SEWAGE DISPOSAL AND SANITARY SEWERS
SHADYBROOK FARM ADDITION
SEDGWICK COUNTY, KANSAS

Private Project

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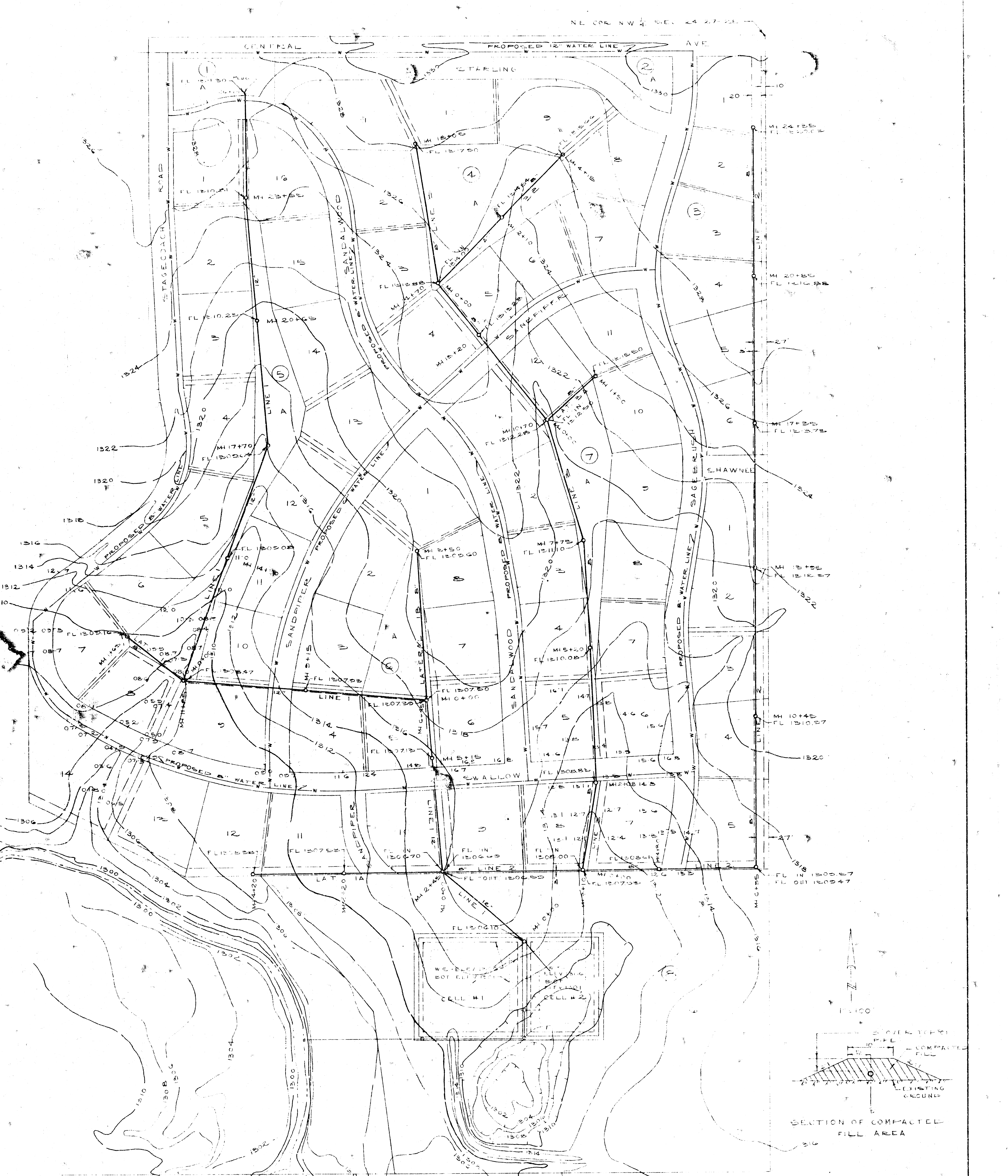
OWNER:

SEDGWICK COUNTY

ENGINEER:

K. O. TAYLOR, P.E.
SEPTEMBER 21, 1972

KENNETH O. TAYLOR
1858



M ELEV 1330.26 - 60ᴰ NAIL IN EAST SIDE 15 HEDGE TREE
60' SOUTH NE COR. N.W.¼ SEC 24-27-2E

M ELEV 1313.94 - TOP OF IRON @ THE S.W. COR. LOT 5, BLK 8,
SHADYBROOK FARM ADDITION

SHADYBROOK FARM ADDITION

SANITARY SEWERS

NOTE:
MINIMUM COMPACTED FILL
REQUIREMENTS ARE
3 FT ABOVE [illegible] WITH A
[illegible]

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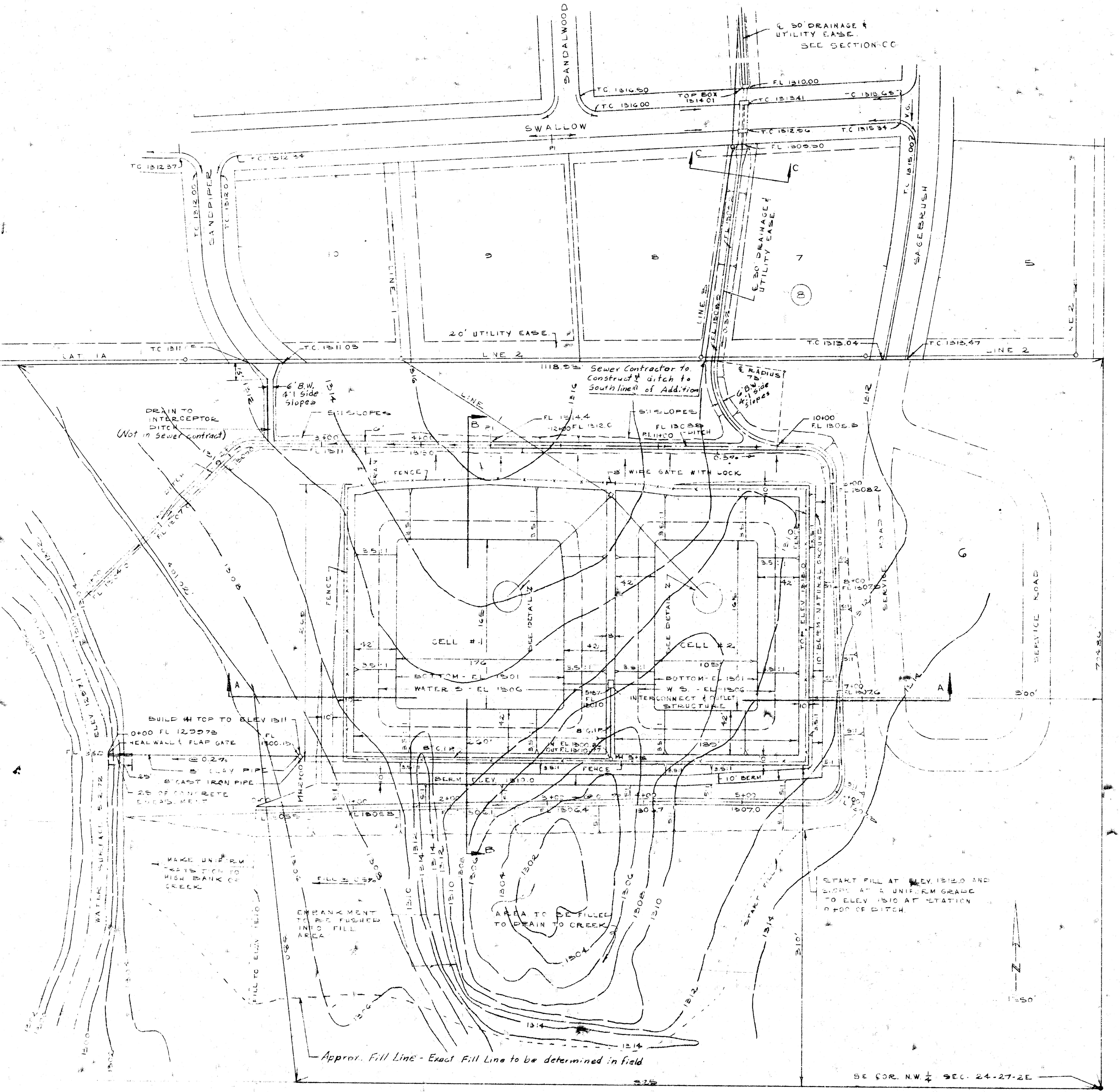
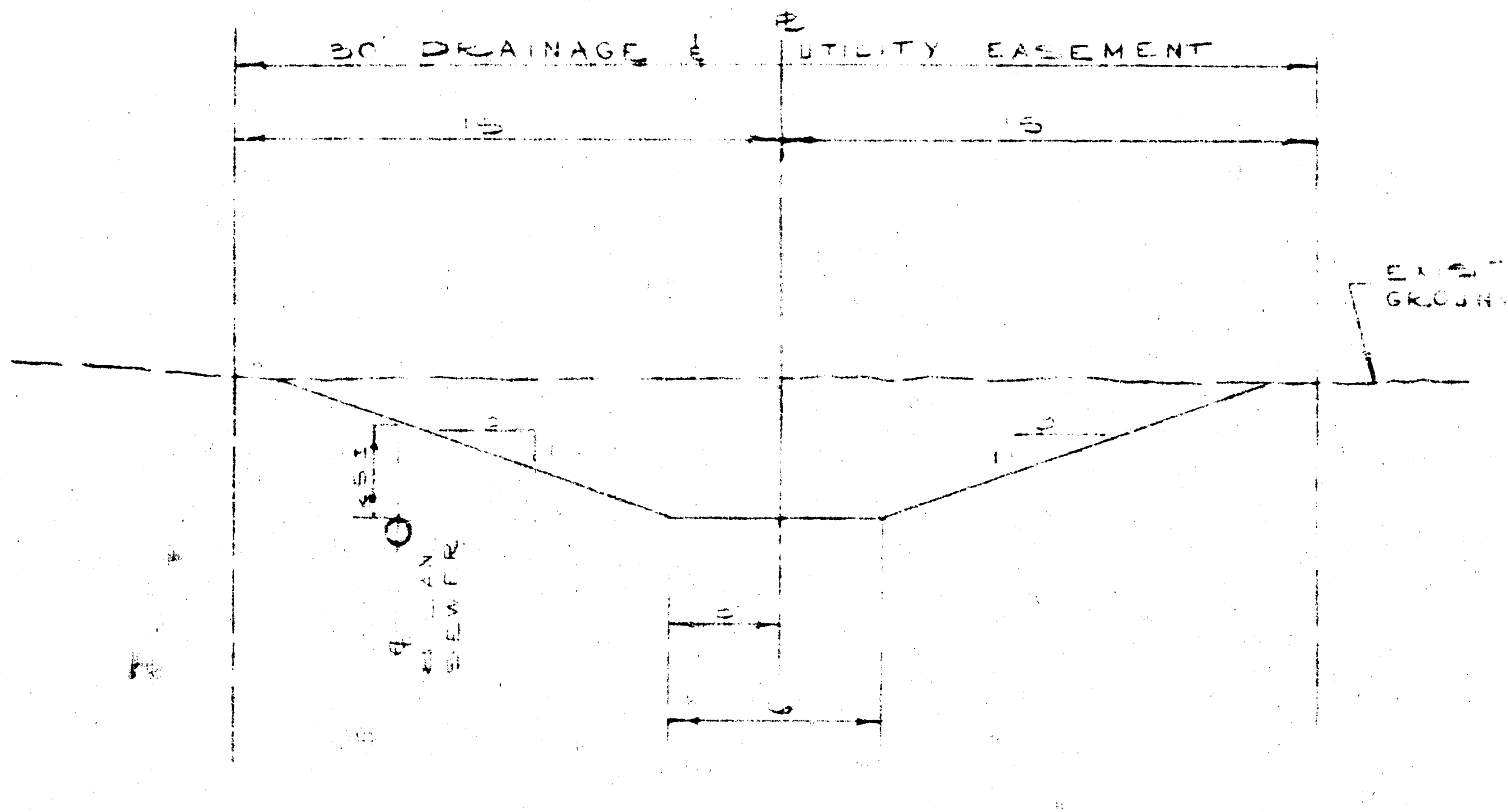
SEWER

GROVER
SANITARY SEWER
EXISTING GROUND
3' MIN. FILL OVER TOP OF PIPE, 10' TOP, 2:1 SLOPES
PROPOSED WATER LINE
COMPACTED FILL
20 L.F. REINFORCED CONCRETE ENCASEMENT
SANDPIPER
SWALLOW
8" WATER LINE
ENTRANCE STRUCTURE
240 L.F. 12" CP @ 0.2%
290 L.F. 12" CP @ 0.2%
295 L.F. 12" CP @ 0.2%
280 L.F. 12" CP @ 0.2%
305 L.F. 12" CP @ 0.2%
270 L.F. 12" CP @ 0.2%
445 L.F. 12" CP @ 0.2%
MH 23+55
MH 20+65
MH 17+70
MH 14+50
MH 11+85
MH 0+00 LAT. 1B
MH 0+00 LAT. 1C
MH 0+00 LINE 2
LINE 1
LINE 2
LINE 3
PAWNEE
SAGEBRUSH
350 L.F. 8" CP @ 0.4%
EX. GROUND
PROPOSED 8" WATER LINE
LATERAL
LAT. 1A
LAT. 1B
LAT. 1C
LAT. 3A
1330
1320
1310
1300
2
5
SEWER





