

MAIN 5, SOUTHWEST INTERCEPTOR SEWER
PARTS I & II

PROJ. NO. DBKM572018

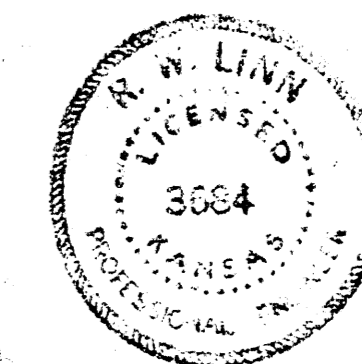
CITY OF WICHITA, KANSAS

INDEX OF SHEETS

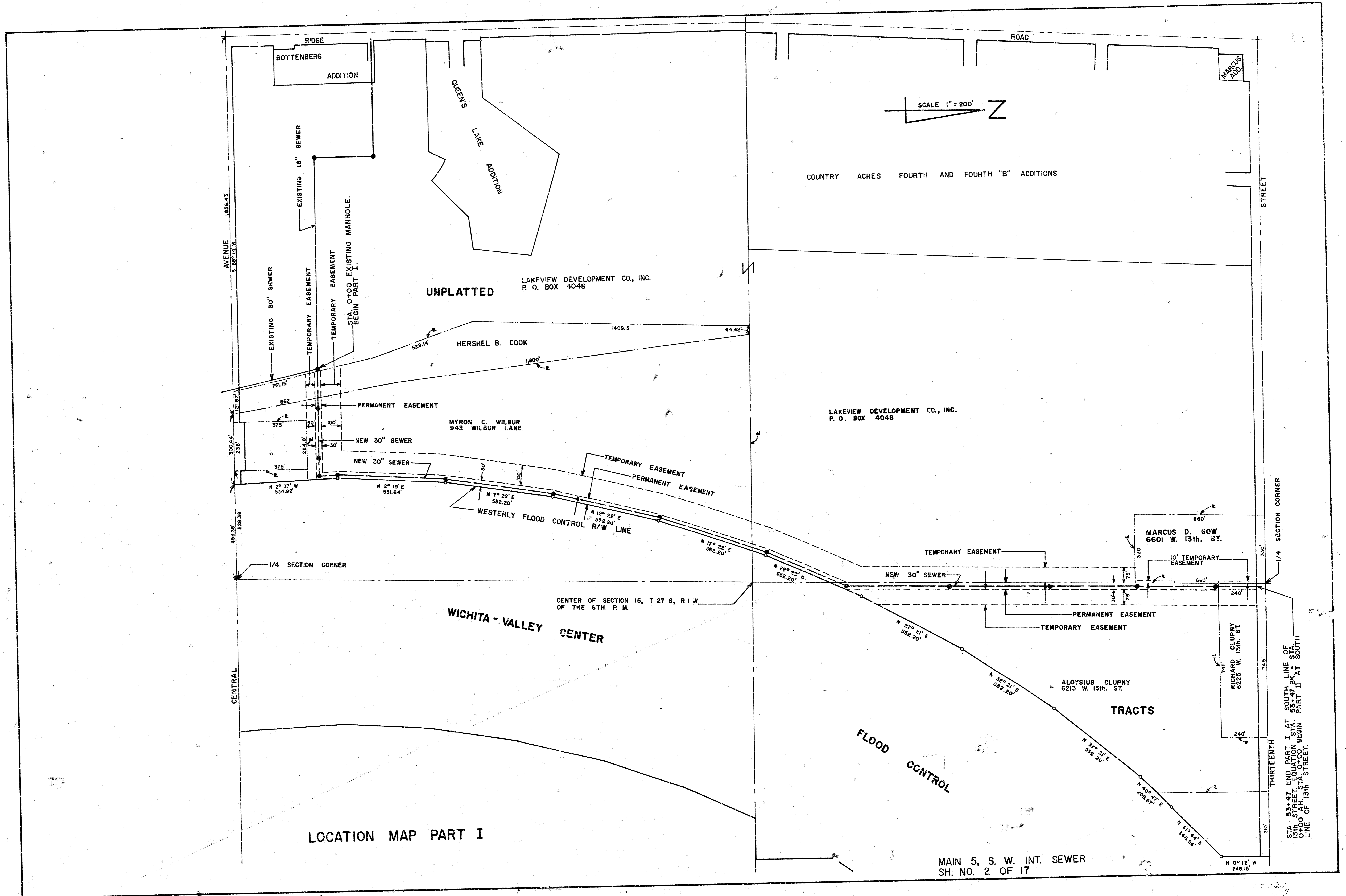
1	TITLE SHEET
2	LOCATION MAP PART I
3	LOCATION MAP PART II
4-8	PLAN & PROFILE PART I
9-12	PLAN & PROFILE PART II
13	SIPHON DETAILS PART I
14 & 15	REINF. CONC. MANHOLE DETAILS PARTS I & II
16	PREGAST & CAST IN PLACE MANHOLE DETAILS PARTS I & II
17	SEWER APPURTENANCES & BRICK MANHOLE DETAILS PARTS I & II

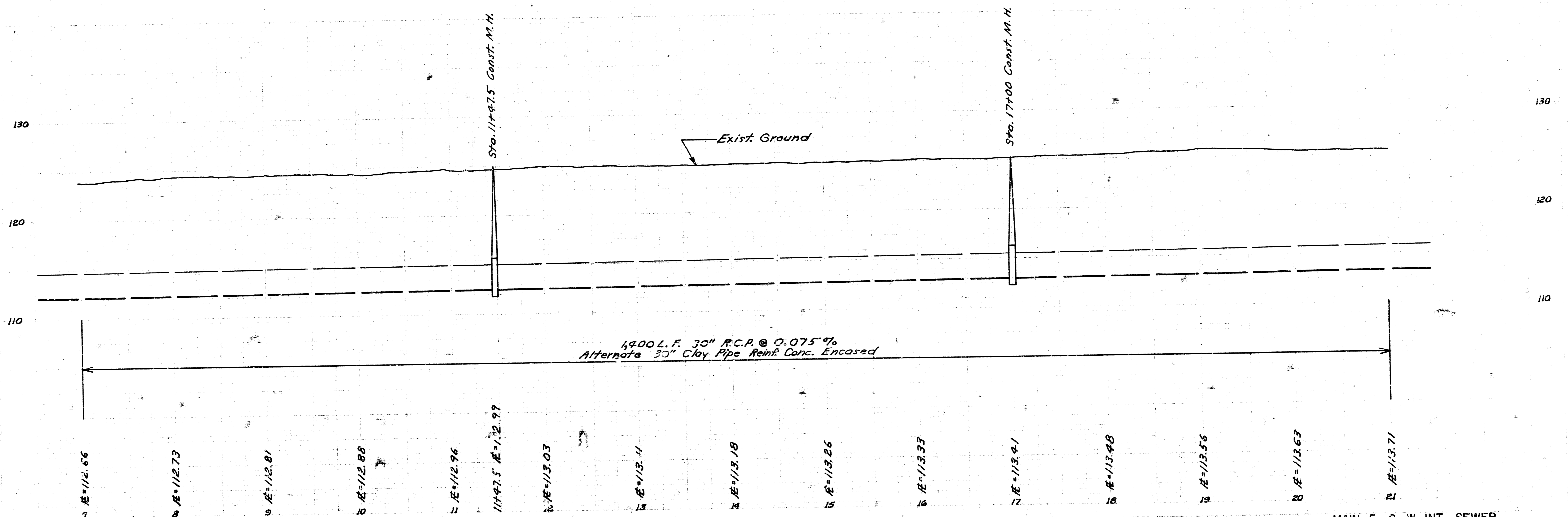
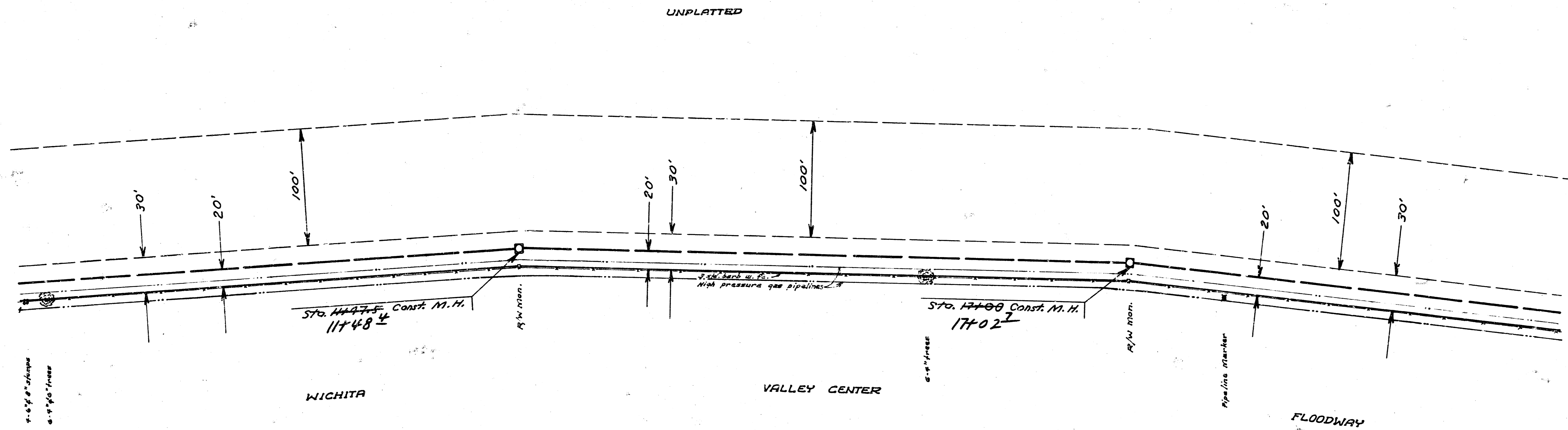
PLANS PREPARED BY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
CITY OF WICHITA, KANSAS
R. W. BRUGGEMAN, DIRECTOR OF PUBLIC WORKS
R. W. LINN, CITY ENGINEER

R. W. Linn DATE: _____
R.W. LINN CITY ENGINEER



As Built 1-10-76

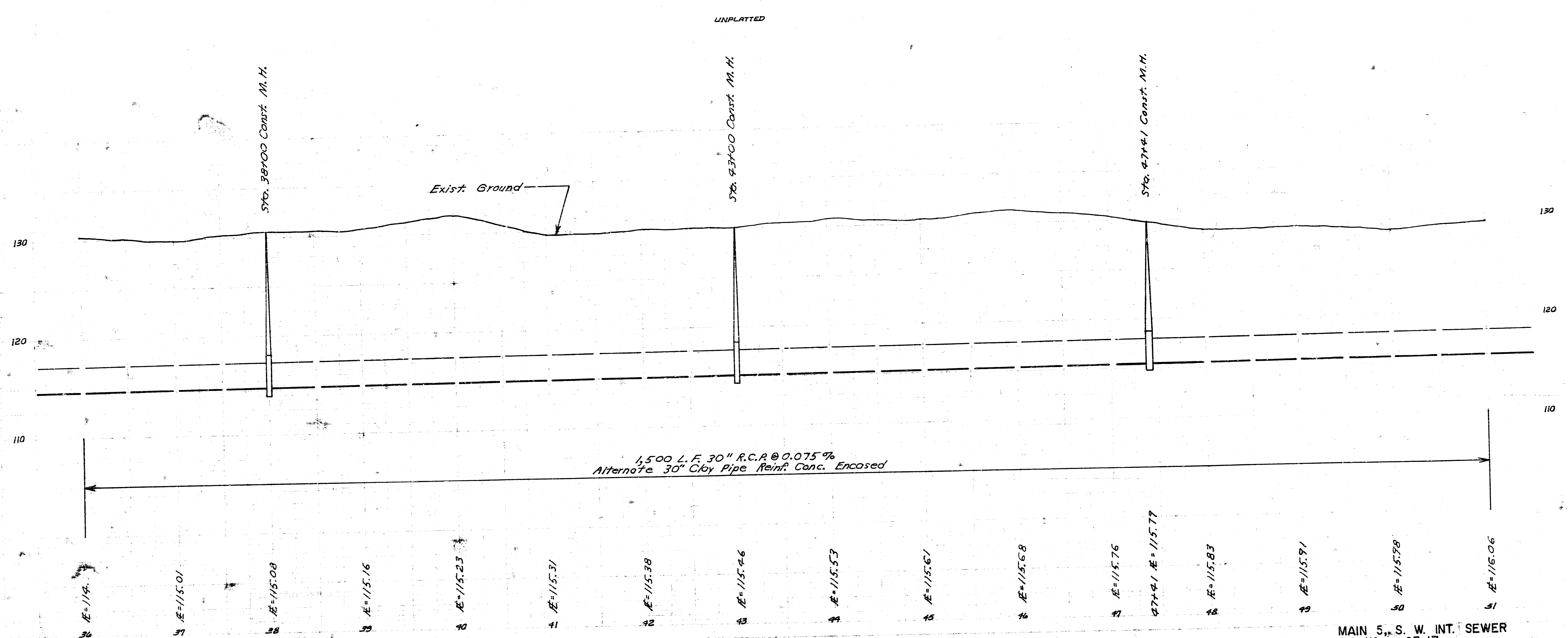
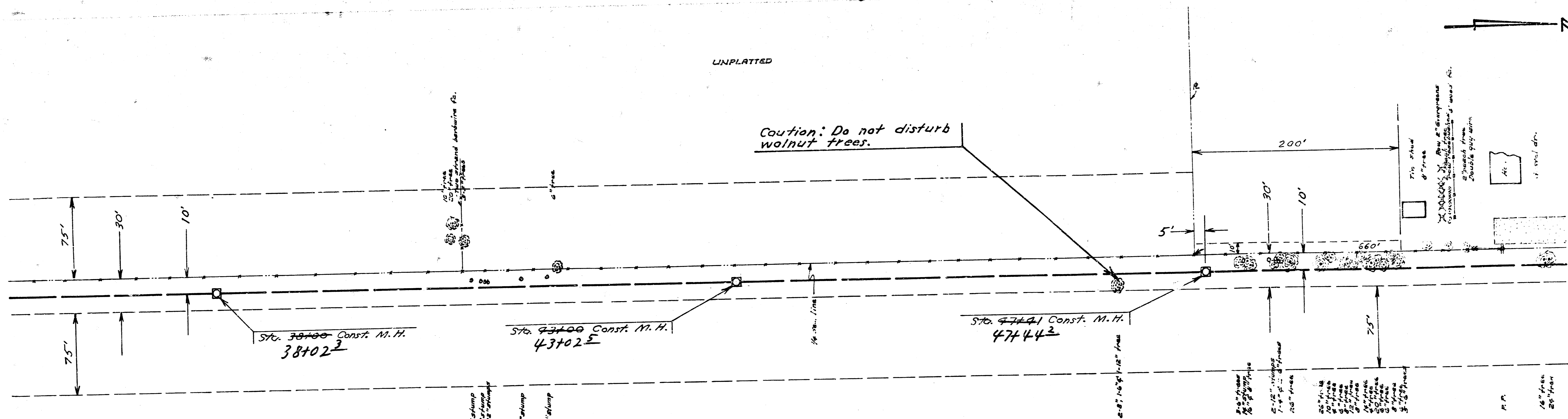




MAIN 5, S. W. INT. SEWER
SH. NO. 5 OF 17

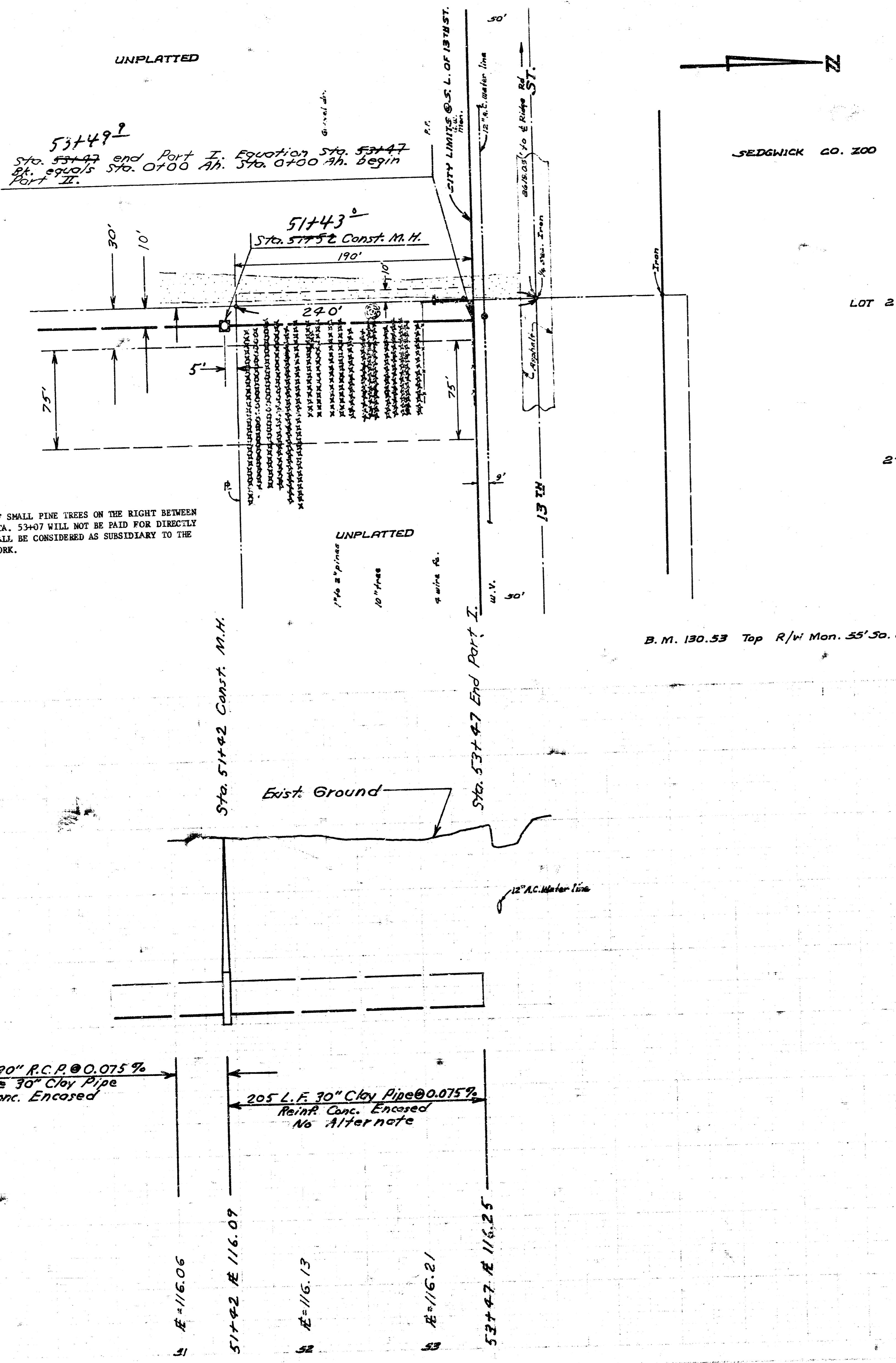
5/17

FILMED FROM THE BEST
AVAILABLE COPY



MAIN 5th S. W. INT. SEWER
SH. NO. 7 OF 17

FILMED FROM THE BEST
AVAILABLE COPY



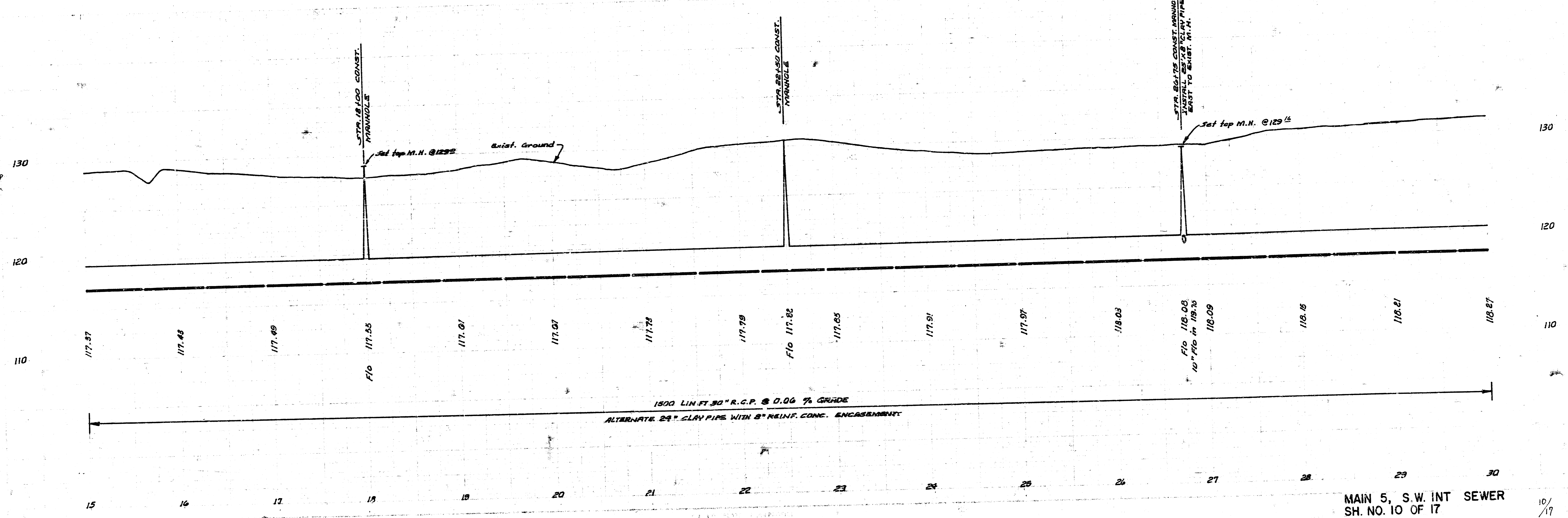
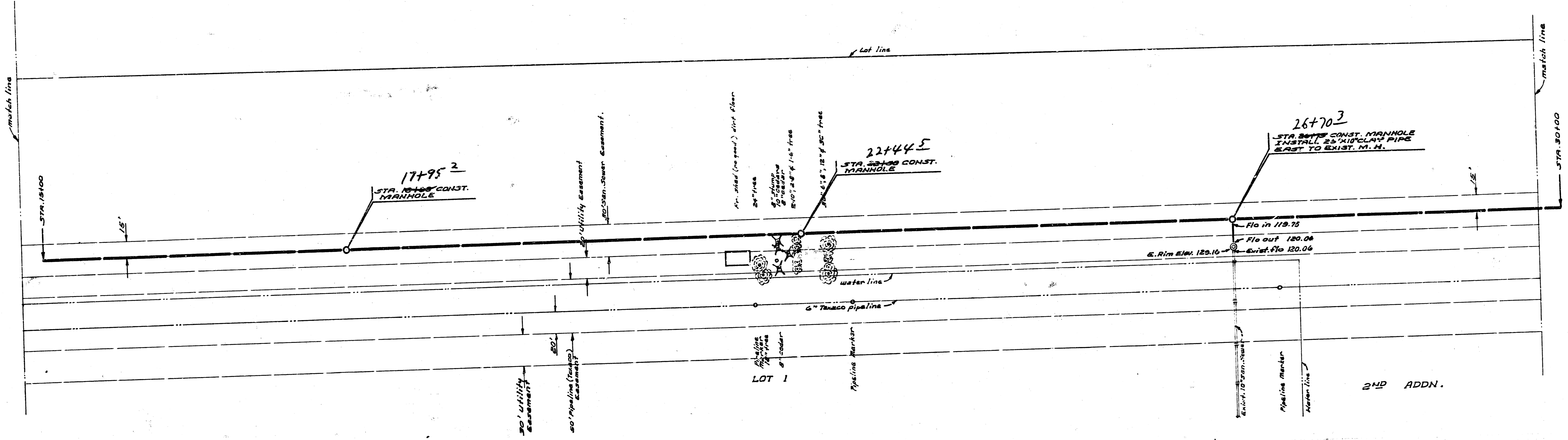
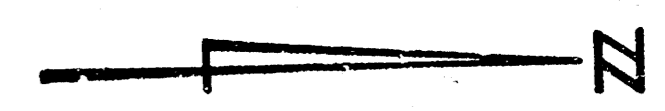
Manhole Schedule Part I		
Location	Type	Location of Openings for Future Sewers
2+00.00	Special Rein. Conc. No Alternate	None
4+20.00	Special Rein. Conc. No Alternate	8" South E=114.18
5+00.00	Rein. Conc. Alternate 5' Dia. Type B	8" South E=114.34
5+94.00	Rein. Conc. Alternate 5' Dia. Type B	8" West E=114.41
11+47.50	Rein. Conc. Alternate 5' Dia. Type B	8" West E=114.83
17+00.00	Rein. Conc. Alternate 5' Dia. Type B	8" West E=115.24
22+54.00	Rein. Conc. Alternate 5' Dia. Type B	8" West E=115.95
27+43.00	Special Rein. Conc. Alternate 5' Dia. Type B	10" West E=116.70
32+78.00	Rein. Conc. Alternate 5' Dia. Type B	8" West E=116.52
38+00.00	Structural Tee Alternate 5' Dia. Type B	8" West & 8" East E=116.91
43+00.00	Structural Tee Alternate 5' Dia. Type B	8" West & 8" East E=117.29
47+41.00	Structural Tee Alternate 5' Dia. Type B	8" West & 8" East E=117.63
51+52.00	Structural Tee Alternate 5' Dia. Type B	8" West & 8" East E=117.93

NOTE: ALL STUBS AND OPENINGS FOR FUTURE 8" SEWER CONNECTIONS SHALL BE INSTALLED TO PERMIT CONSTRUCTION OF THE FUTURE 8" SEWERS ON A 0.4% GRADE. ALL STUBS AND OPENINGS FOR FUTURE 10" SEWER CONNECTION SHALL BE INSTALLED TO PERMIT CONSTRUCTION OF THE FUTURE 10" SEWERS ON A 0.3% GRADE. ALL WORK AND MATERIALS NECESSARY TO CONSTRUCT OPENINGS OR STUBS FOR FUTURE SEWER CONNECTIONS WILL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER ITEMS OF WORK. ALTERNATE BRICK MANHOLES TO BE USED ONLY WITH REINFORCED CONCRETE ENCASED CLAY PIPE.

