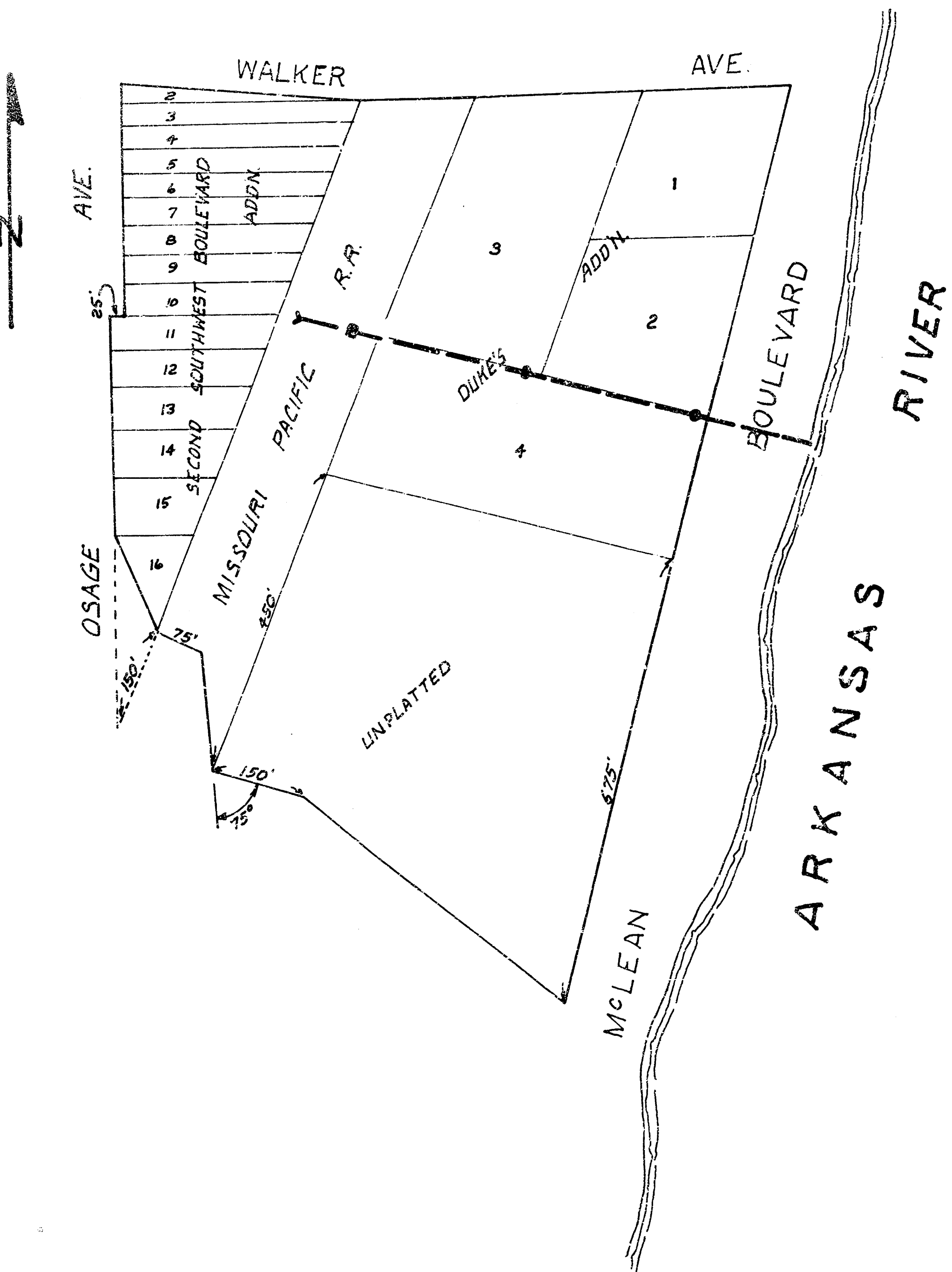


STORM WATER SEWER NO. 107
 CITY OF WICHITA, KANSAS
 R. W. LINN- CITY ENGINEER
 PROJECT NO. DBKA 573081
 DATE:

GENERAL NOTES

1. PIPE FURNISHED FOR THIS PROJECT SHALL BE EITHER ALL REINFORCED CONCRETE PIPE OR ALL CORRUGATED METAL PIPE. CORRUGATED METAL PIPE SHALL CONFORM TO THE APPLICABLE SECTIONS OF SECTION 1009.05 OF THE 1973 KANSAS STATE HIGHWAY SPECIFICATIONS. CORRUGATED METAL PIPE FURNISHED FOR THIS PROJECT DOES NOT REQUIRE BITUMINOUS COATING. CORRUGATED METAL PIPE HAVING DIAMETERS OF 18 INCHES OR SMALLER SHALL HAVE HELICAL CORRUGATIONS. CORRUGATED METAL PIPE USED ON THIS PROJECT SHALL BE FURNISHED WITH THE "HUGGER" BAND COUPLER AS MANUFACTURED BY ARCO STEEL CORPORATION, OR AN APPROVED EQUAL, FOR CONNECTING SECTIONS OF CORRUGATED METAL PIPE.
2. CONTRACTOR SHALL USE EXCESS EXCAVATED MATERIAL FROM SEWER TRENCH TO FILL AND GRAD DITCH ON SOUTH OF STORM SEWER FROM APPROXIMATELY STA. 4+30 TO 6+45. THIS ITEM OF WORK WILL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER ITEMS OF WORK.
3. ALL COSTS OF MATERIALS AND LABOR FOR INSTALLATION OF THE 36" ARCO FLAT BACK FLAP GATE (MODEL 20-C) WITH TYPE "F" TRIMBLE, OR APPROVED EQUAL, SHALL BE INCLUDED IN THE BID PRICE FOR THE REINFORCED CONCRETE MANHOLE.



As Built 12-19-75

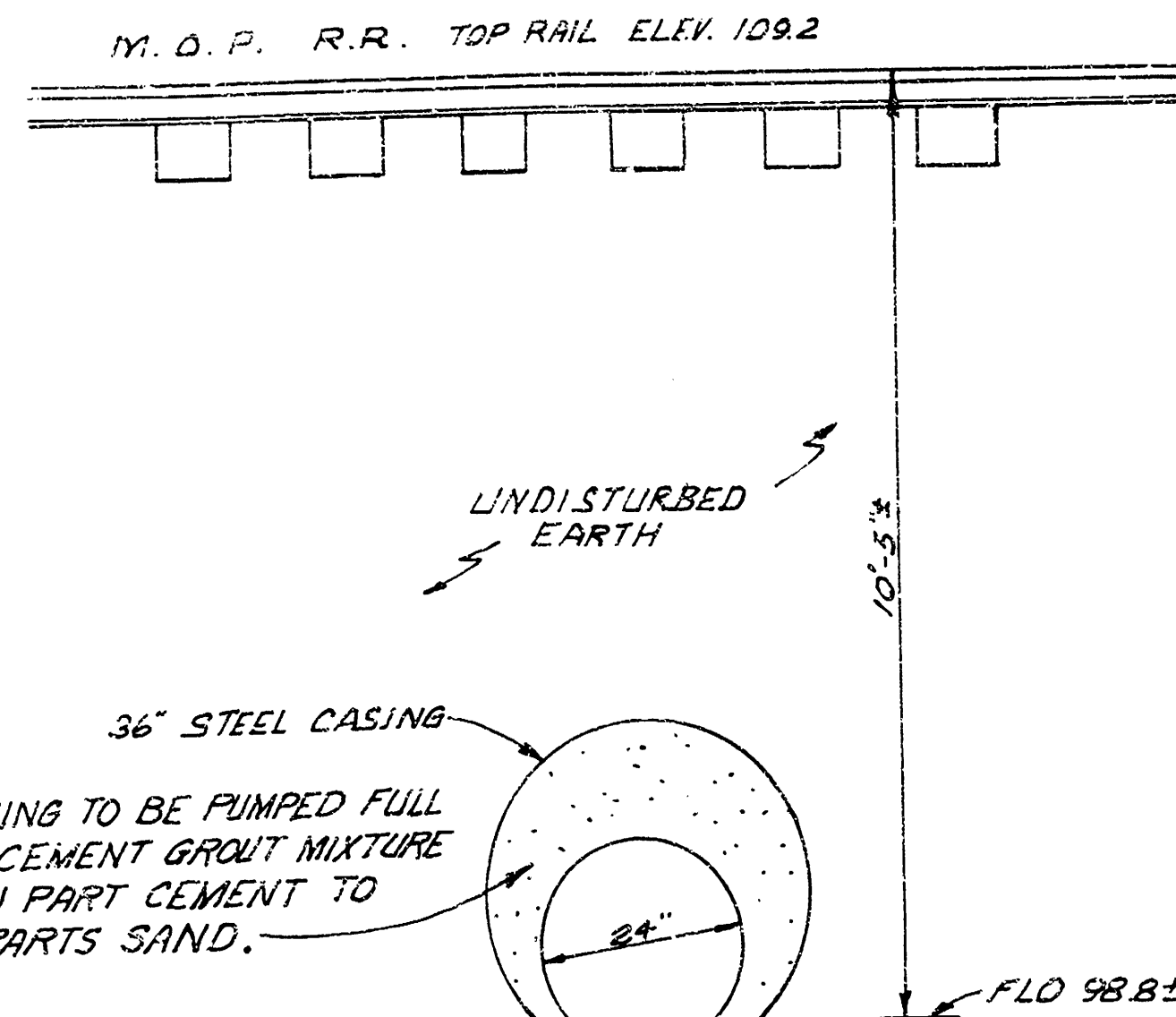


B.M. 105.71 R.R. SPIKE N.E. SIDE P. POLE S.S. WALKER, 30' E. & 39' N. OF N.E. COR. MOTIVE PARTS WAREHOUSE ON SE. COR. OSAGE & WALKER.