SECTION C-C

SHADYBROOK FARM ADDITION
WASTE STABILIZATION PONDS

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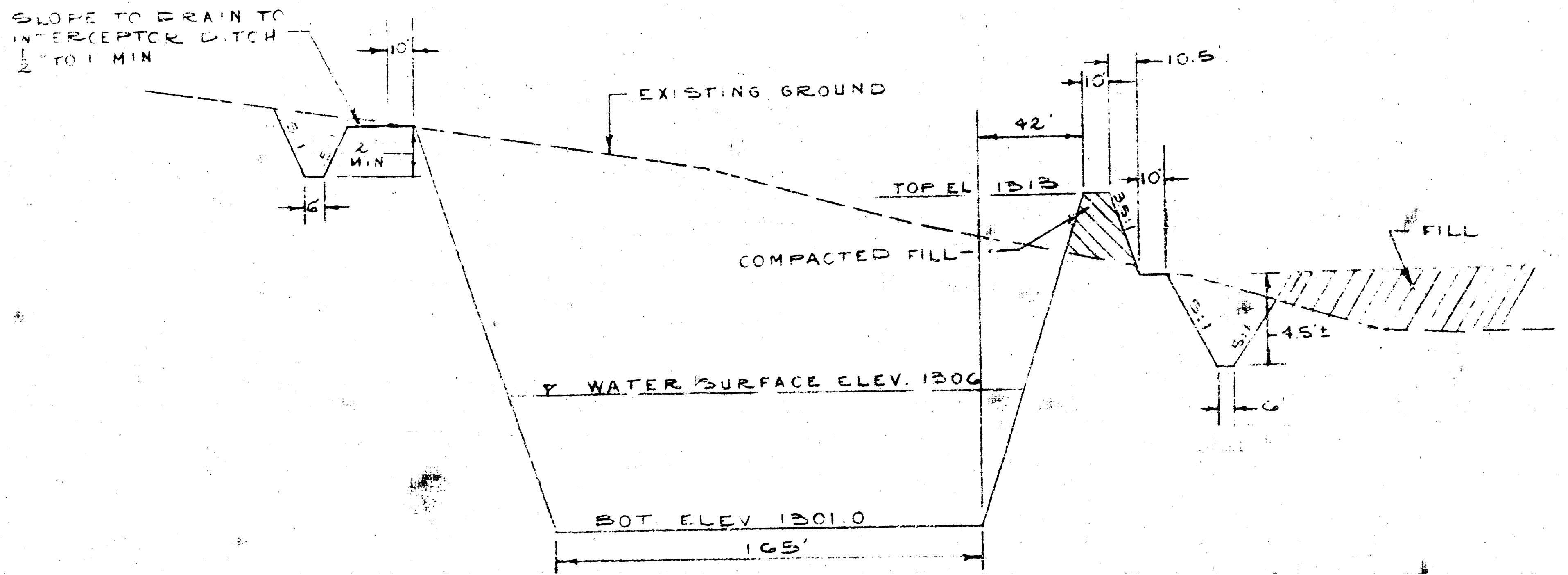
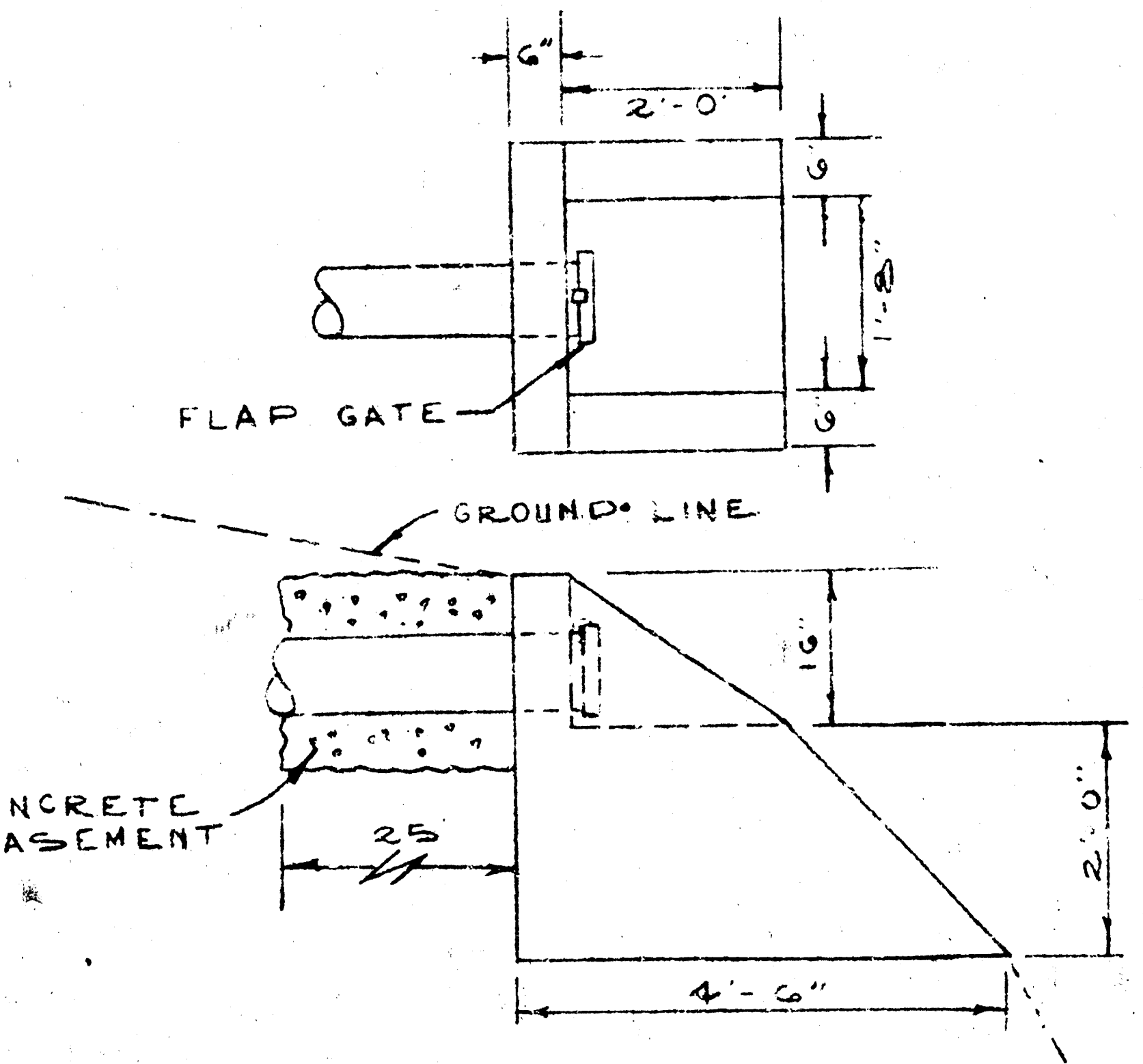
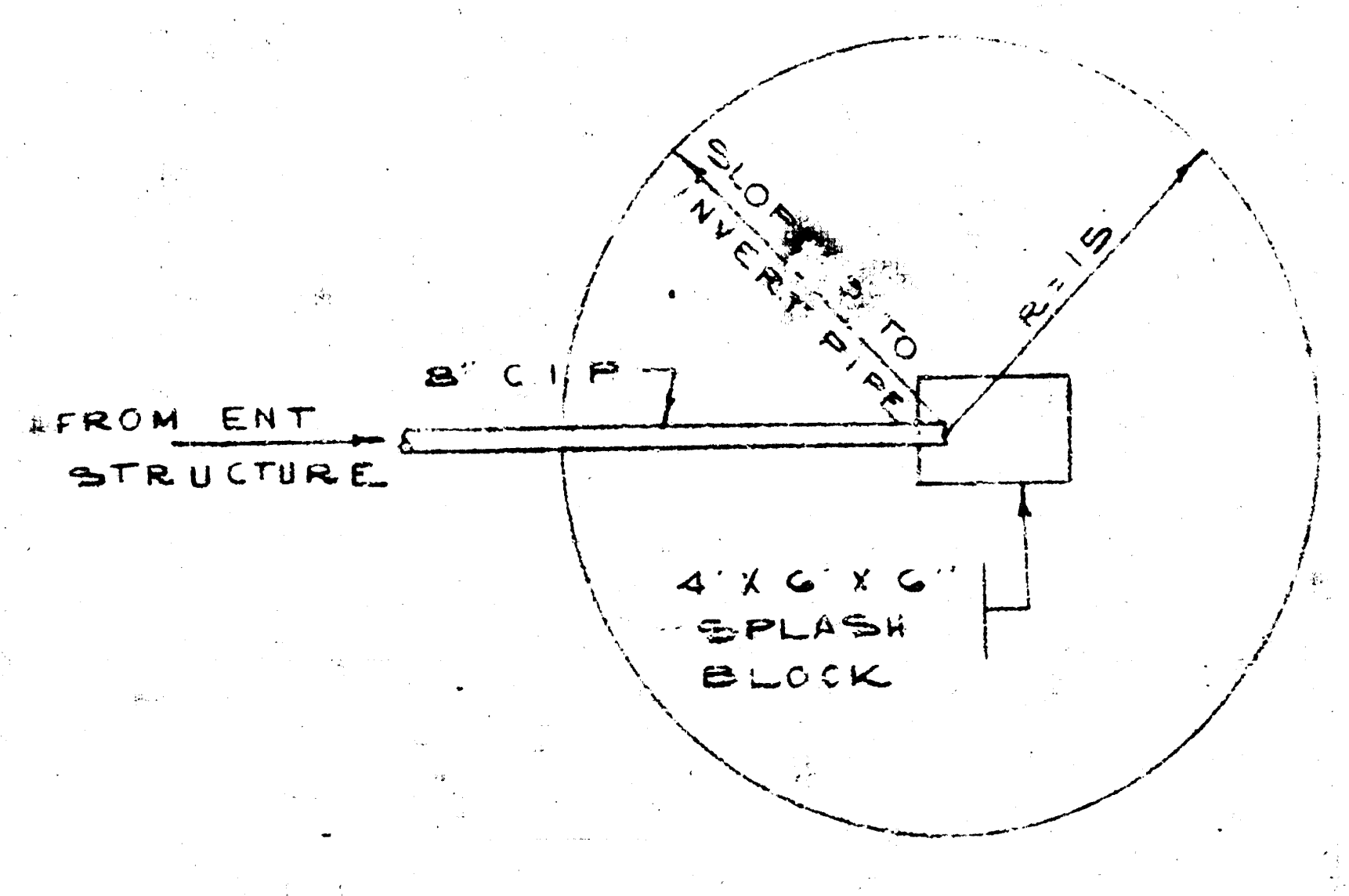
SEPT 21, 1972



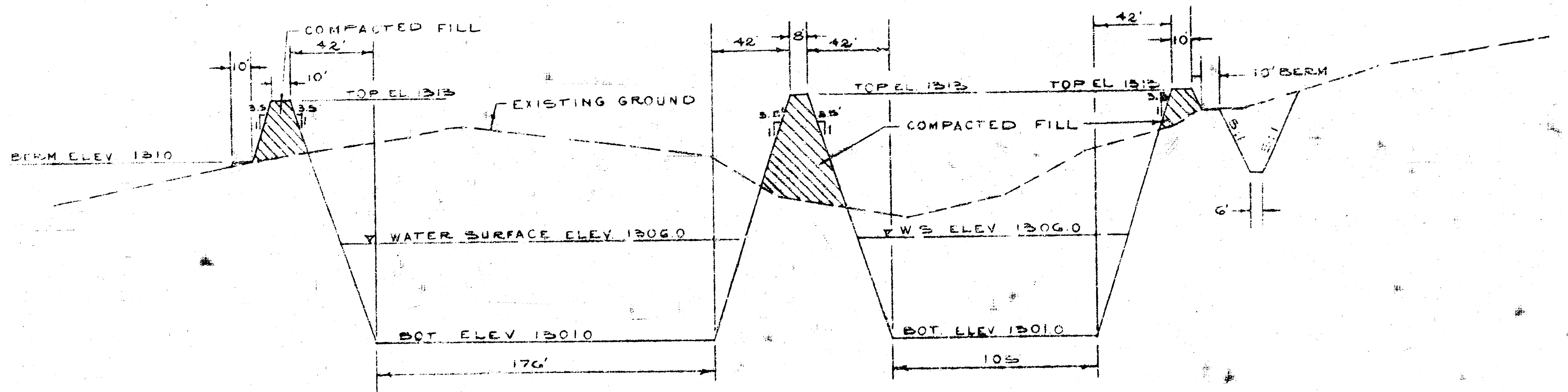
SECTION B-B
HORIZ. - 1"=50'
VERT - 1"=5'