NOTE: CONTRACTOR SHALL CONSTRUCT AND MAINTAIN A TEMPORARY GRAVEL DRIVE TO PROVIDE ACCESS TO HOUSE LEFT OF STA. 50+40 WHILE CONSTRUCTING SEWER ADJACENT TO THIS PROPERTY. TEMPORARY DRIVE SHALL BE REMOVED AND THE PREMISES RESTORED TO THE ORIGINAL CONDITION UPON COMPLETION OF THE WORK. CONTRACTOR SHALL CONSTRUCT AN ASPHALT DRIVEWAY TWELVE (12) FEET WIDE TO REPLACE THE ORIGINAL GRAVEL DRIVE. THE DRIVEWAY SHALL CONSIST OF 4" COMPACTED ASPHALT PLACED IN TWO 2" LIFTS. ASPHALT DRIVEWAY CONSTRUCTION SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE CITY OF WICHITA STANDARD SPECIFICATIONS FOR ASPHALT PAVEMENT. ASPHALTIC MATERIALS SHALL CONFORM TO THE REQUIREMENTS SPECIFIED FOR ASPHALT SURFACE COURSE (TYPE SC-1). THE APPROXIMATE QUANTITY OF ASPHALT DRIVEWAY CONSTRUCTION IS 500 SQ. YDS. THE WORK CONSISTING OF CONSTRUCTION AND MAINTENANCE OF A TEMPORARY GRAVEL DRIVE; REMOVAL OF TEMPORARY GRAVEL DRIVE; RESTORATION OF AREA TO ORIGINAL CONDITION; AND CONSTRUCTION OF ASPHALT DRIVE TO REPLACE ORIGINAL GRAVEL DRIVE WILL NOT BE PAID FOR DIRECTLY AND THIS WORK SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER ITEMS OF WORK.

SEDGWICK COUNTY ZOO

(A) LOT 2



MAIN 5, S.W. INT SEWER SH. NO. 10 OF 17

10/17

FILMED FROM THE BEST AVAILABLE COPY.....

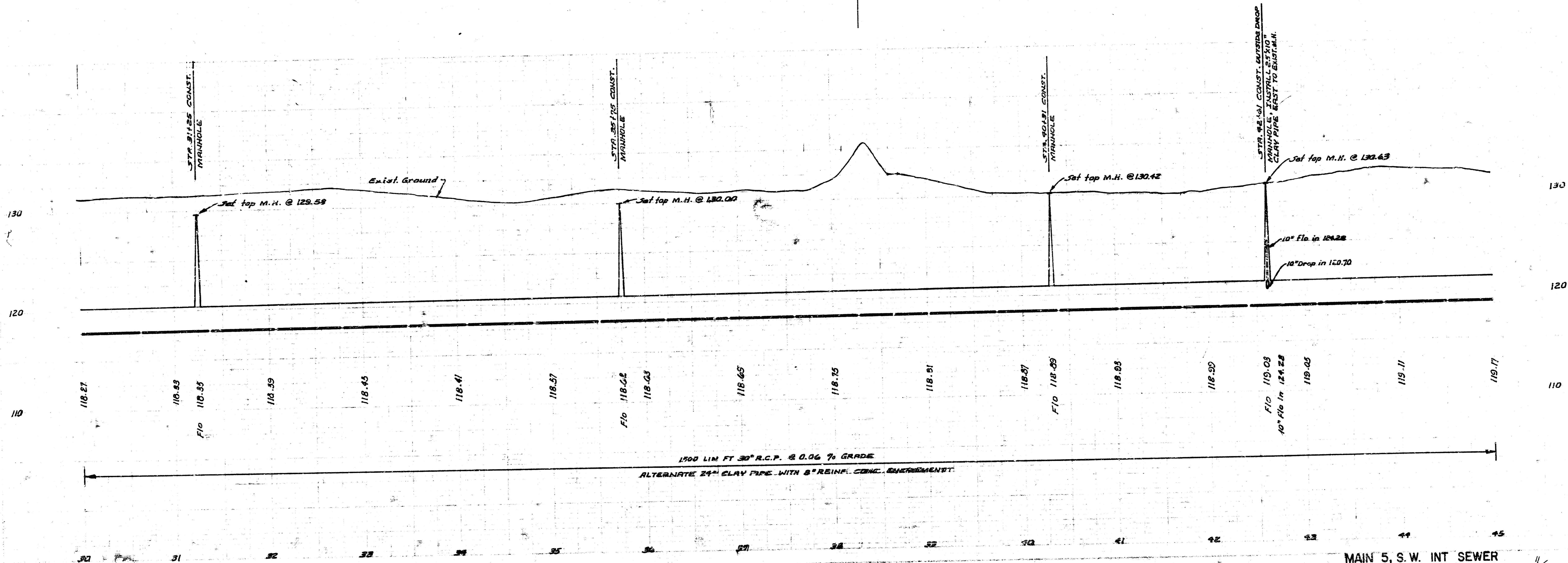
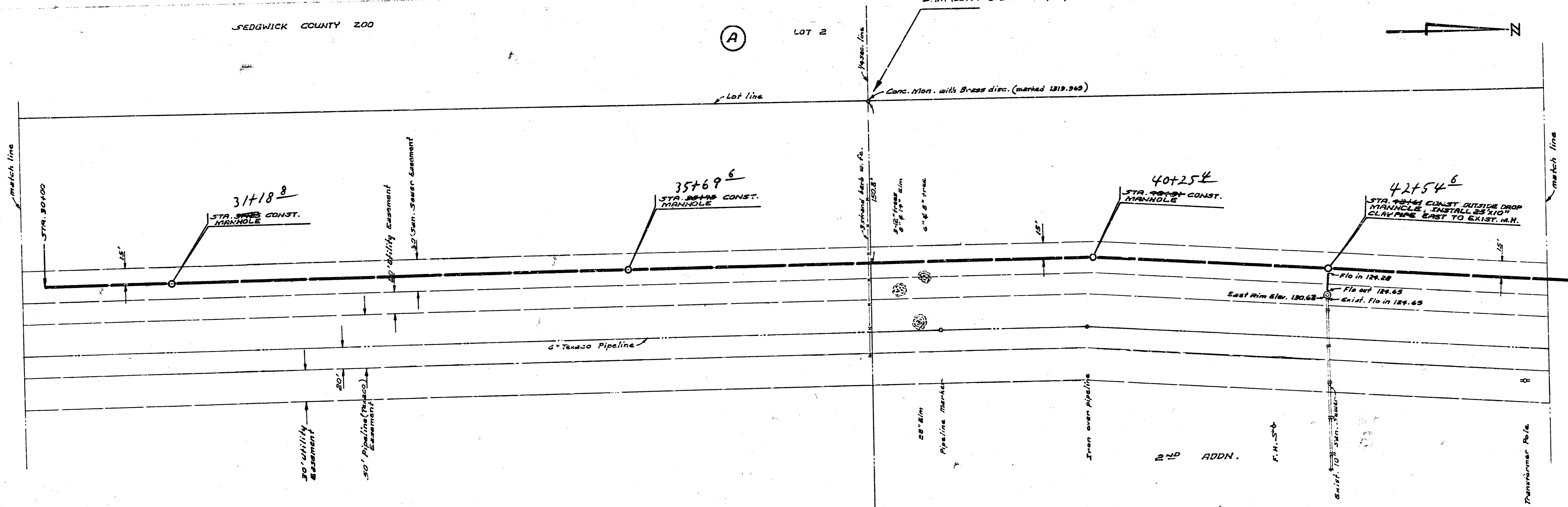
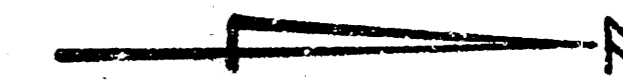
AM-60

SEDGWICK COUNTY ZOO

(A)

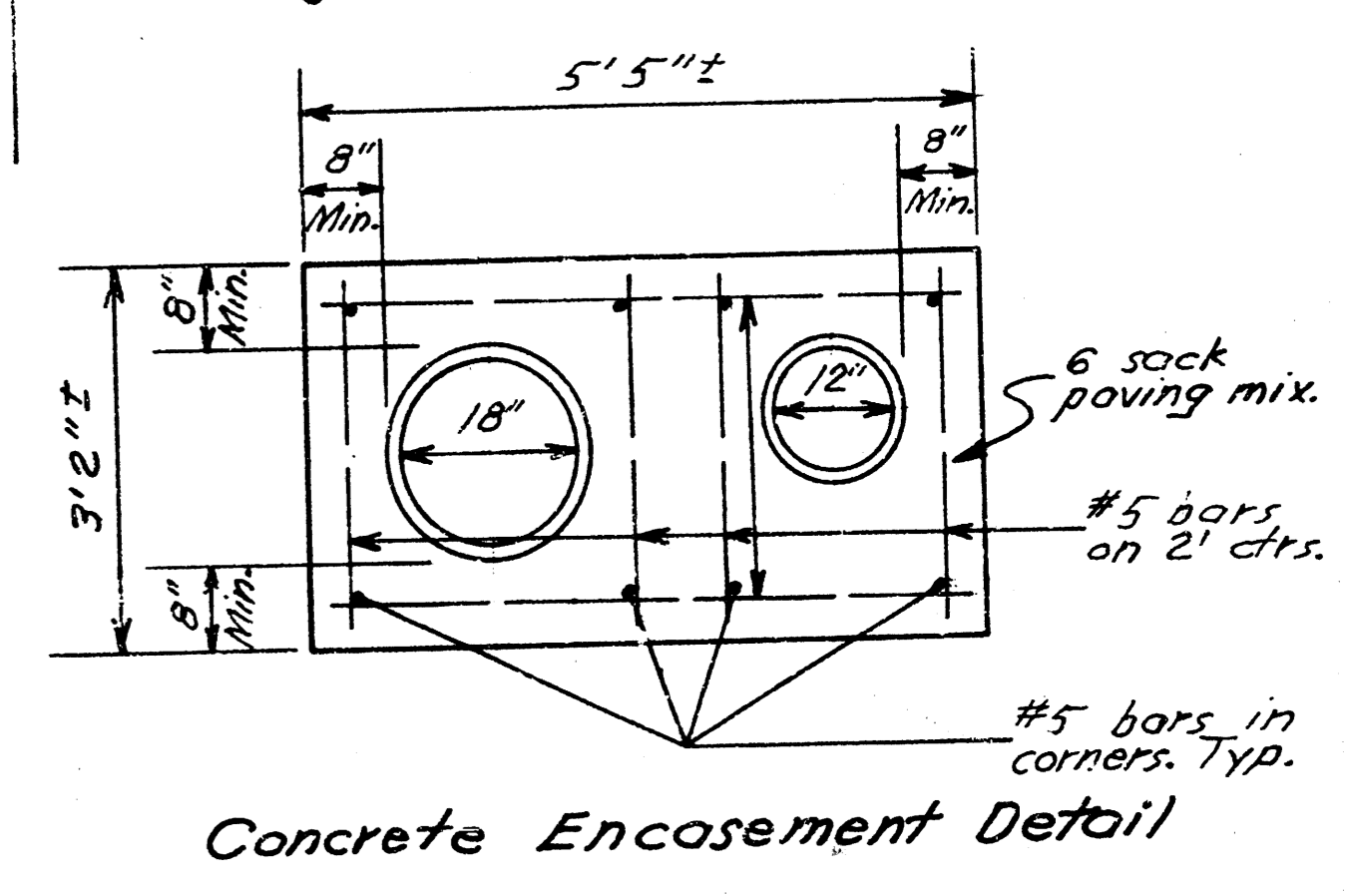
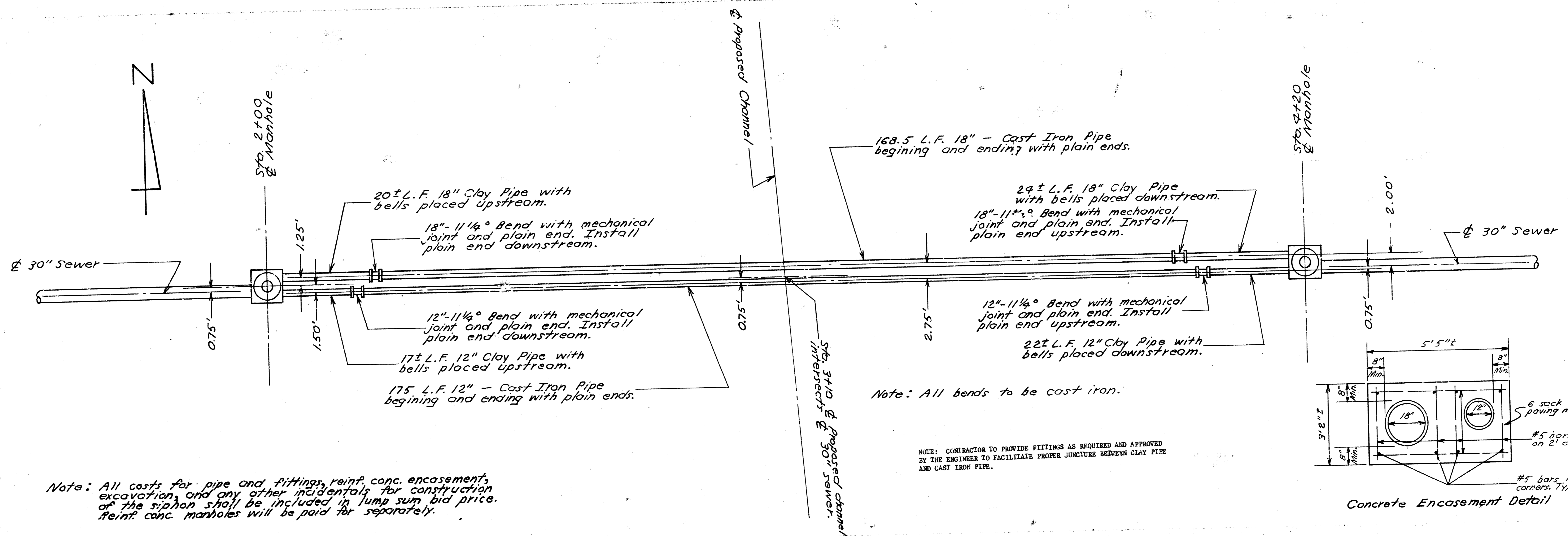
LOT 2

B.M. 132.14 Brass Disc, Top conc. Man. on 1/4 sec. line & on Lot line (see below)



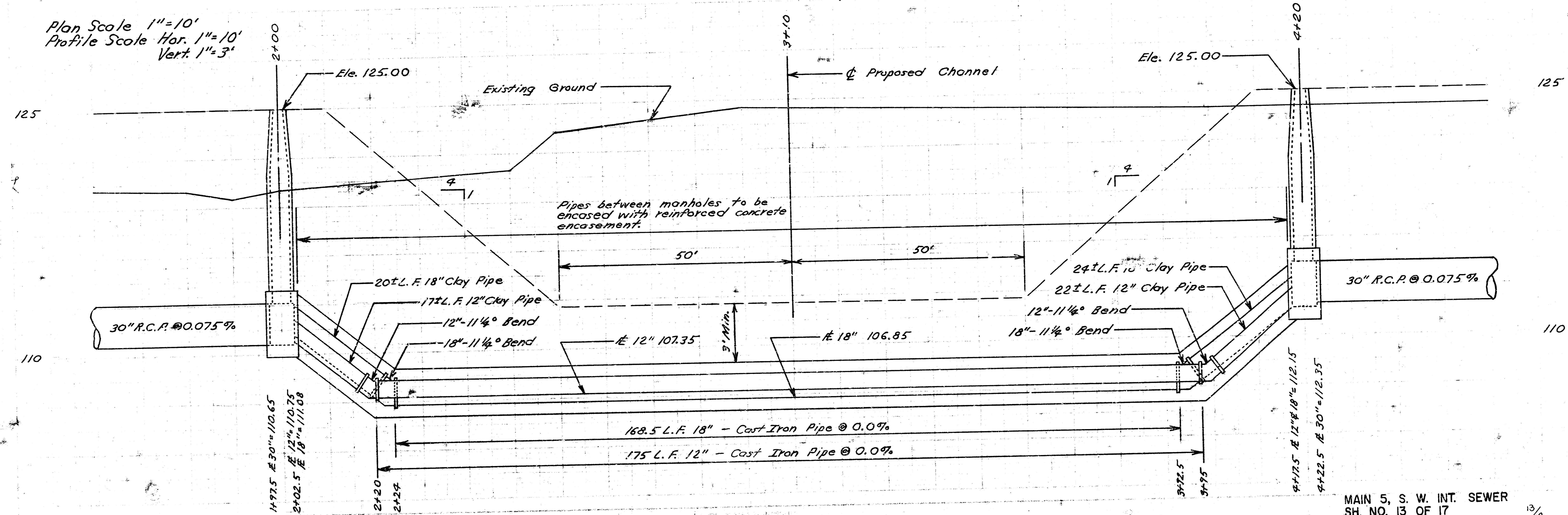
MAIN 5, S.W. INT SEWER SH. NO. 11 OF 17

FILMED FROM THE BEST AVAILABLE COPY



Note: All costs for pipe and fittings, reinf. conc. encasement, excavation, and any other incidentals for construction of the siphon shall be included in lump sum bid price. Reinf. conc. manholes will be paid for separately.