B.M. 111.62 "X" CUT ON S.W. COR. CONC. BASE TO R.R. SIGNAL LIGHT, W.S. McLEAN & N. SIDE A.T. & S.F. R.R. TRACK N. SIDE WALKER.

B.M. 108.67 R.R. SPIKE N. SIDE LARGE ELM TREE 10' E. OF E. CB. McLEAN & 6' S. OF N.L. LOT 4 DUKE'S ADD'N. 3. OF WALKER.

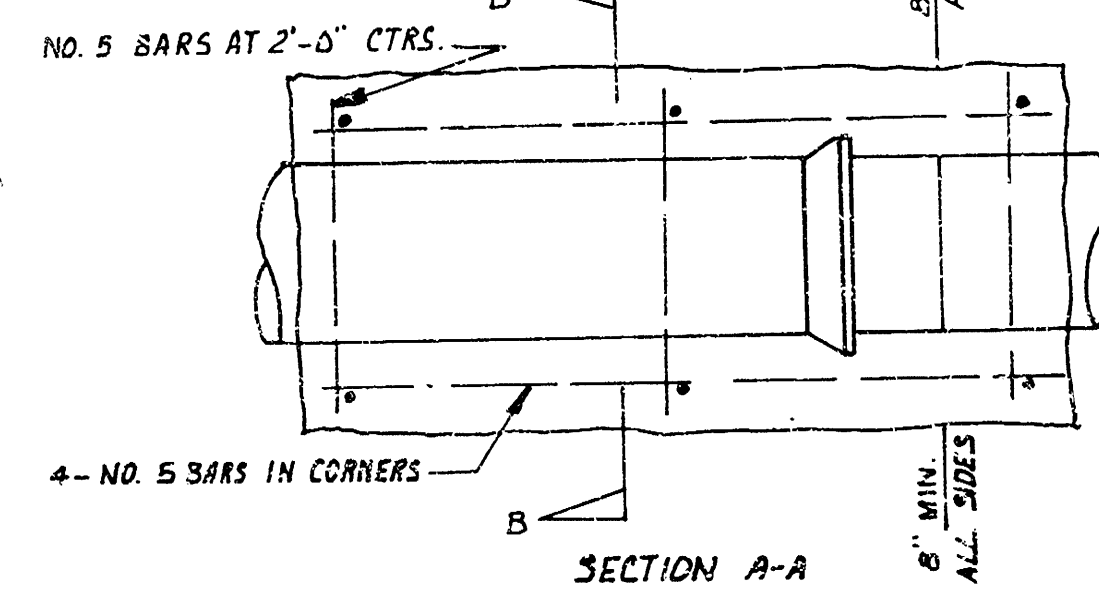
NOTE: ALL ASPHALT AND/OR CONCRETE PARKING LOT SURFACING REMOVED OR DAMAGED BY CONTRACTOR SHALL BE REPLACED.



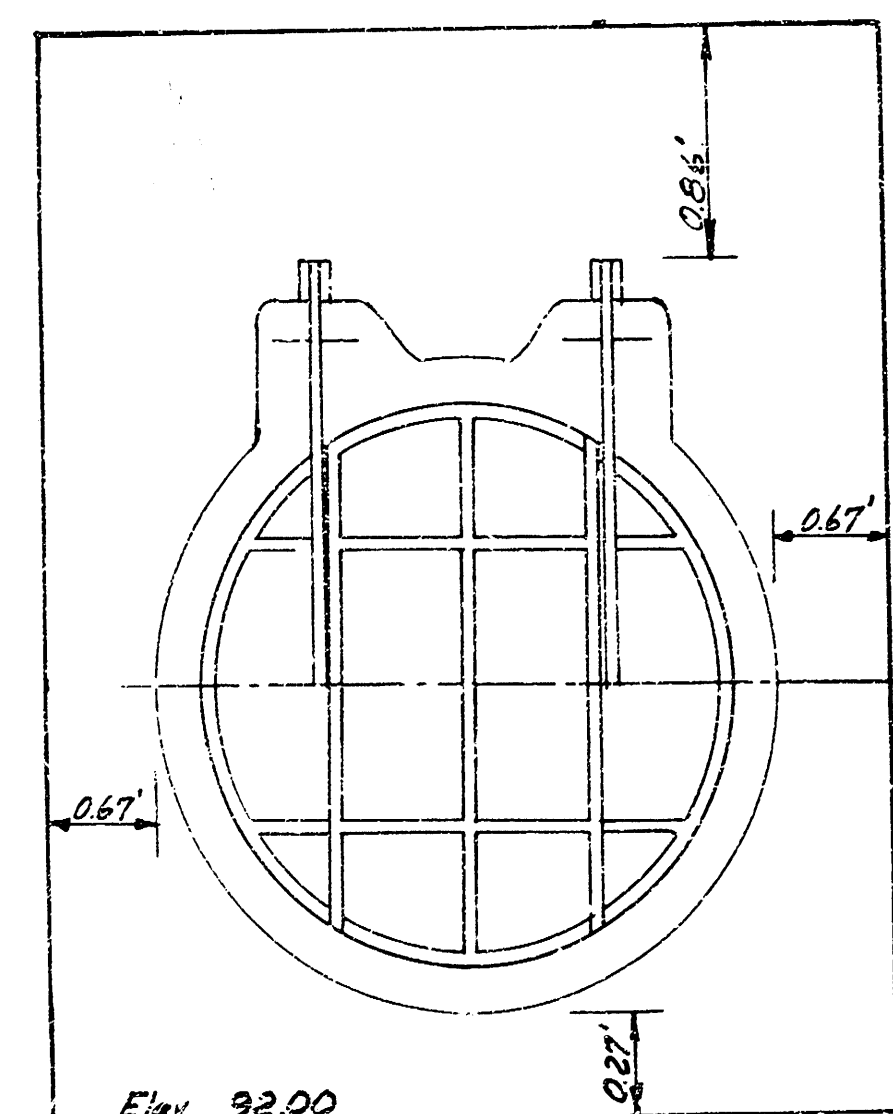
TYPICAL SECTION
CASING AT M.O.P. R.R. CROSSING
STA. 7+30 TO 7+60

1. 24" R.C.P. OR 24" C.M.P. TO BE PLACED UNDER RAILROAD BY BORING OR JACKING 36" DIAMETER, 0.500 WELDED STEEL PIPE AND THREADING THE 24" R.C.P. OR 24" C.M.P. THROUGH THE 36" STEEL CASING.
2. ALL COSTS OF LABOR & MATERIALS FOR BORING OR JACKING 36" DIAMETER, 0.500 WELDED STEEL PIPE SHALL BE INCLUDED IN THE BID PRICE OF LIN. FT. 36" STEEL CASING.