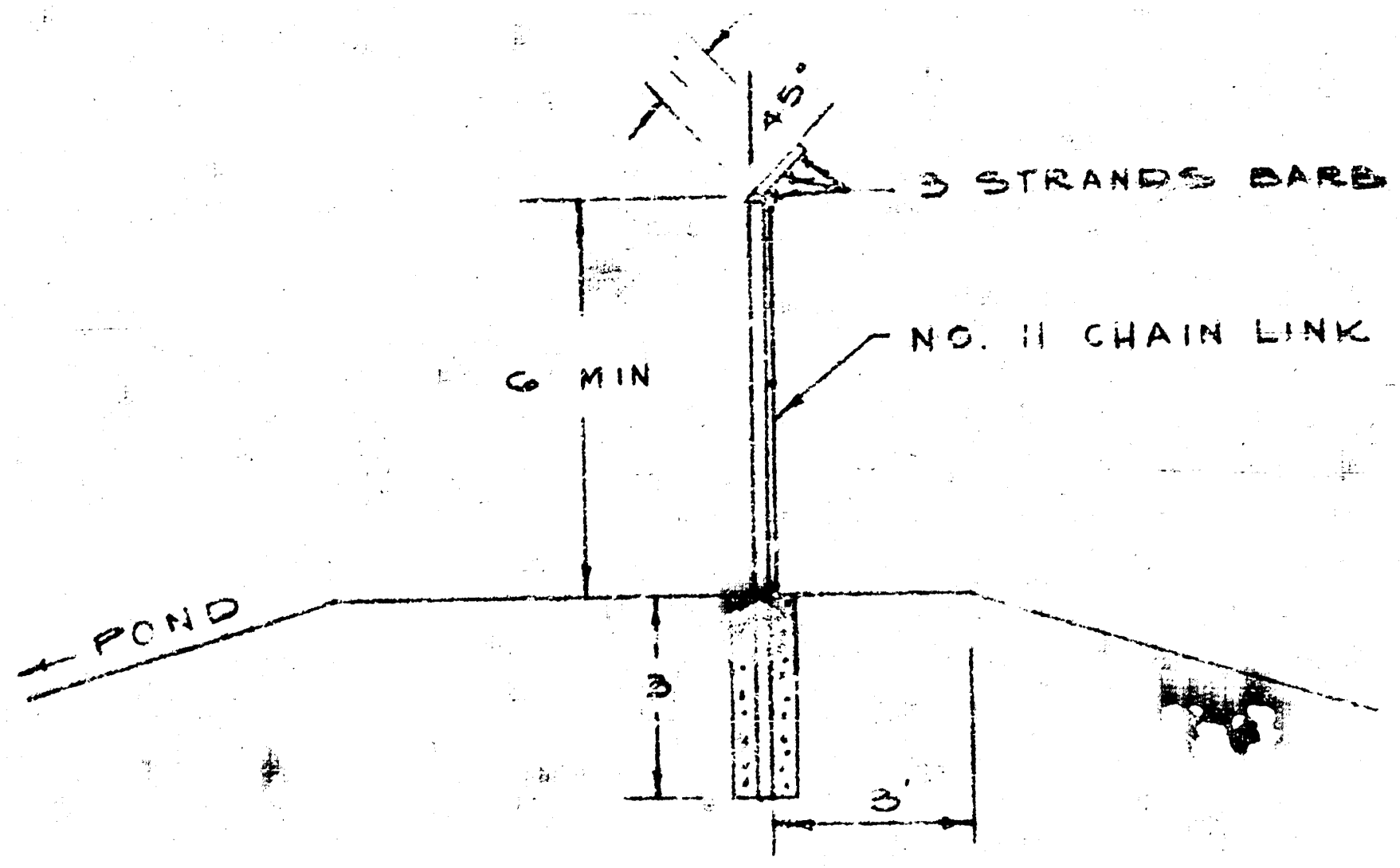


HEADWALL



DETAIL Z





SHADYBROOK FARM ADDITION

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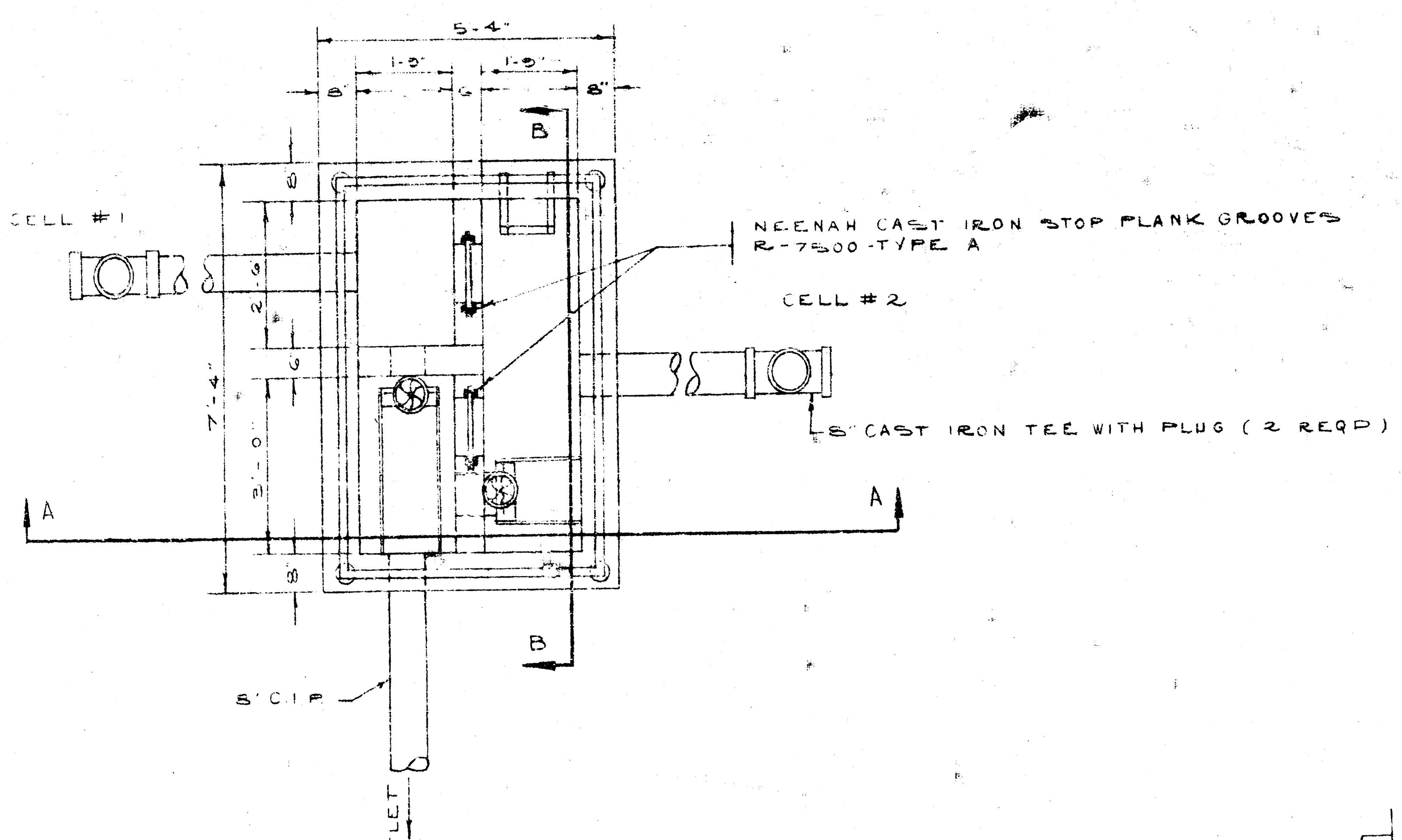
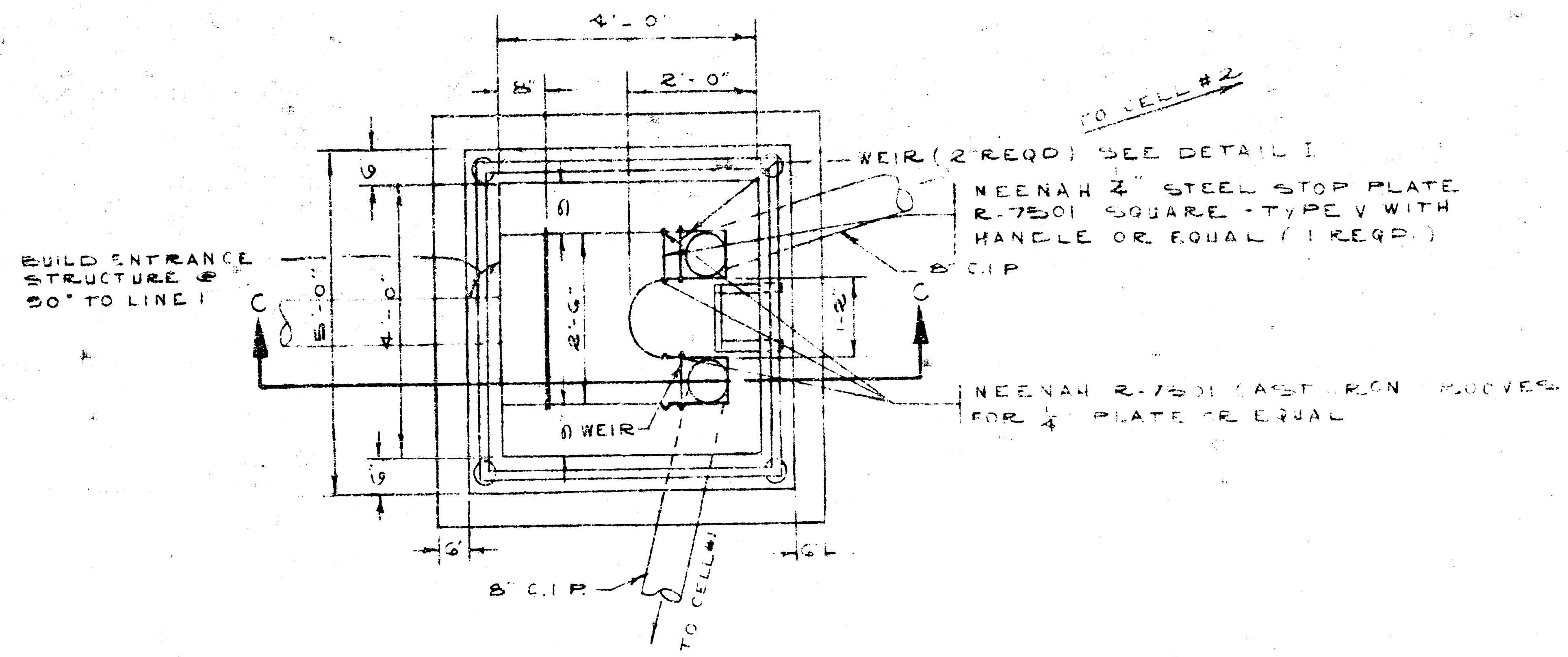
SEPT. 21, 1972

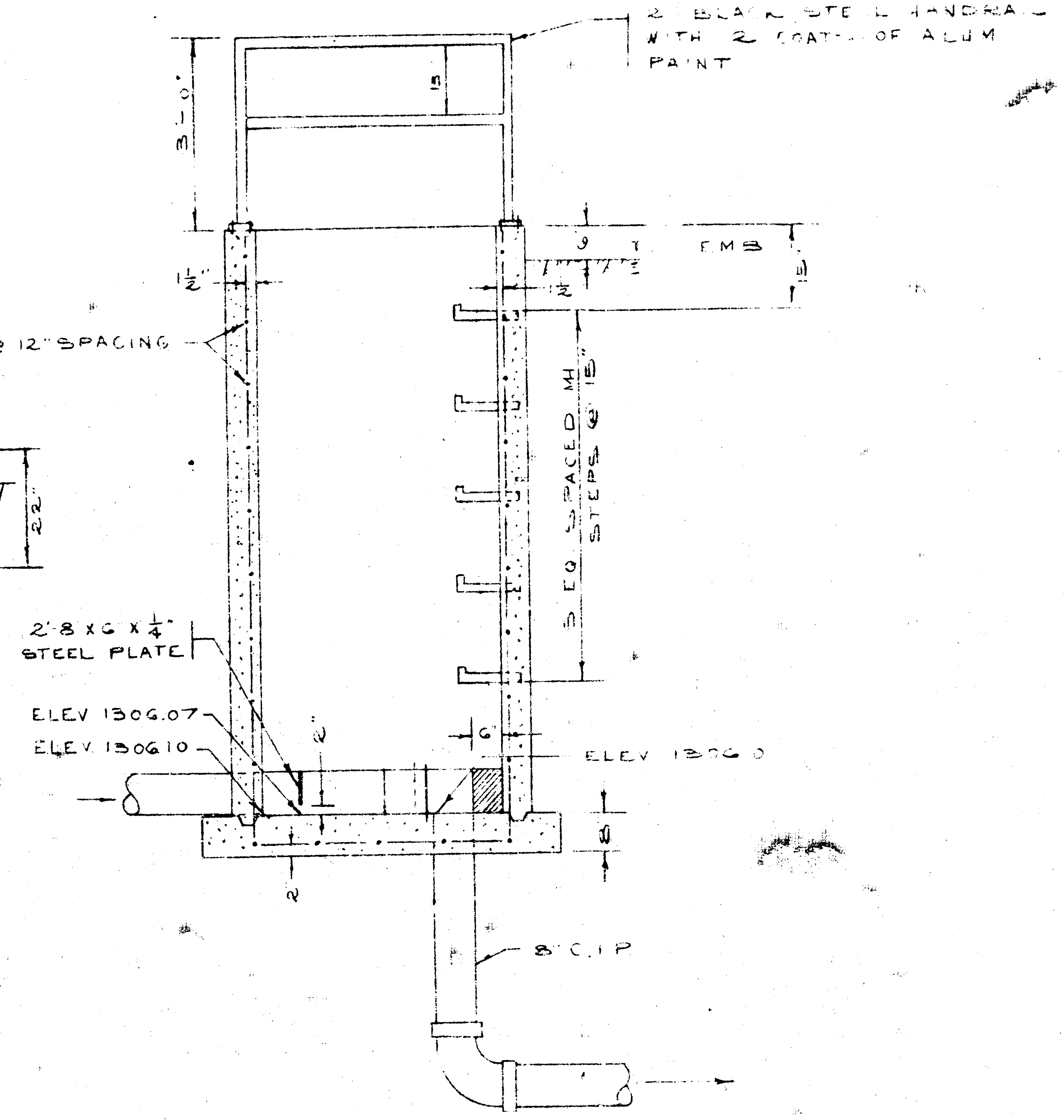

5'-4"
1'-9"
1'-9"
8"
6"
8"
B
CELL #1
NEENAH CAST IRON STOP PLANK GROOVES R-7500-TYPE A
CELL #2
7'-4"
8" CAST IRON TEE WITH PLUG (2 REQD)
A
A
B
8" C.I.P.
OUTLET

