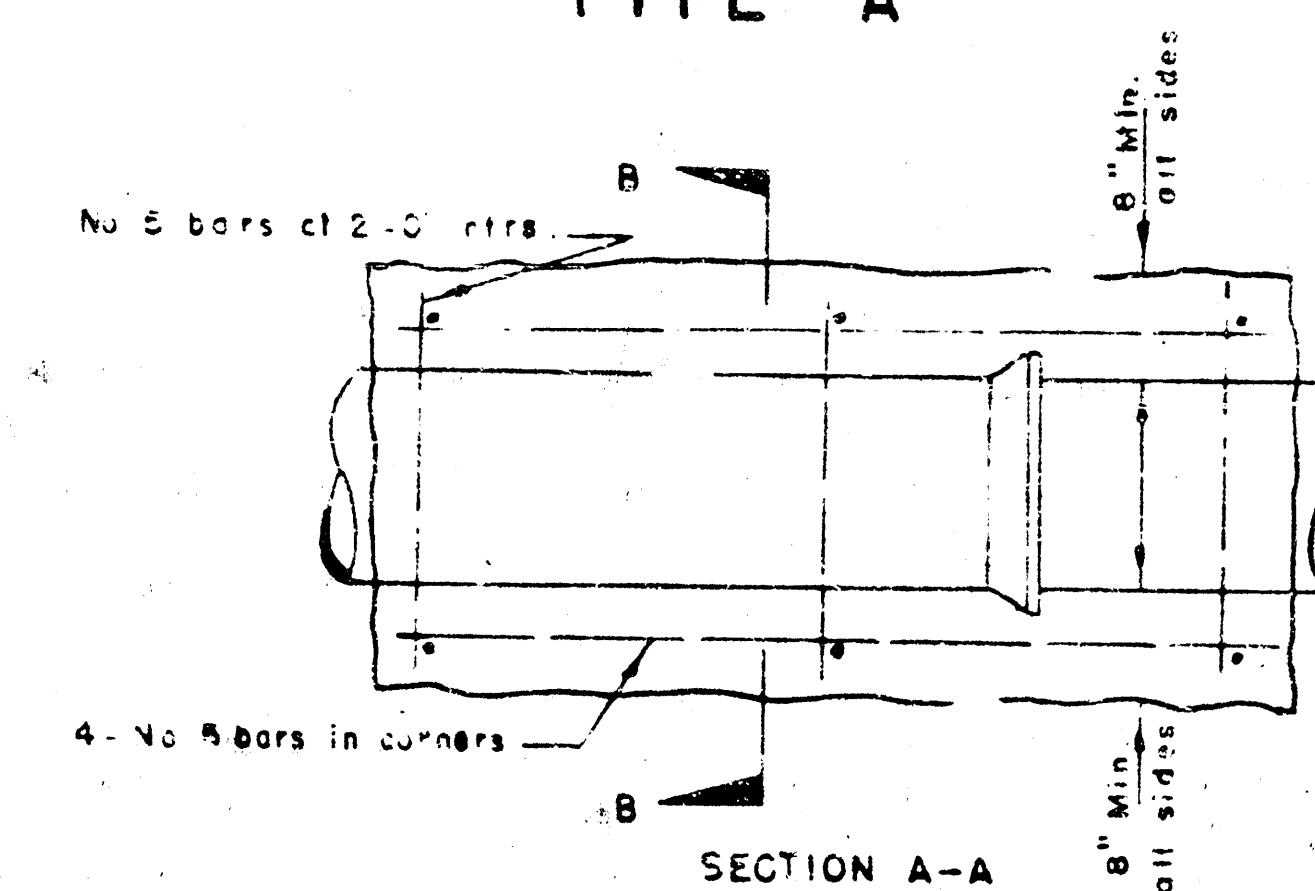
MANHOLES IN GROUND WATER



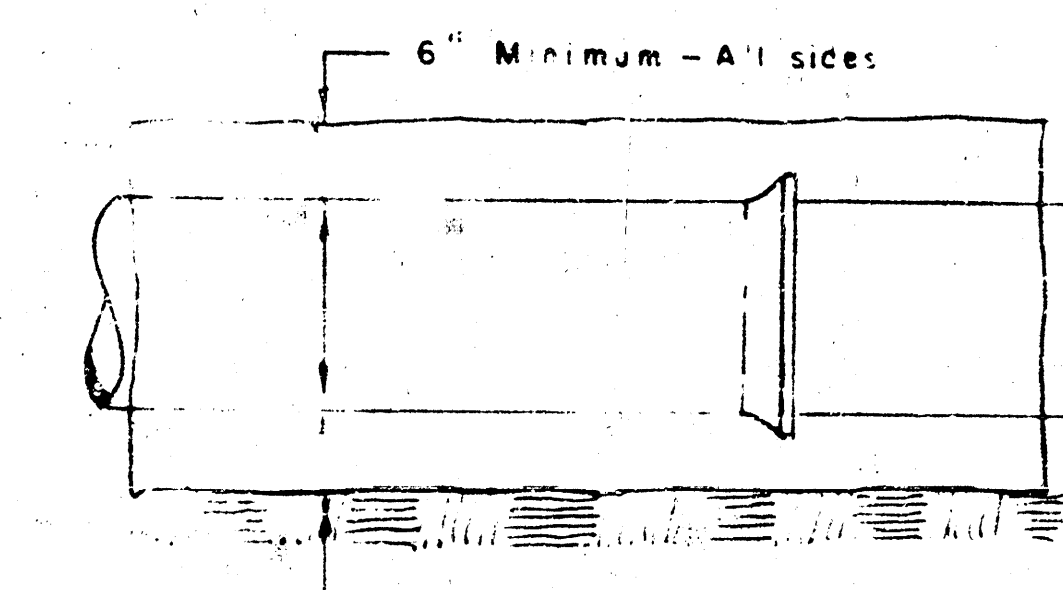
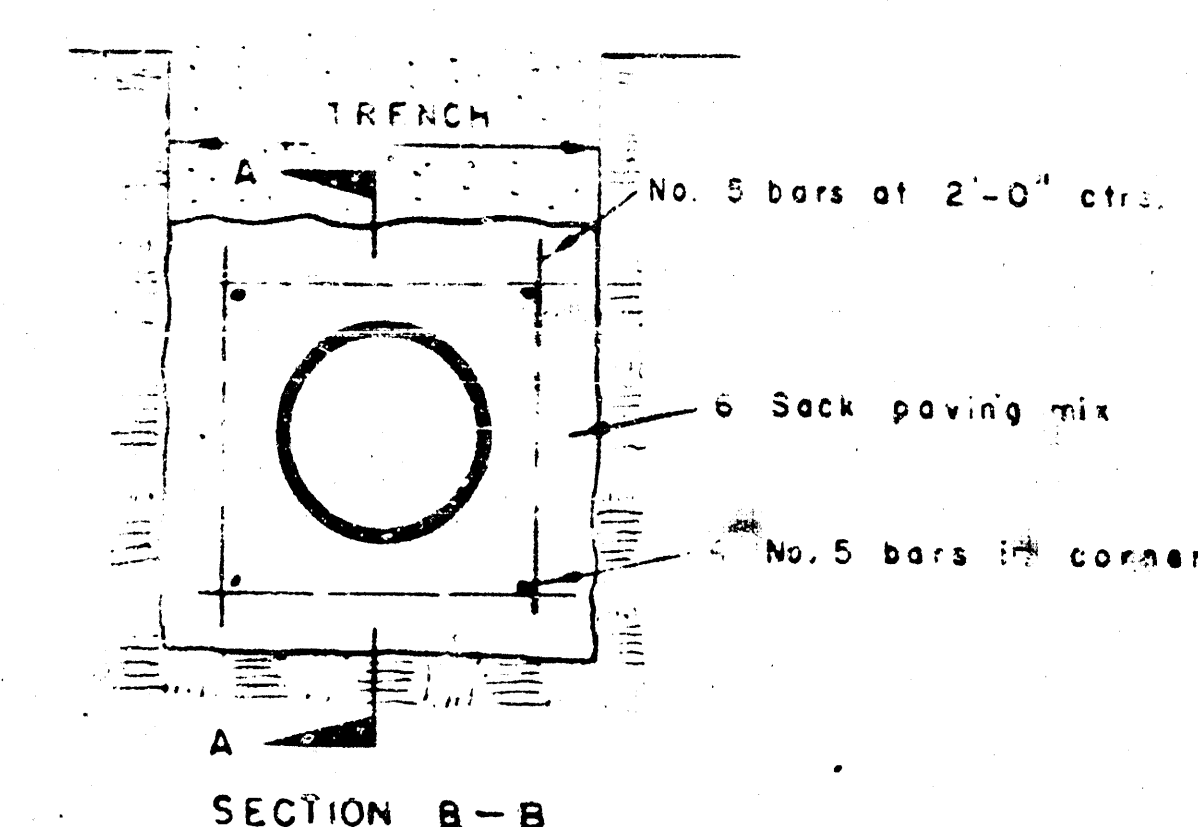
MANHOLE COVER
WEIGHT 110 LBS.