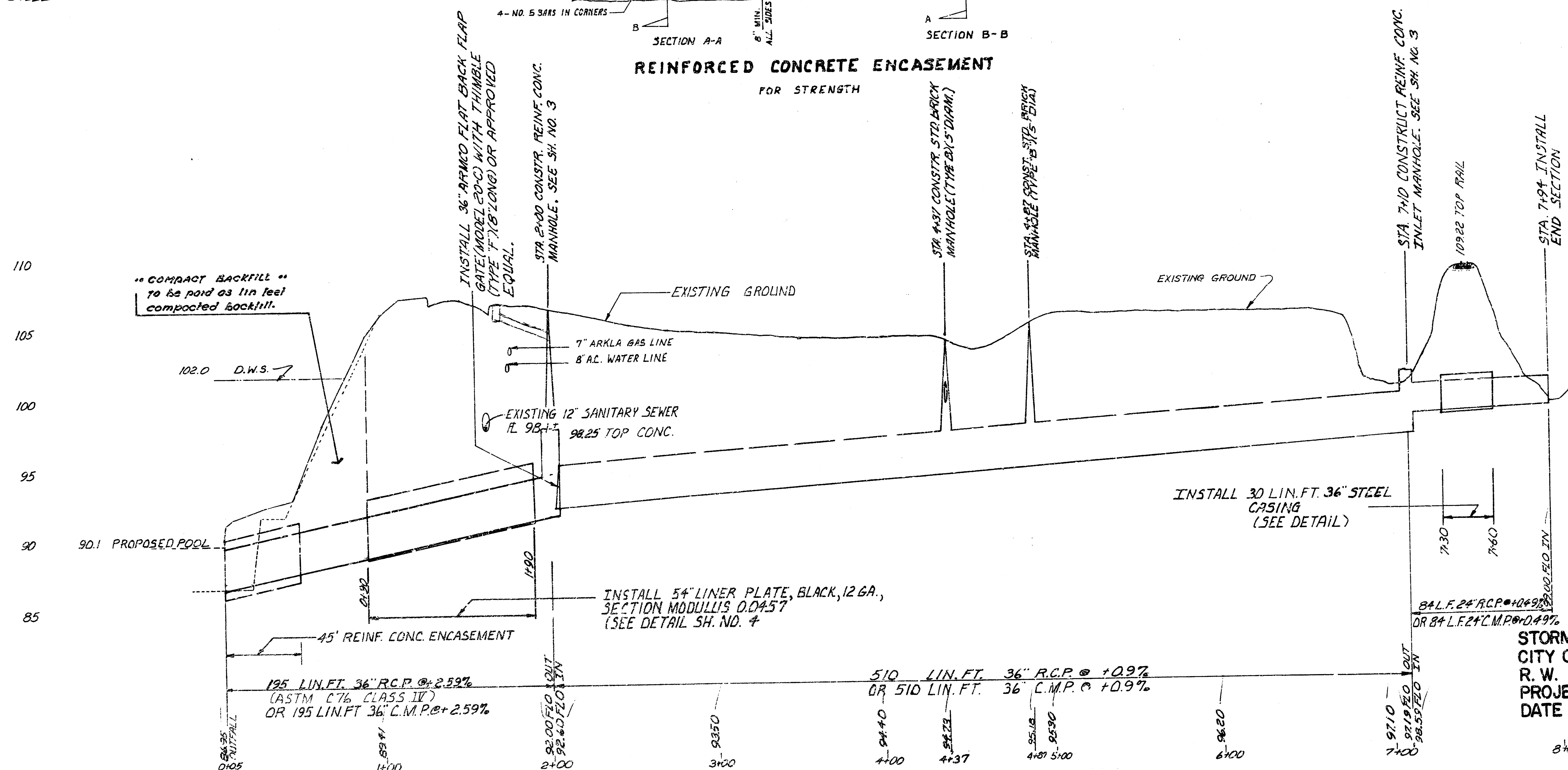
3. ALL COSTS OF LABOR & MATERIALS FOR PUMPING 36" STEEL CASING FULL OF GROUT SHALL BE INCLUDED IN THE BID PRICE OF LIN. FT. 36" STEEL CASING.
4. LIN. FT. OF 24" R.C.P. OR 24" C.M.P. PLACED IN 36" STEEL CASING SHALL BE PAID BY THE LIN. FT. OF 24" R.C.P. OR 24" C.M.P.



REINFORCED CONCRETE ENCASUREMENT
FOR STRENGTH

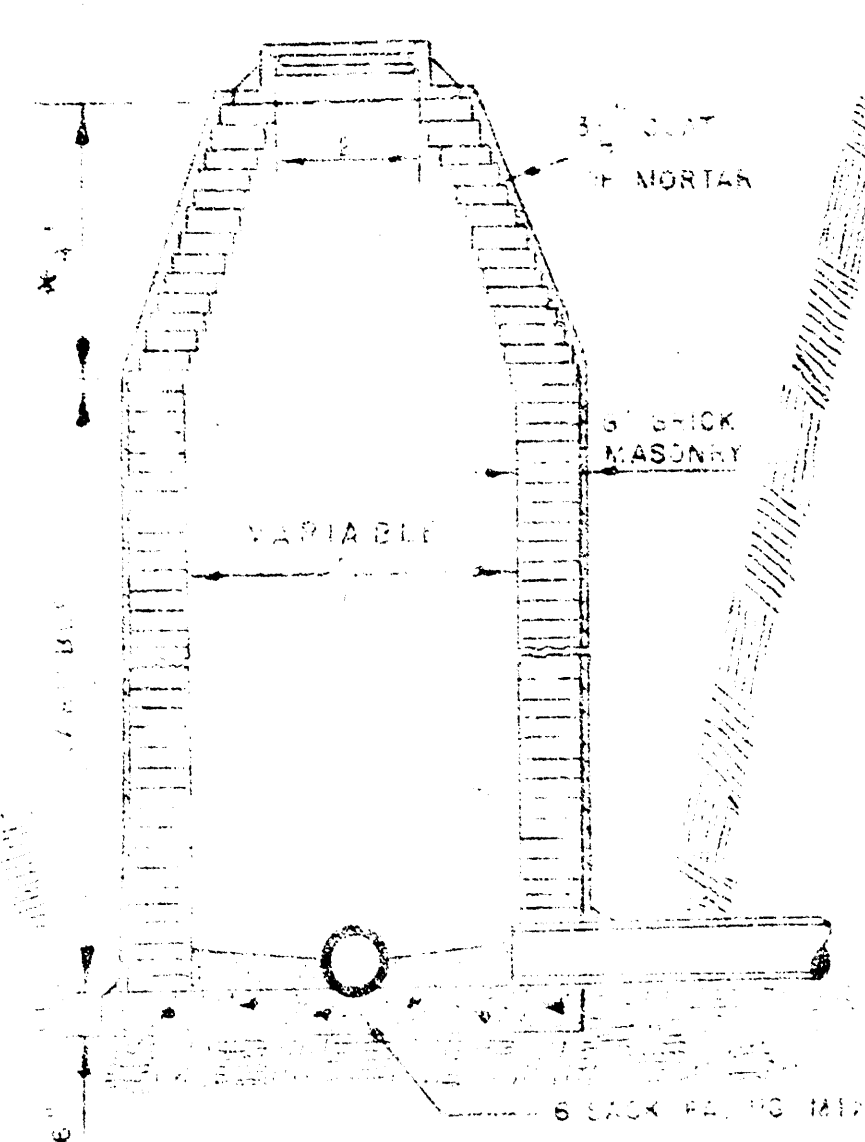


CLEARANCE DETAIL
FLAP GATE

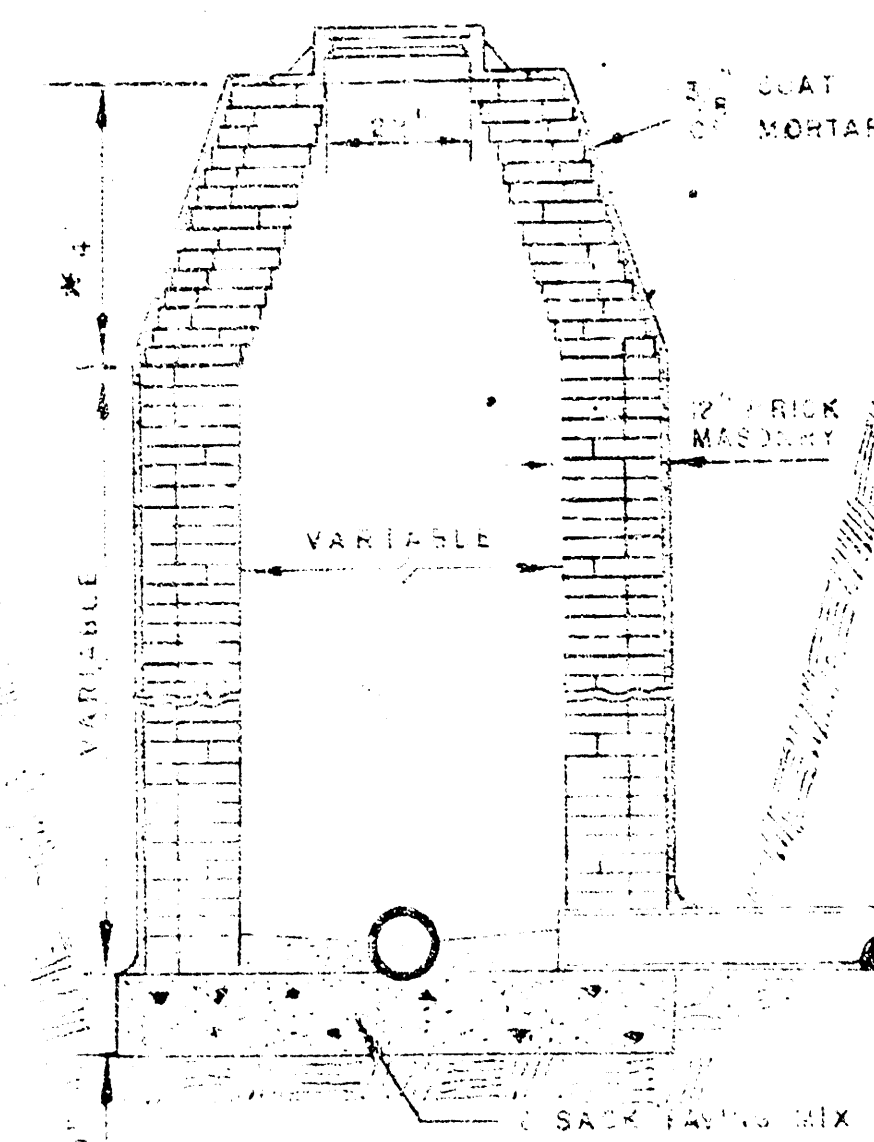


PLAN SCALE: 1" = 40'
PROFILE SCALE: 1" = 40'
HORIZONTAL 1" = 40'
VERTICAL 1" = 5'