PLAN
INTERCONNECT AND OUTLET STRUCTURE

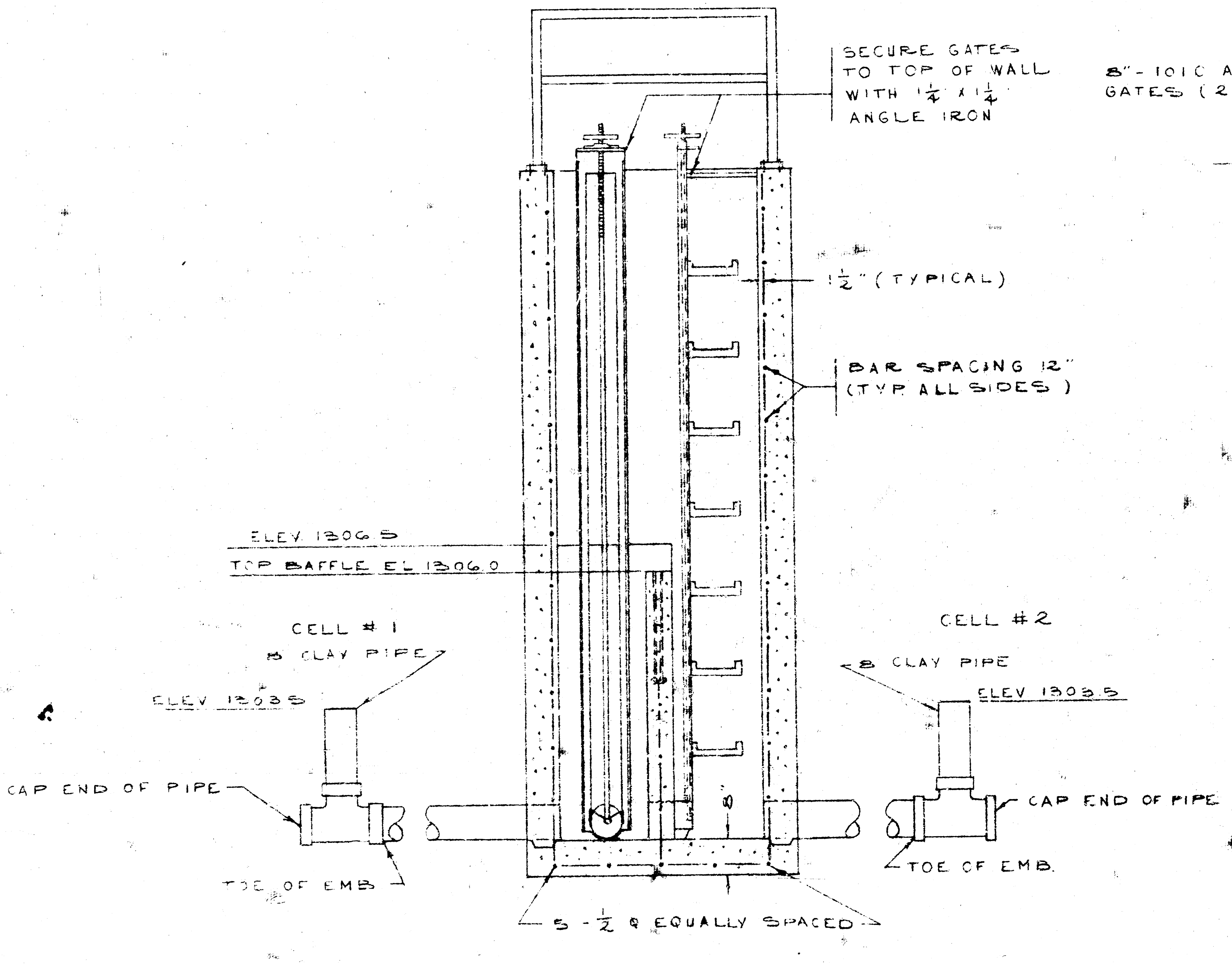

4'-0"
8"
2'-0"
TO CELL #2
WEIR (2 REQD) SEE DETAIL I
NEENAH 1/4" STEEL STOP PLATE R-7501 SQUARE - TYPE V WITH HANDLE OR EQUAL (1 REQD)
8" C.I.P.
BUILD ENTRANCE STRUCTURE @ 90° TO LINE 1
C
C
5'-0"
4'-0"
2'-6"
1'-2"
WEIR
NEENAH R-7501 CAST IRON GROOVES FOR 1/4" PLATE OR EQUAL
6"
6"
8" C.I.P.
TO CELL #1

PLAN

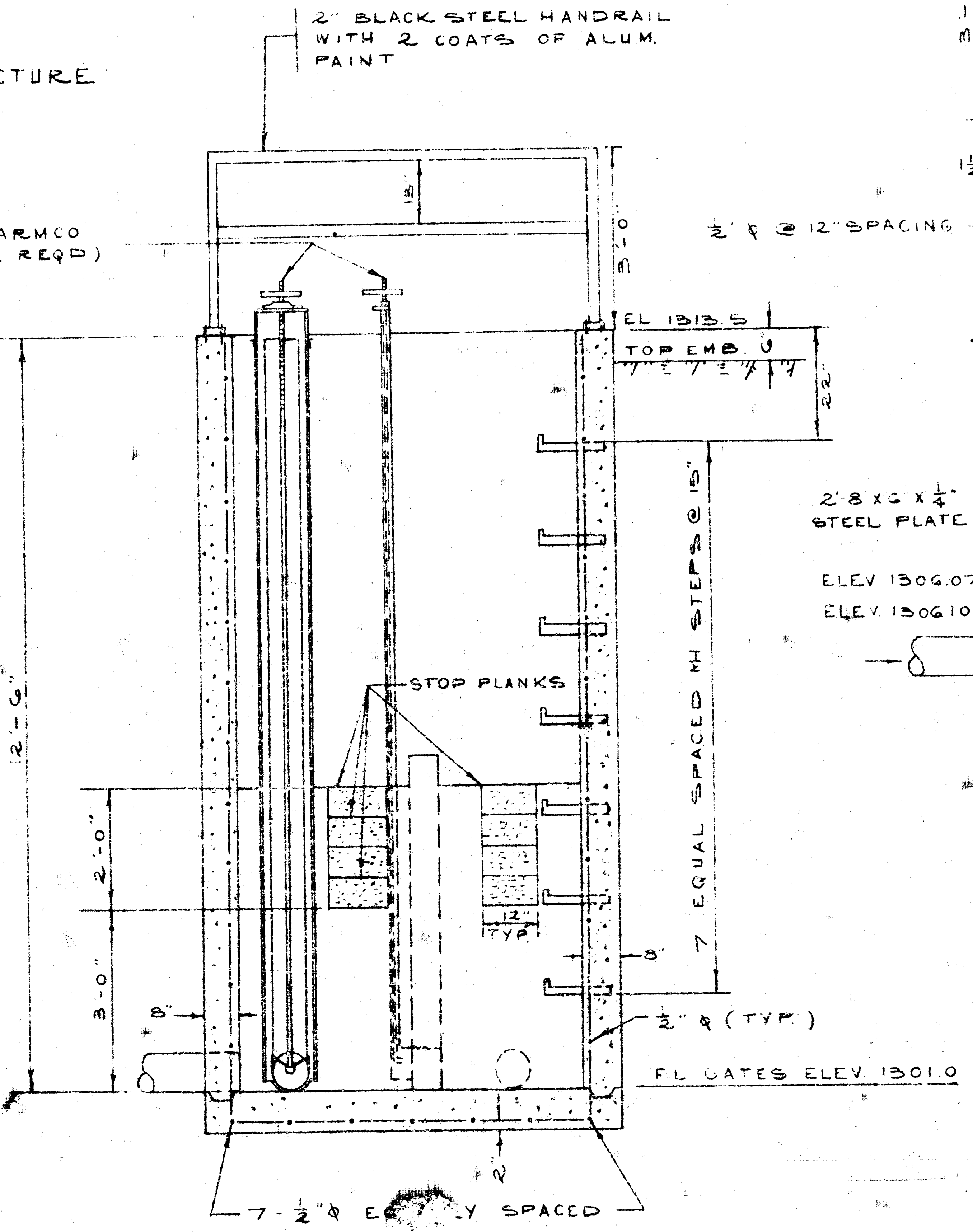
ENTRANCE STRUCTURE


2" BLACK STEEL HANDRAIL WITH 2 COATS OF ALUM PAINT
3'-0"
15
1 1/2"
EMB
1/2" ⌀ @ 12" SPACING
5 EQ SPACED MH STEPS @ 15"
2'-8 x 6 x 1/4" STEEL PLATE
ELEV 1306.07
ELEV 1306.10
6"
ELEV 1306.0
8" C.I.P.

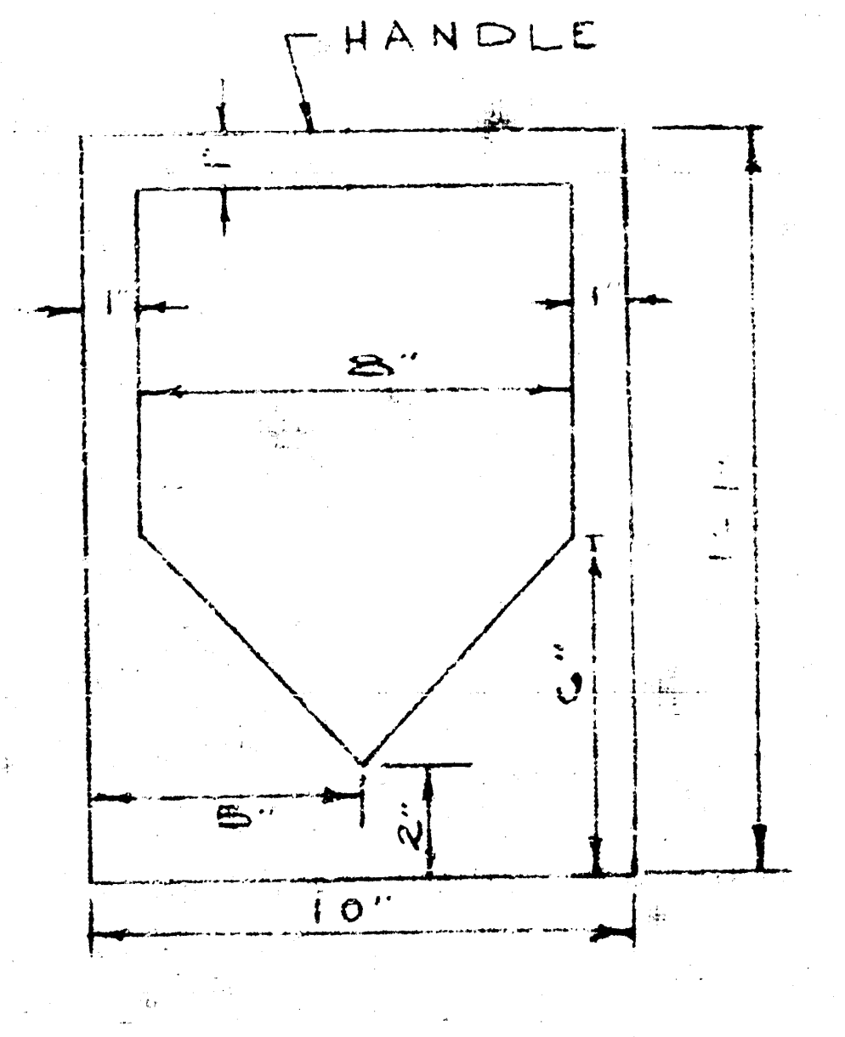
SECTION C-C
ENTRANCE STRUCTURE



SECTION A-A


2" BLACK STEEL HANDRAIL WITH 2 COATS OF ALUM PAINT
8"-101C ARMCO GATES (2 REQD)
3'-0"
EL 1313.5
TOP EMB.
22"
12'-6"
STOP PLANKS
2'-0"
3'-0"
12"
TYP
8"
EQUAL SPACED MH STEPS @ 15"
1/2" ⌀ (TYP)
FL GATES ELEV 1301.0
7 - 1/2" ⌀ EQUALLY SPACED