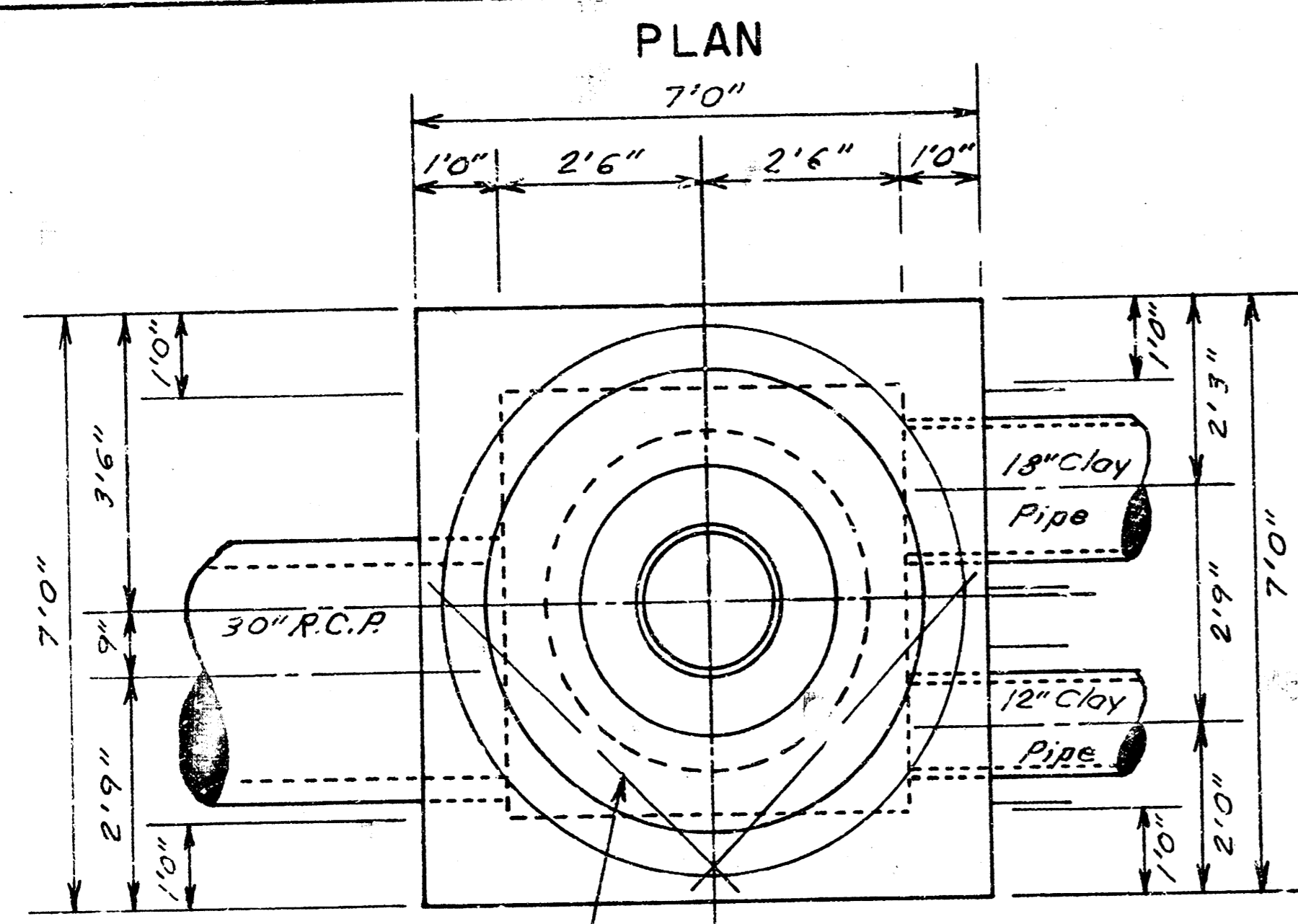
Plan Scale 1"=10'
Profile Scale Hor. 1"=10'
Vert. 1"=3'



MAIN 5, S. W. INT. SEWER
SH. NO. 13 OF 17

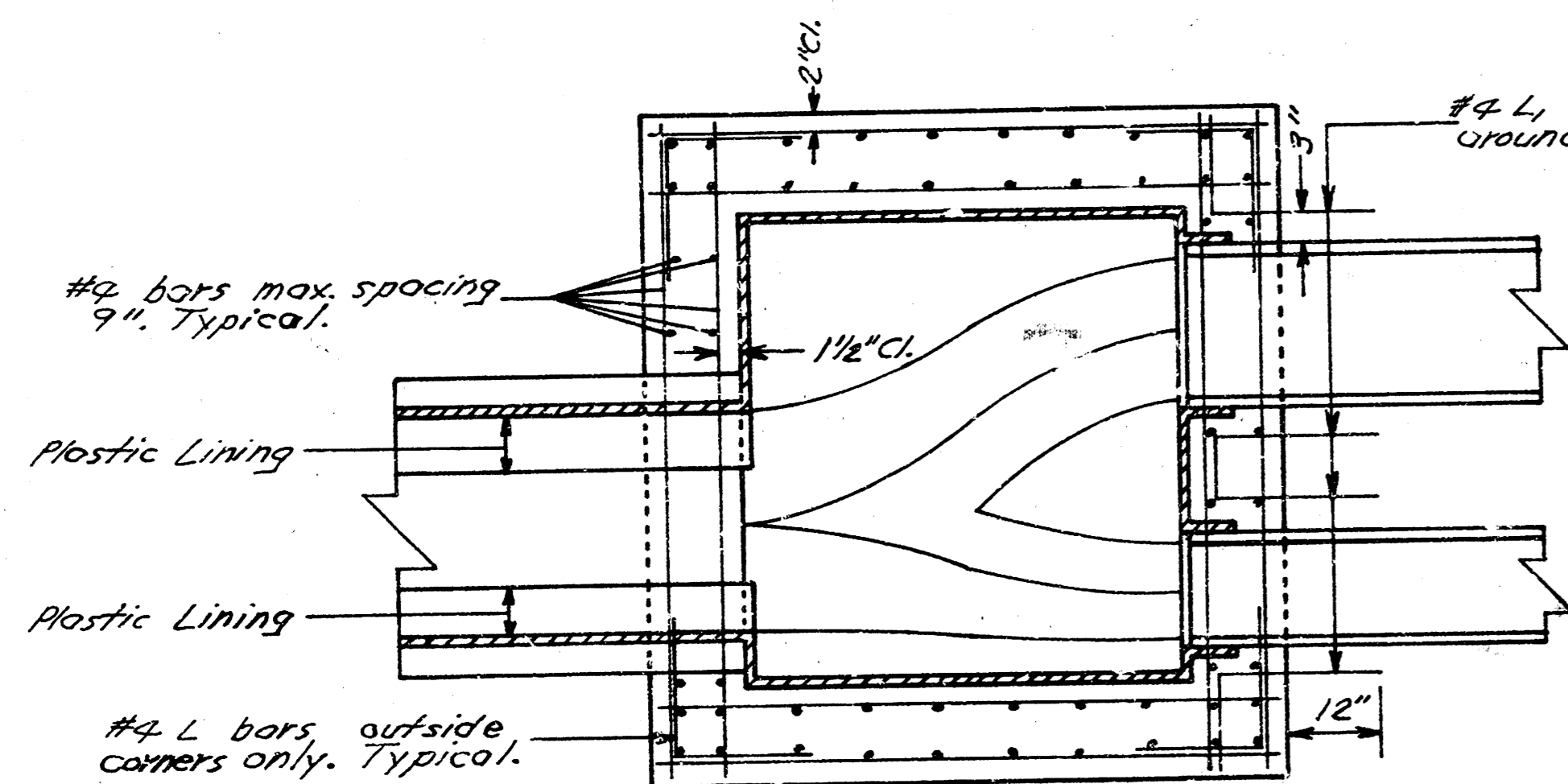
13/17

FILMED FROM THE BEST AVAILABLE COPY

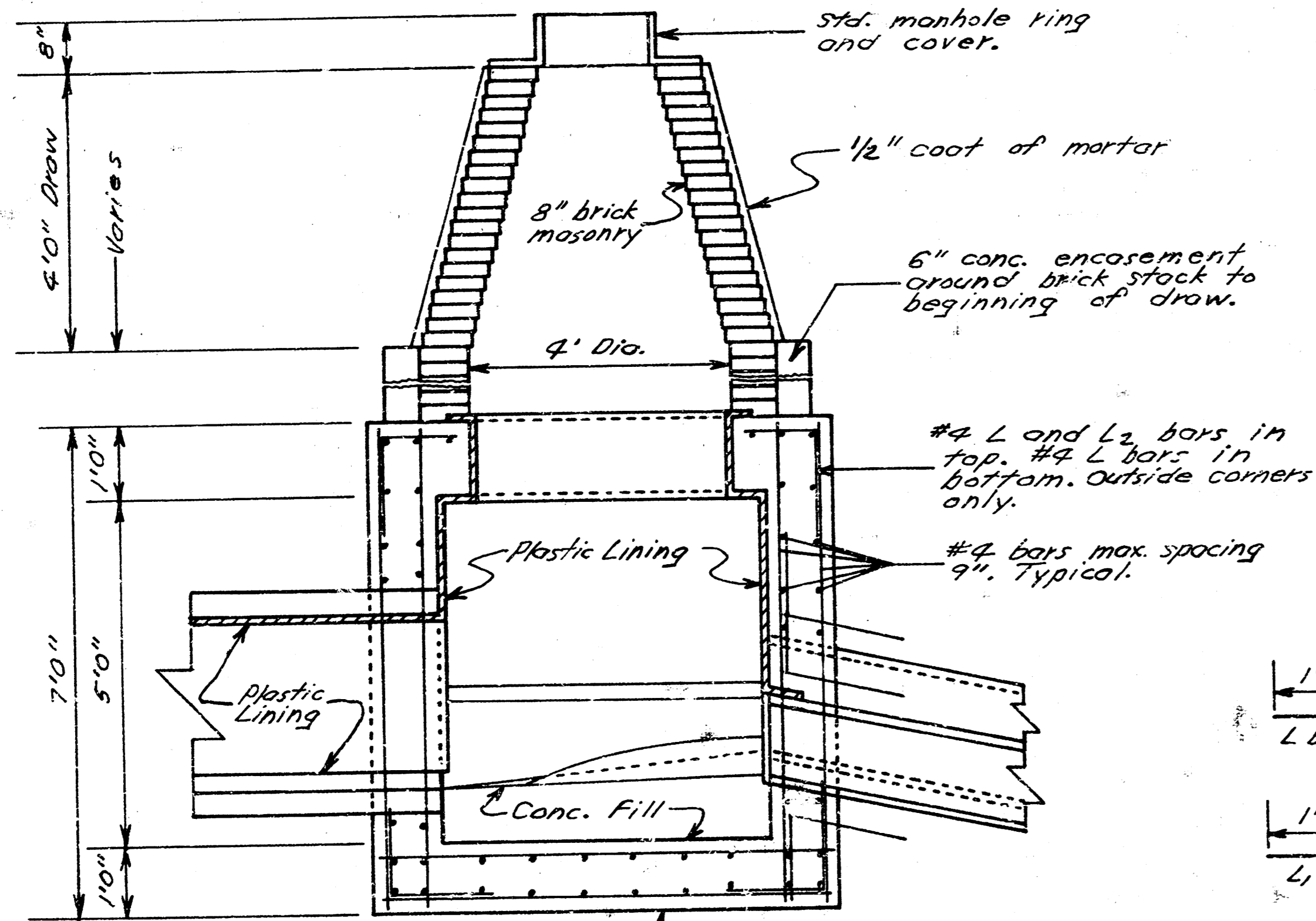


8 Additional #4 bars placed diagonally around each opening.

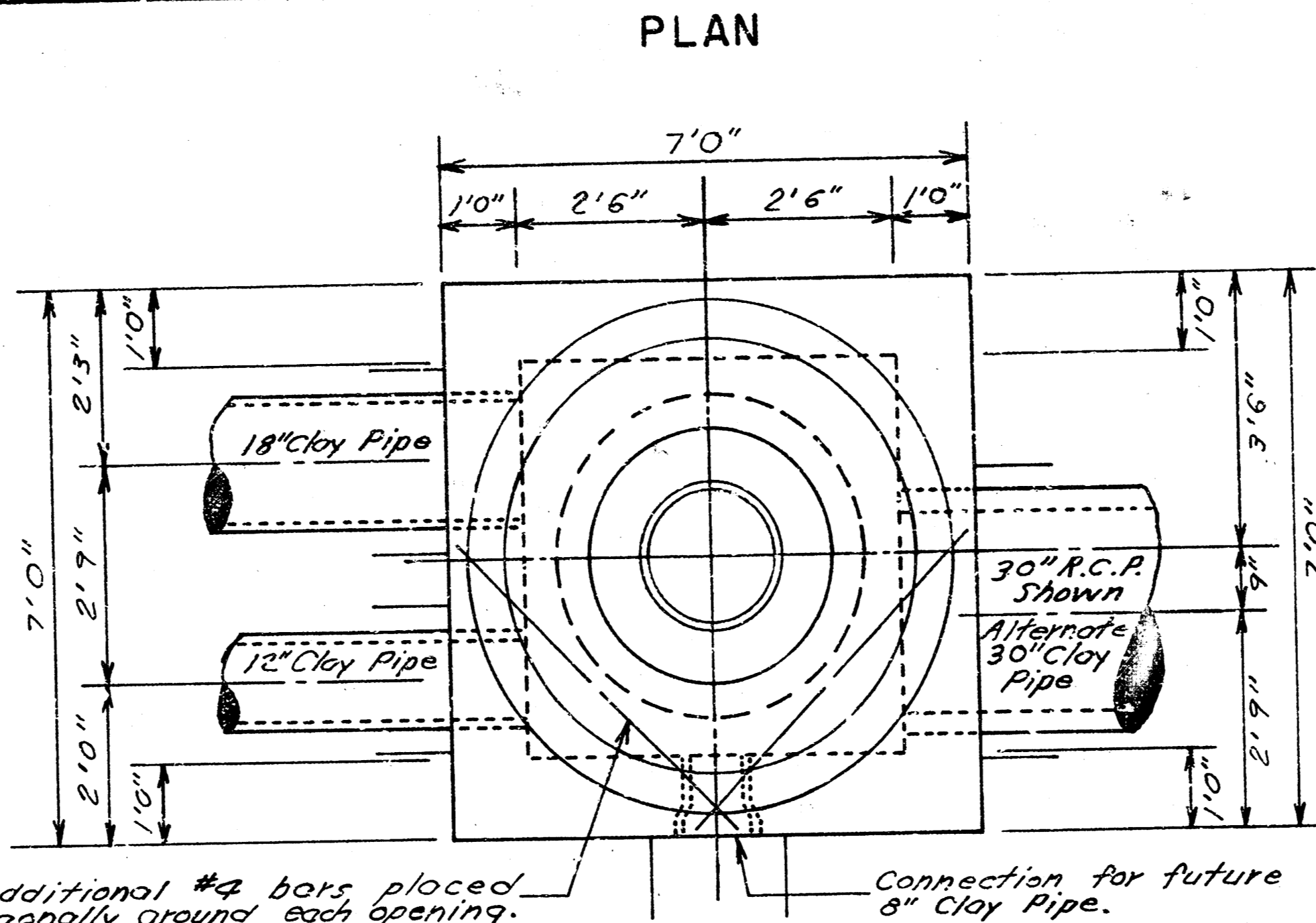
SECTIONAL PLAN



SECTIONAL ELEVATION

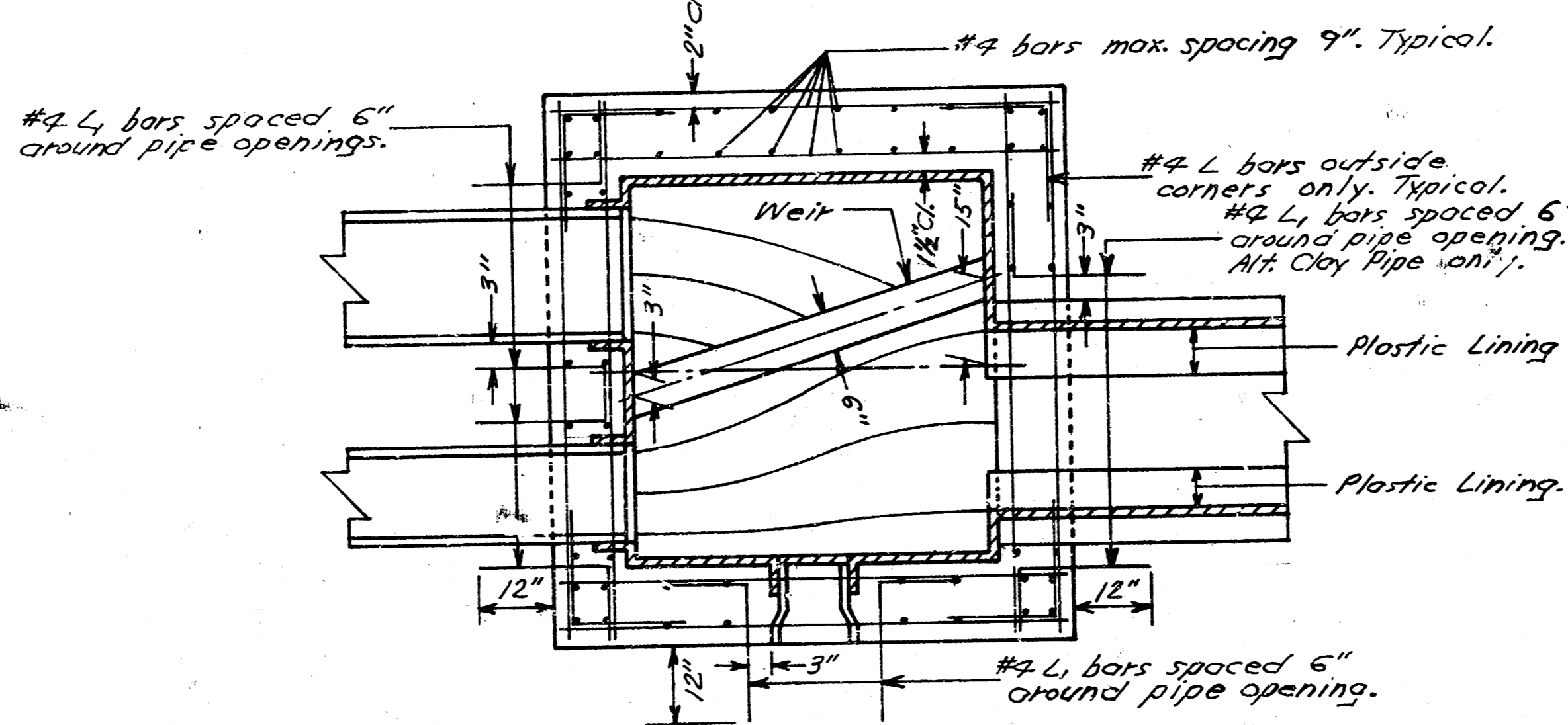


SPECIAL REINF. CONC. MANHOLE
STA. 2+00
PHASE I

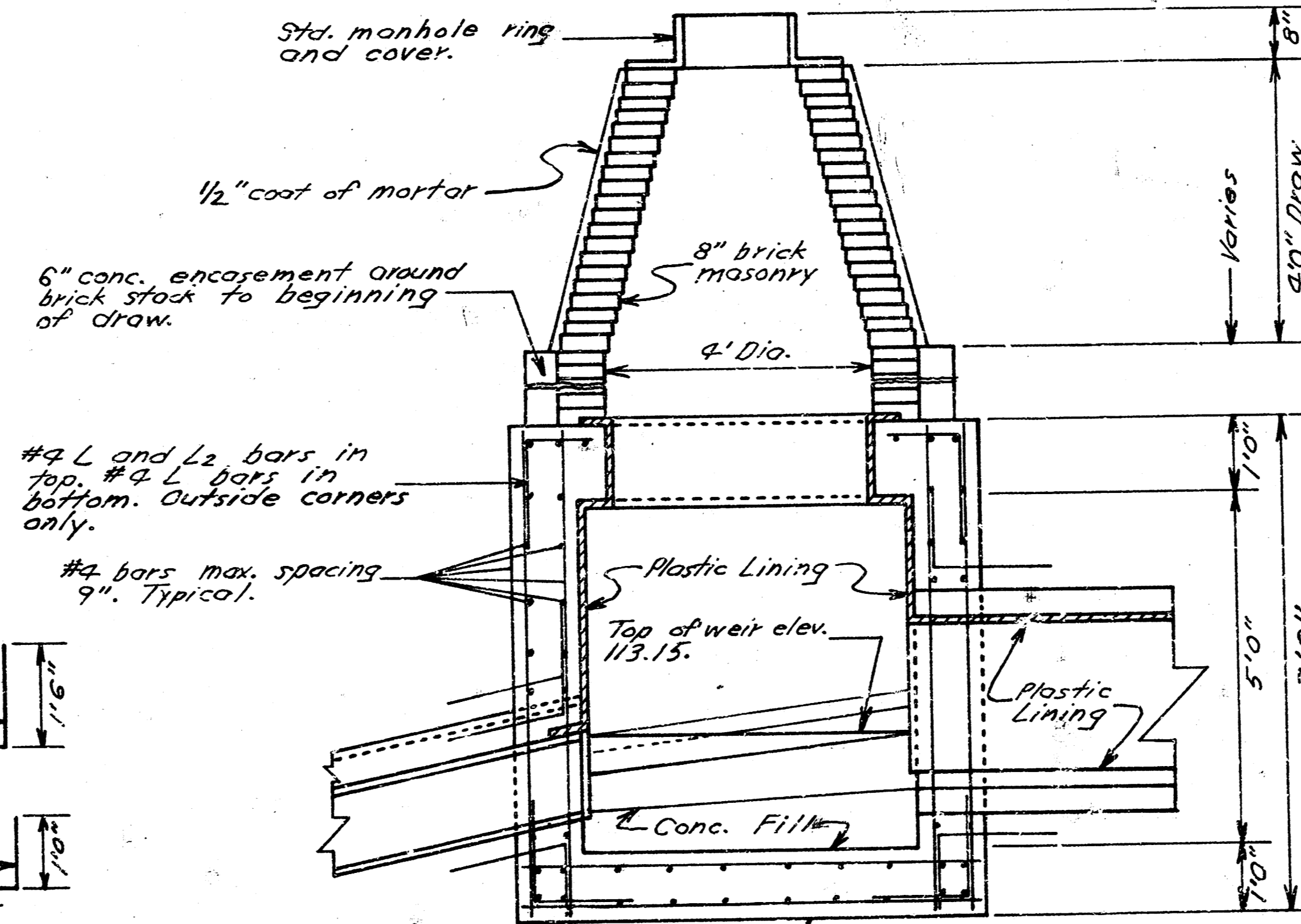


8 additional #4 bars placed diagonally around each opening. Connection for future 8" Clay Pipe.

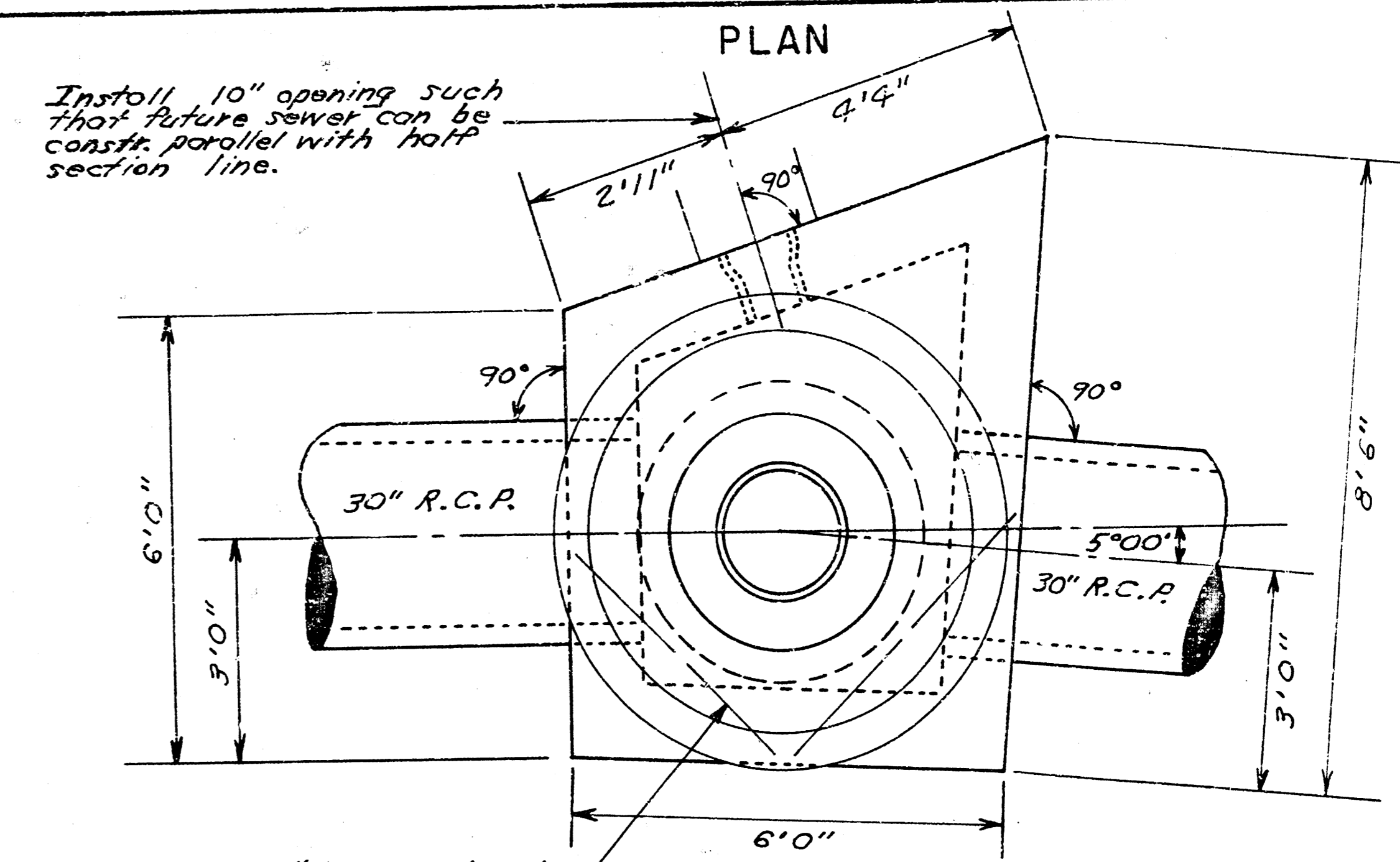
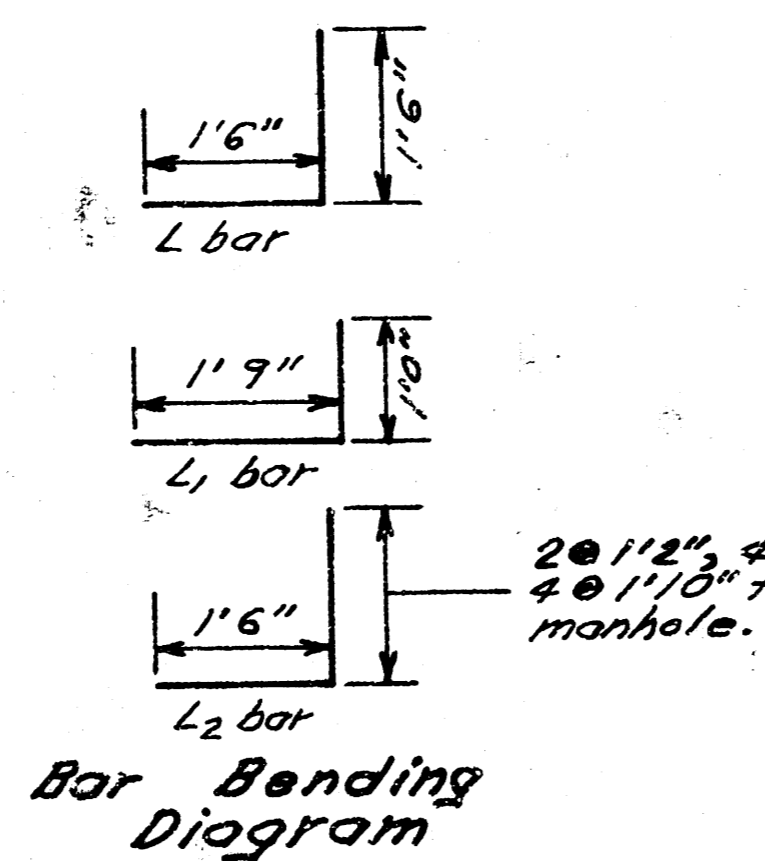
SECTIONAL PLAN