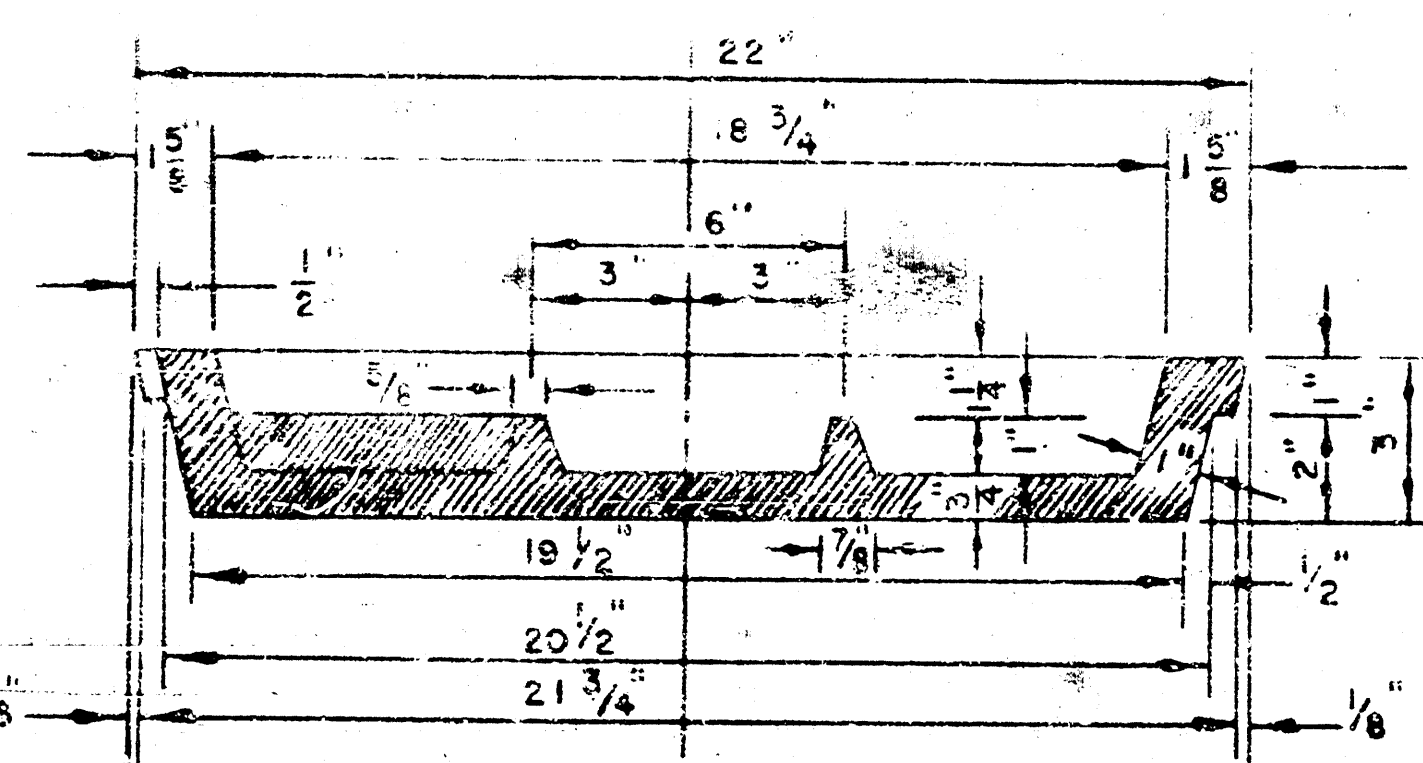
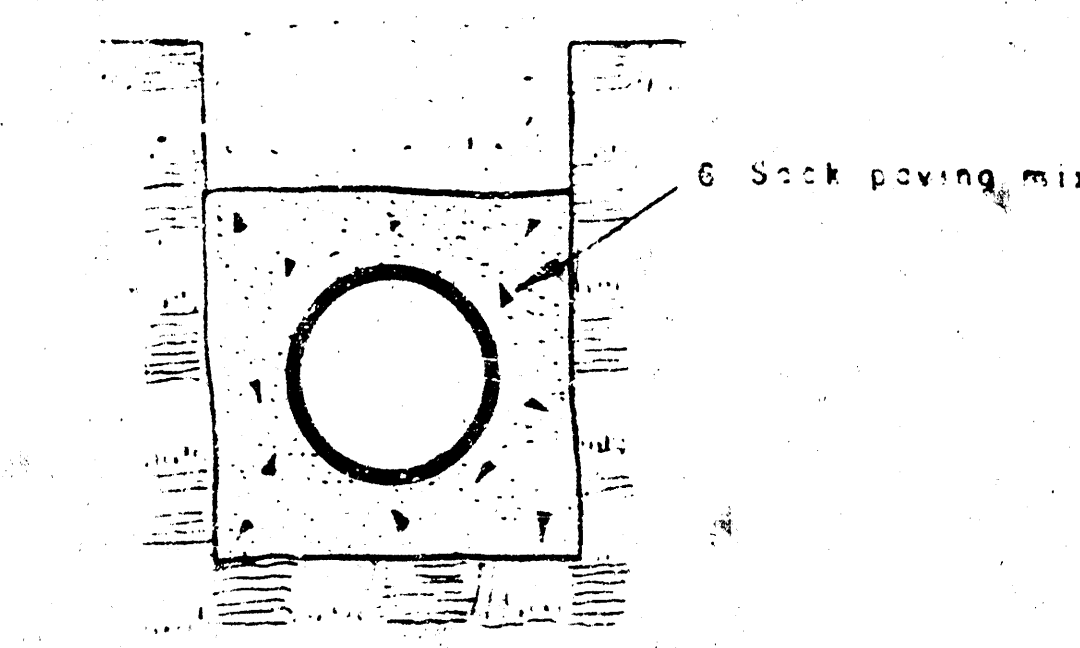
MANHOLE RING
WEIGHT 355 LBS.