SECTION B-B



DETAIL I
WEIR

SHADYBROOK FARM ADDITION

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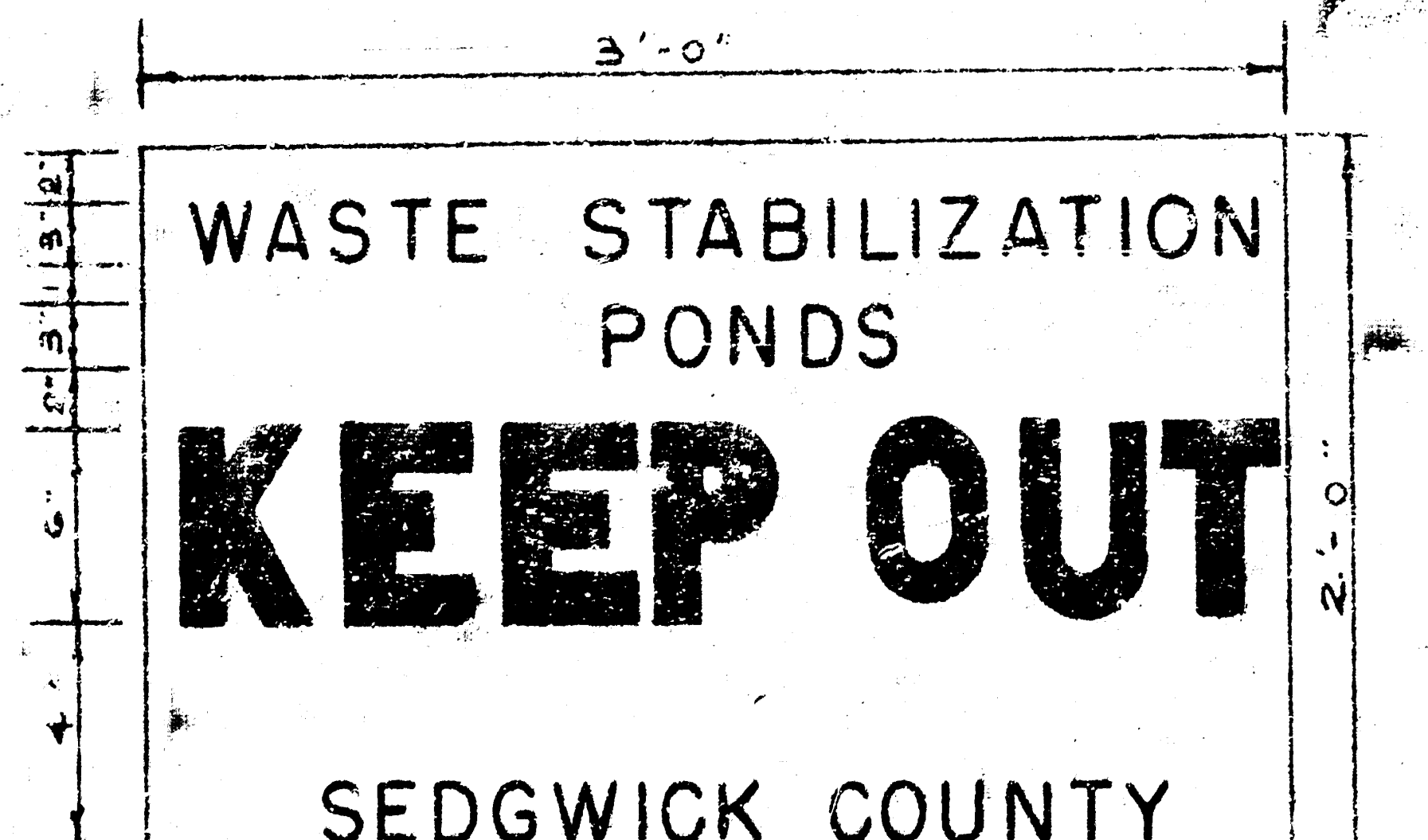
SEPT 21, 1972



NOTE: CONTRACTOR SHALL FURNISH 4-12 GUAGE METAL SIGNS WIT

[illegible]

STABILIZAT[illegible]
CROSS SECTIONS

0+00 = EAST SIDE OF THE TOP EMBANKMENT OF CELL #2

0+00 - 0+10

▦ = EXCAVATION

▨ = FILL

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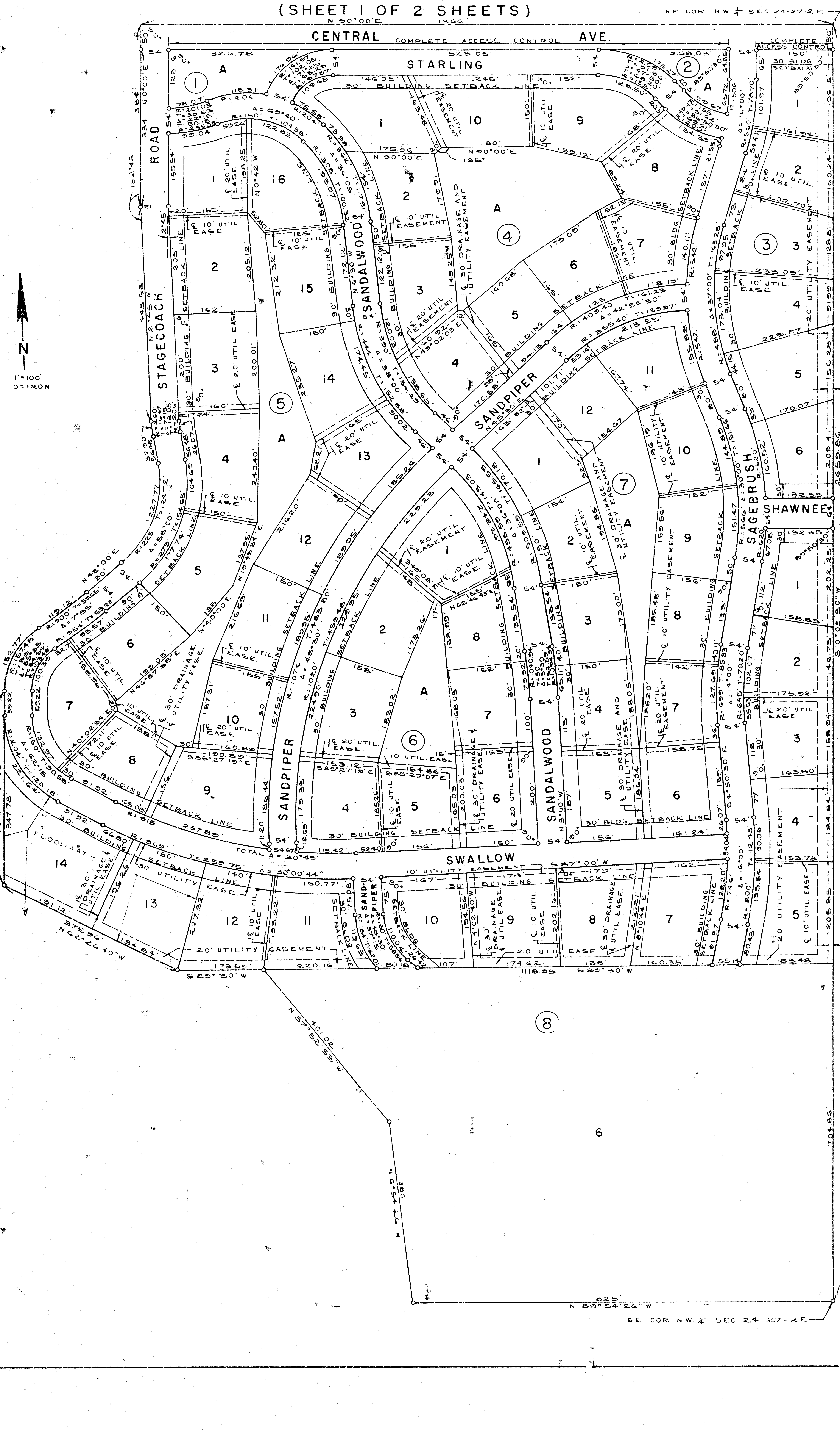
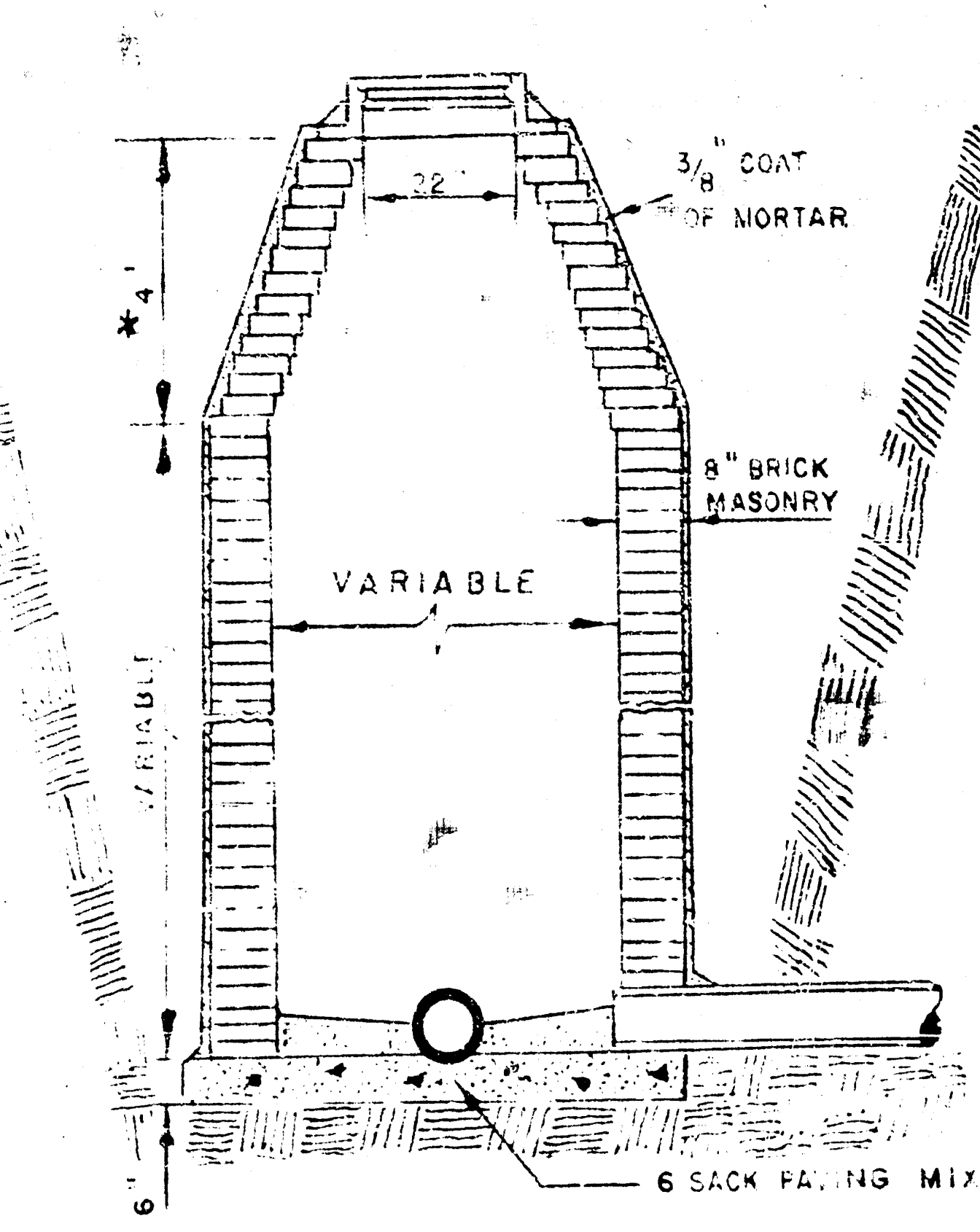
SHADYBROOK FARM ADDITION

SEDGWICK COUNTY, KANSAS

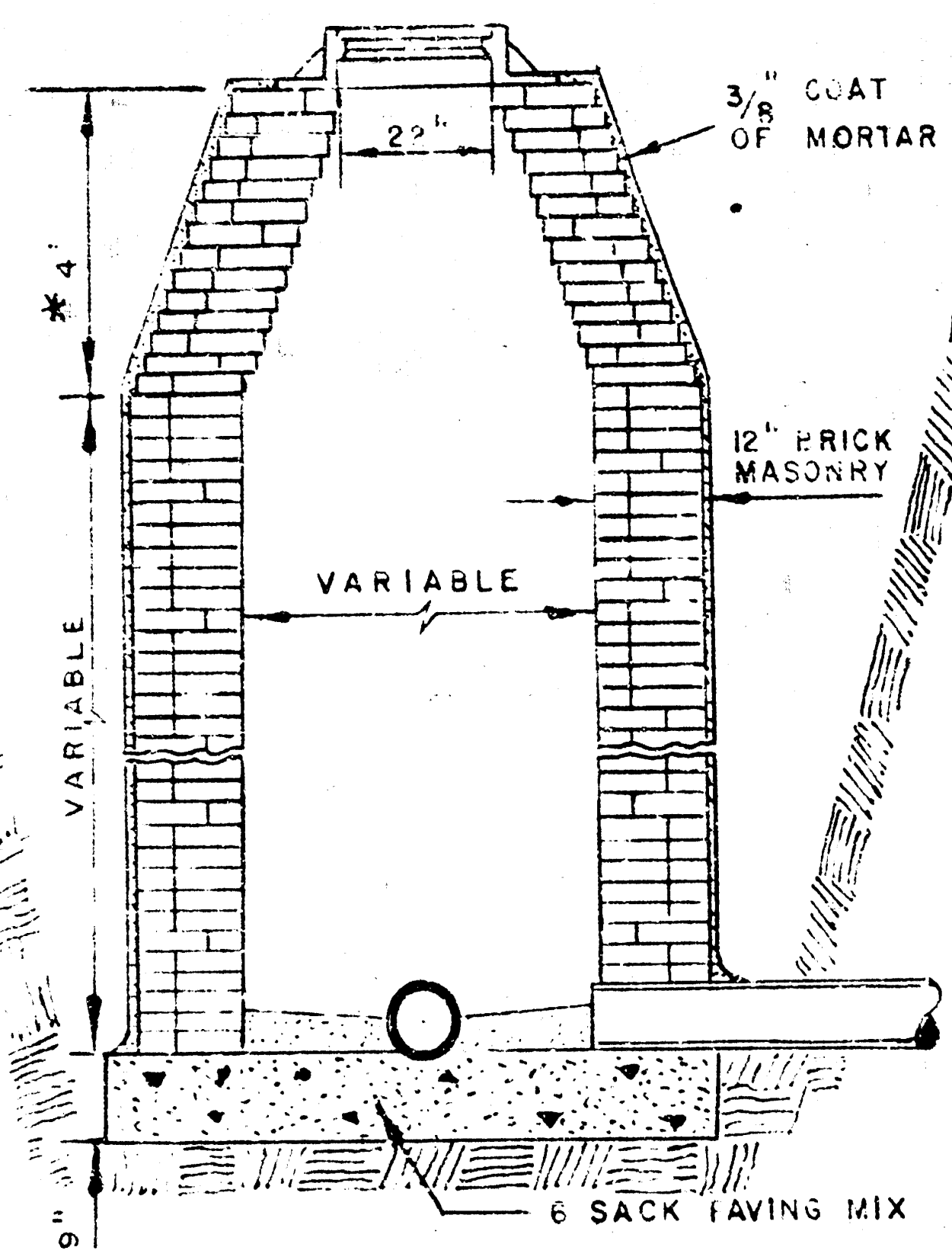
(SHEET 1 OF 2 SHEETS)