SECTIONAL ELEVATION

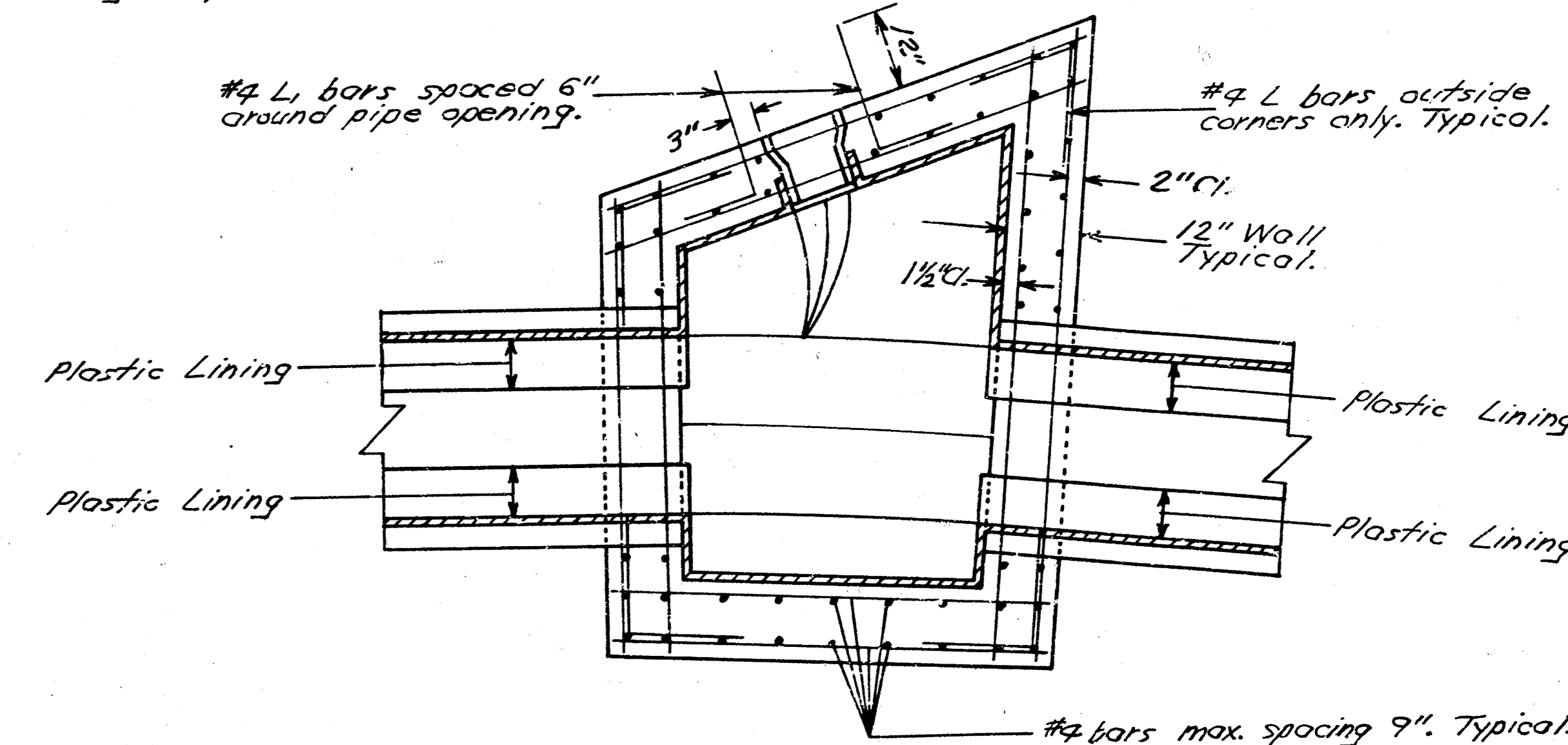


SPECIAL REINF. CONC. MANHOLE
STA. 4+20
PHASE I

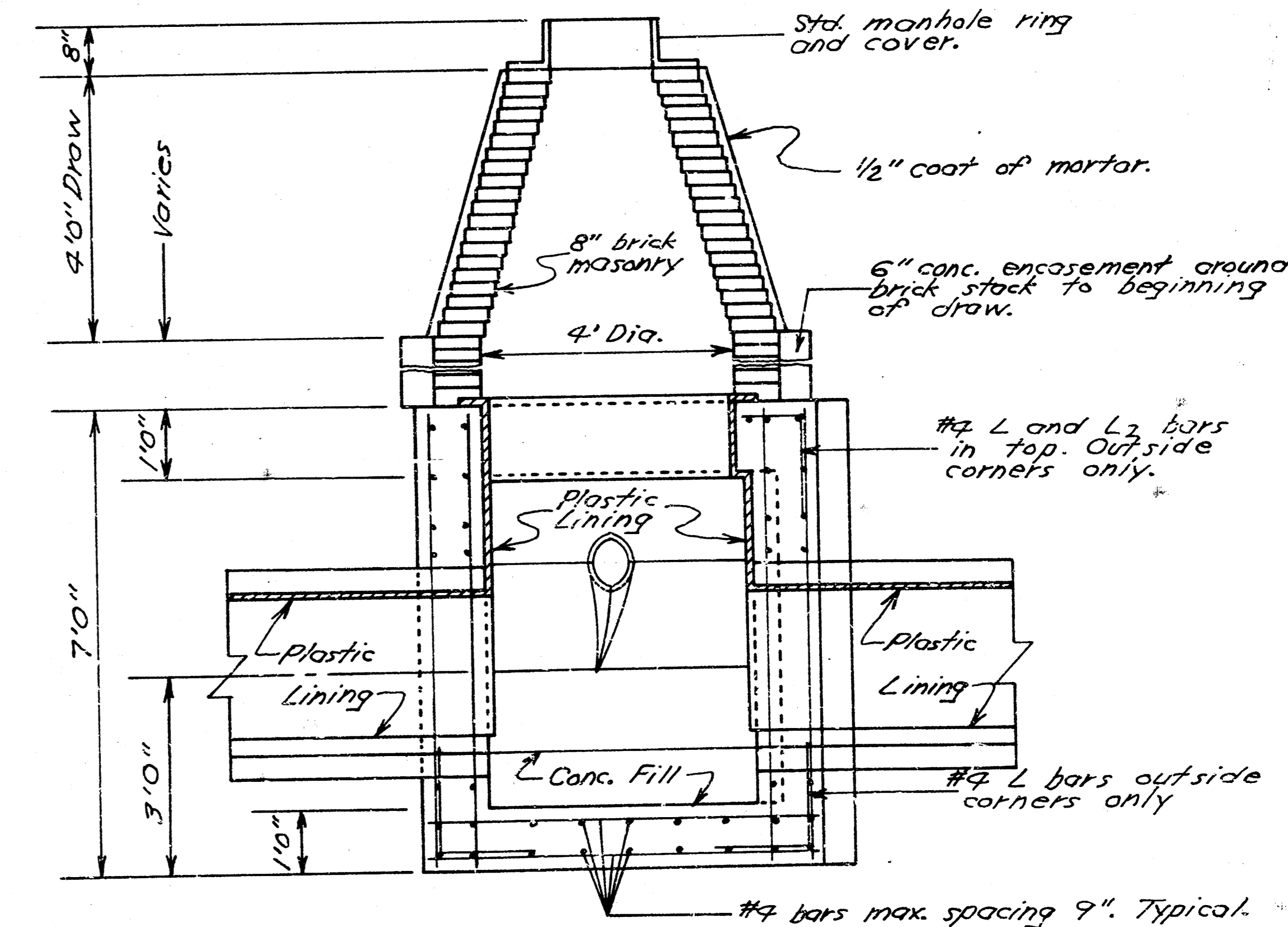


8 additional #4 bars placed diagonally around each opening.

SECTIONAL PLAN

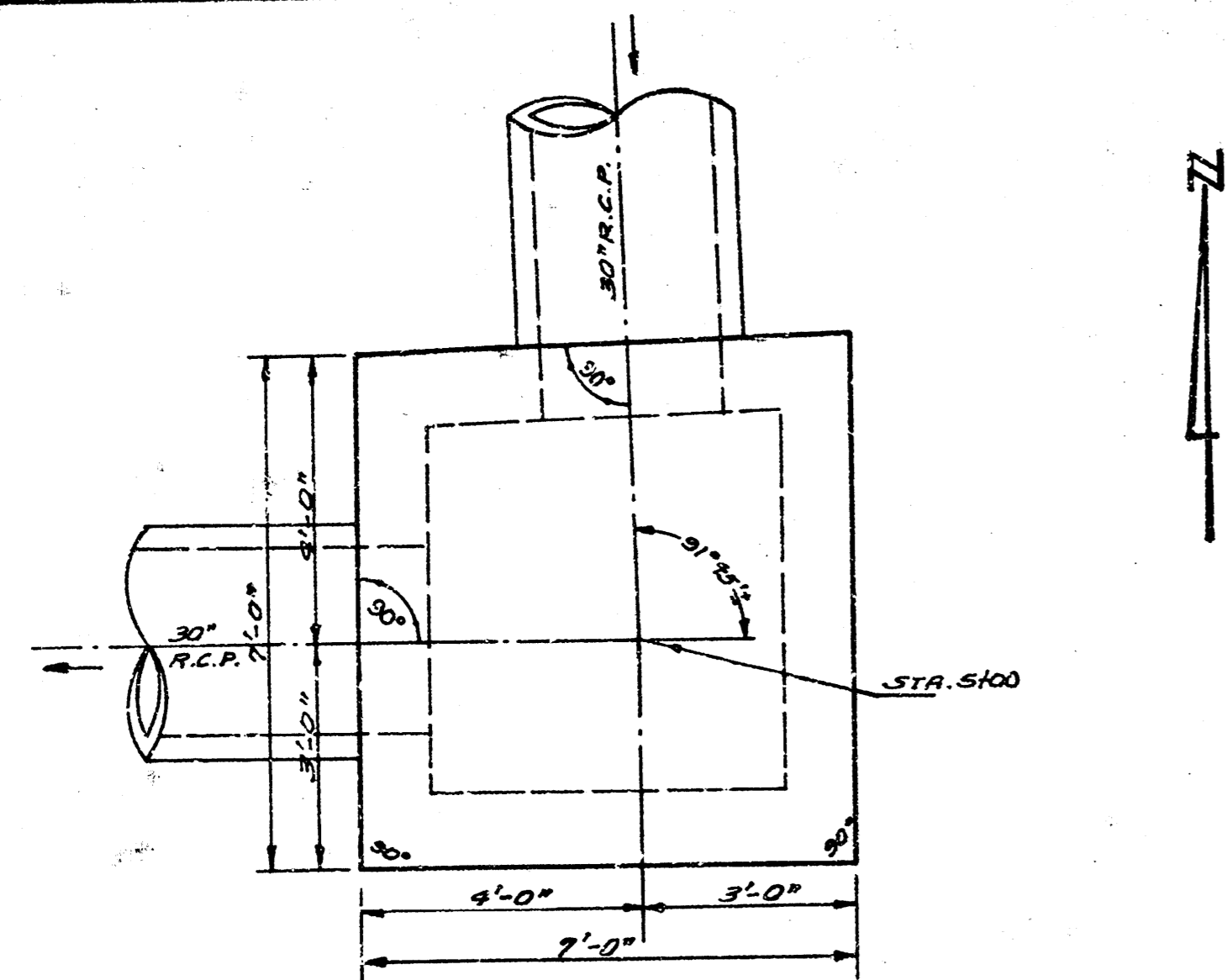


SECTIONAL ELEVATION

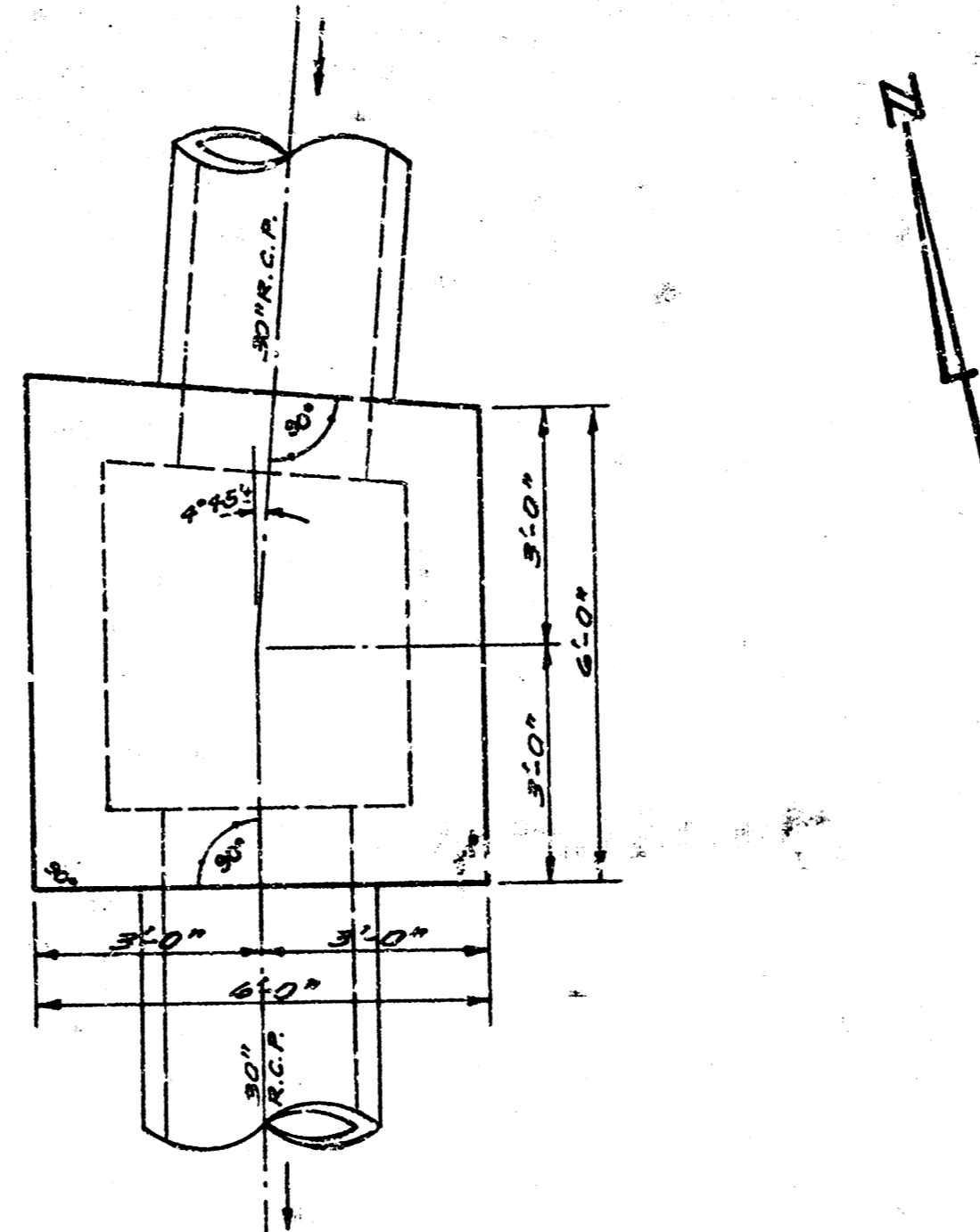


SPECIAL REINF. CONC. MANHOLE
STA. 27+43
PHASE I

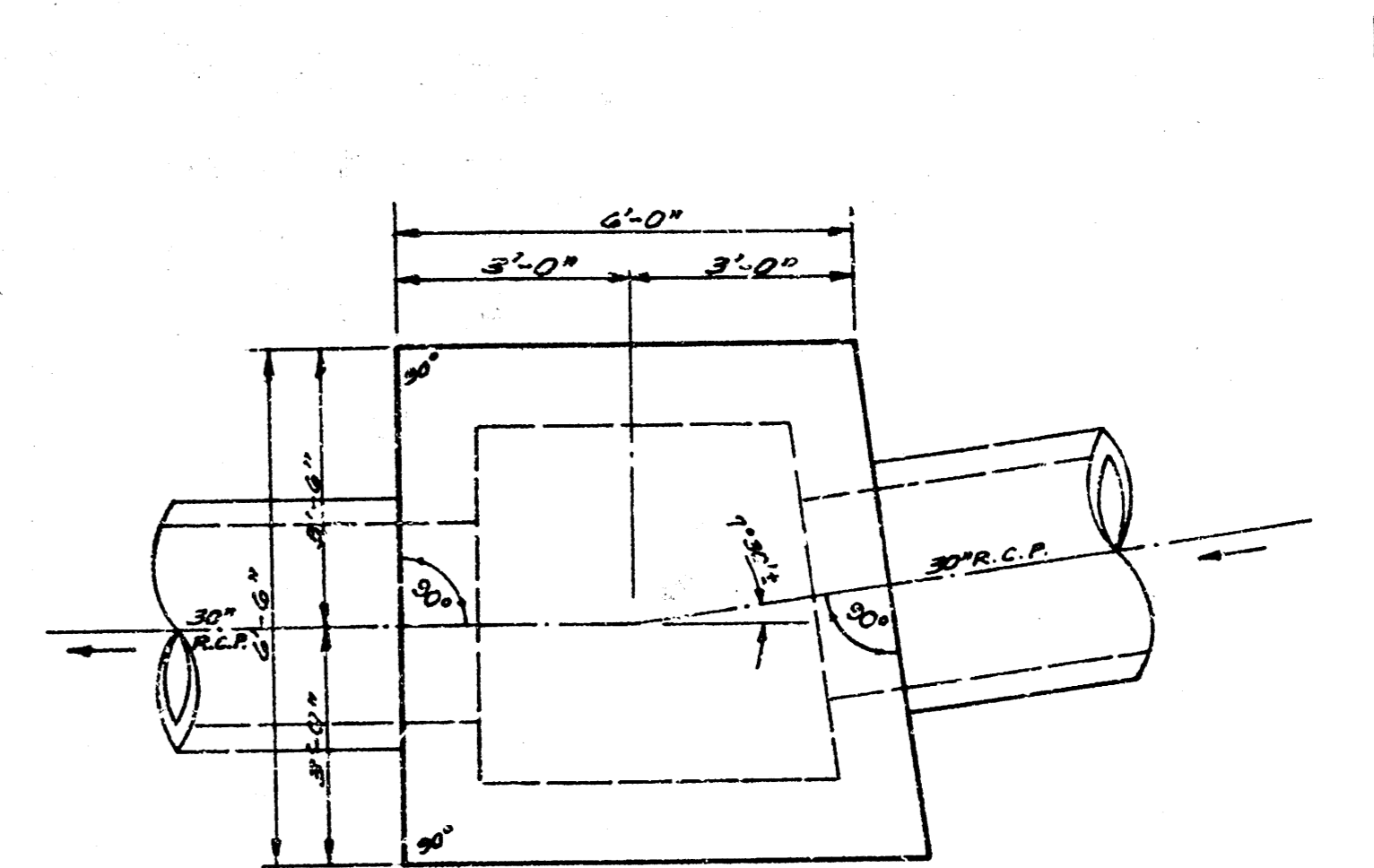
Note: Contractor may construct poured concrete manholes as shown, or at his option, the poured concrete manholes may be constructed to a minimum of one foot above water table elev. and conc. encasement omitted around brick stack.