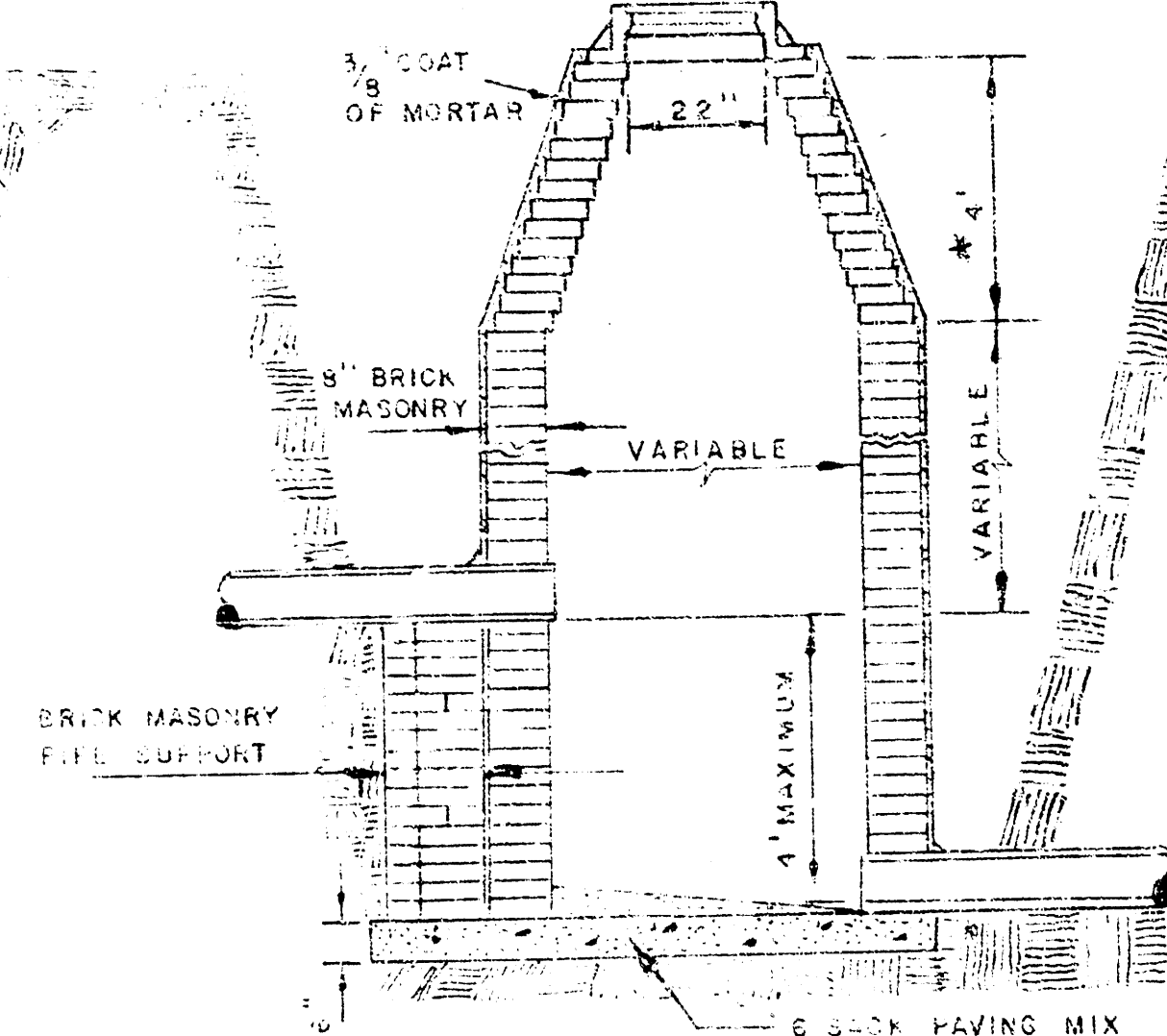
STORM WATER SEWER NO. 107
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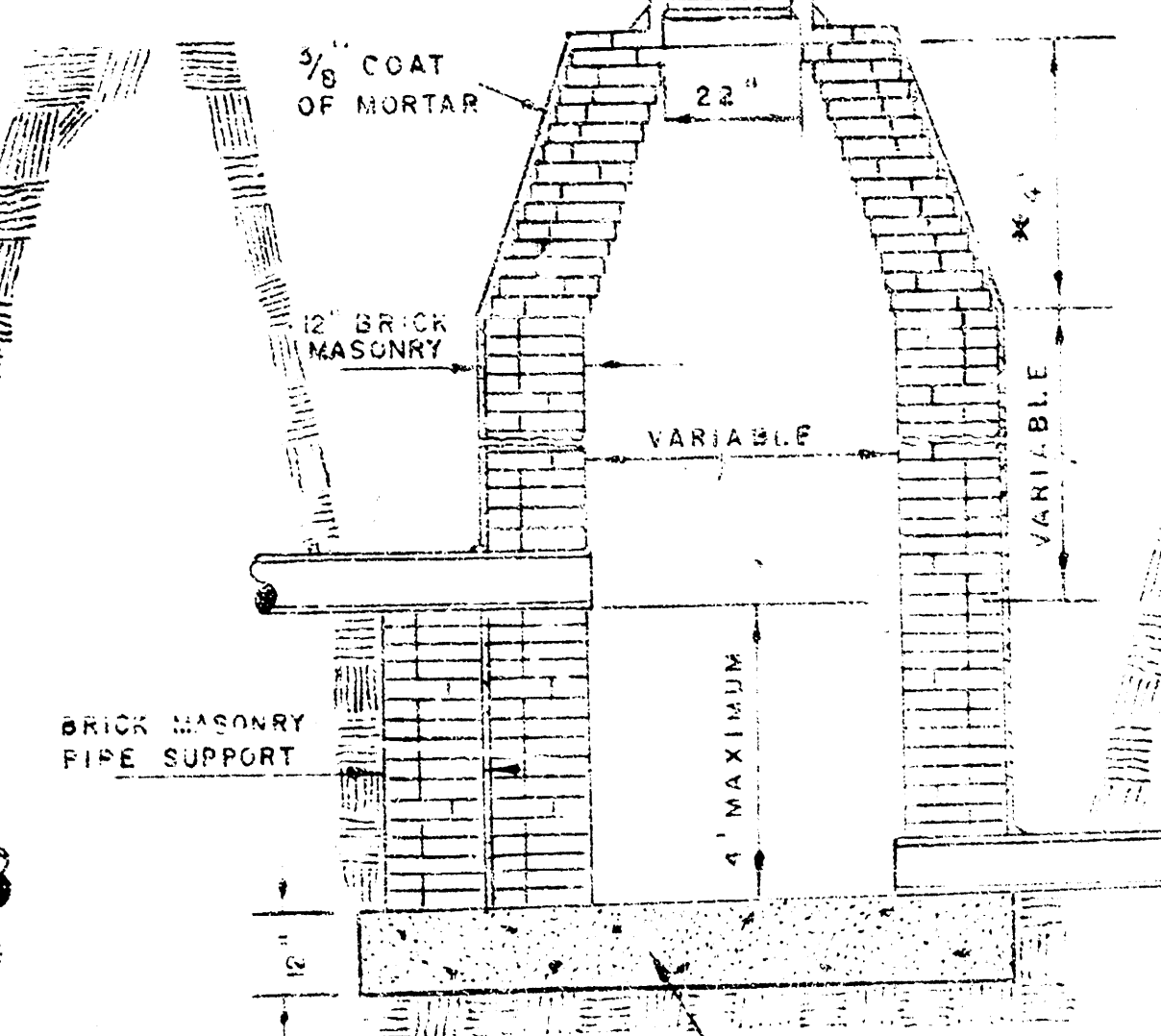
STANDARD MANHOLE
TYPE "A"