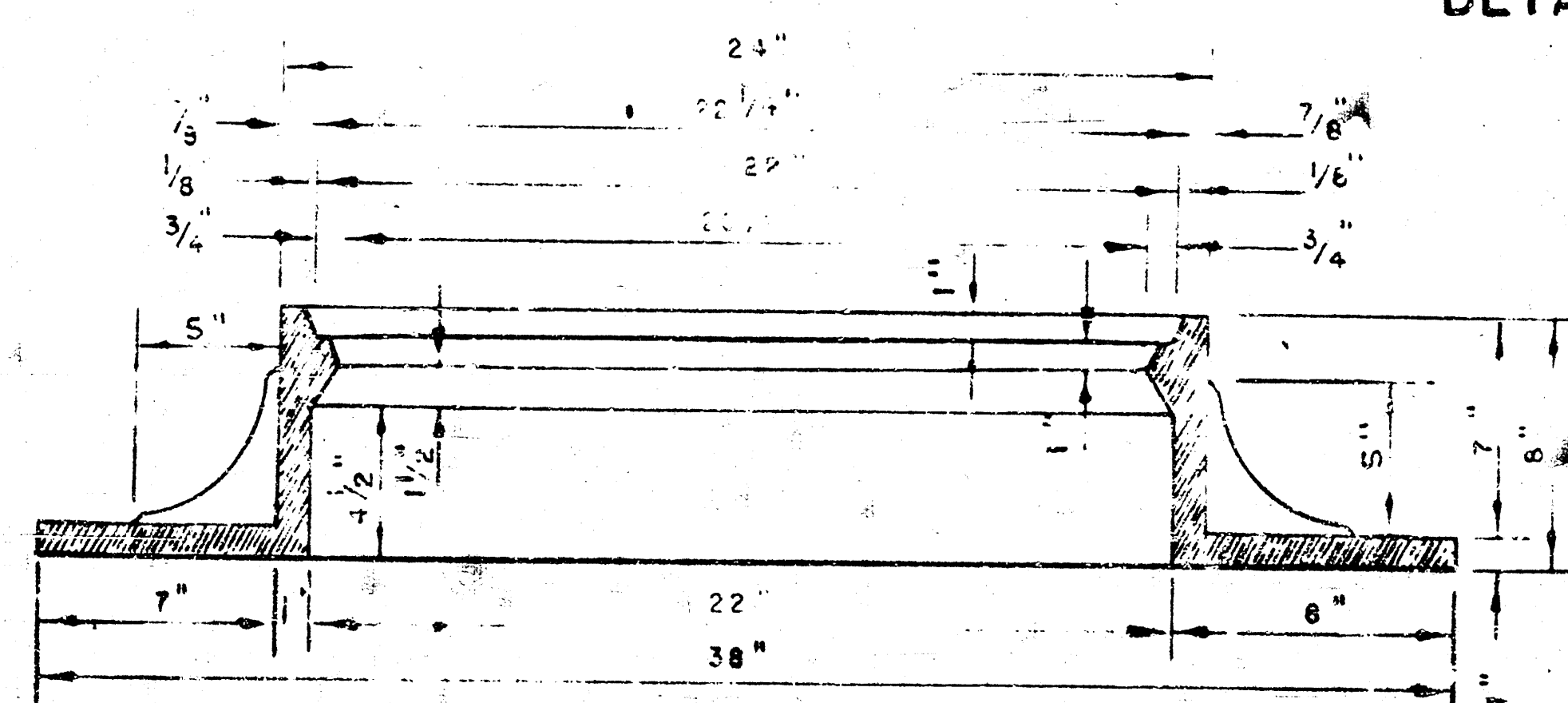
REINFORCED CONCRETE ENCASEMENT
FOR STRENGTH