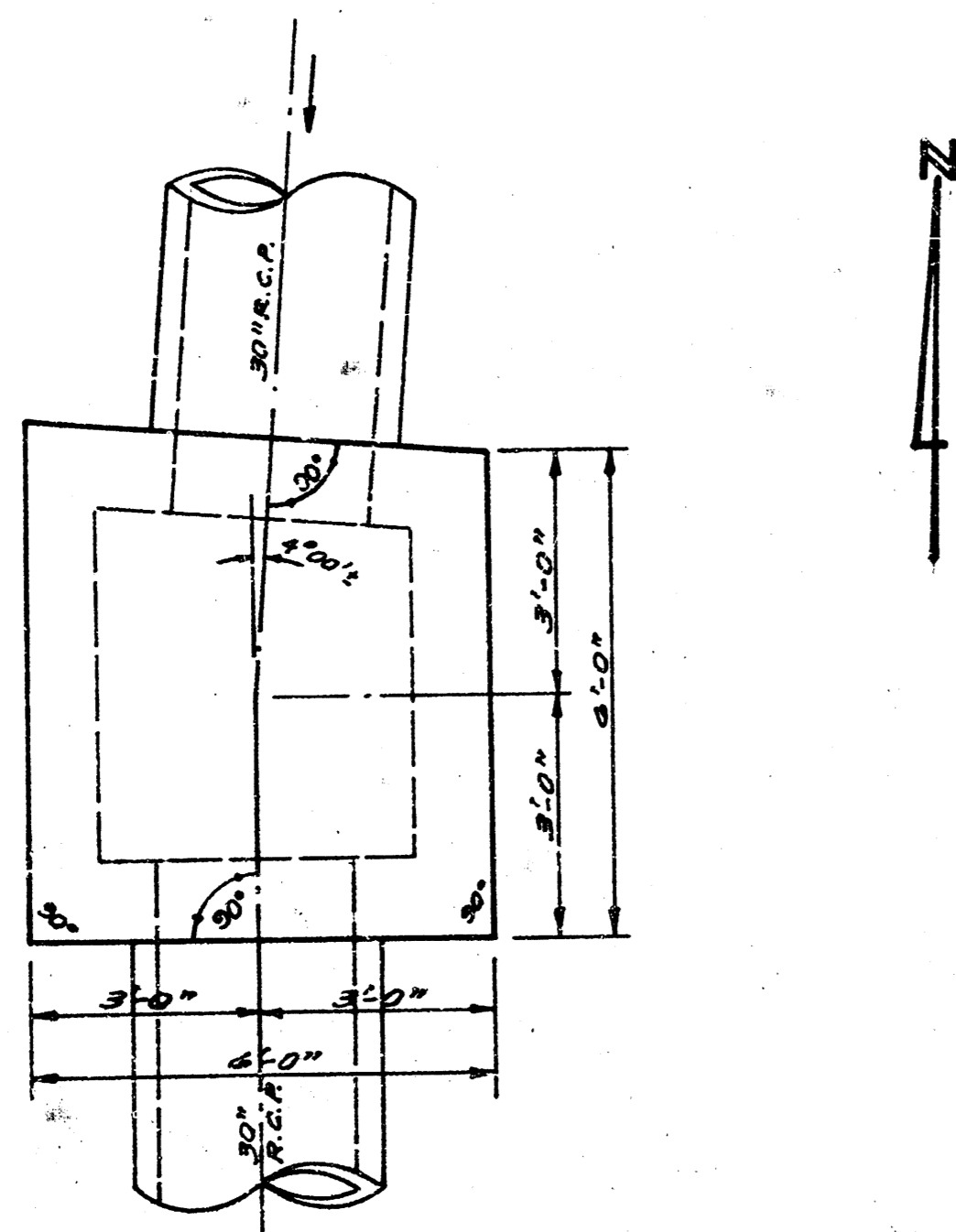
SECTIONAL PLAN OF SPECIAL REINF. CONC. M.H. STA. 5100 (PHASE I).
Scale 3/8" = 1'-0"



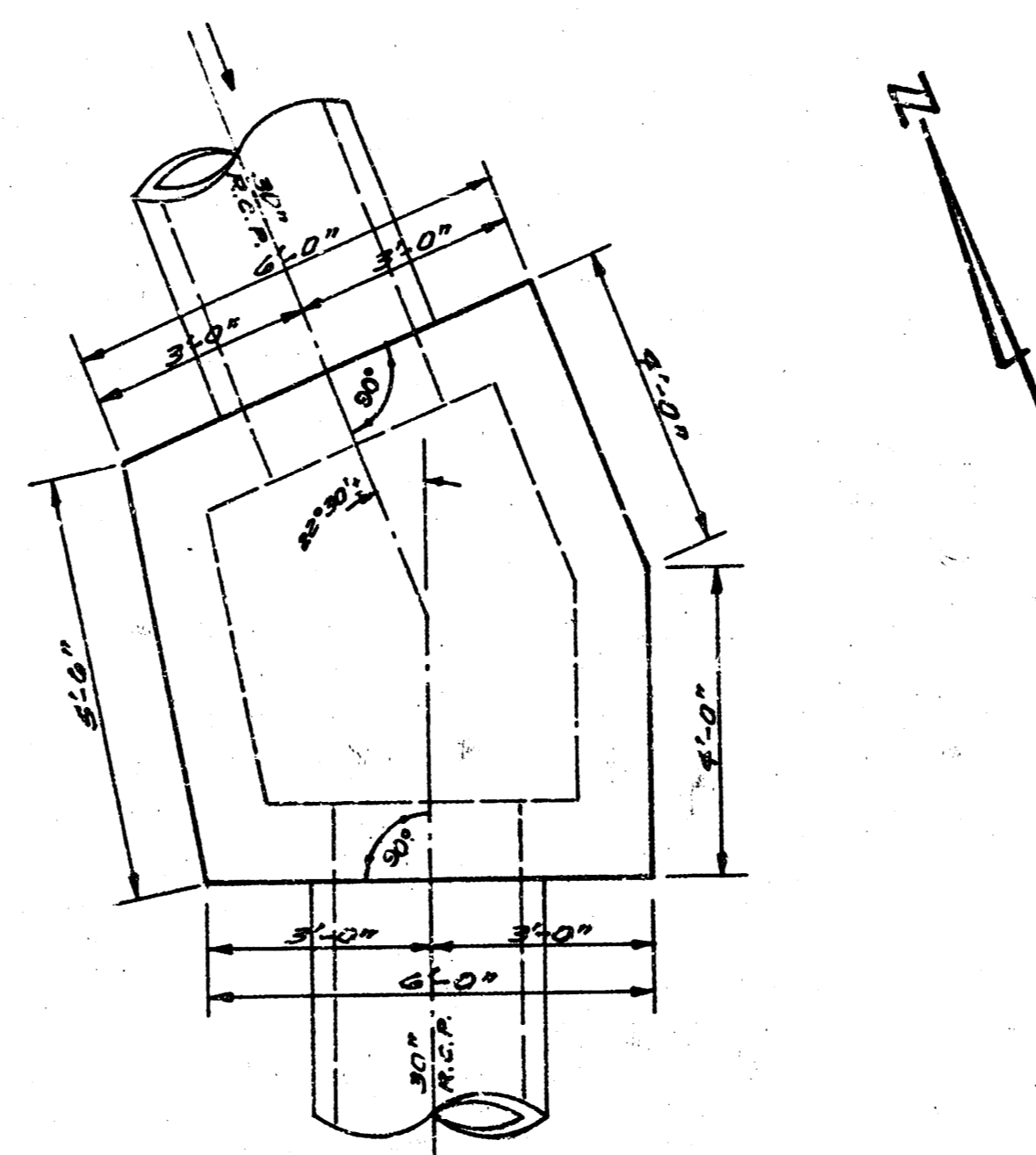
SECTIONAL PLAN OF SPECIAL REINF. CONC. M.H. STA. 22154 (PHASE I).
Scale 3/8" = 1'-0"



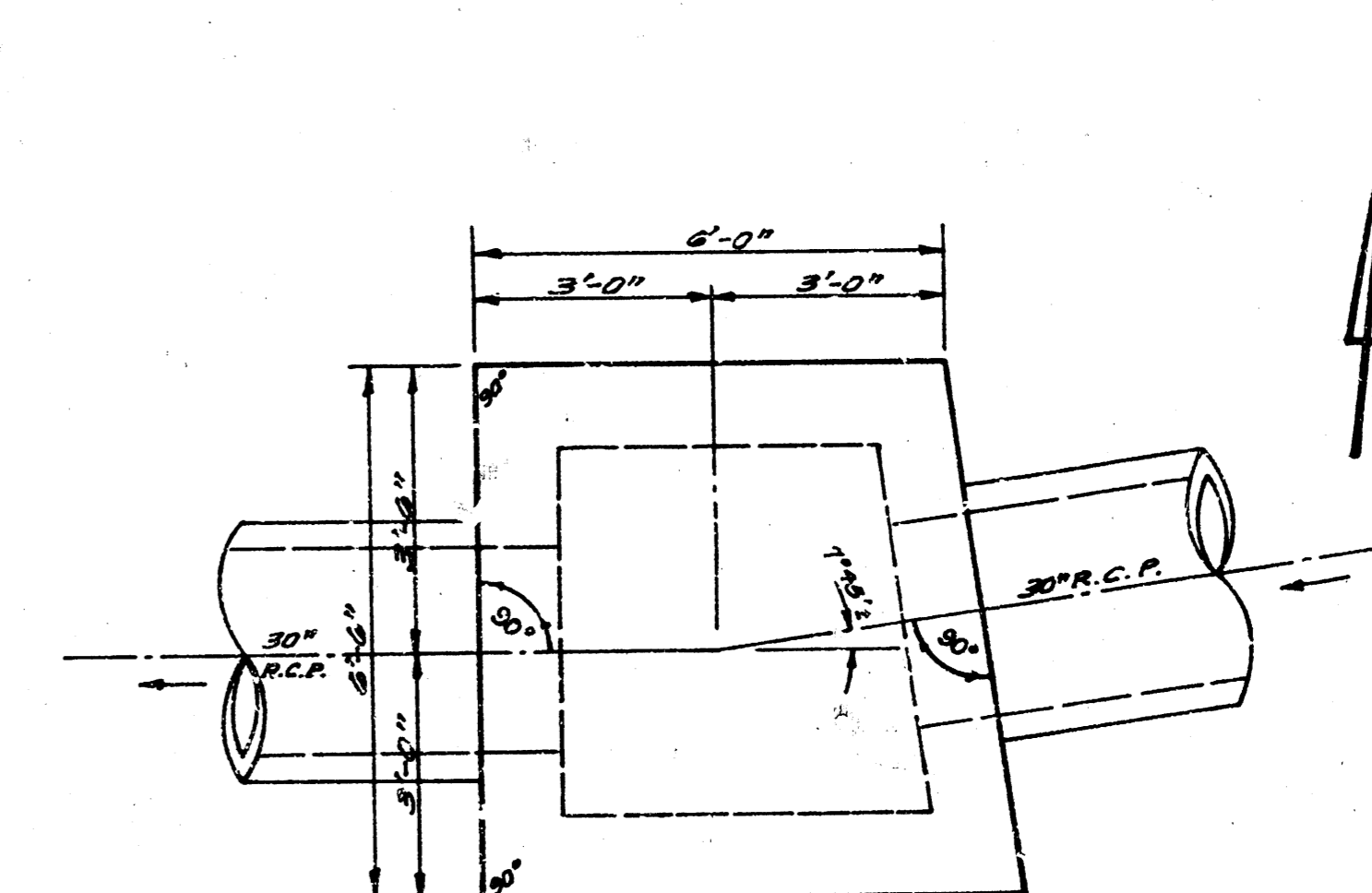
SECTIONAL PLAN OF SPECIAL REINF. CONC. M.H. STA. 9170 (PHASE II).
Scale 3/8" = 1'-0"



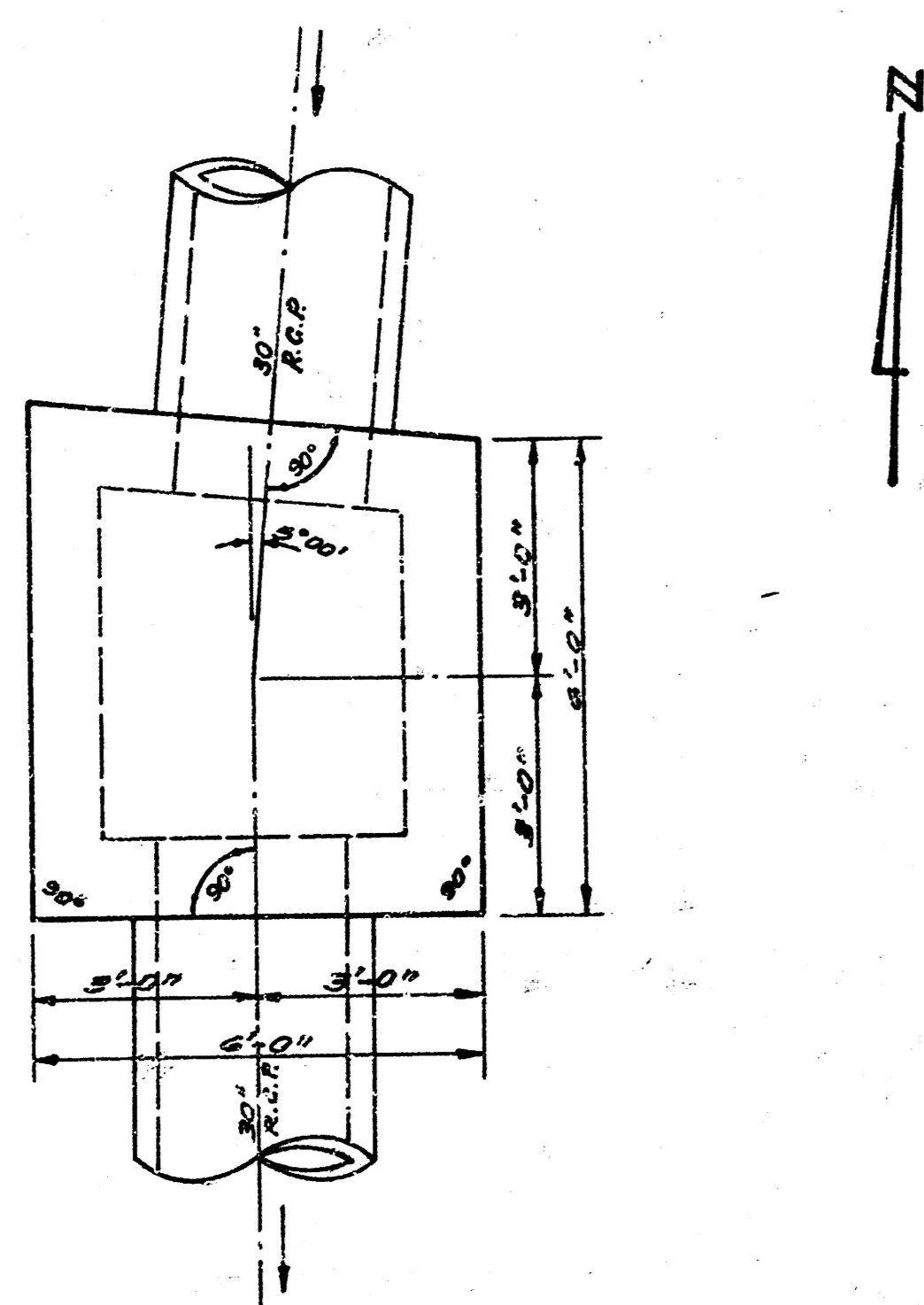
SECTIONAL PLAN OF SPECIAL REINF. CONC. M.H. STA. 5194 (PHASE I) & STA. 40131 (PHASE II).
Scale 3/8" = 1'-0"



SECTIONAL PLAN OF SPECIAL REINF. CONC. M.H. STA. 32170 (PHASE I).
Scale 3/8" = 1'-0"

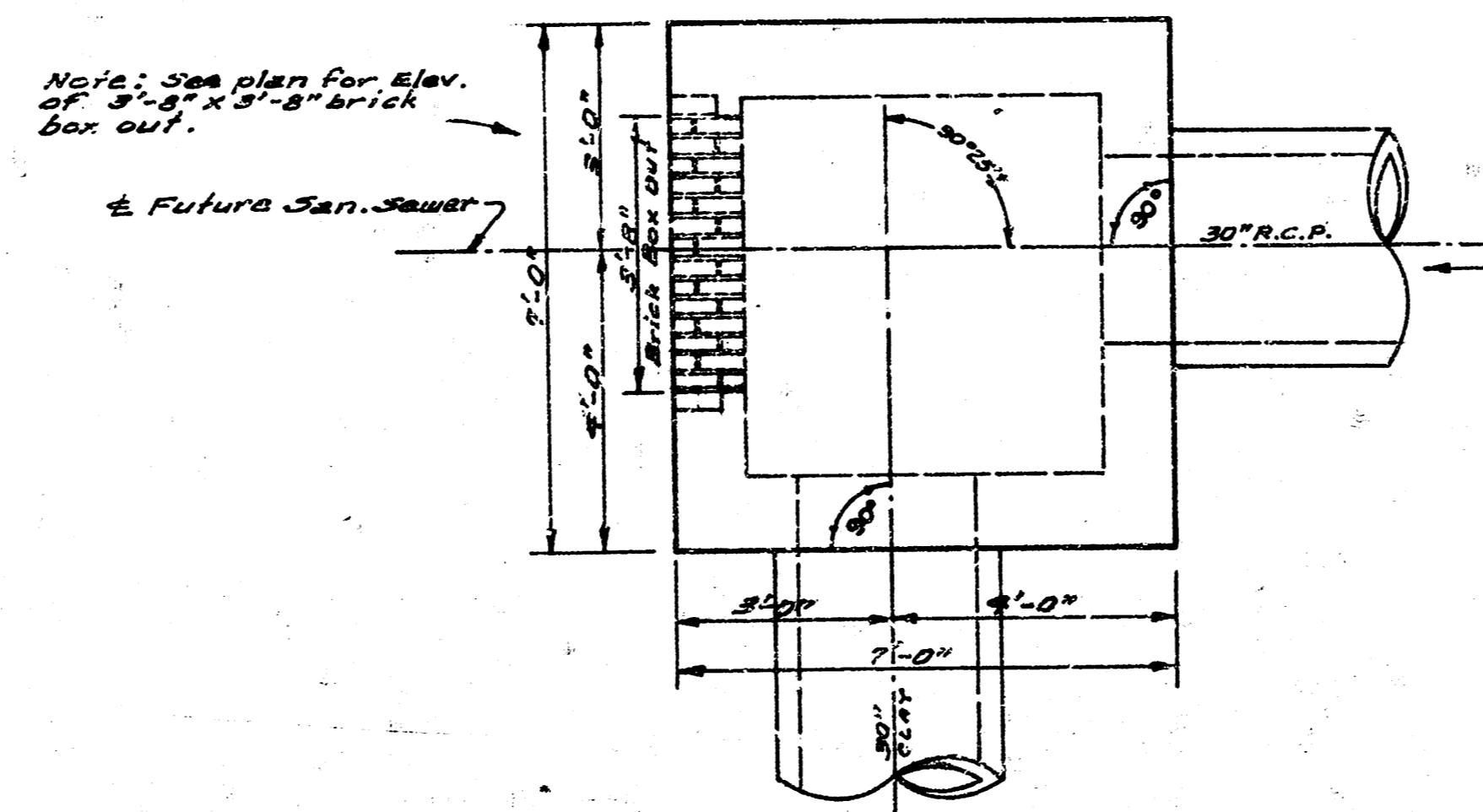


SECTIONAL PLAN OF SPECIAL REINF. CONC. M.H. STA. 11179 (PHASE II).
Scale 3/8" = 1'-0"

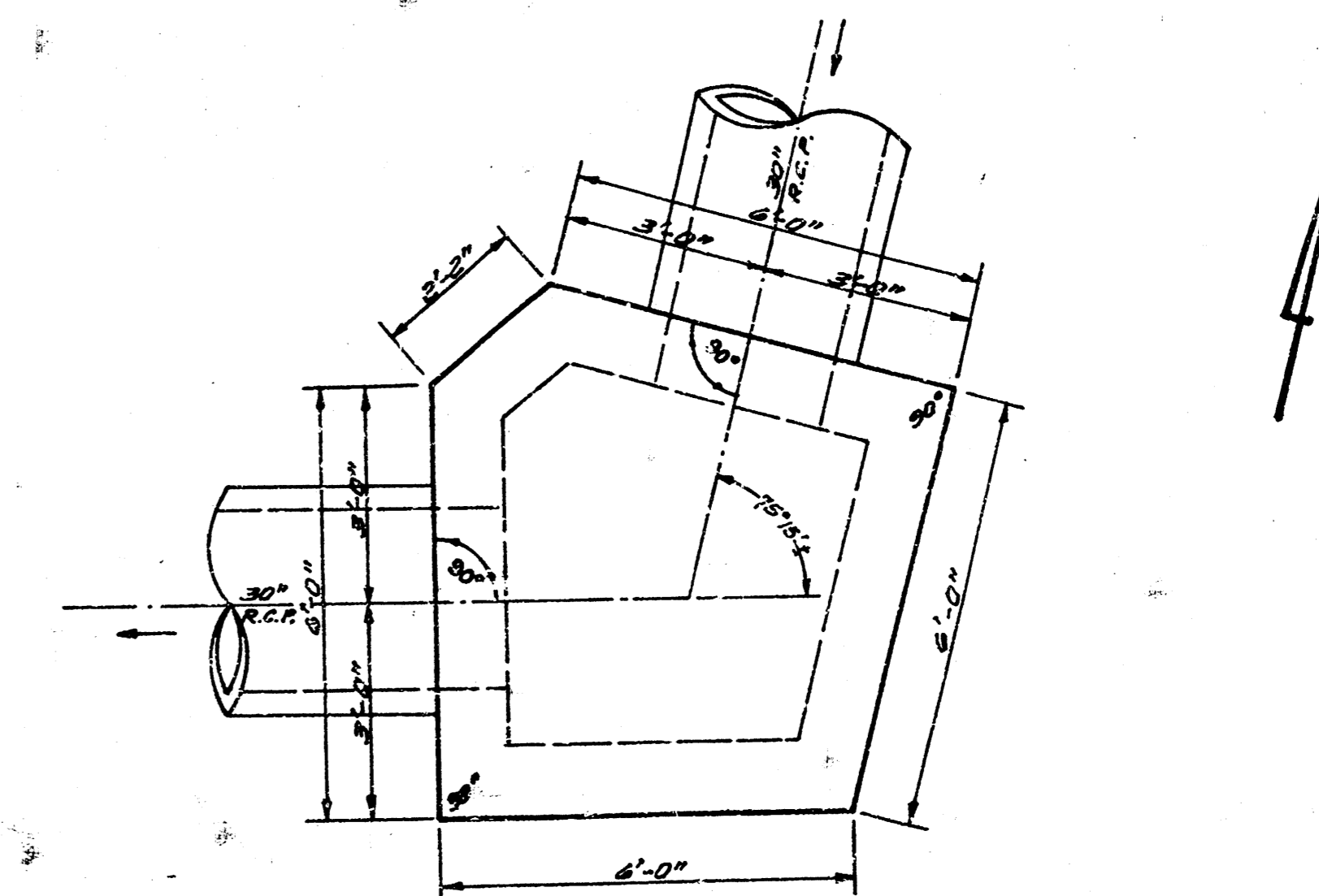


SECTIONAL PLAN OF SPECIAL REINF. CONC. M.H. STA. 11481 & STA. 17405 (PHASE II).
Scale 3/8" = 1'-0"