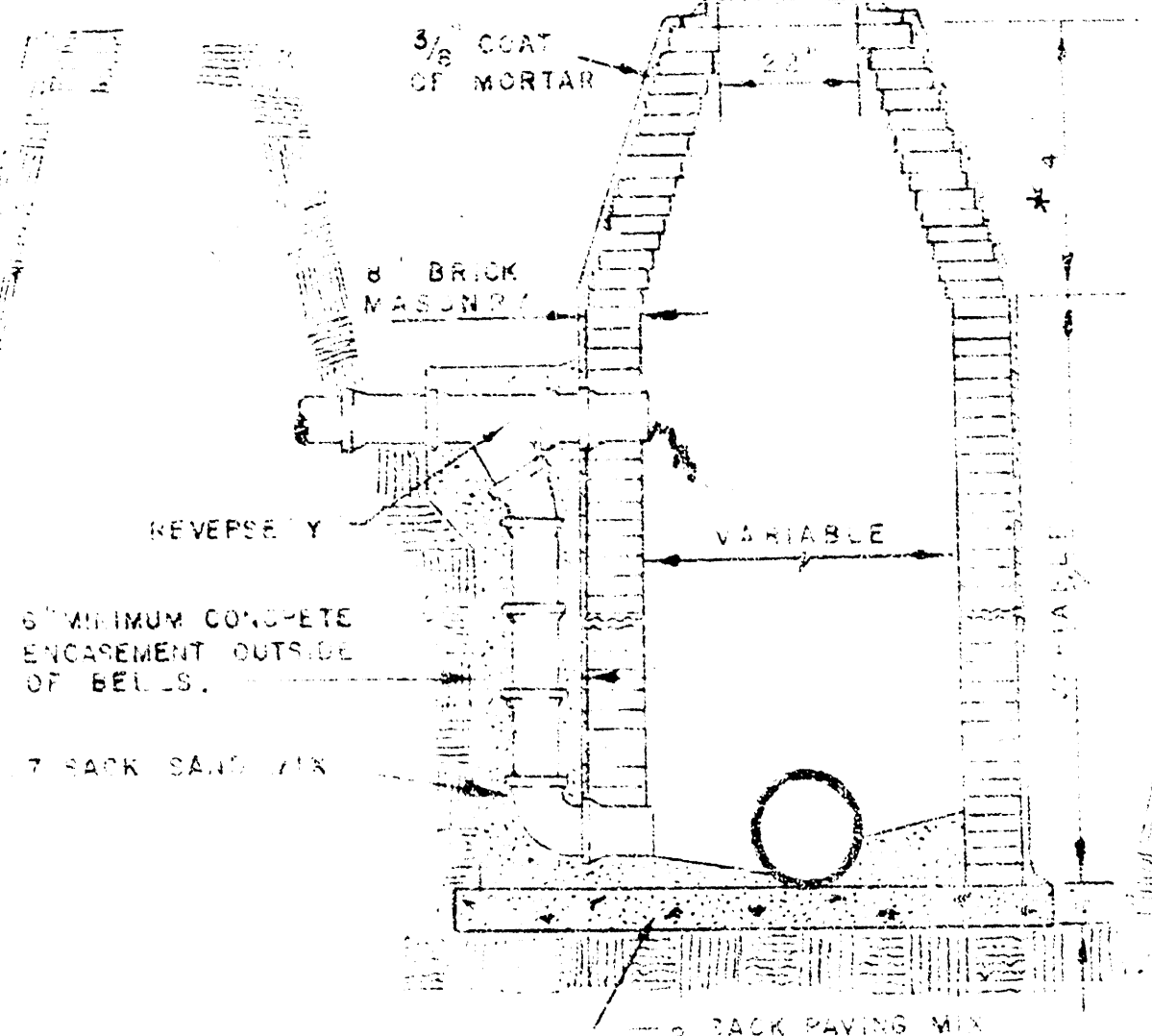
STANDARD MANHOLE
TYPE "B"



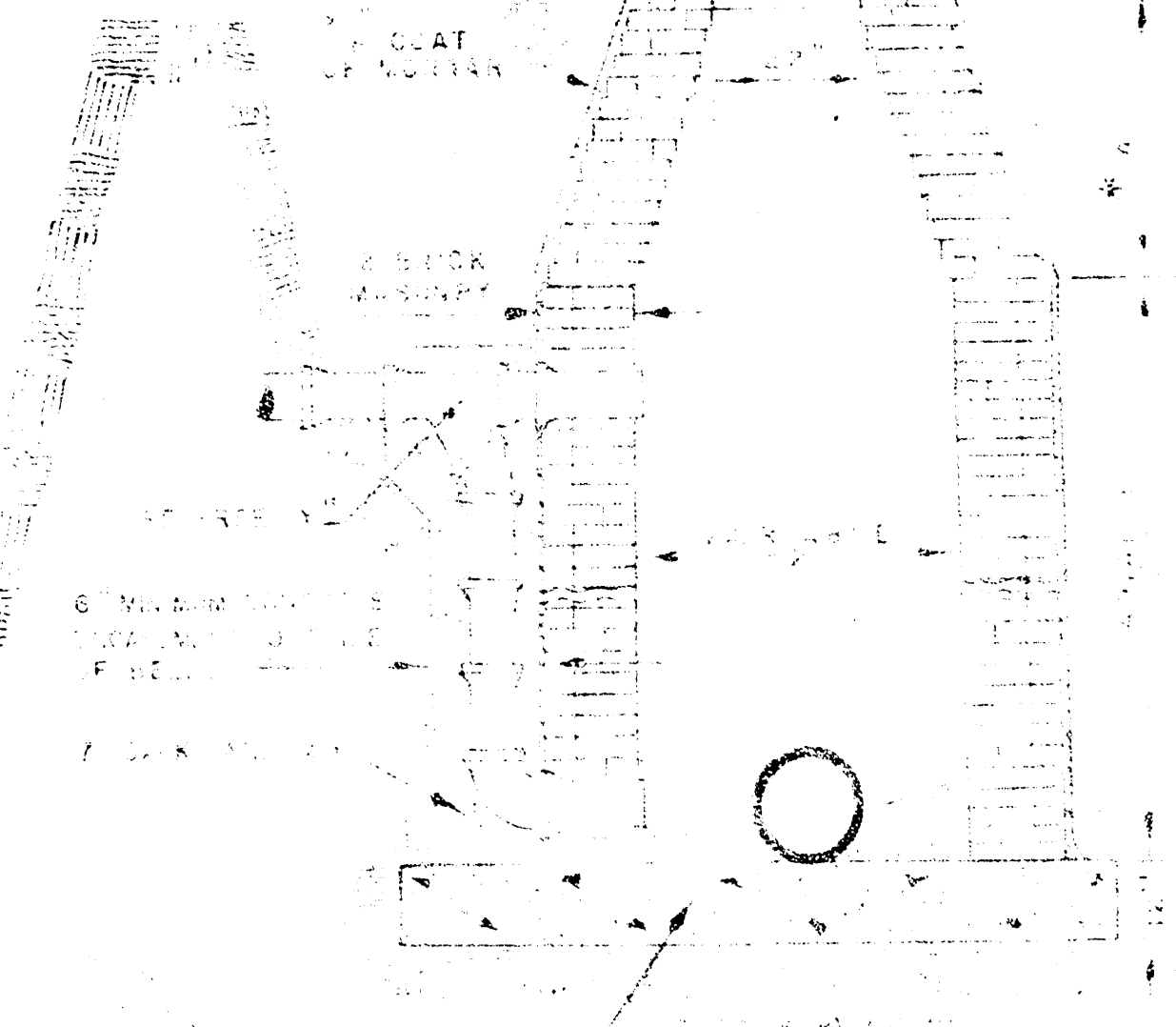
DROP MANHOLE
TYPE "A"



DROP MANHOLE
TYPE "B"