CONCRETE ENCASEMENT
FOR COVER

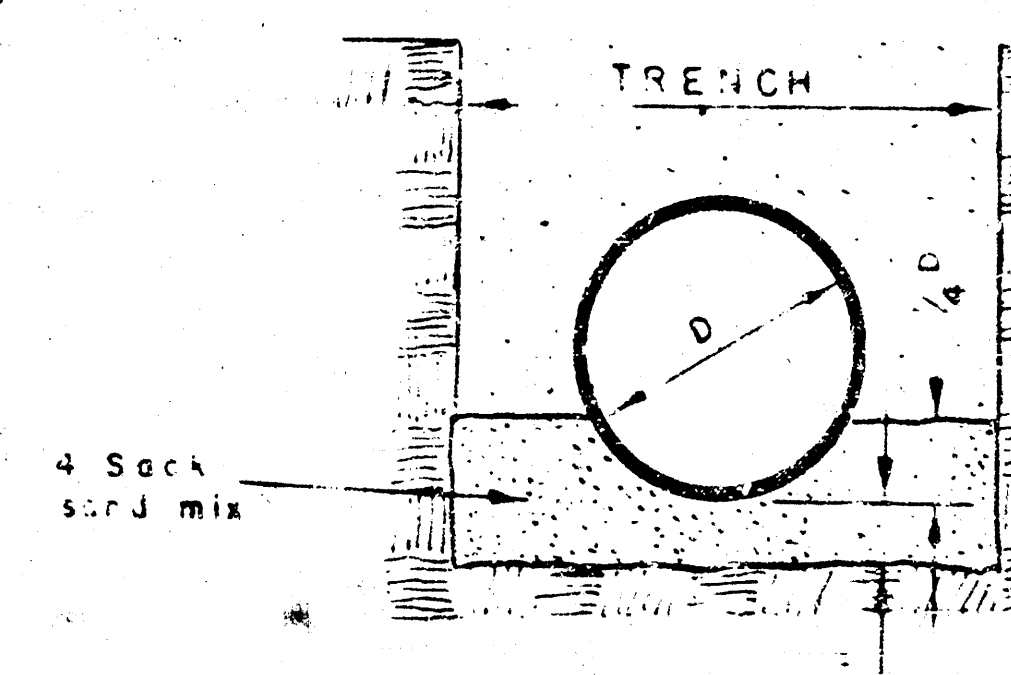


MANHOLE COVER

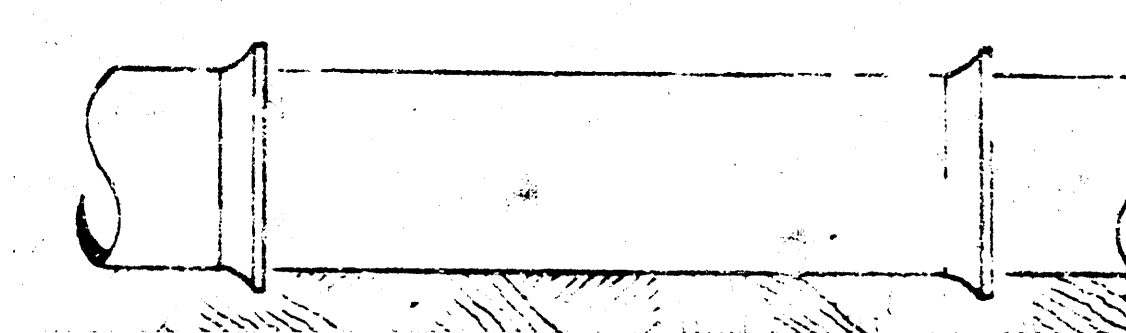


MANHOLE RING

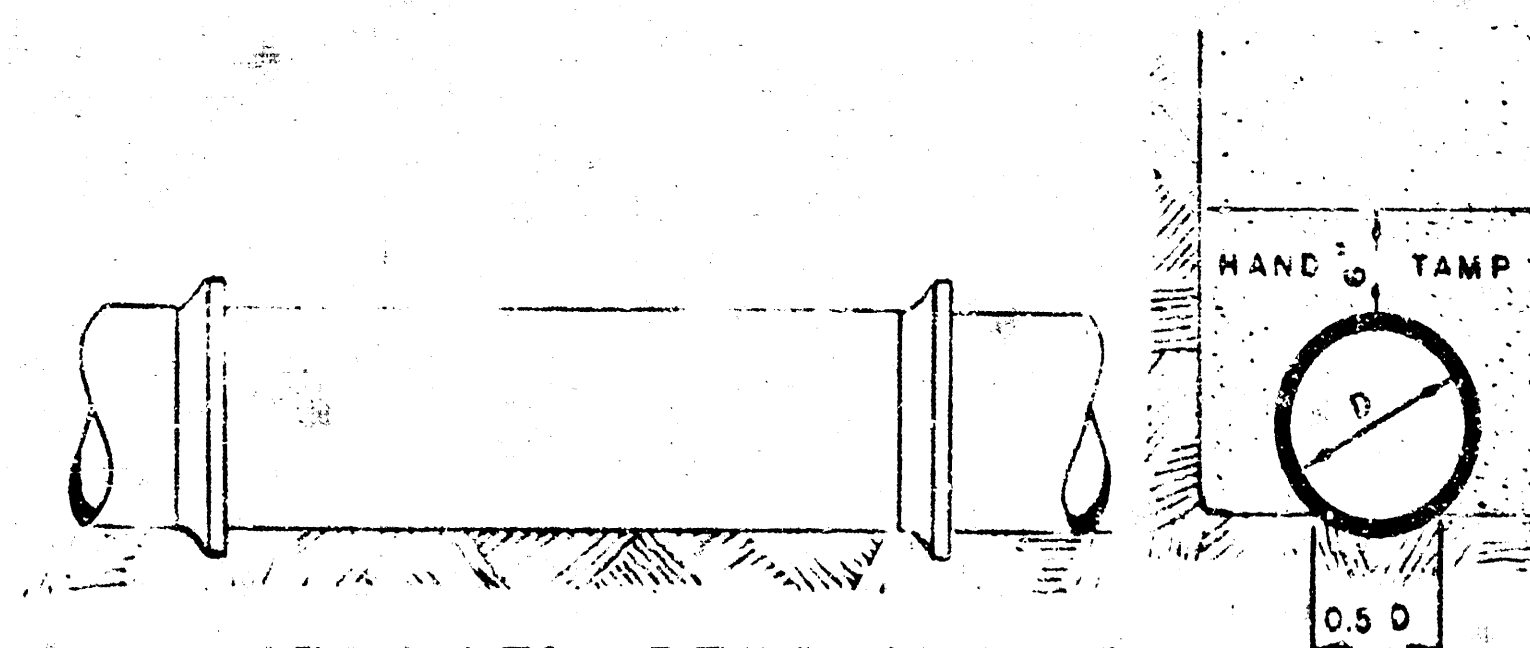
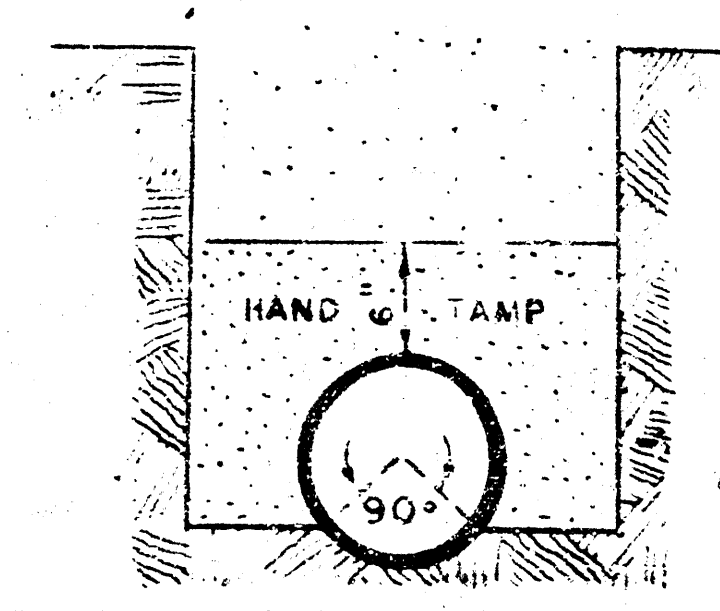
OUTSIDE CIRCUMFERENCE OF COVER
AND THE INNER FACE AND SEAT OF
RING TO BE MACHINE FIT.



DETAIL OF CONCRETE CRADLE



ORDINARY BEDDING METHOD
FOR CLAY PIPE



ORDINARY BEDDING METHOD
FOR REINFORCED CONCRETE PIPE

MANHOLES

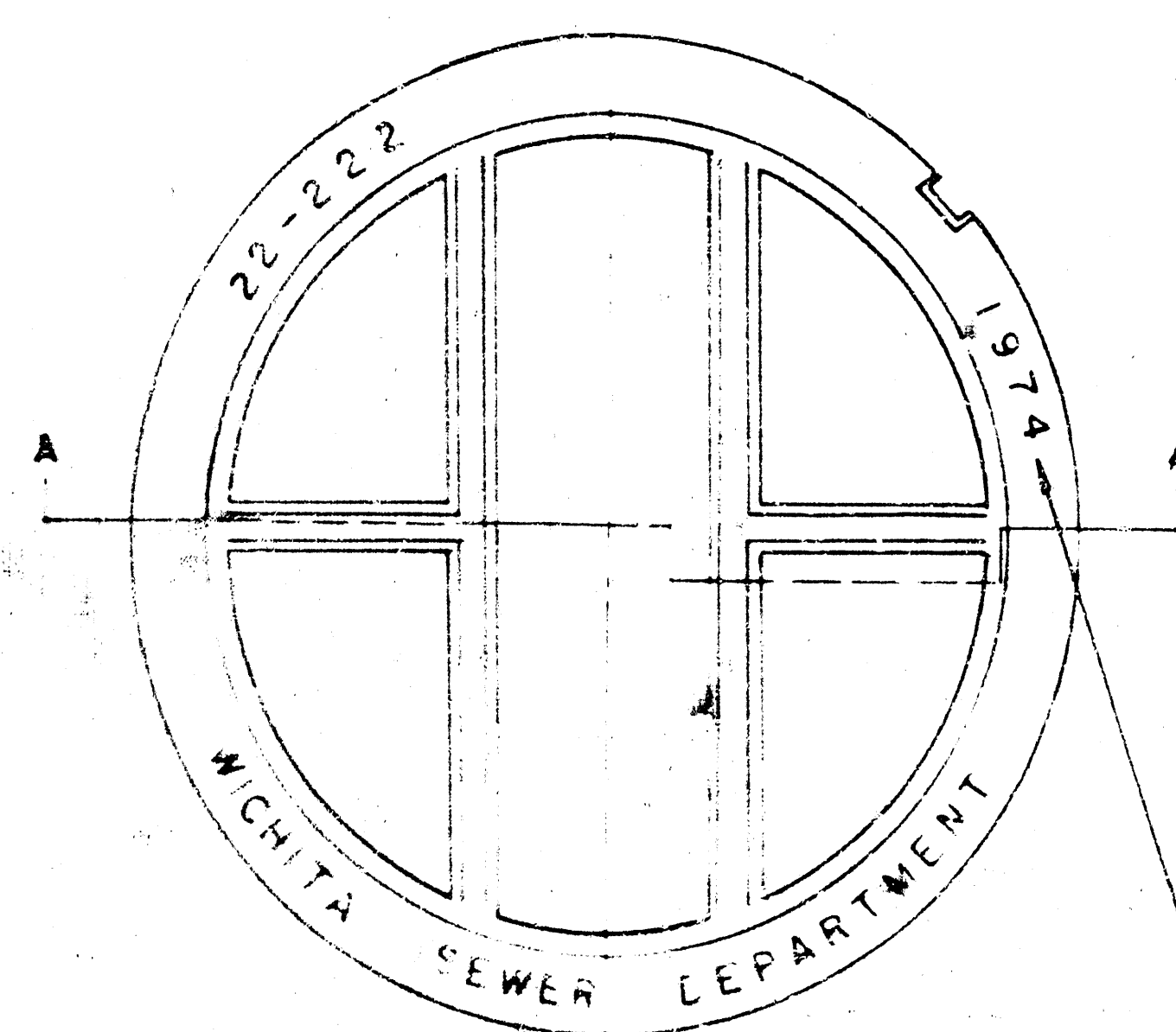
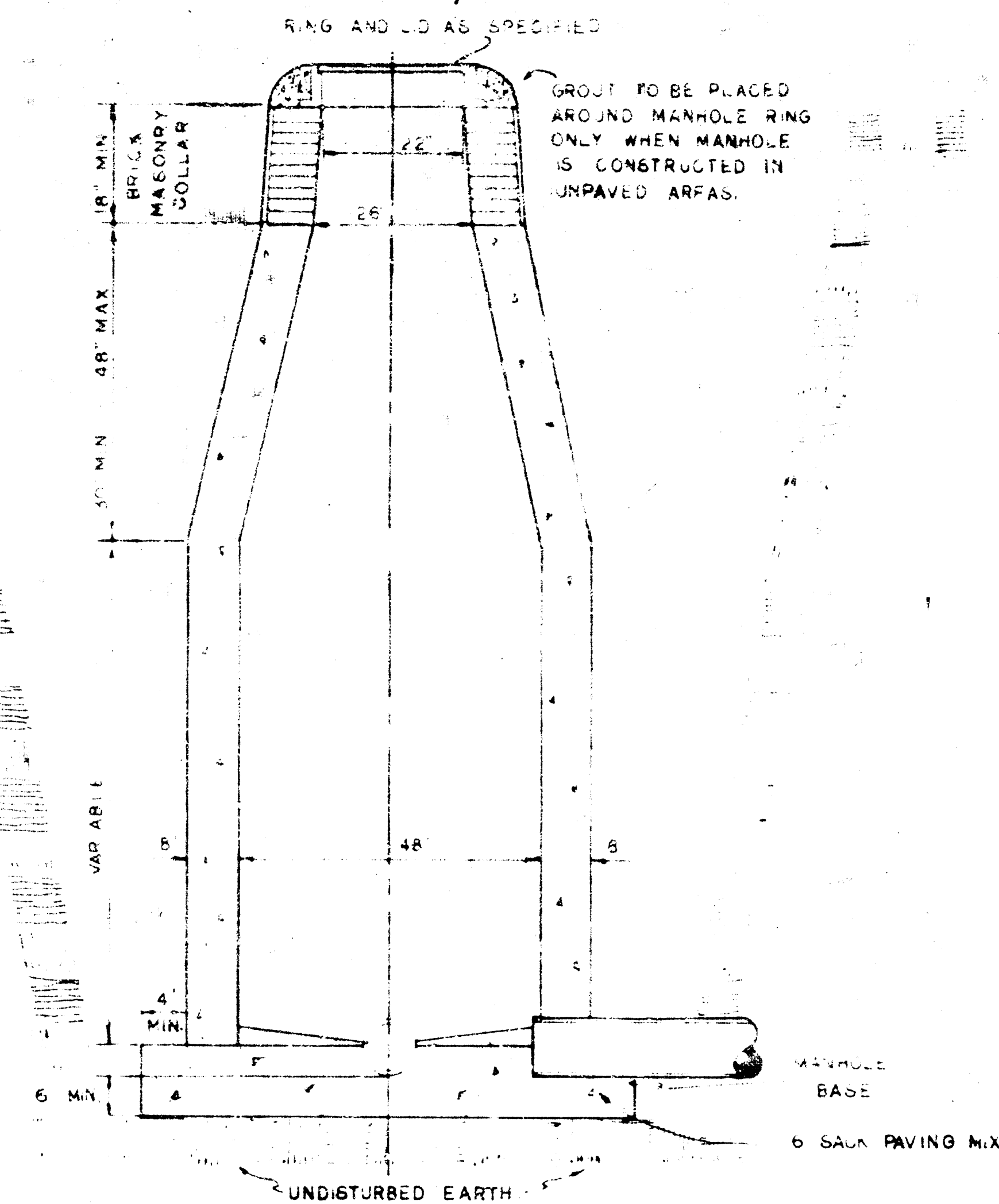
THE CONCRETE USED FOR MORTAR IN
MANHOLES SHALL CONTAIN 8 SACKS OF
CEMENT PER CUBIC YARD.
STANDARD MANHOLES AND DROP
MANHOLES, REGARDLESS OF DIAMETER,
SHALL BE BID AT ONE PRICE AS
STANDARD MANHOLES.