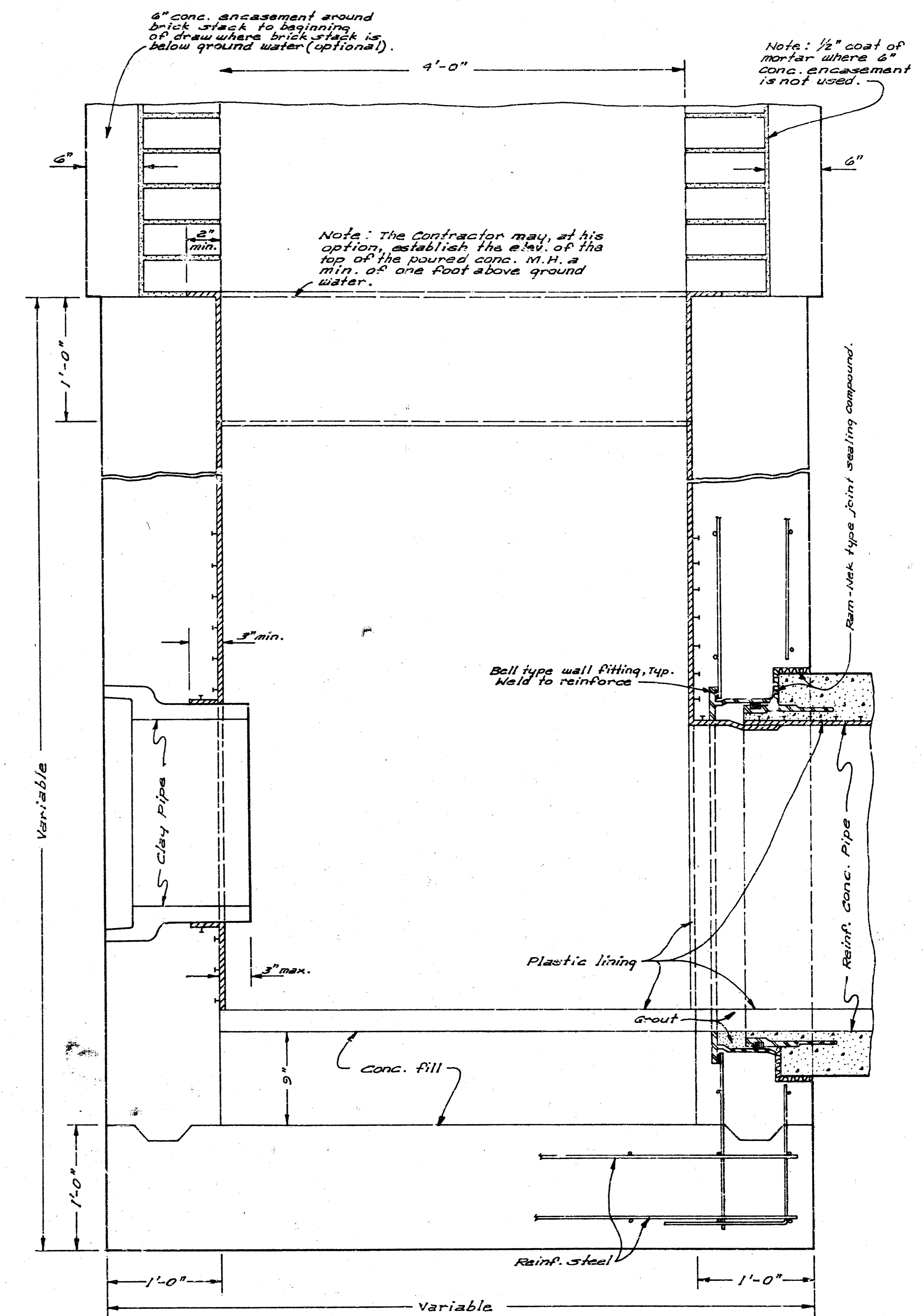
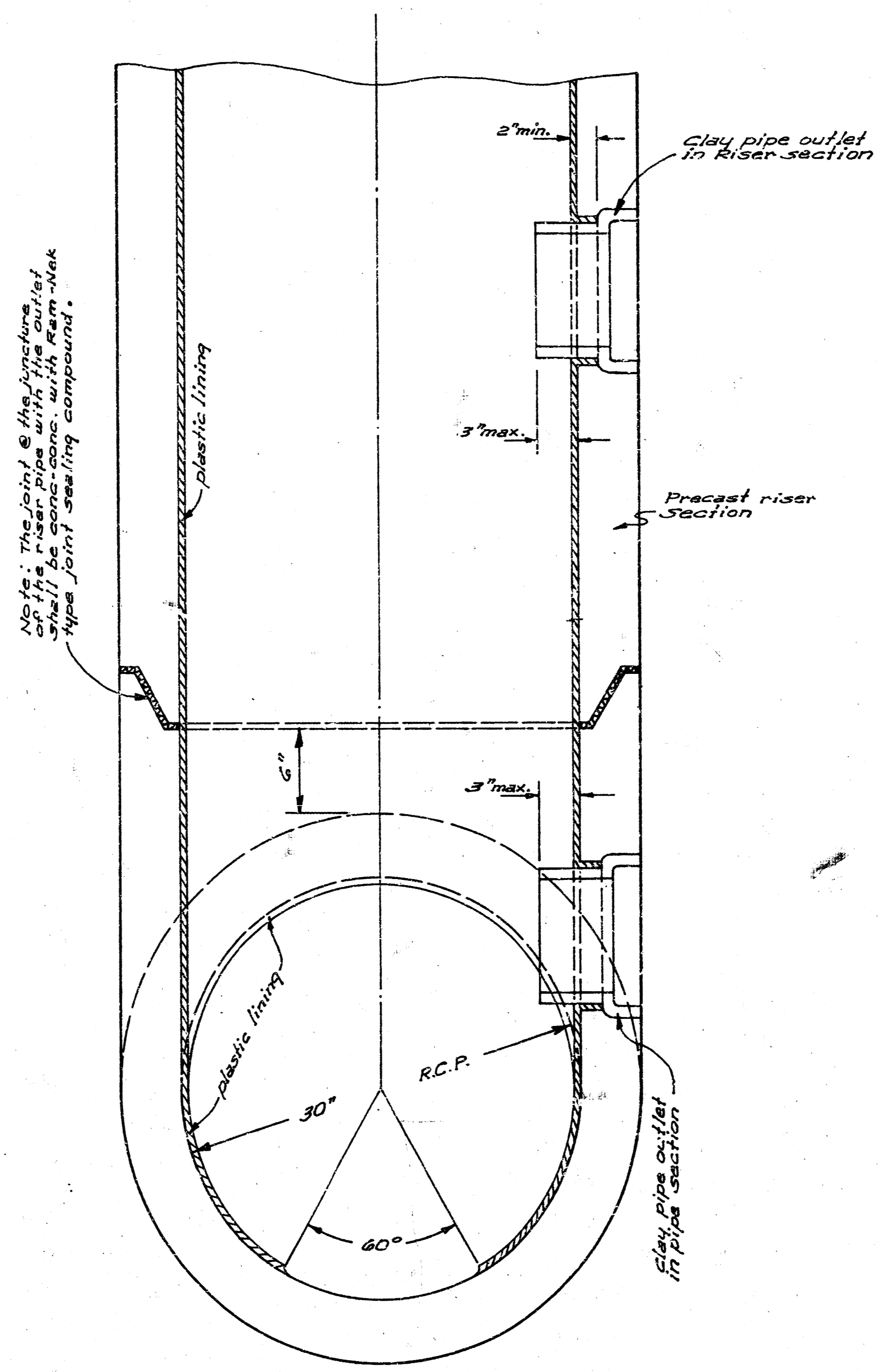
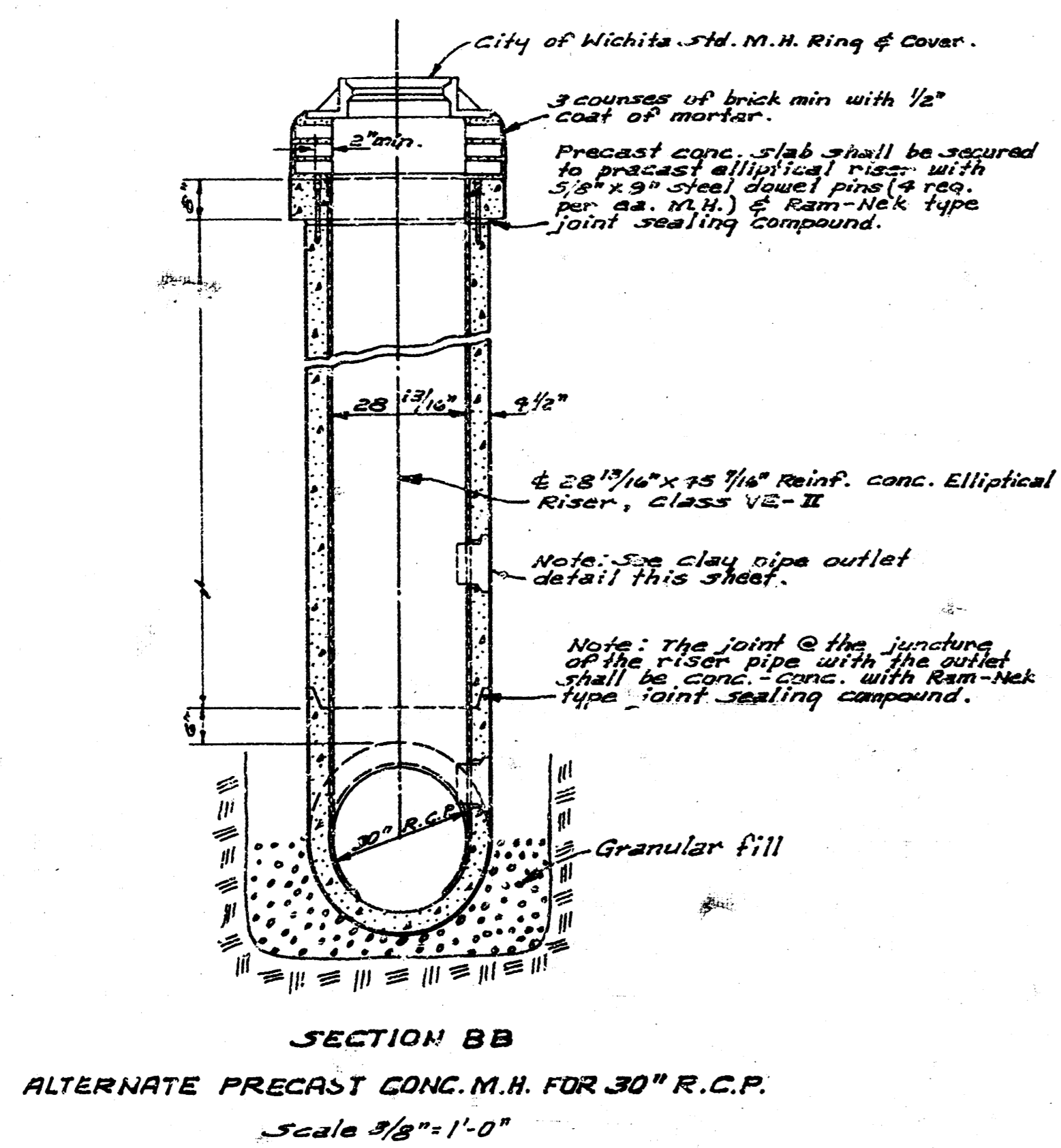
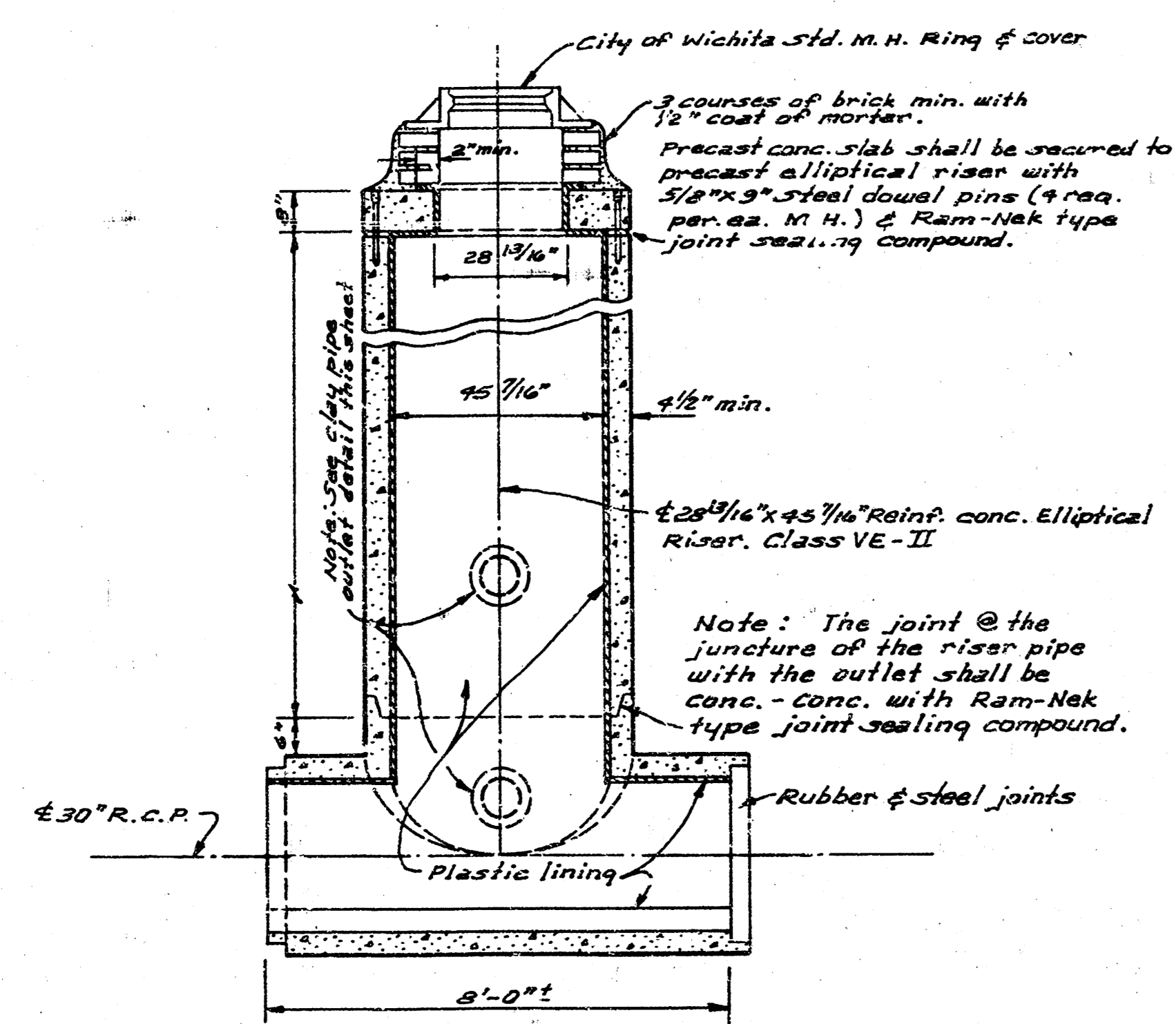
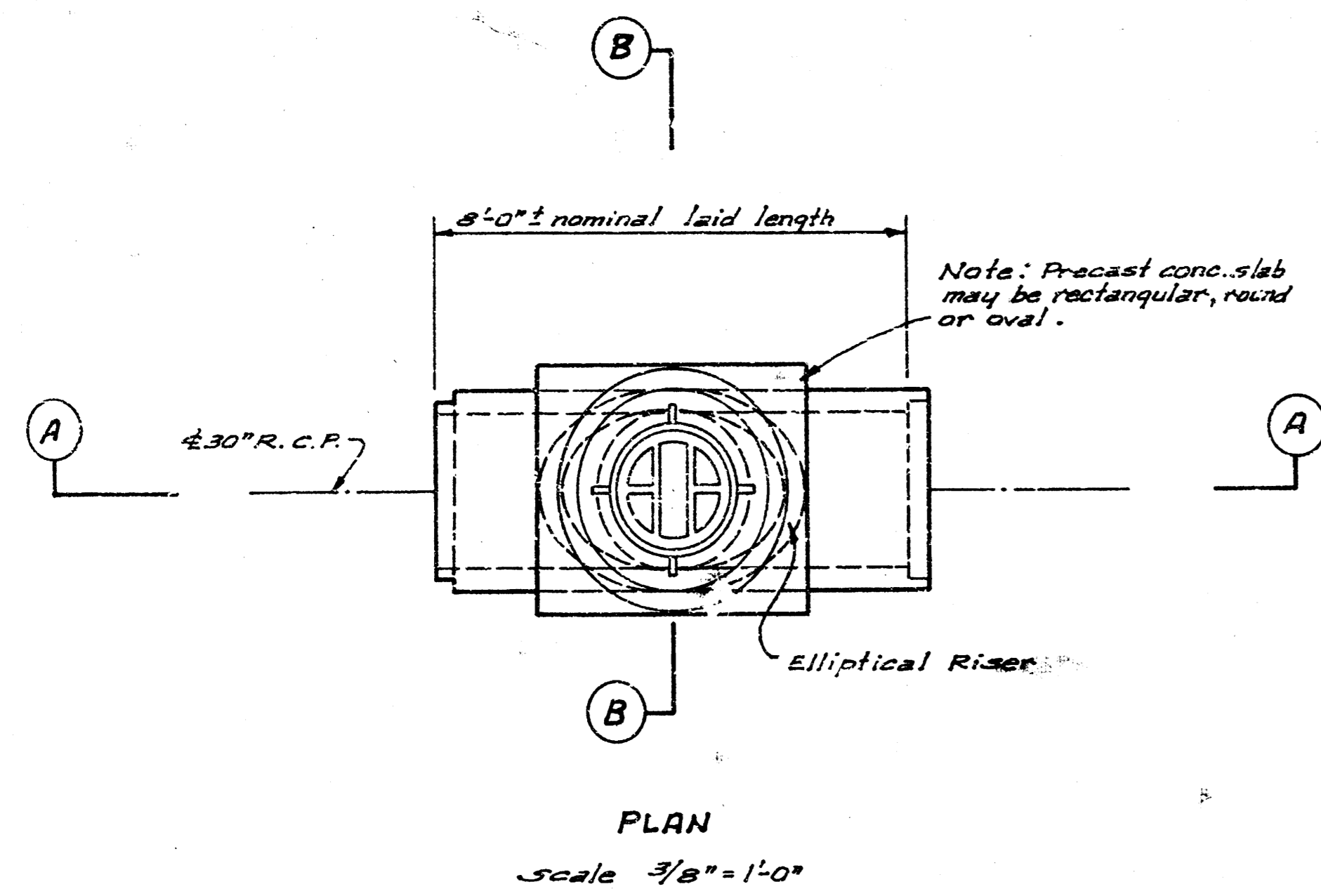
NOTE: SEE SHEET 19, STA. 27143 FOR REINF. CONC. MANHOLE DETAILS OF TYPICAL STEEL PATTERNS, WALL THICKNESS AND DIMENSIONS, BRICK STACK, ETC FOR MANHOLES ON THIS SHEET.



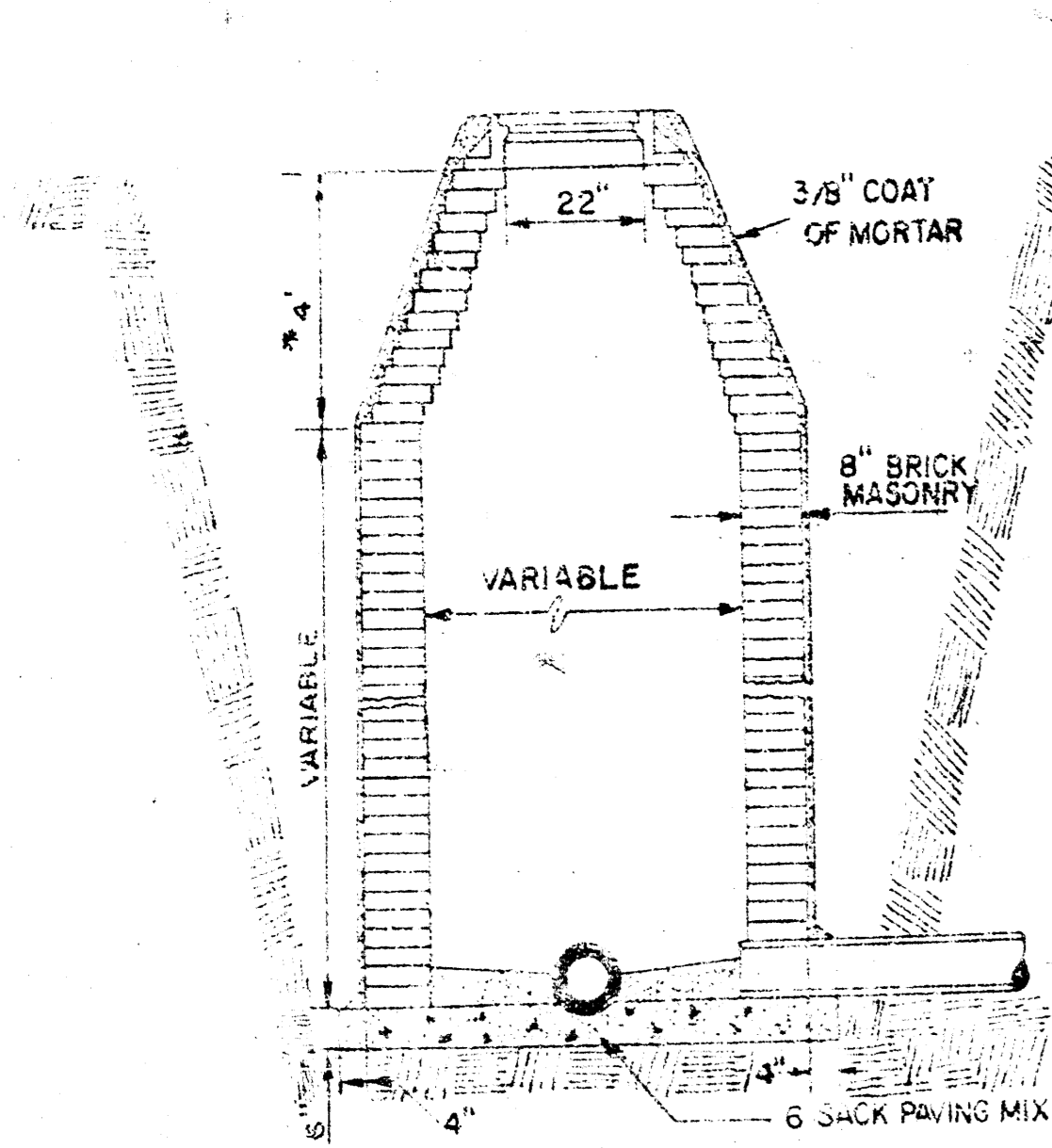
SECTIONAL PLAN OF SPECIAL REINF. CONC. M.H. STA. 1462 BR. STA. 1457 AN (PHASE II).
Scale 3/8" = 1'-0"



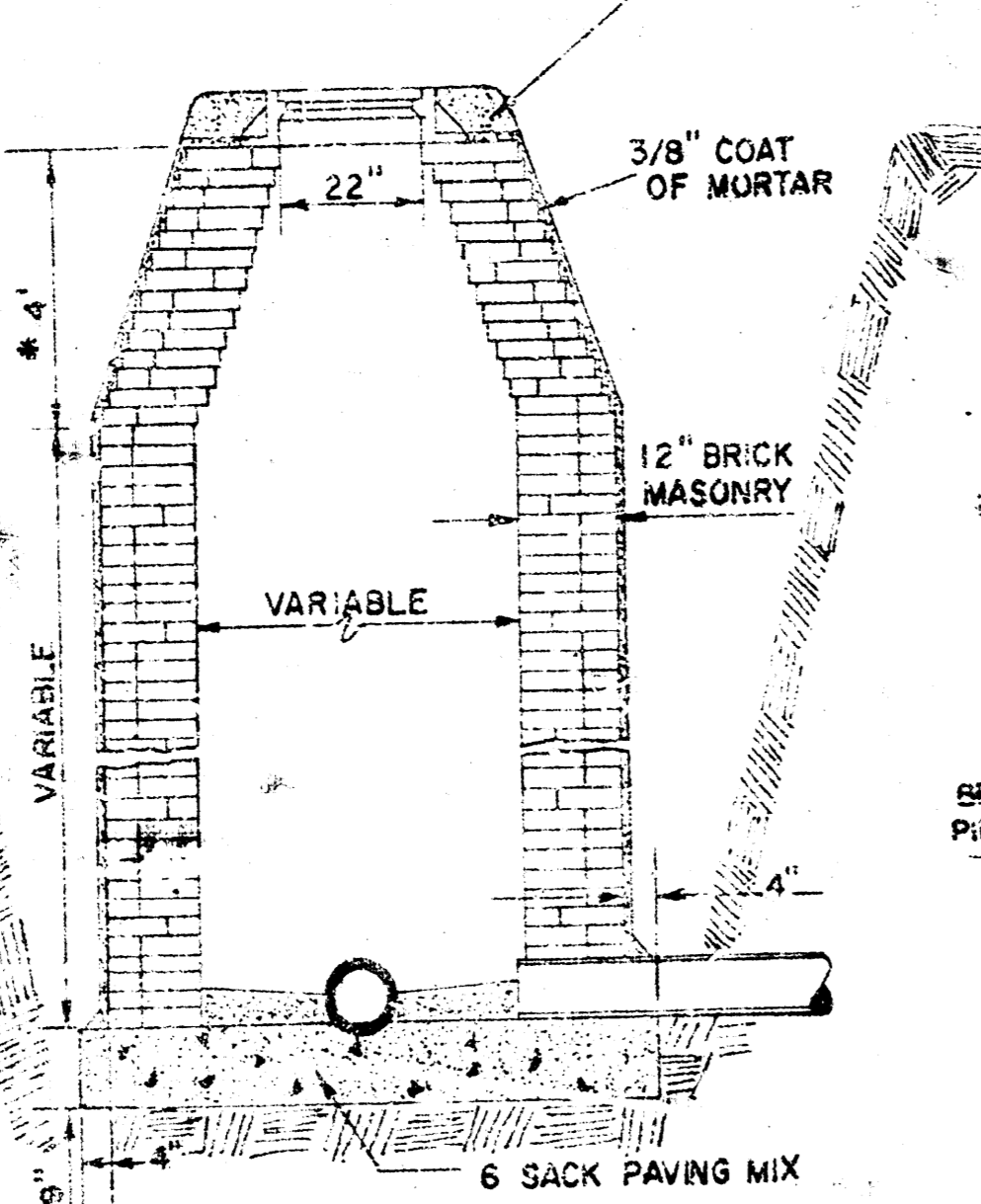
SECTIONAL PLAN OF SPECIAL REINF. CONC. M.H. STA. 13166 (PHASE II).
Scale 3/8" = 1'-0"