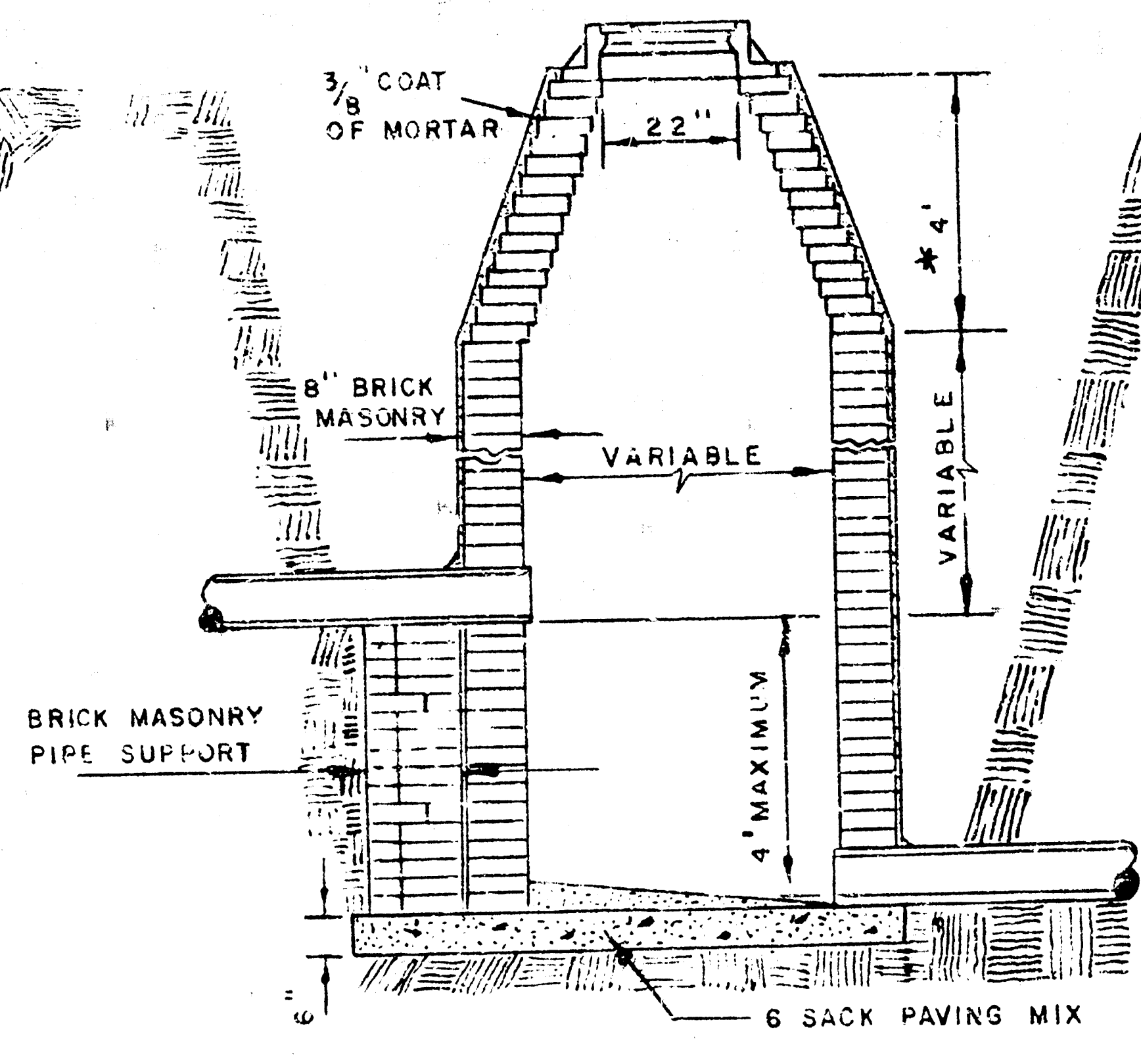
7/8



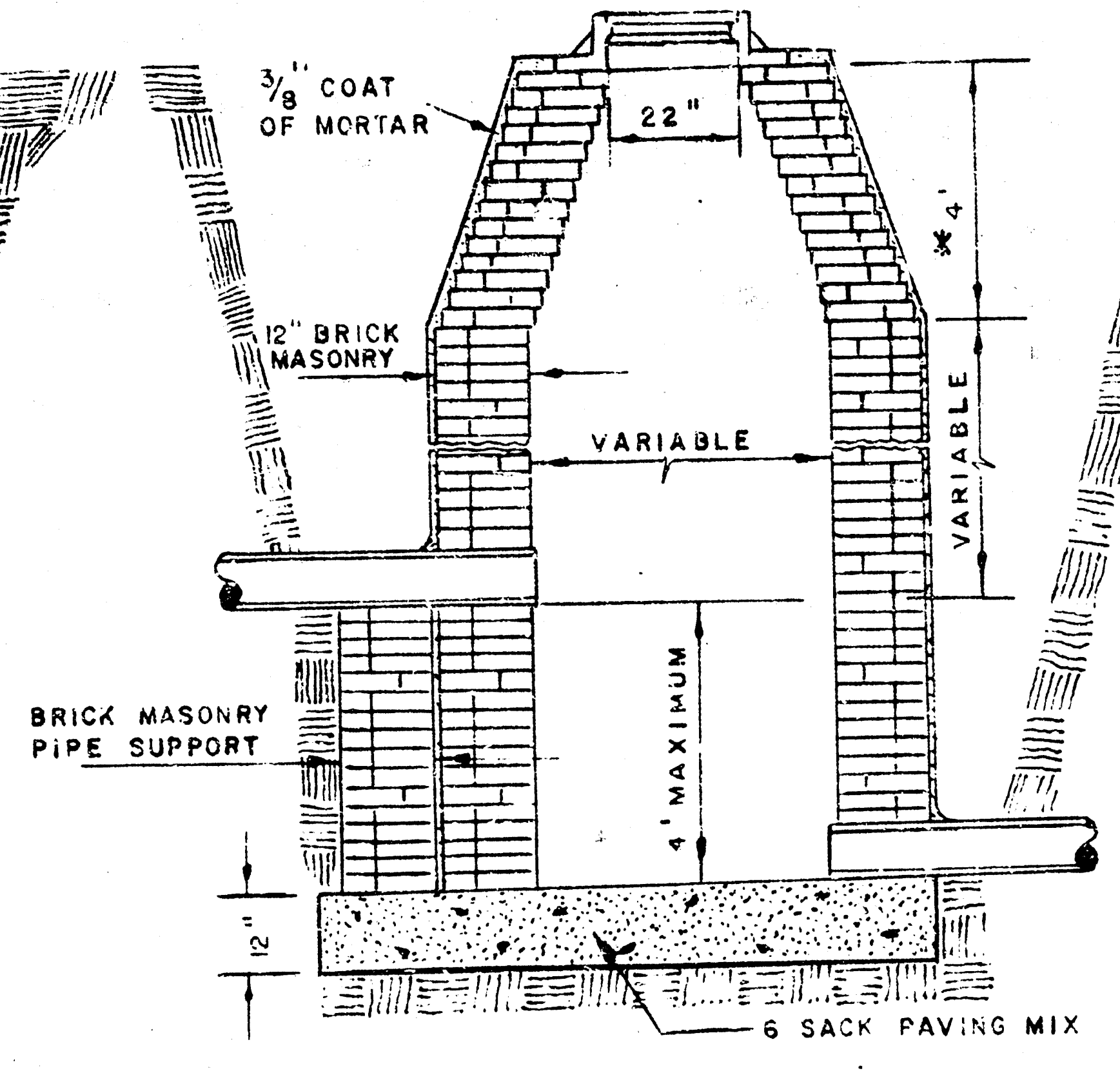
STANDARD MANHOLE
TYPE "A"



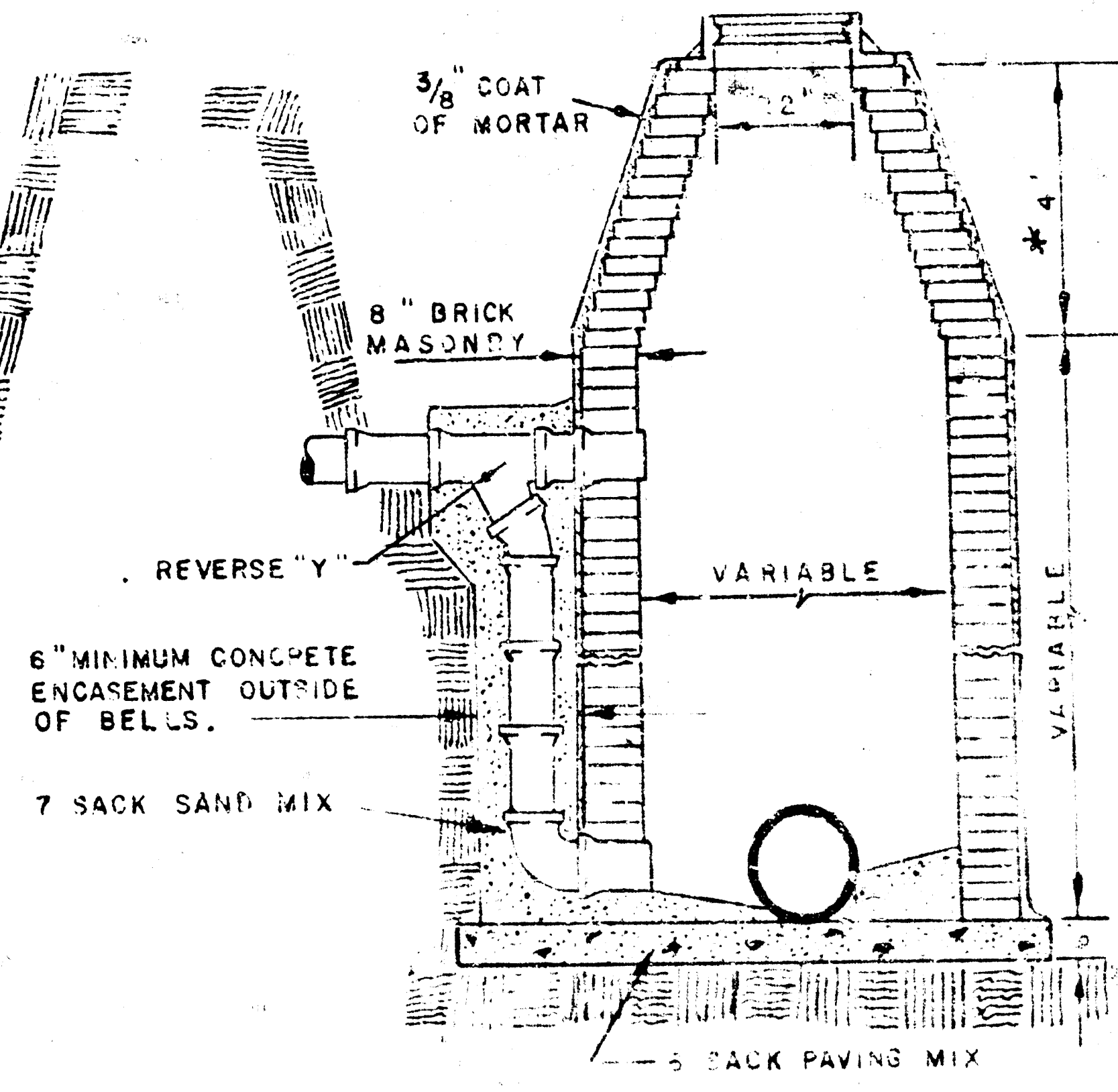
STANDARD MANHOLE
TYPE "B"