SINGLE OR DOUBLE OUTSIDE
DROP MANHOLES SHALL BE BID AT ONE
PRICE AS OUTSIDE DROP MANHOLES.
ALL MANHOLES WITH PIPES LARGER
THAN 24" SHALL BE 5' DIAMETER UNLESS
OTHERWISE SPECIFIED ON PLAN. ALL M.H.'S
WITH PIPES 24" & SMALLER SHALL BE 4' DIA.

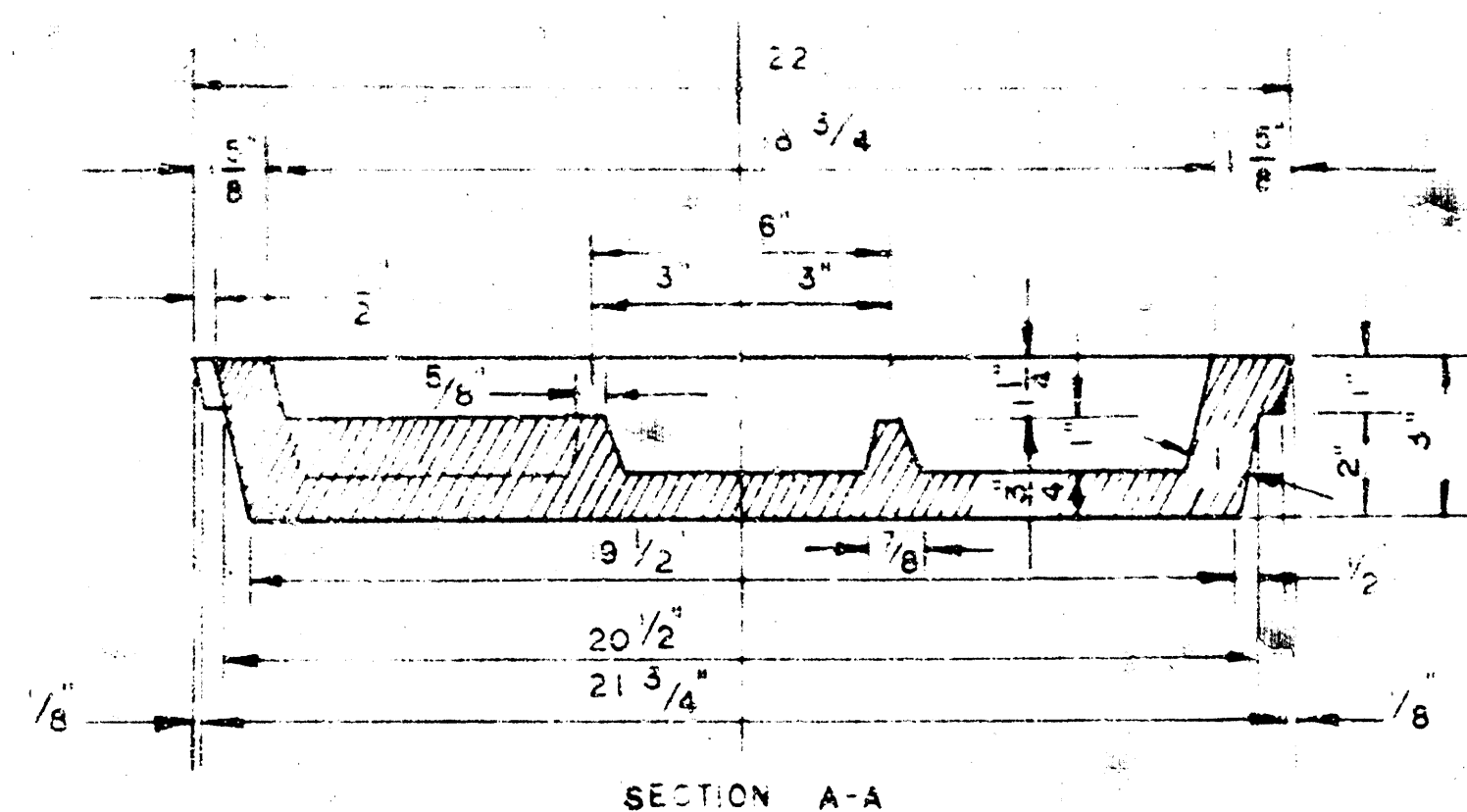
DETAILS OF
SEWER APPURTENANCES
ADOPTED AS STANDARD DESIGN
BY