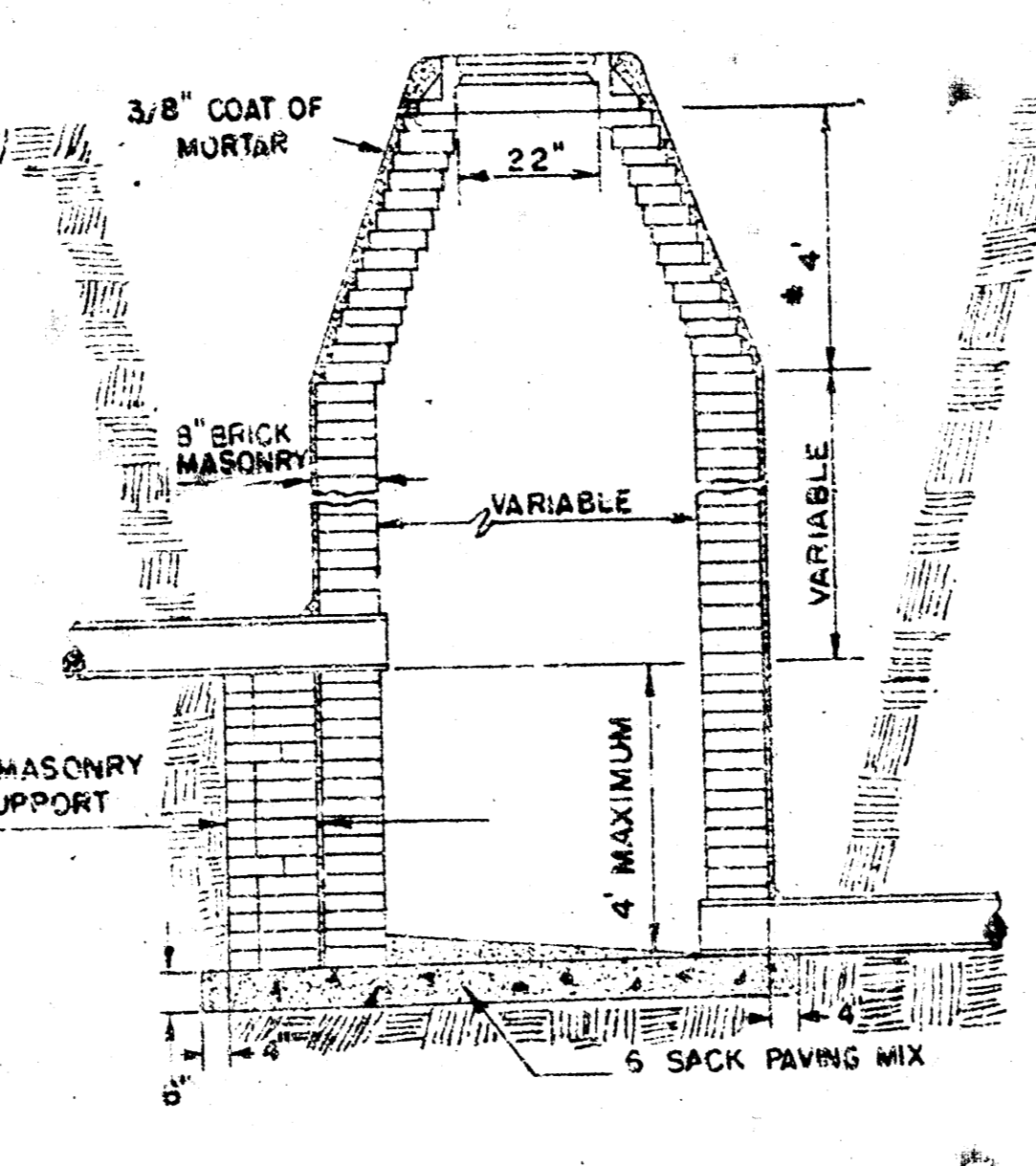
CRGUT TO BE PLACED AROUND MANHOLE RING ONLY WHEN MANHOLE IS CONSTRUCTED IN UNPAVED AREAS. (TYPICAL ALL MANHOLES)



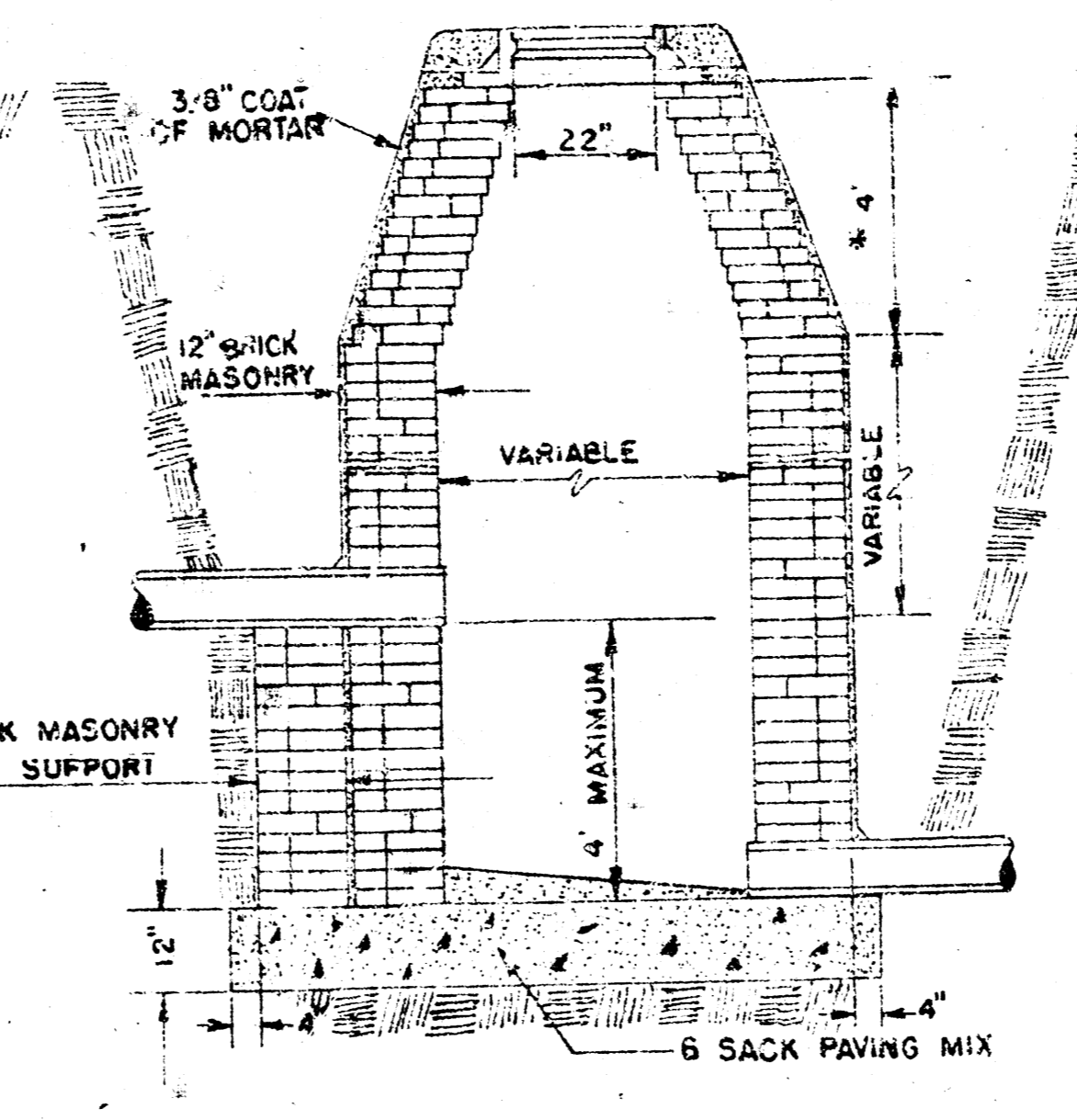
STANDARD MANHOLE TYPE "A"



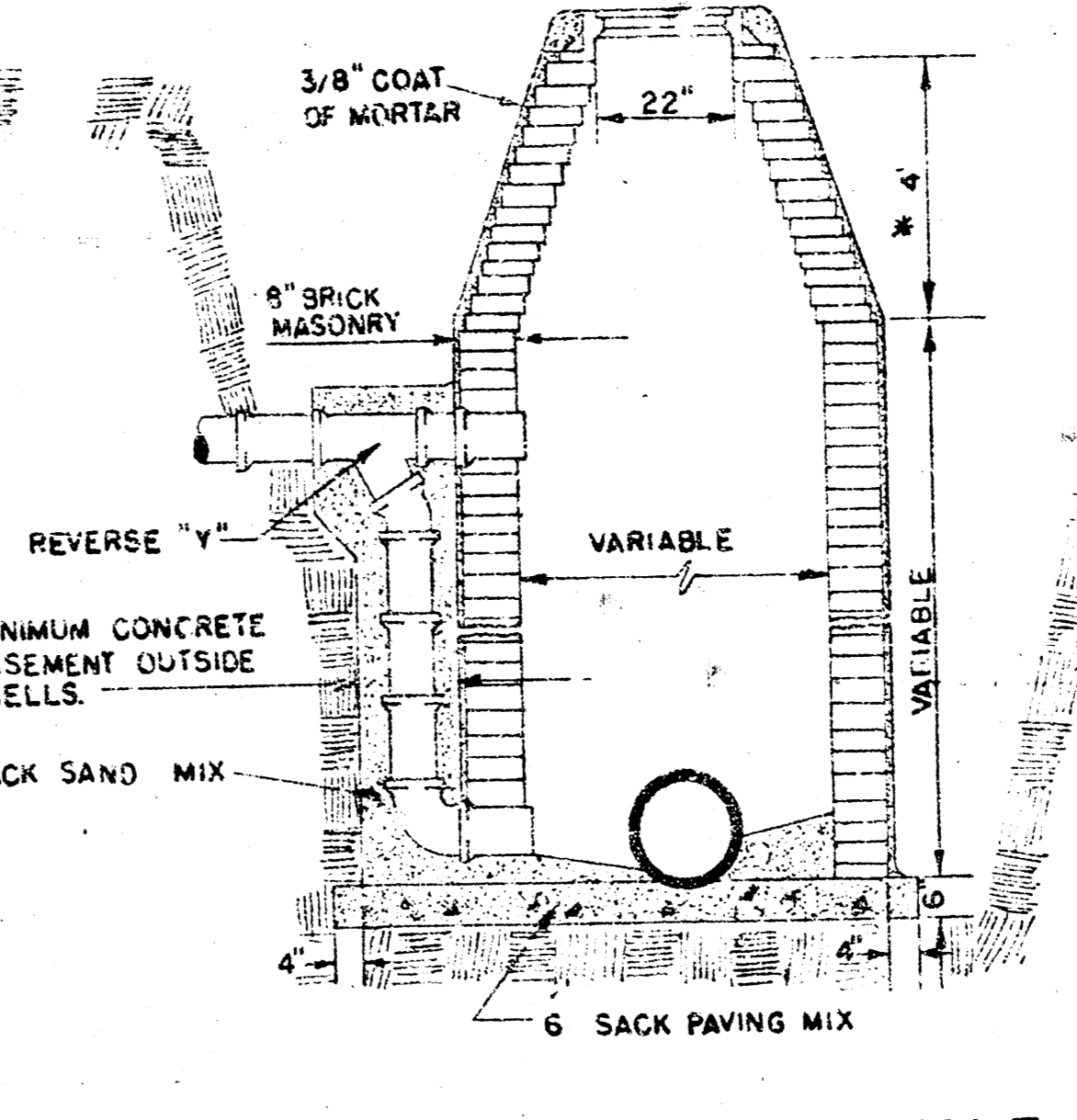
STANDARD MANHOLE TYPE "B"



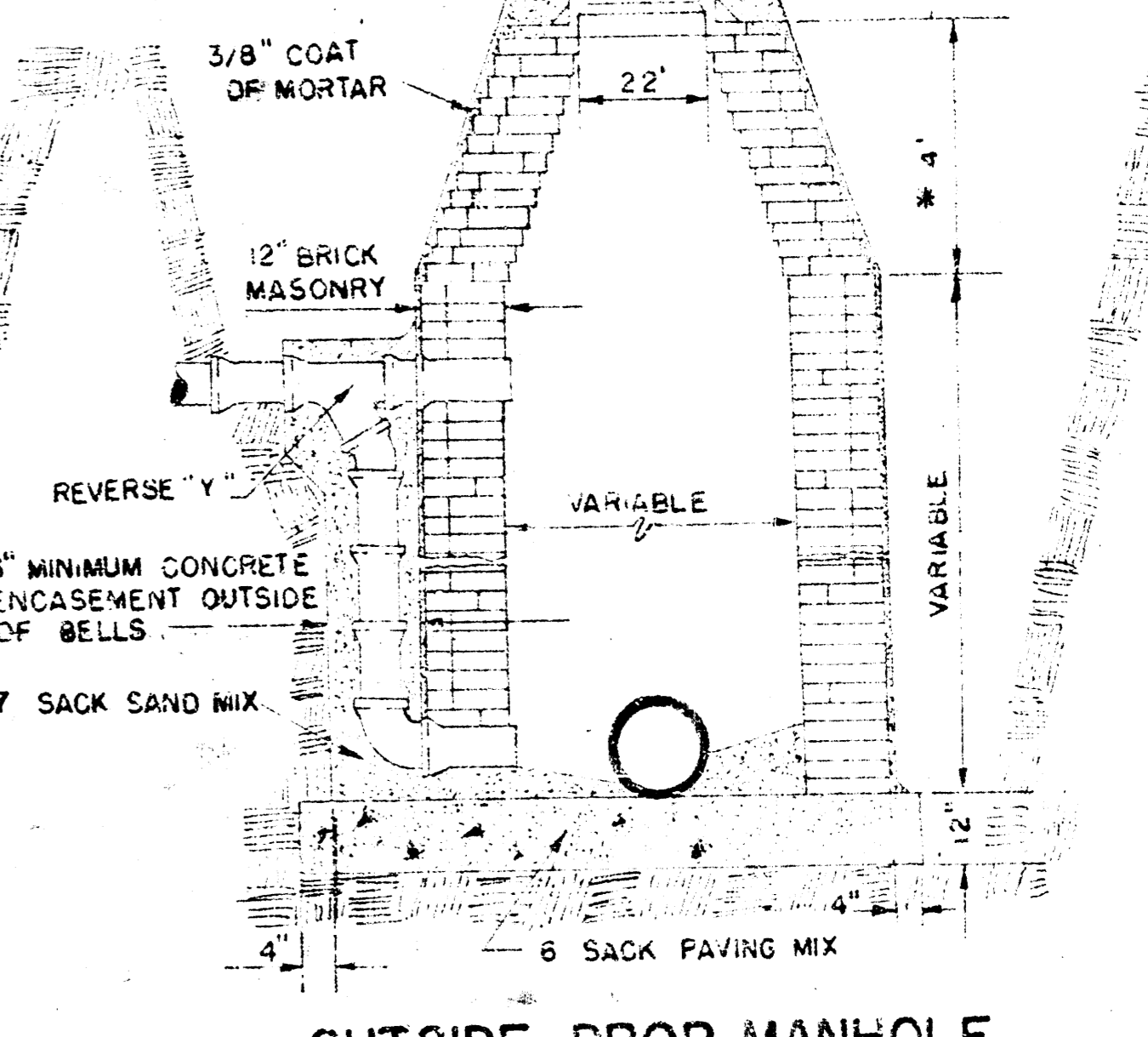
DROP MANHOLE TYPE "A"



DROP MANHOLE TYPE "B"



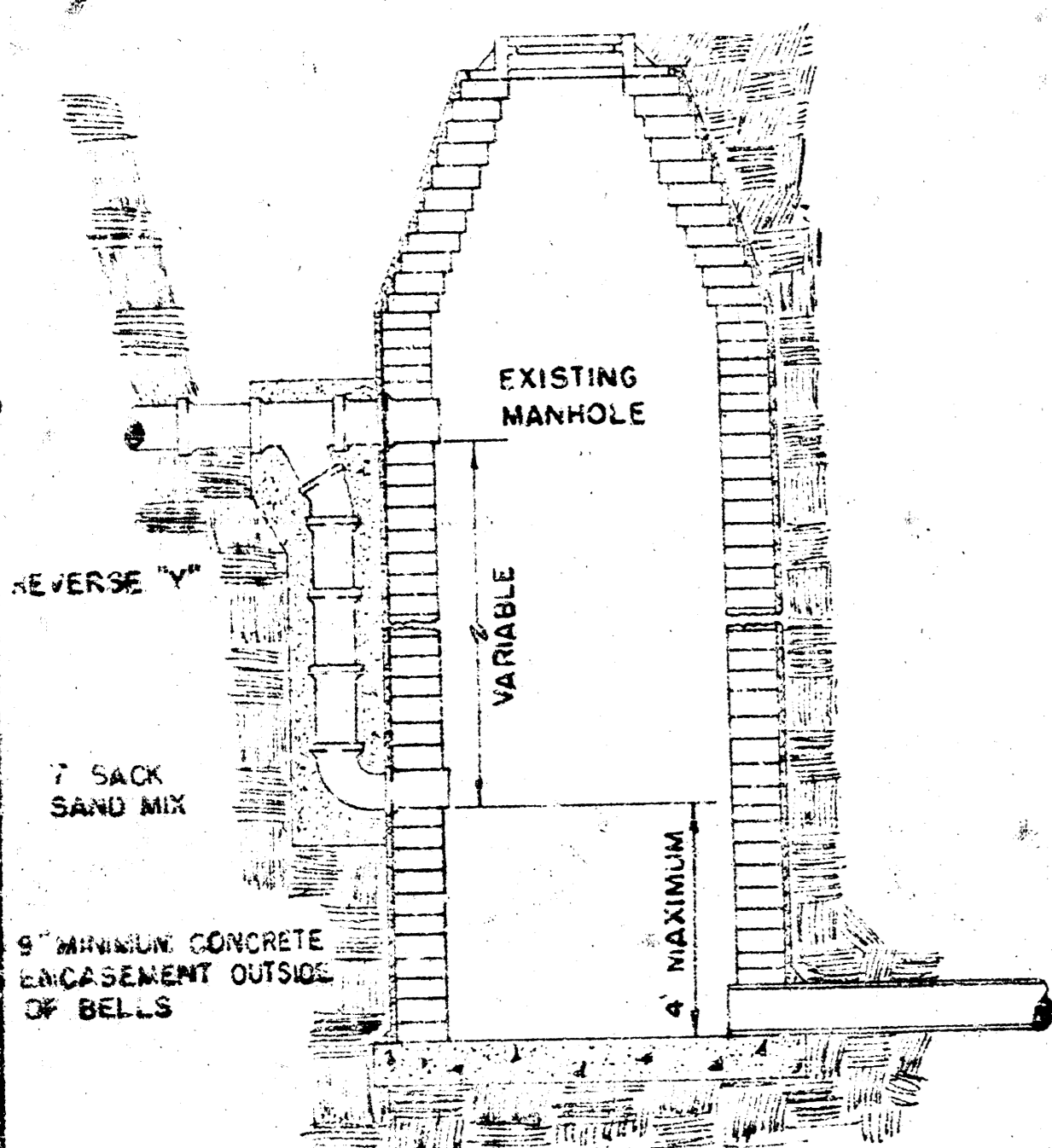
OUTSIDE DROP MANHOLE TYPE "A"



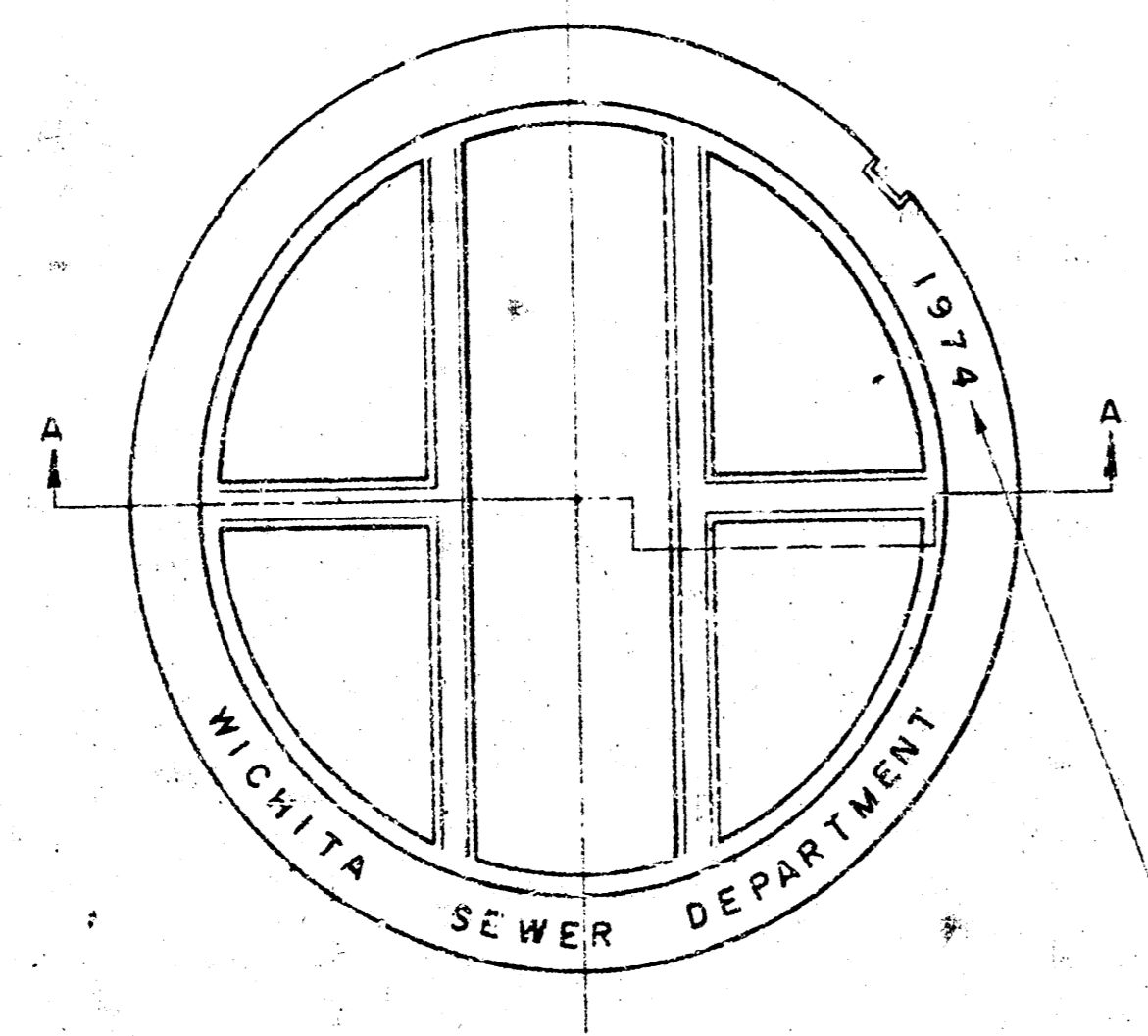
OUTSIDE DROP MANHOLE TYPE "B"