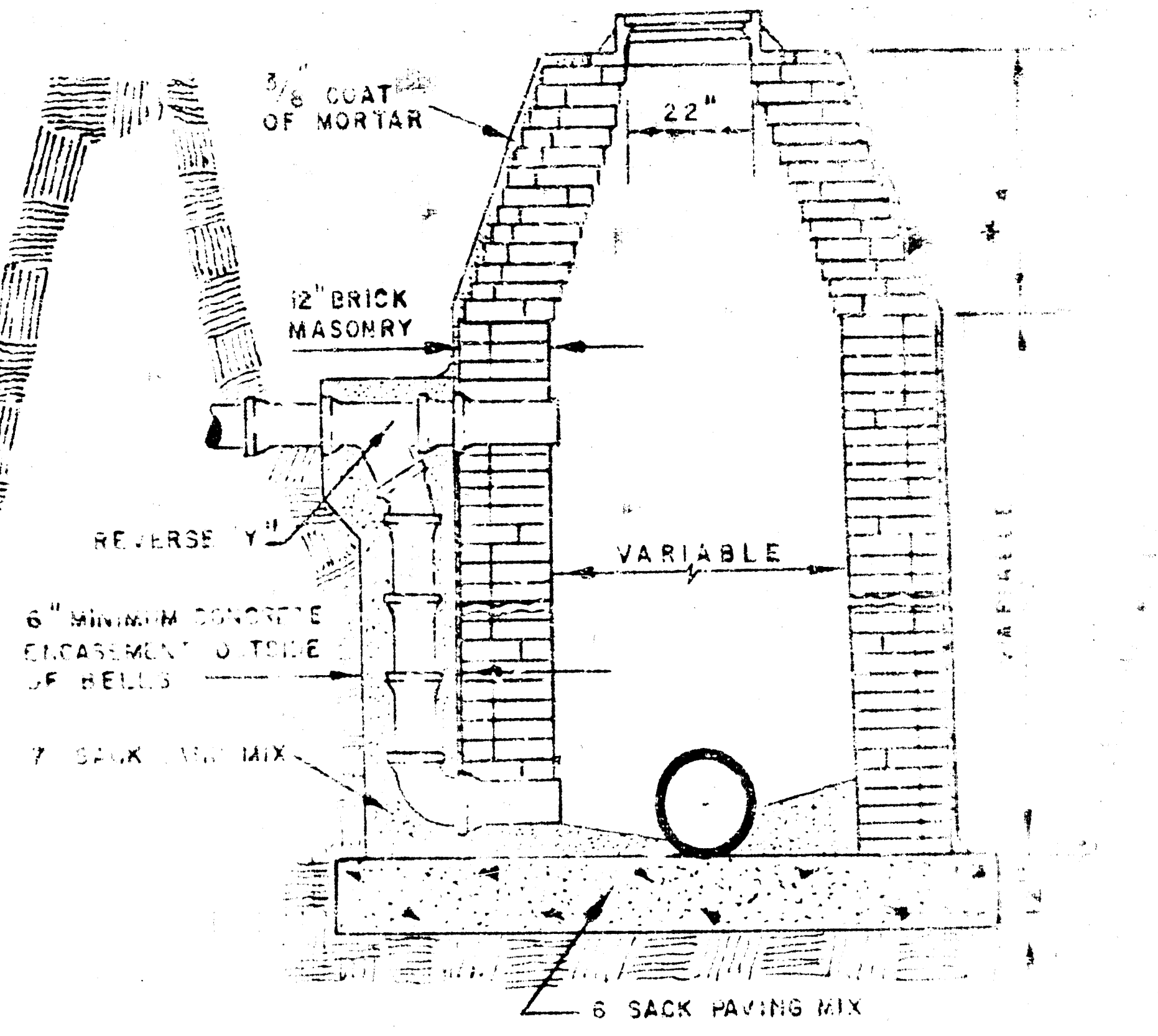
DROP MANHOLE
TYPE "A"



DROP MANHOLE
TYPE "B"

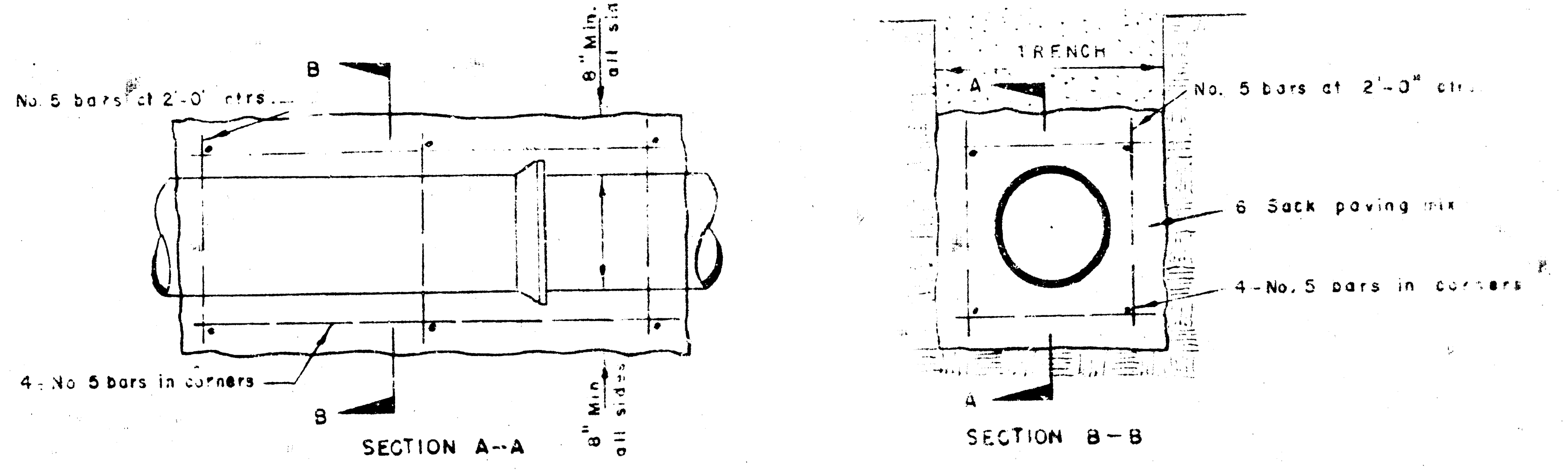


OUTSIDE DROP MANHOLE
TYPE "A"



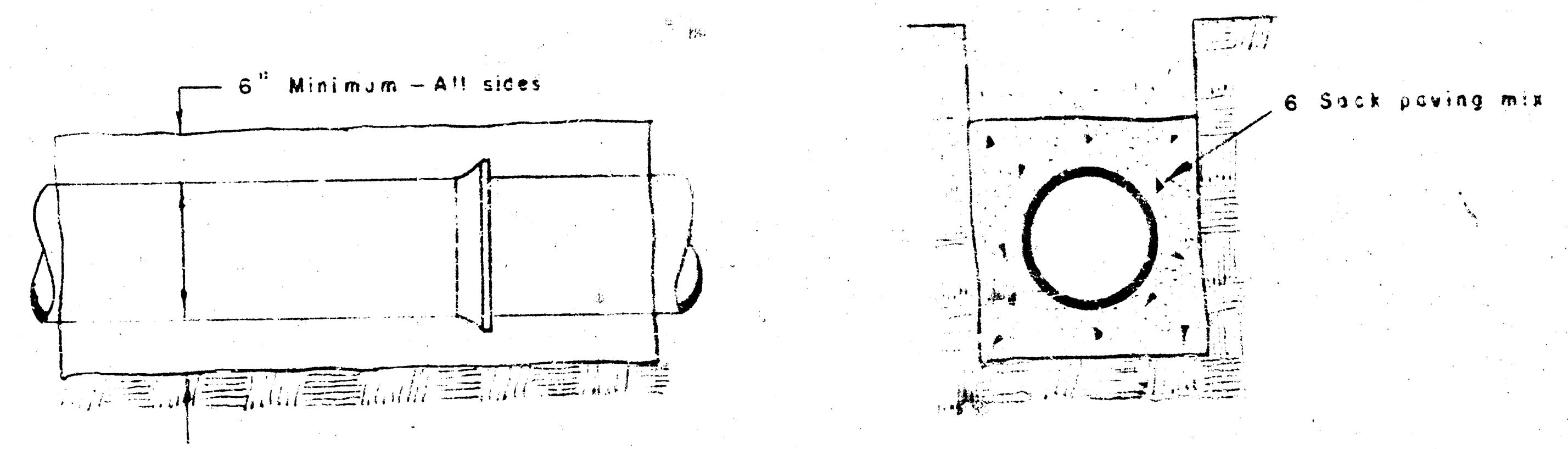
OUTSIDE DROP MANHOLE
TYPE "B"