ENGINEERING DIVISION
CITY OF WICHITA, KANSAS
R. W. LINN CITY ENGINEER

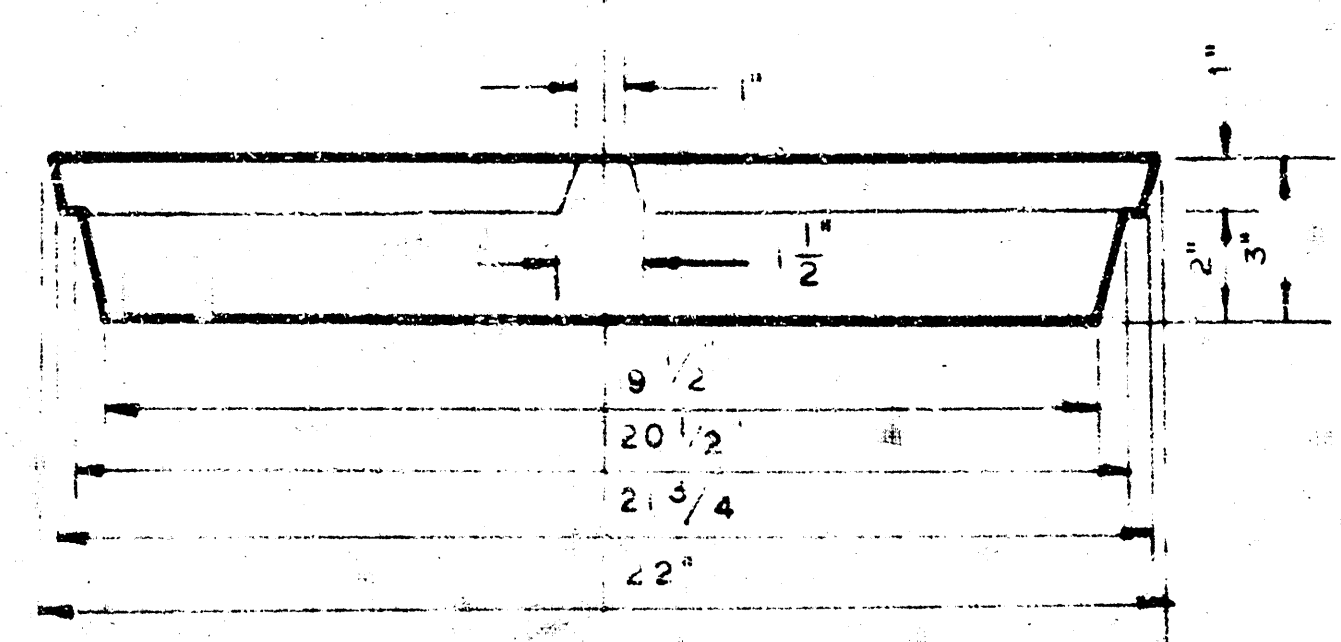
STANDARD MANHOLE, TYPE "C"



MANHOLE COVER

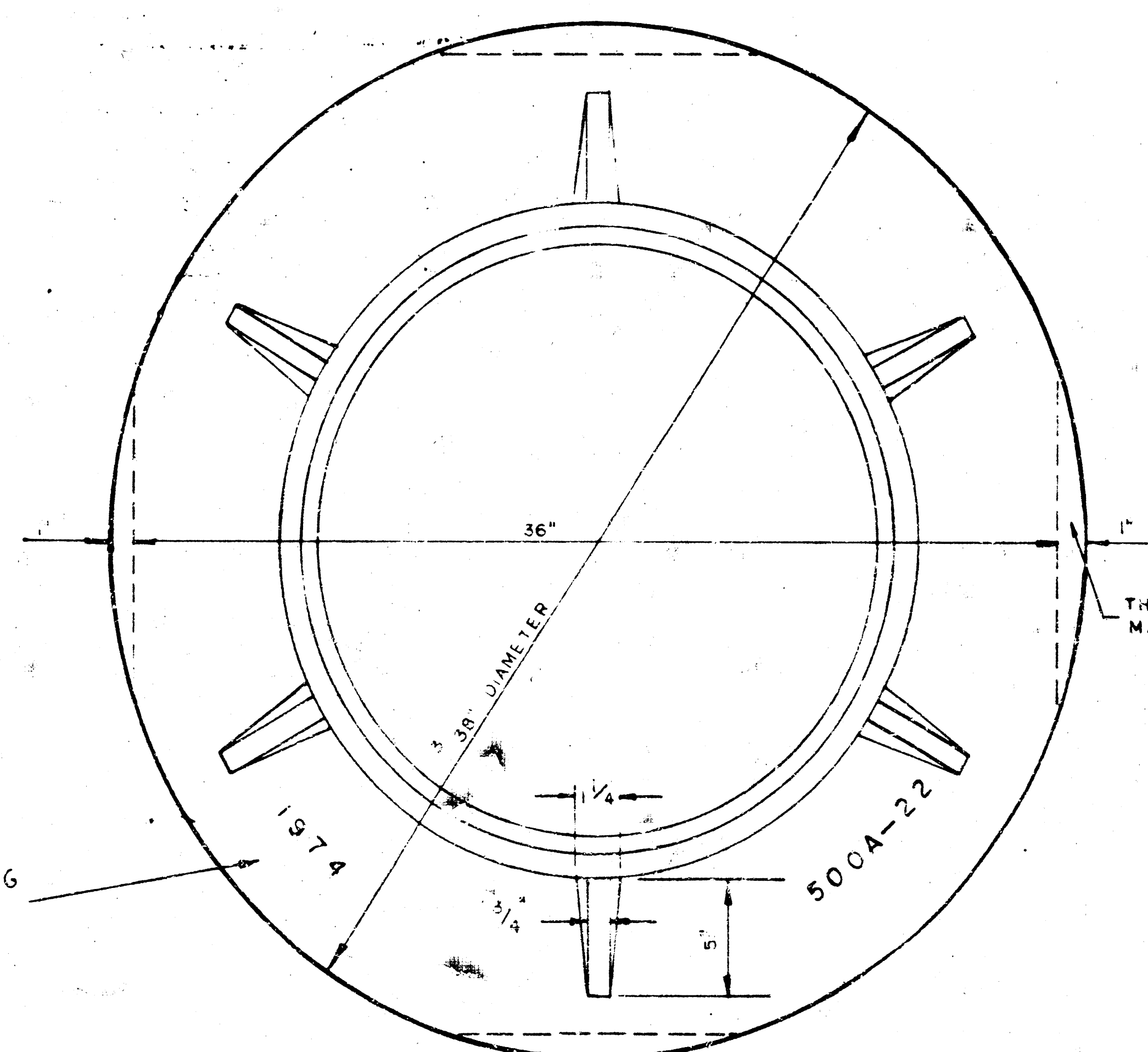
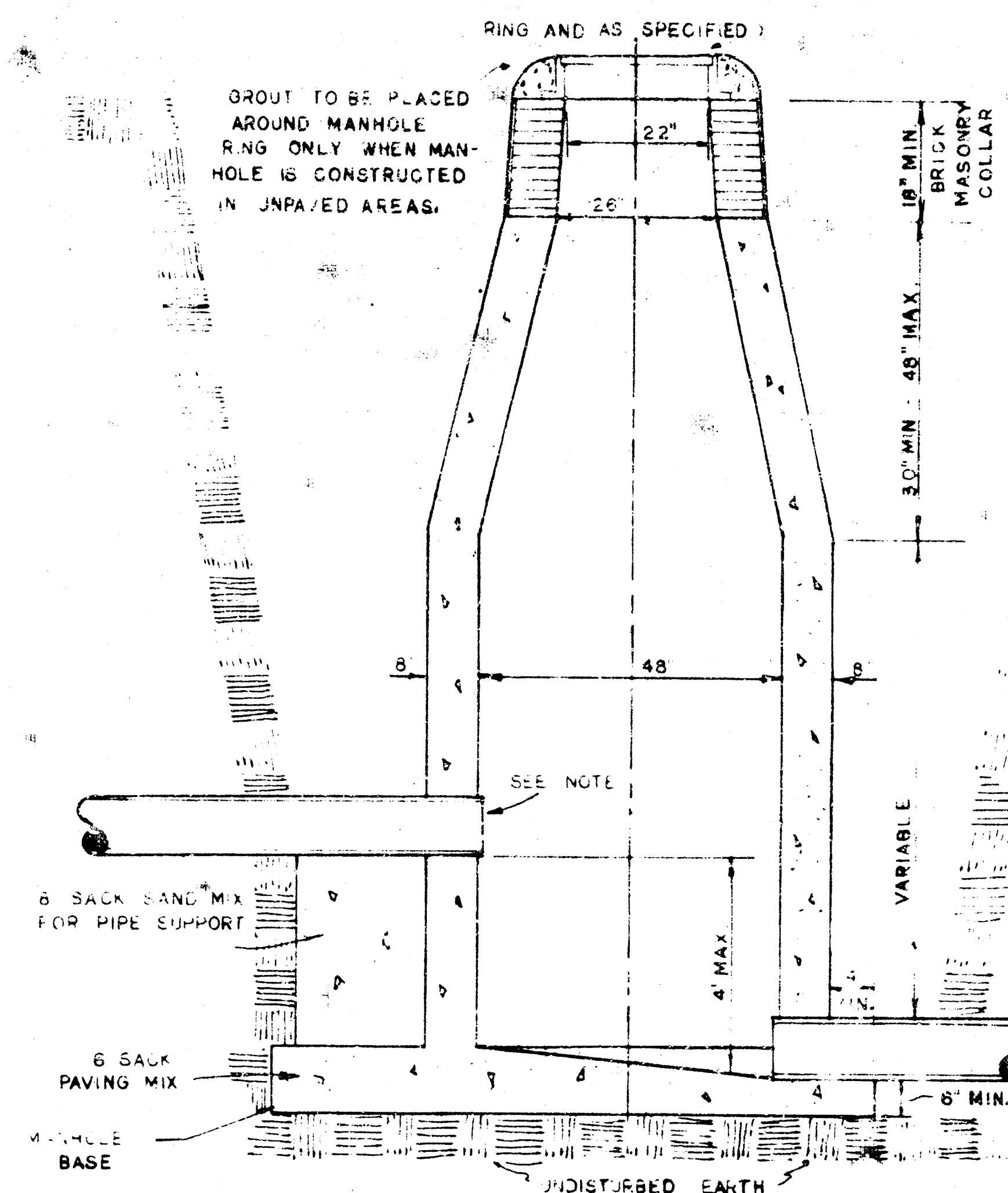