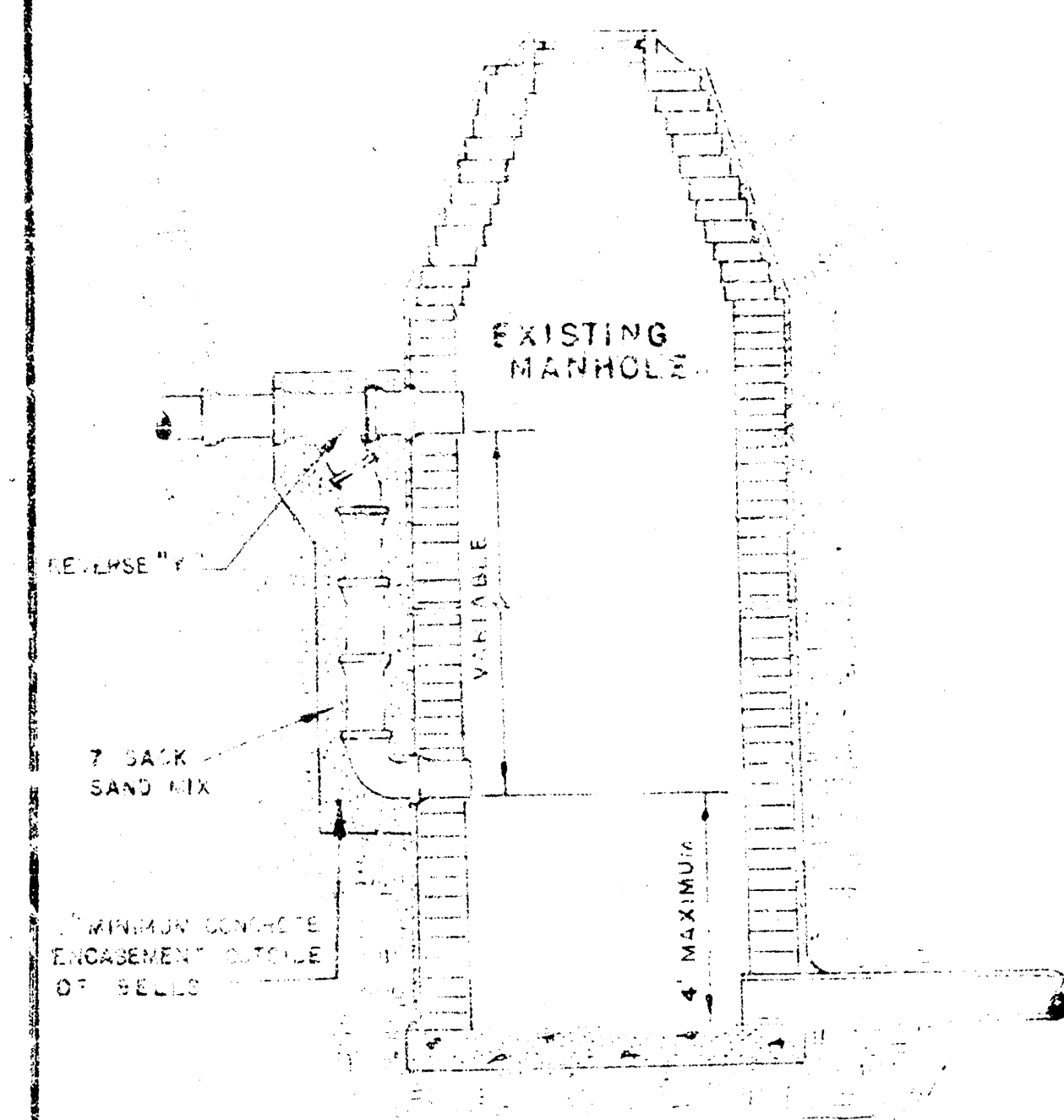


OUTSIDE DROP MANHOLE
TYPE "A"

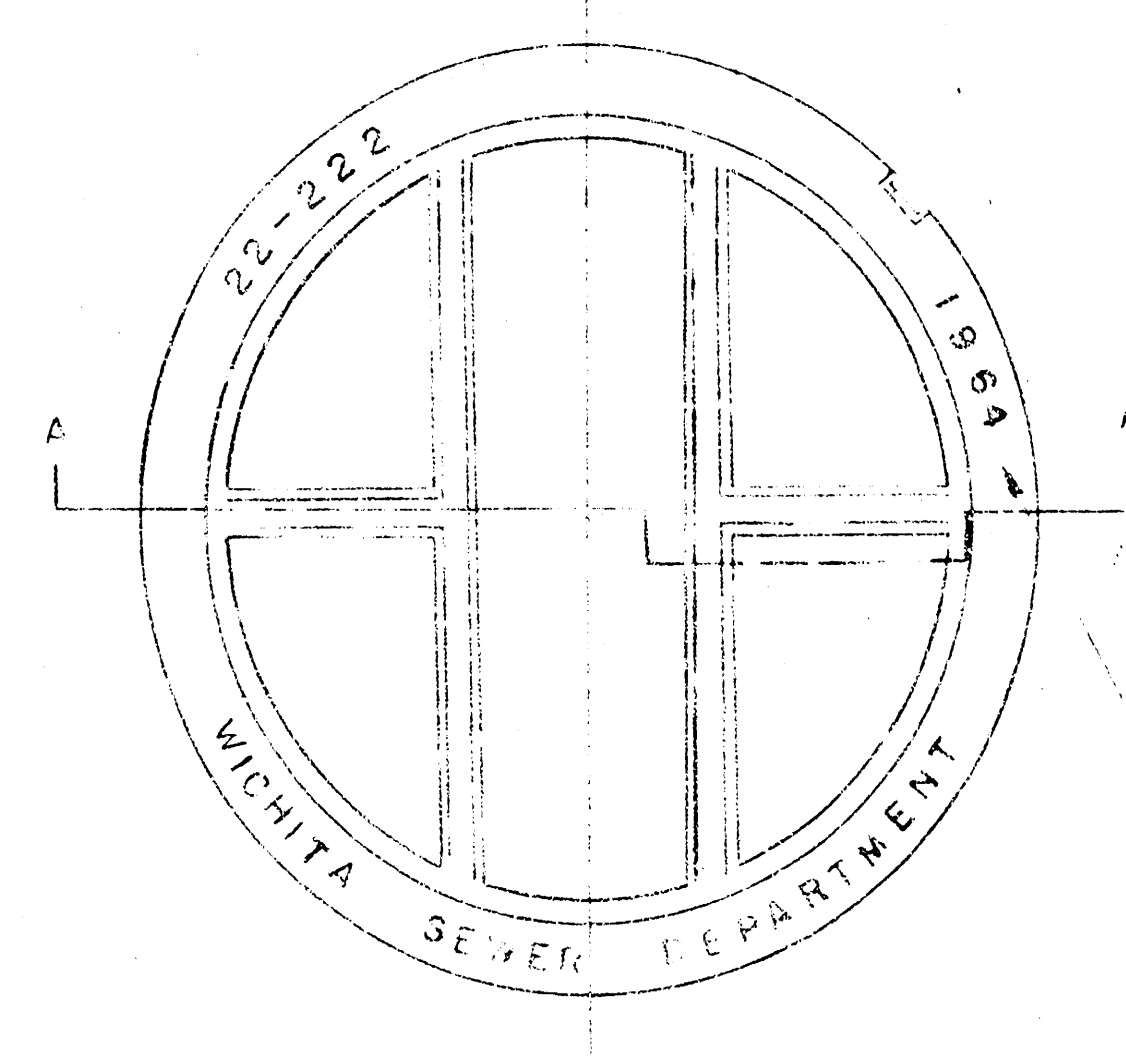


OUTSIDE DROP MANHOLE
TYPE "B"

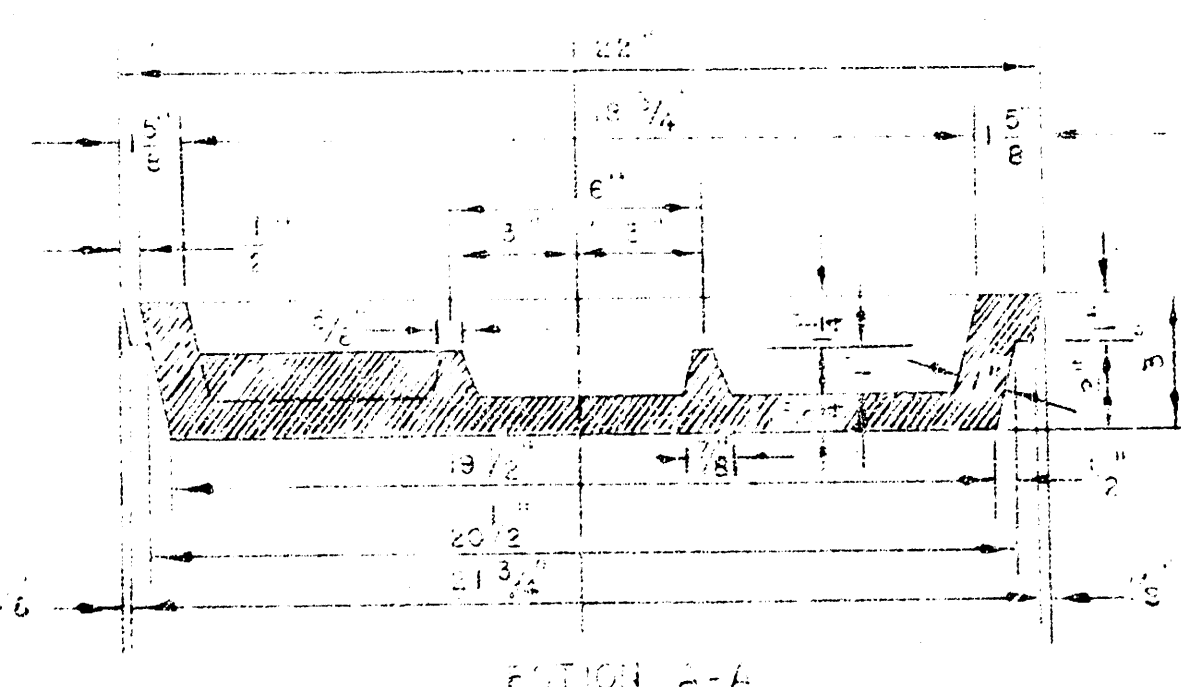
* DRAW = 6' ON 5' DIA. M.H.