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

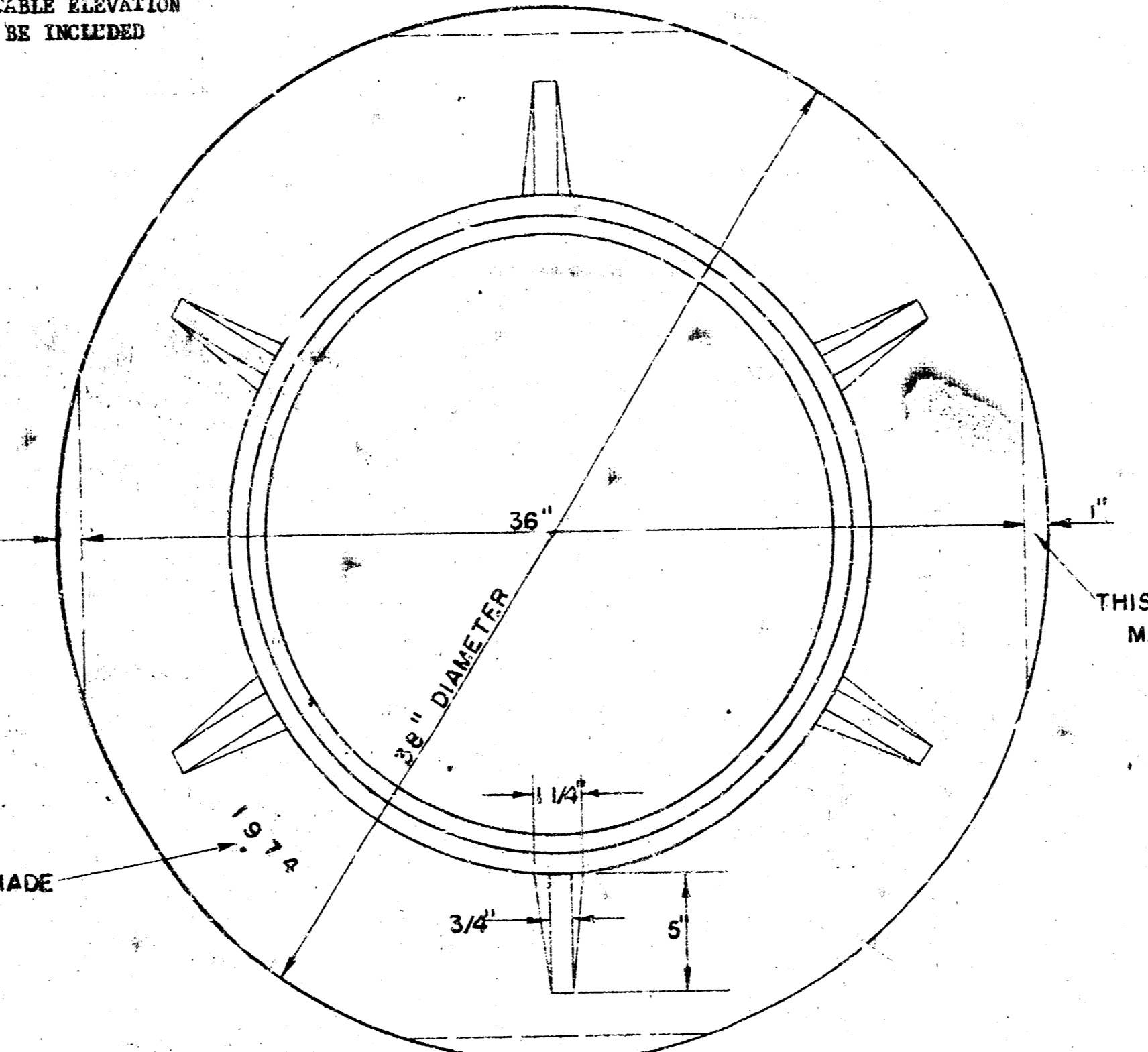
NOTE: ALL BRICK MANHOLES SHALL BE ENCASED WITH 6" CONCRETE ENCASUREMENT TO A MINIMUM ELEVATION OF 1 FOOT ABOVE THE WATER TABLE ELEVATION AS DETERMINED BY THE ENGINEER. CONCRETE ENCASUREMENT TO BE INCLUDED IN THE BID PRICE OF BRICK MANHOLE.



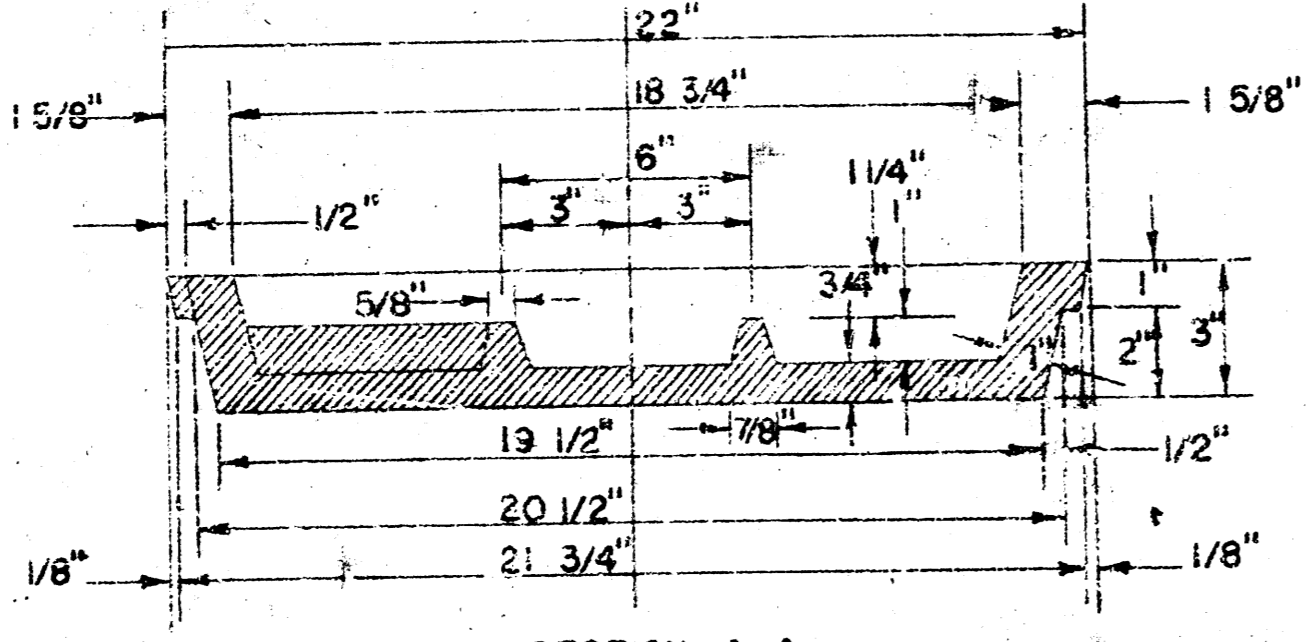
DETAIL OF DROP STACK FOR EXISTING MANHOLES IN GROUND WATER



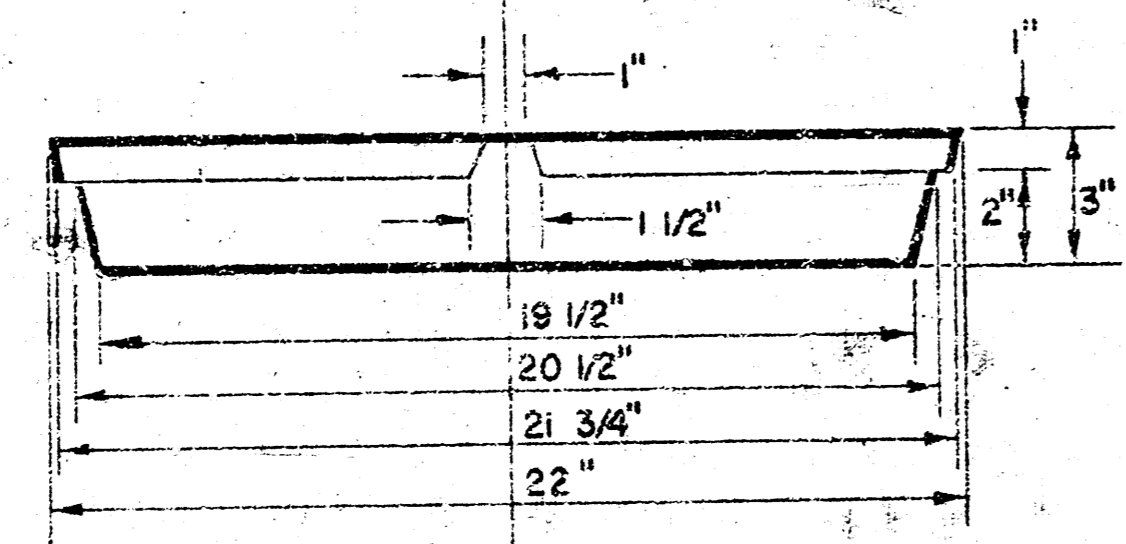
MANHOLE COVER WEIGHT 110 LBS.



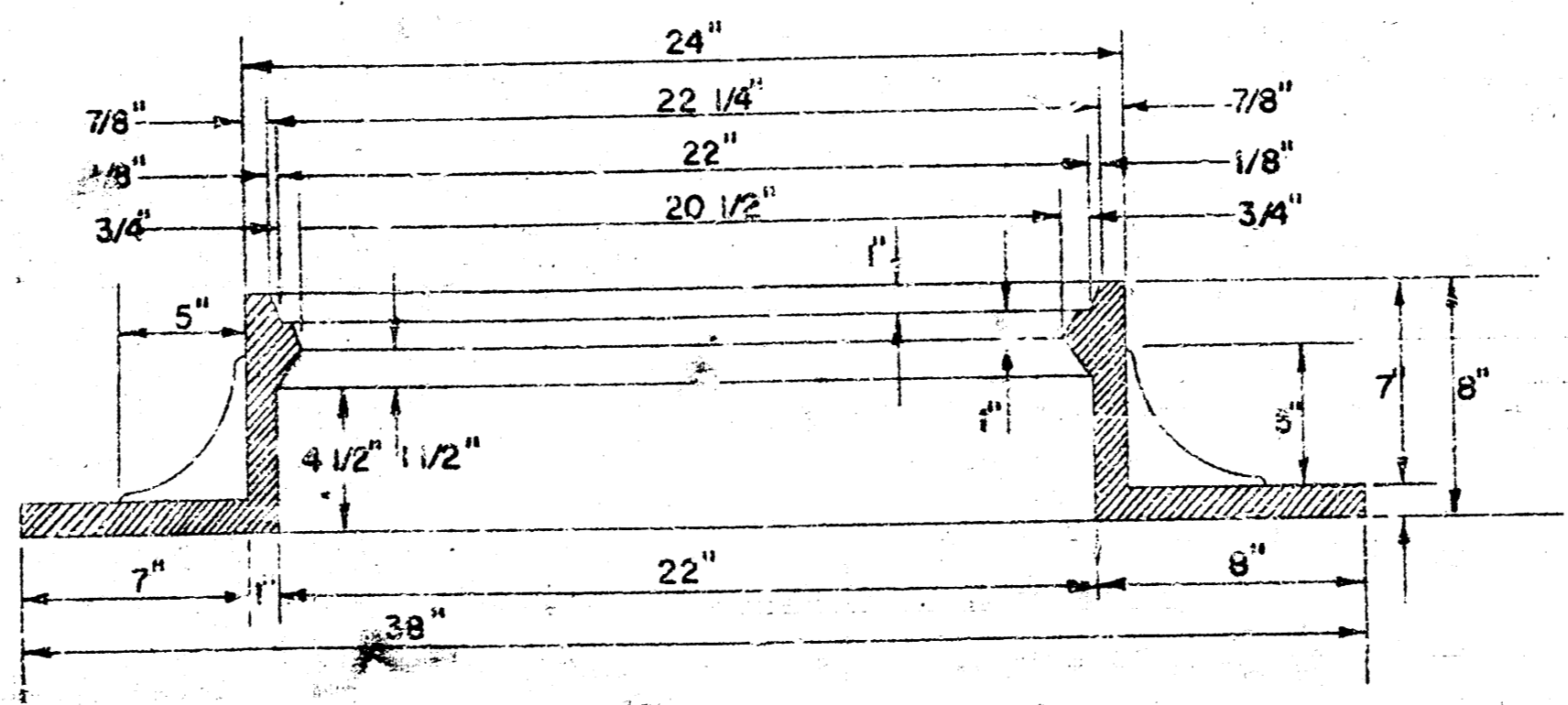
MANHOLE RING WEIGHT 325 LBS. RING NO. 500A WEIGHT 800 LBS. RING NO. 500AS



MANHOLE COVER

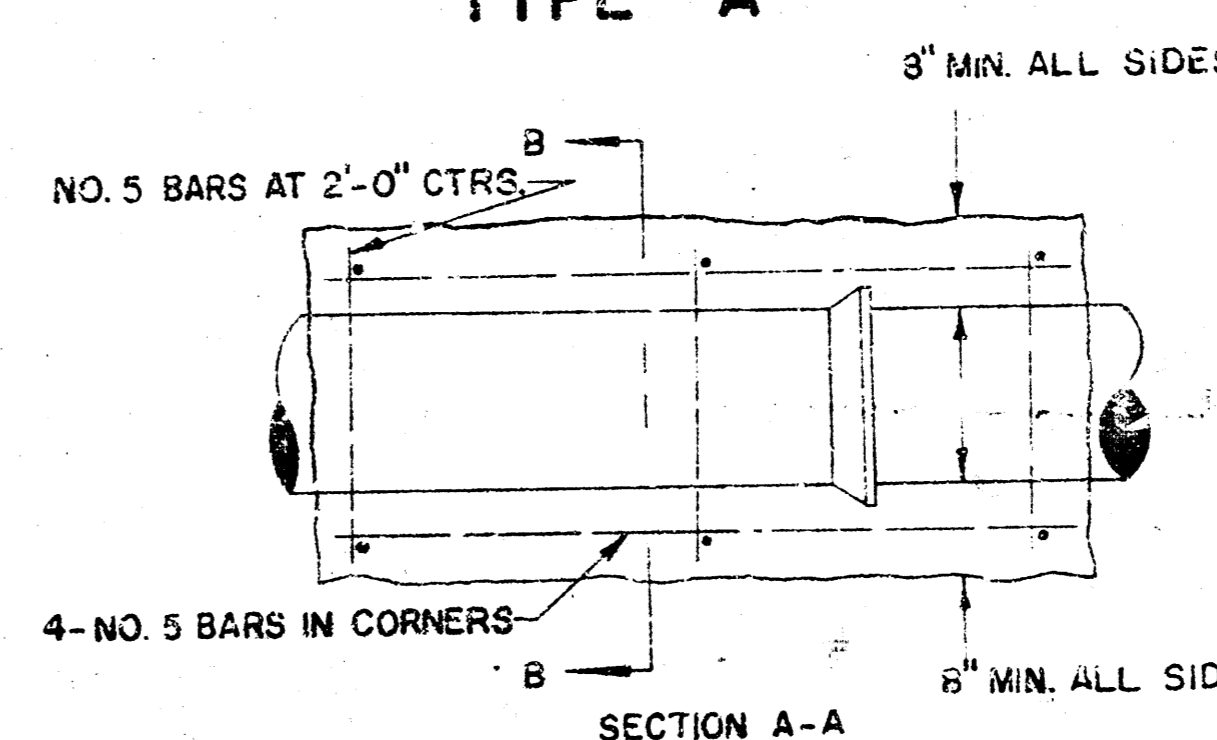


MANHOLE COVER

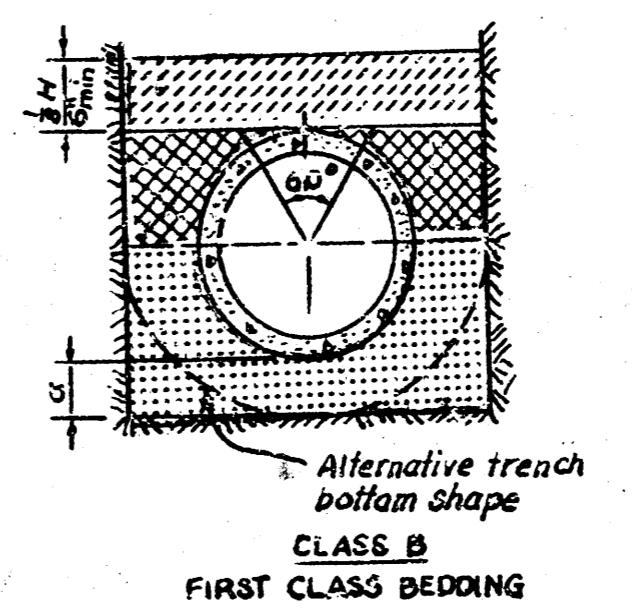
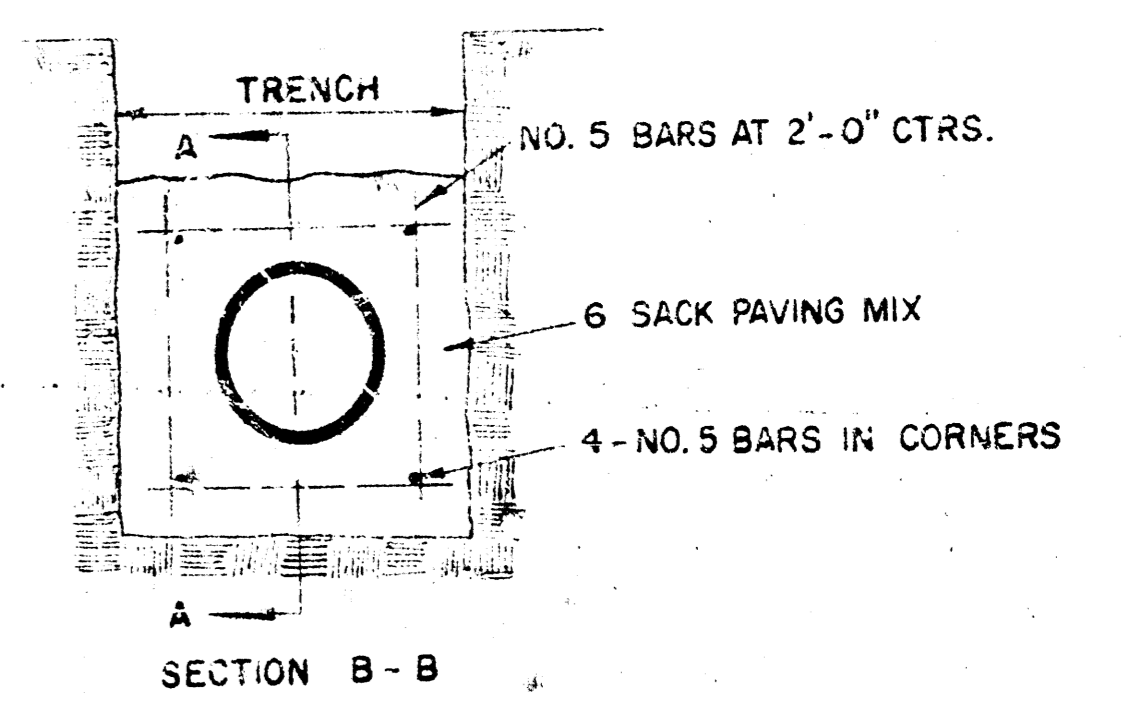


MANHOLE RING

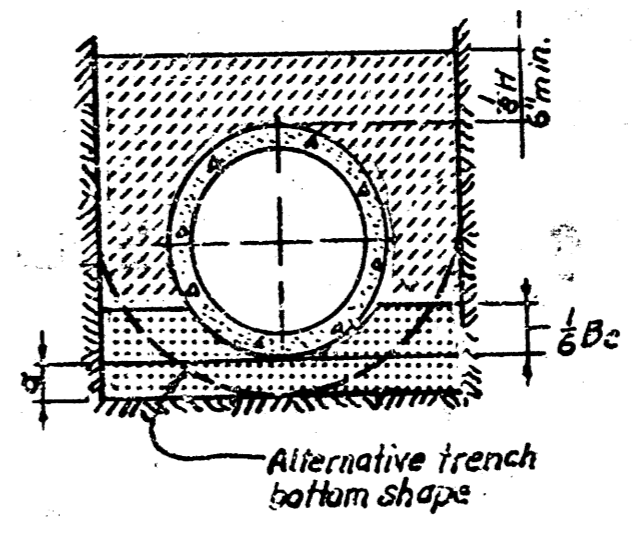
OUTSIDE CIRCUMFERENCE OF COVER AND THE INNER FACE AND SEAT OF RING TO BE MACHINE FIT.



REINFORCED CONCRETE ENCASUREMENT FOR STRENGTH



CLASS B FIRST CLASS BEDDING



CLASS C ORDINARY BEDDING

NOTES:
Granular fill to be crushed stone or equivalent with not less than 95% passing 1/4", not less than 75% passing 3/8" and not less than 55% to be retained on a 1/2". To be placed in not more than 6 layers and compacted by tamping with a shovel.

Tamped backfill shall be finely divided, jagged, rounded material free from sticks, organic material, and stones, compacted to 95% maximum density as determined by AASHTO Standard Method T-99. Granular fill may be substituted for all or part of tamped backfill.

Hand placed backfill shall be finely divided material free from sticks and stones. LEGEND
Bc Outside diameter of pipe
H Backfill cover above top of pipe
D Nominal pipe size
a Fill below pipe (See table)

Hand placed backfill
Tamped backfill
Granular fill
Concrete

EMBEDMENTS FOR CONDUITS

TABLE OF FILL 2" THIS BELOW PIPE

D	9 Min. Soil	6 Min. Rock
24" & smaller	3"	6"
30" to 60"	4"	9"
60" & larger	5"	12"

DETAILS OF SEWER APPURTENANCES ADOPTED AS STANDARD DESIGN BY ENGINEERING DIVISION CITY OF WICHITA, KANSAS R. W. LINN CITY ENGINEER 1974

MAIN 5, S. W. INT. SEWER SHEET NO. 17 OF 17

FILMED FROM THE BEST