MANHOLE COVER



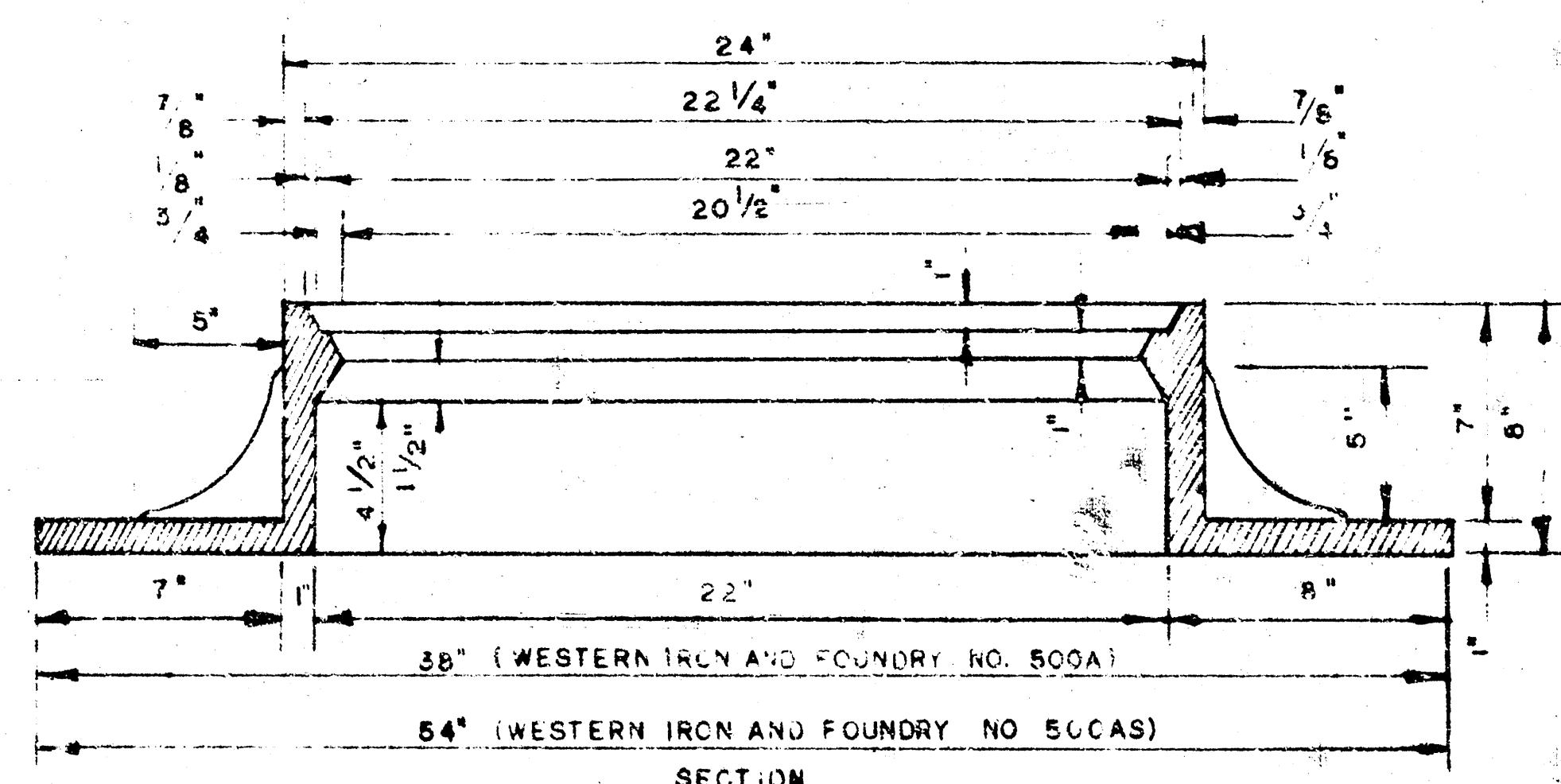
MANHOLE COLLAR

DROP MANHOLE, TYPE "C"