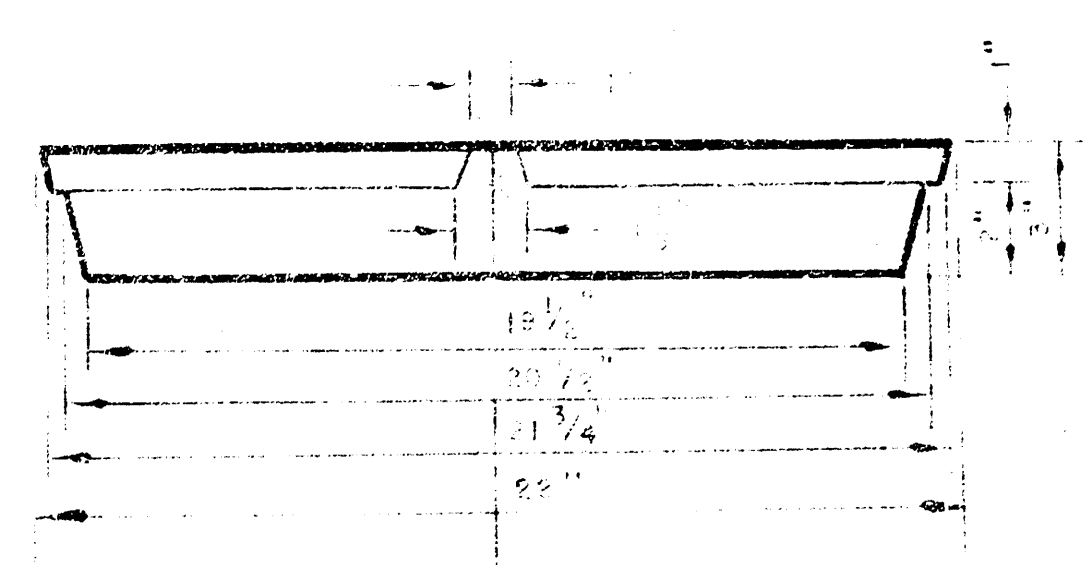
DETAIL OF DROP STACK
FOR EXISTING MANHOLES IN GROUND WATER



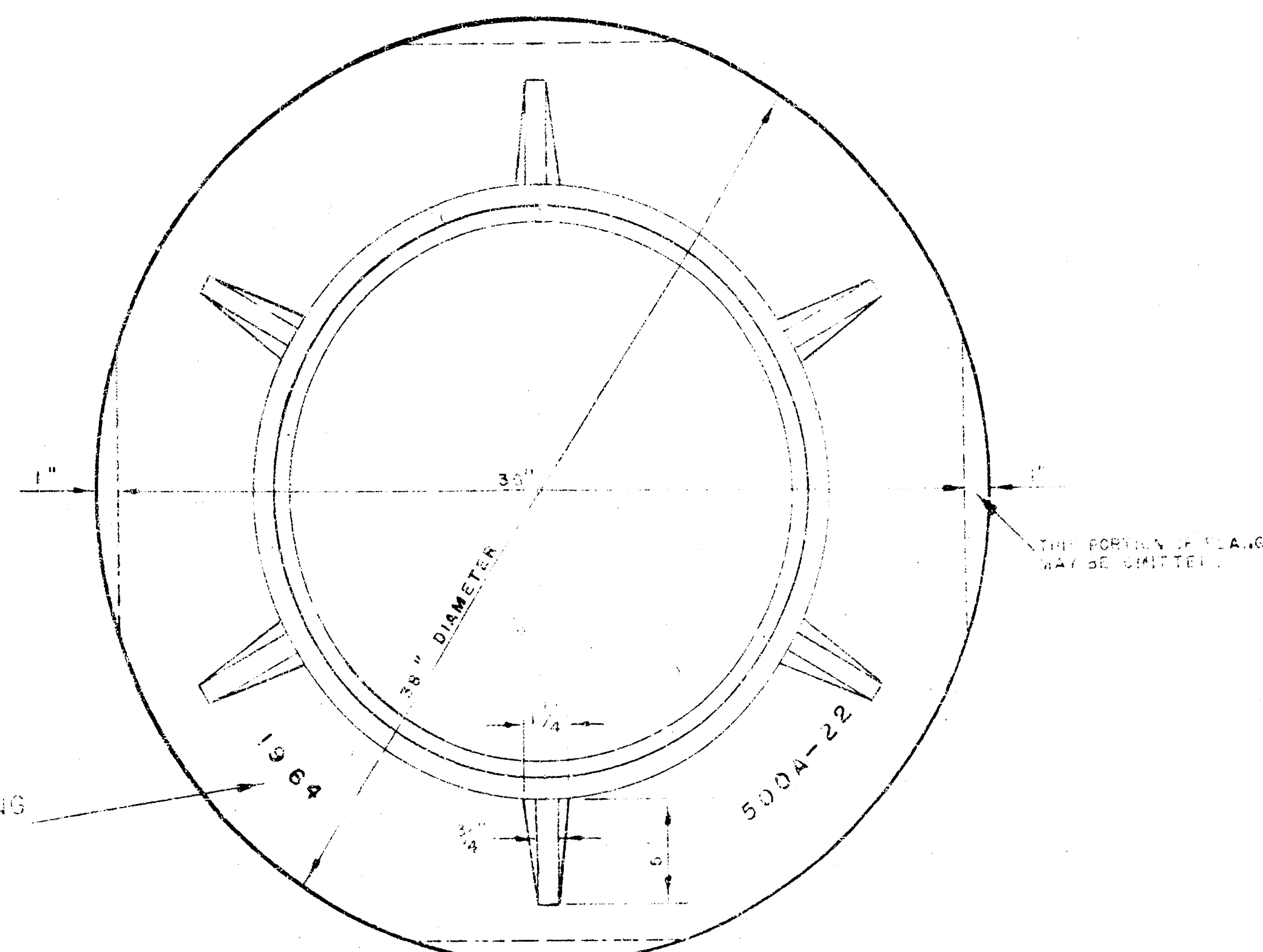
MANHOLE COVER
WEIGHT 115 LBS.



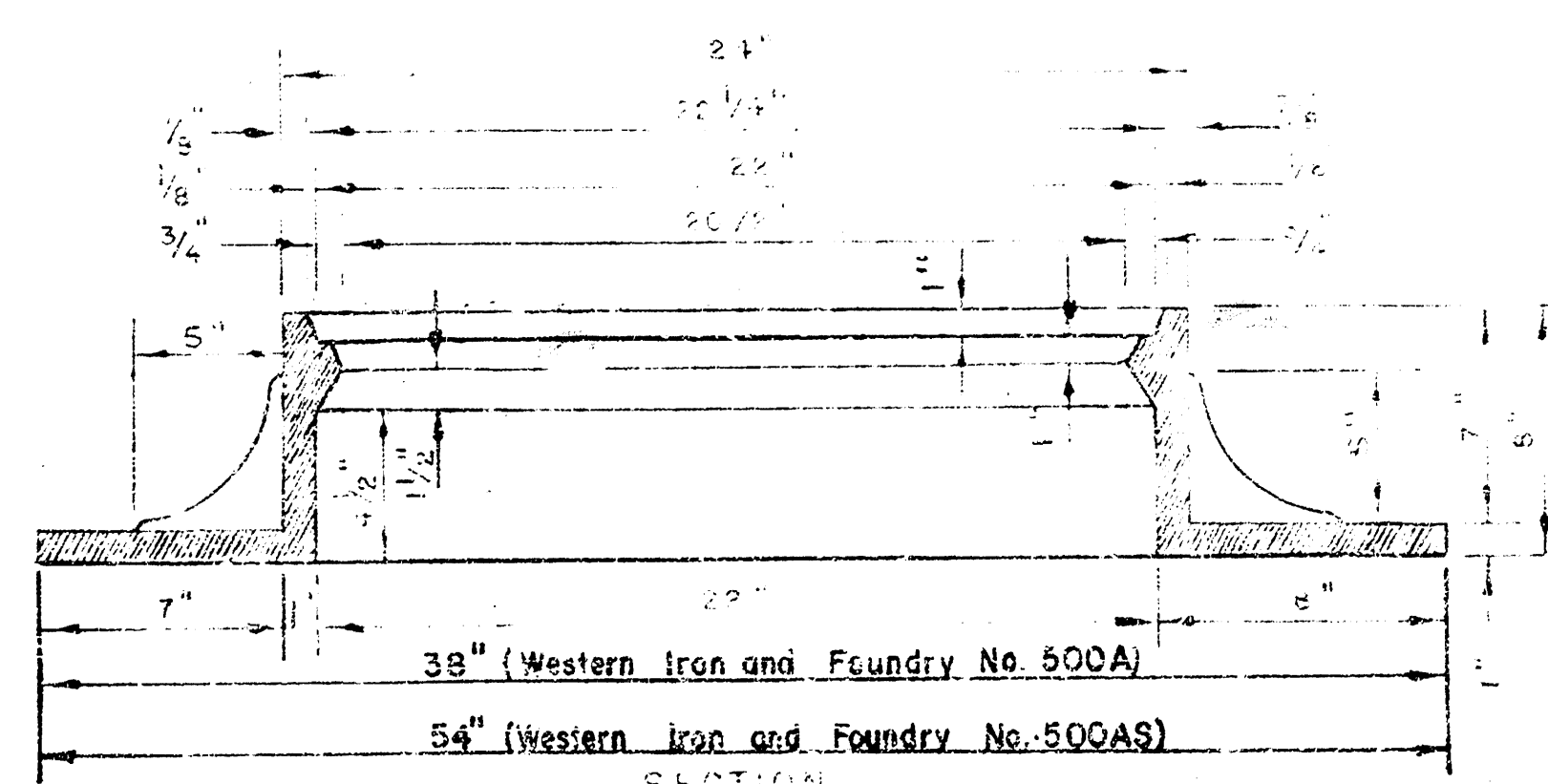
MANHOLE COVER



MANHOLE COVER

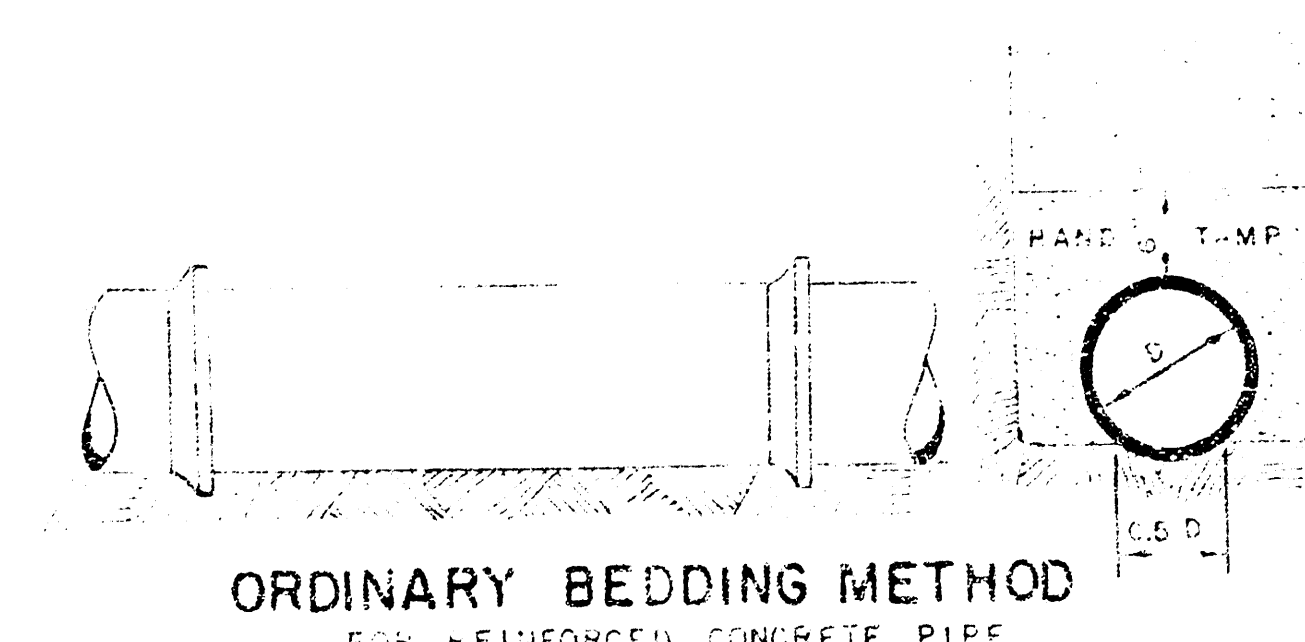


MANHOLE RING
WEIGHT 355 LBS.

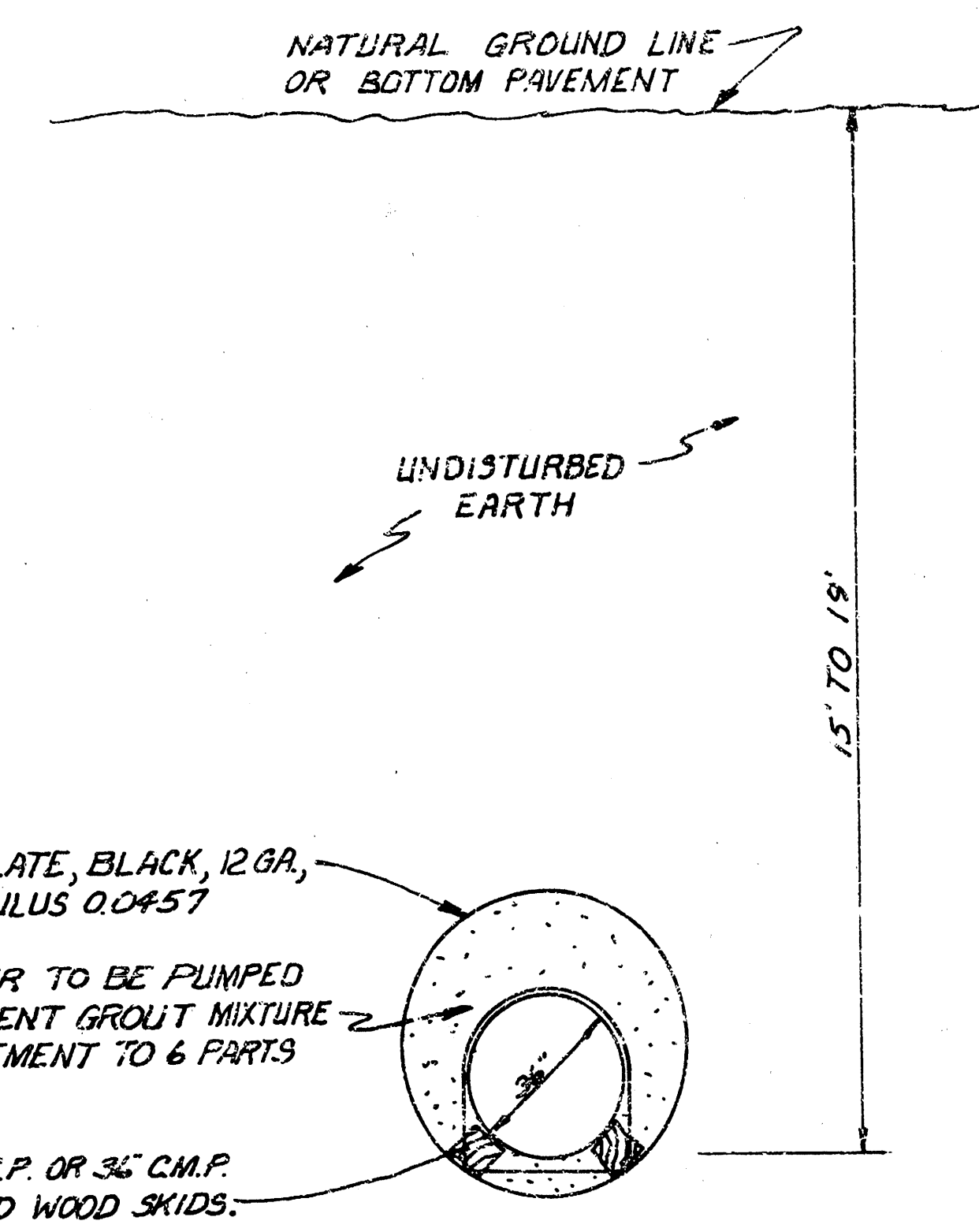


MANHOLE RING

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



ORDINARY BEDDING METHOD
FOR REINFORCED CONCRETE PIPE



TYPICAL SECTION

TUNNEL LINER AT M^{LE} LEAN BLVD. CROSSING
STA. 0+90 TO STA. 1+90

1. ALL COSTS OF LABOR & MATERIALS FOR INSTALLING 54" LINER PLATE, BLACK, 12 GA, SECTION MODULUS 0.0457
2. ALL COSTS OF LABOR & MATERIALS FOR PUMPING 54" TUNNEL LINER FULL OF GROUT SHALL BE INCLUDED IN THE BID PRICE OF LIN. FT. 54" TUNNEL LINER.
3. 36" R.C.P. OR 36" C.M.P. PLACED IN 54" TUNNEL LINER SHALL BE PAID BY THE LIN. FT. OF 36" R.C.P. OR 36" C.M.P.

MANHOLES

THE CONCRETE USED FOR MORTAR IN MANHOLES SHALL CONTAIN 6 BAGS OF PORTLAND CEMENT PER CUBIC YARD.

STANDARD MANHOLES AND DROP MANHOLES, RESHAPED, OF DIAMETER, SHALL BE BID AT ONE PRICE AS STANDARD MANHOLES.

SINGLE OR DOUBLE OUTSIDE DROP MANHOLES SHALL BE BIDDING AT ONE PRICE AS OUTSIDE DROP MANHOLES.

ALL MANHOLES WITH PIPES LARGER THAN 24" SHALL BE 27" DIA. 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

1 1/4 4/4 1 2 1964 8