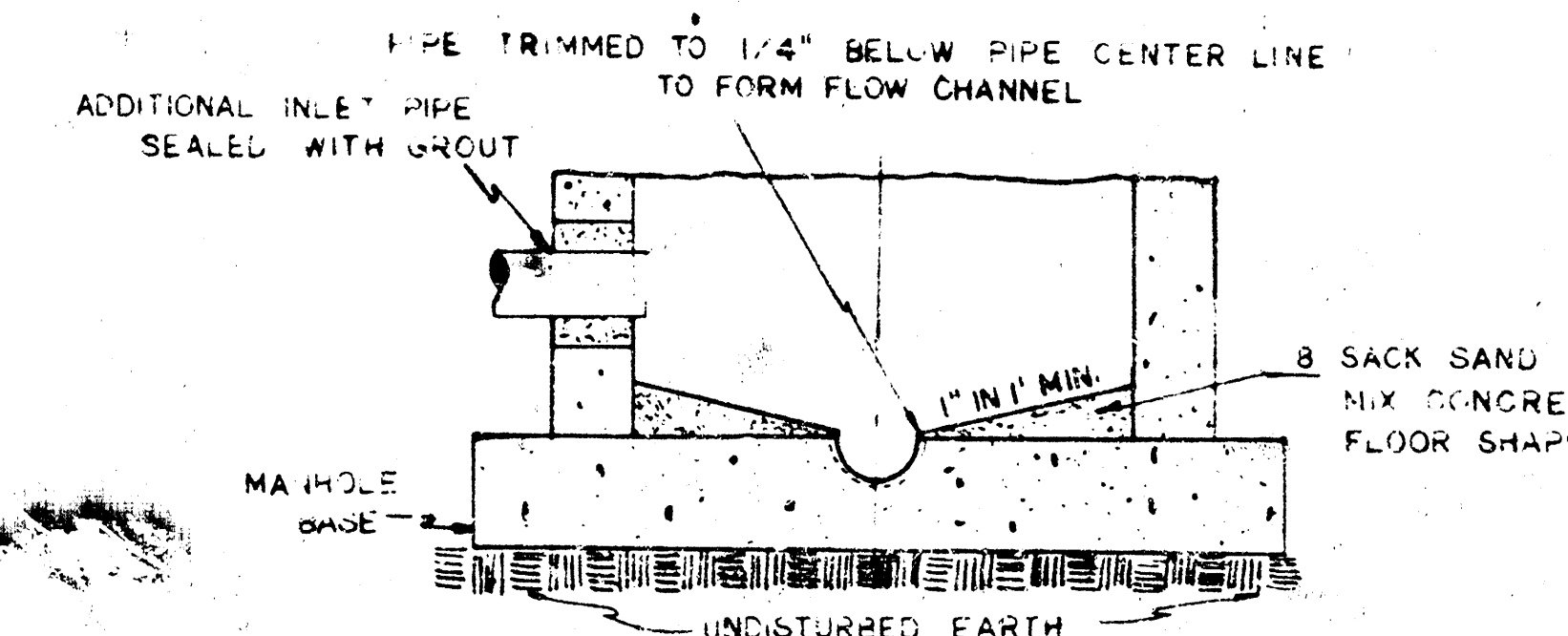
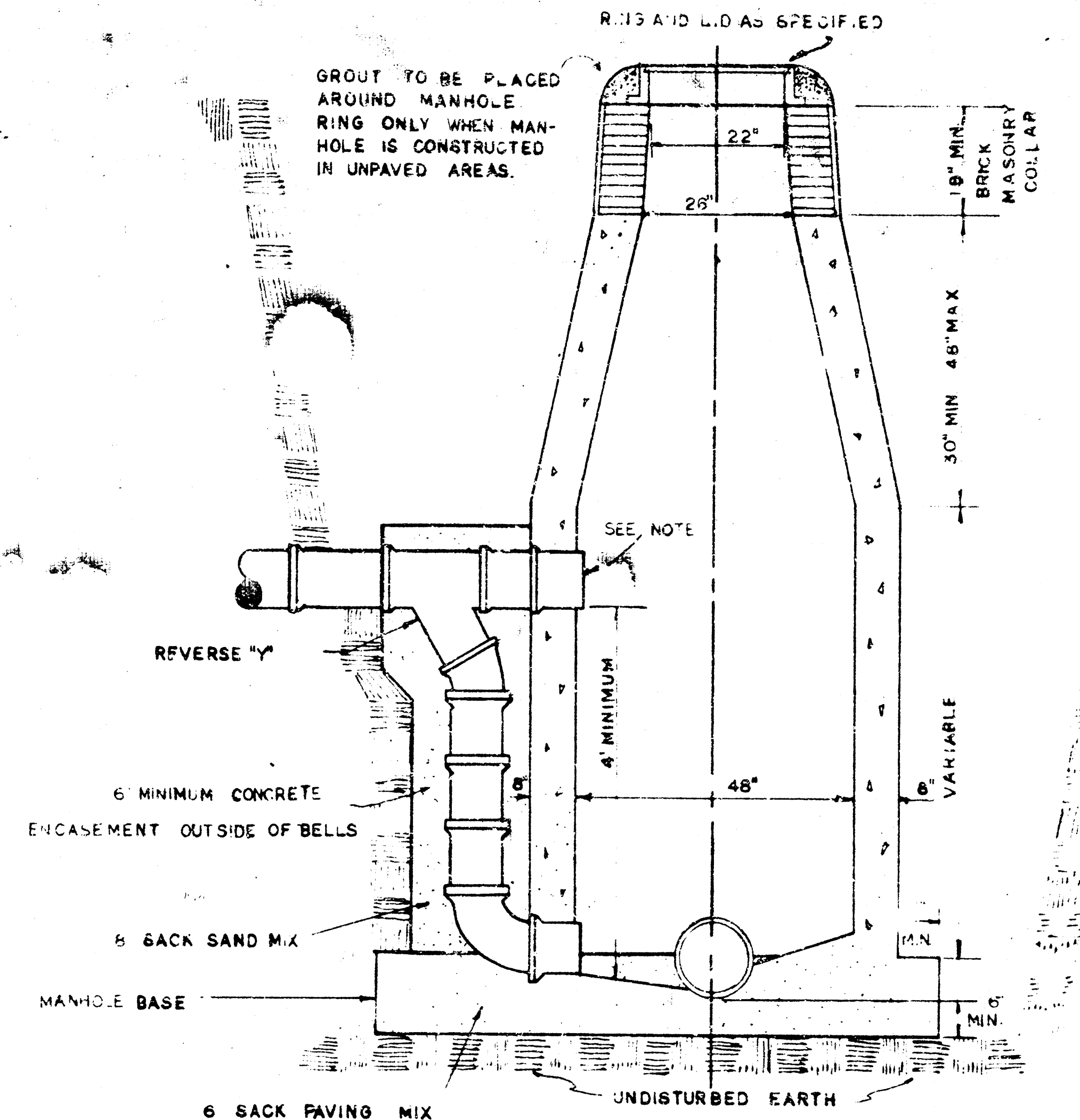
MANHOLE RING

WEIGHT 325 LBS. RING NO. 500A
WEIGHT 800 LBS. RING NO. 500AS



MANHOLE RING

OUTSIDE DROP MANHOLE, TYPE "C"



SECTIONAL ELEVATION-INVERT

NOTE: OPENING FOR INLET PIPE CUT IN MANHOLE WALL AND PIPE GROUTED IN PLACE WITH NON-SHRINKING GROUT. EXTERIOR OF COMPLETED CONNECTION TO BE SEALED WITH APPROVED COATING.

GENERAL NOTES

MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD.

STANDARD MANHOLES TYPE "C" AND STANDARD DROP MANHOLES TYPE "C" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED.

OUTSIDE DROP MANHOLES TYPE "C" SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4 FT. UNLESS INDICATED OTHERWISE. MANHOLES WITH PIPE SIZES LARGER THAN 24" SHALL BE 5 FT. DIAMETER.

THE FLOORS OF ALL MANHOLES SHALL BE SHAPED TO INCREASE HYDRAULIC EFFICIENCY USING 8 SACK SAND MIX CONCRETE.

CAST IN PLACE CIRCULAR CONCRETE MANHOLES ARE TO BE CONSTRUCTED ONLY ON SEWERS NOT SUBJECT TO DETERIORATION OF CONCRETE DUE TO FORMATION OF HYDROGEN SULFIDE GAS AND IN LOCATIONS WHERE IT IS OBVIOUS THAT ANY ADJUSTMENT OF THE MANHOLE TOP ELEVATION WHICH MAY BE NECESSARY WILL NOT REQUIRE MODIFICATION OF THE CONCRETE BARREL.

DETAILS OF
SEWER APPURTENANCES
ADOPTED AS STANDARD DESIGN
BY
ENGINEERING DIVISION
CITY OF WICHITA, KANSAS
R. W. LINN CITY ENGINEER