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



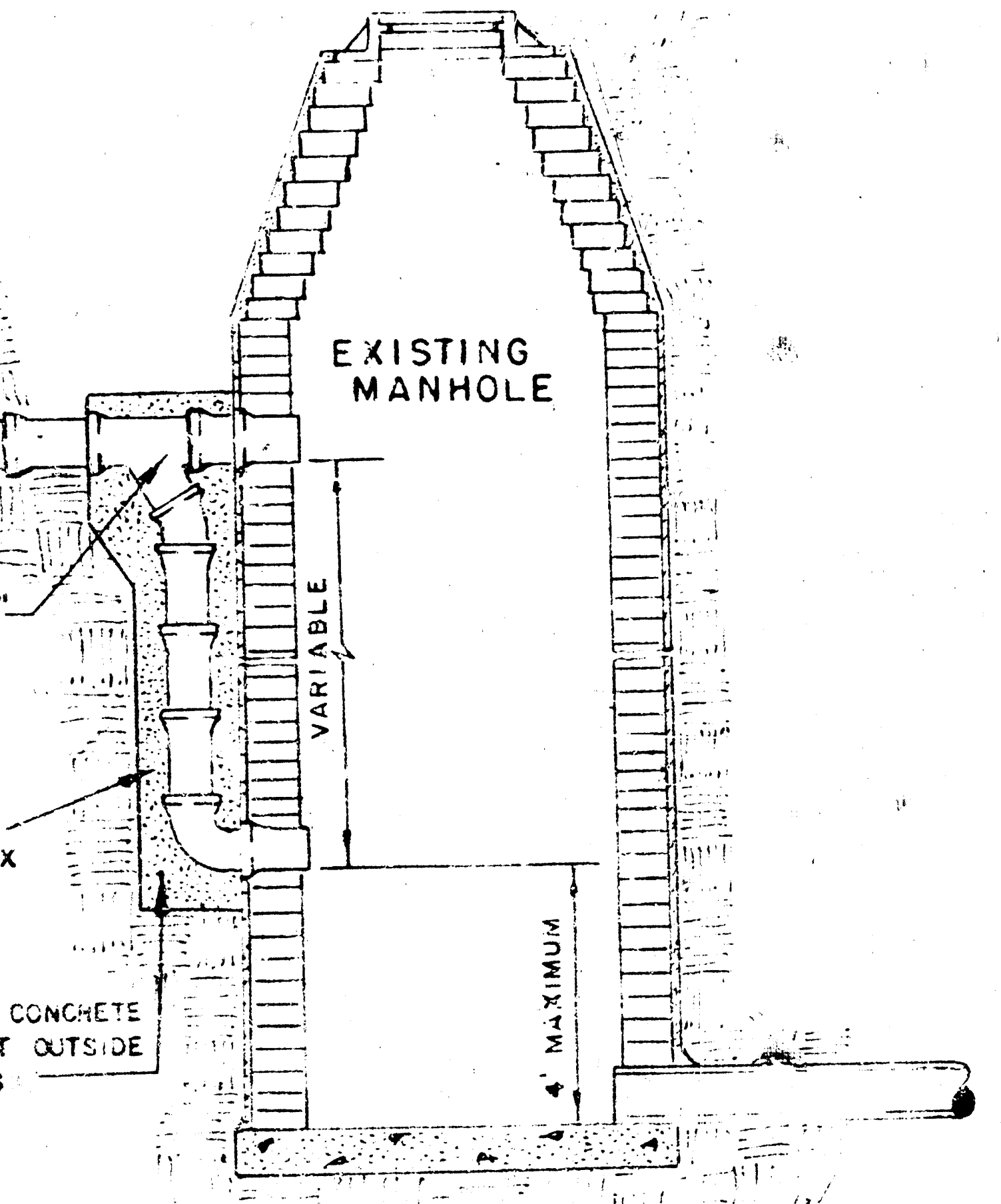
REINFORCED CONCRETE ENCASEMENT

FOR STRENGTH



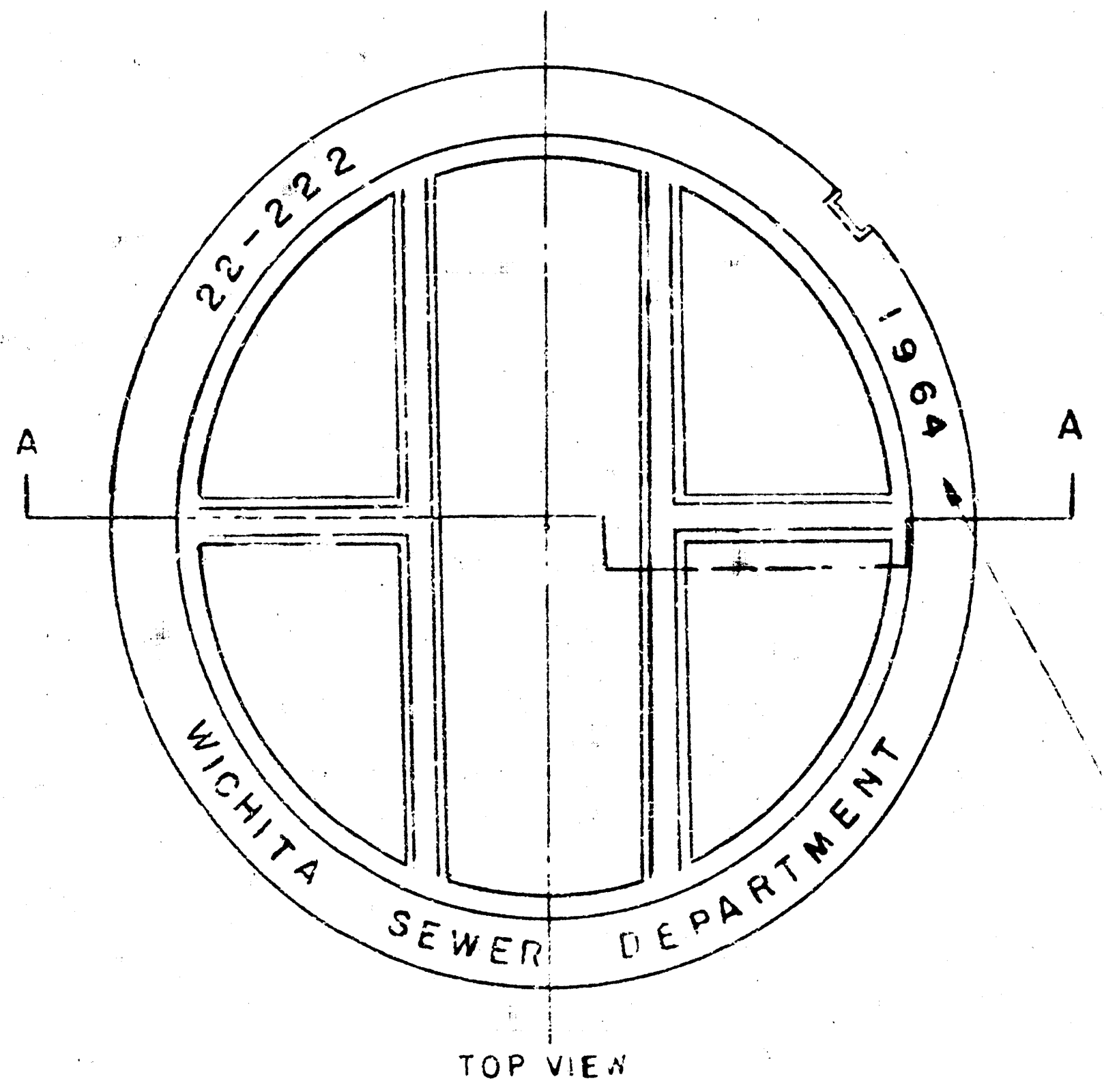
CONCRETE ENCASEMENT

FOR COVER



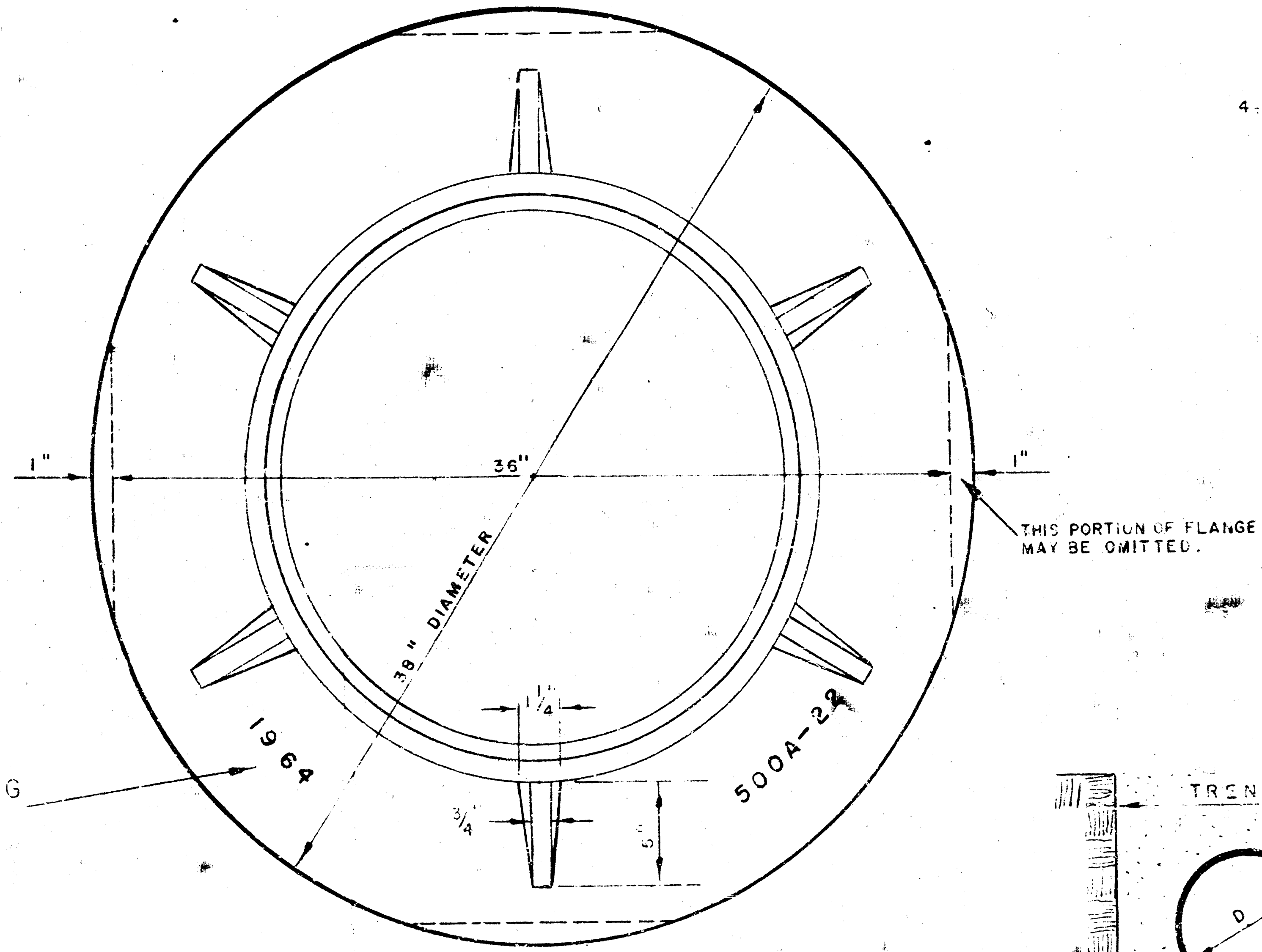
DETAIL OF DROP STACK

FOR EXISTING MANHOLES IN GROUND WATER



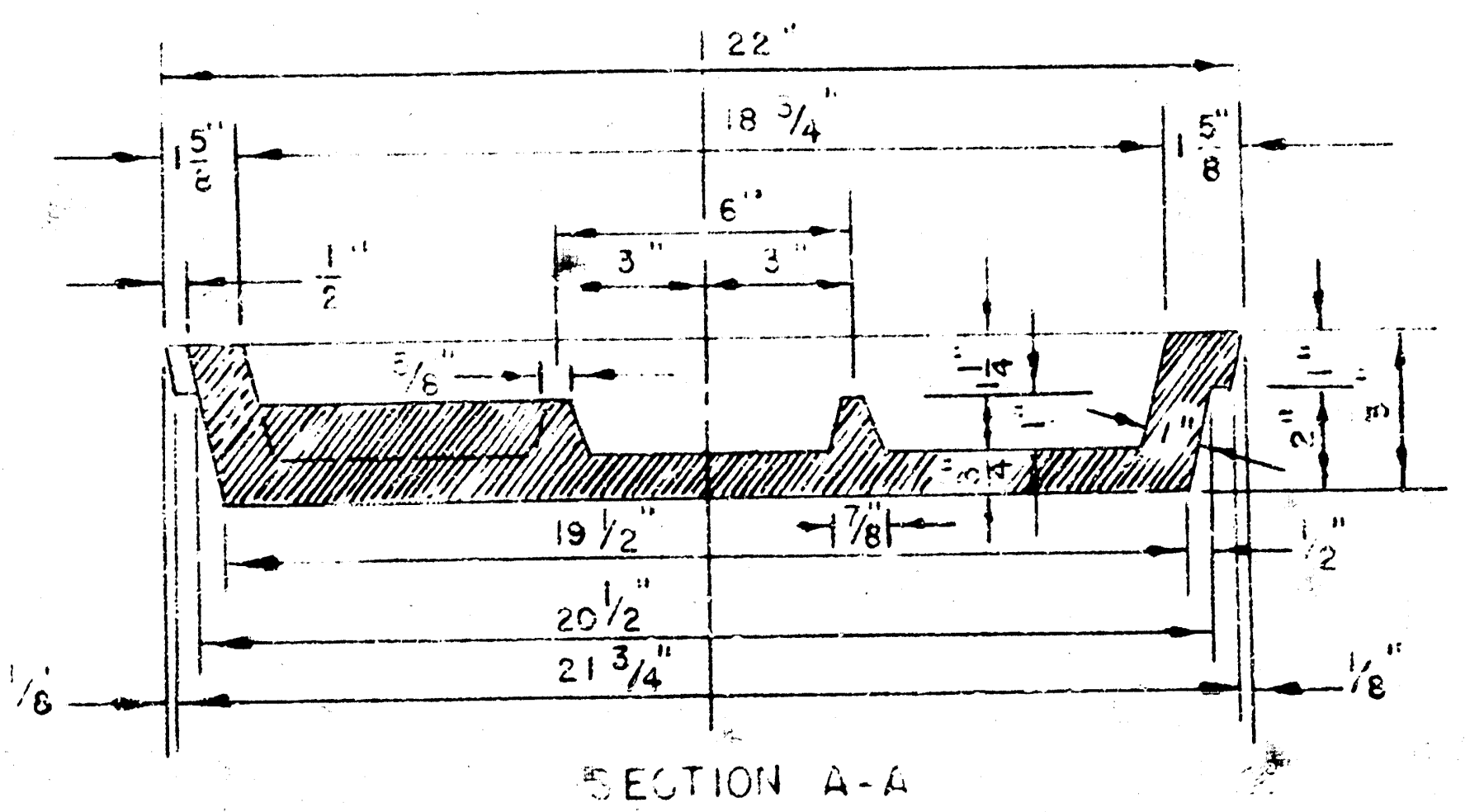
MANHOLE COVER

WEIGHT 110 lbs.

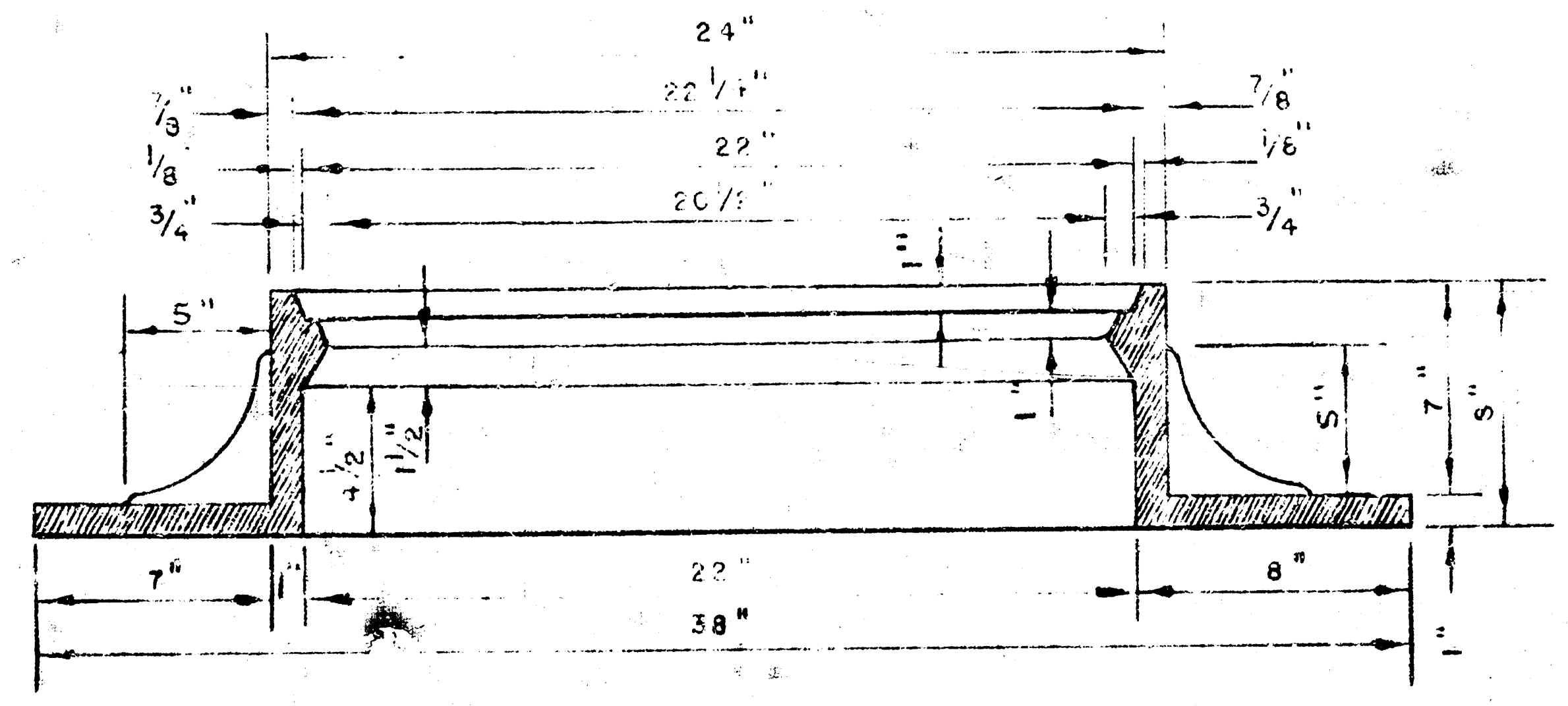


MANHOLE RING

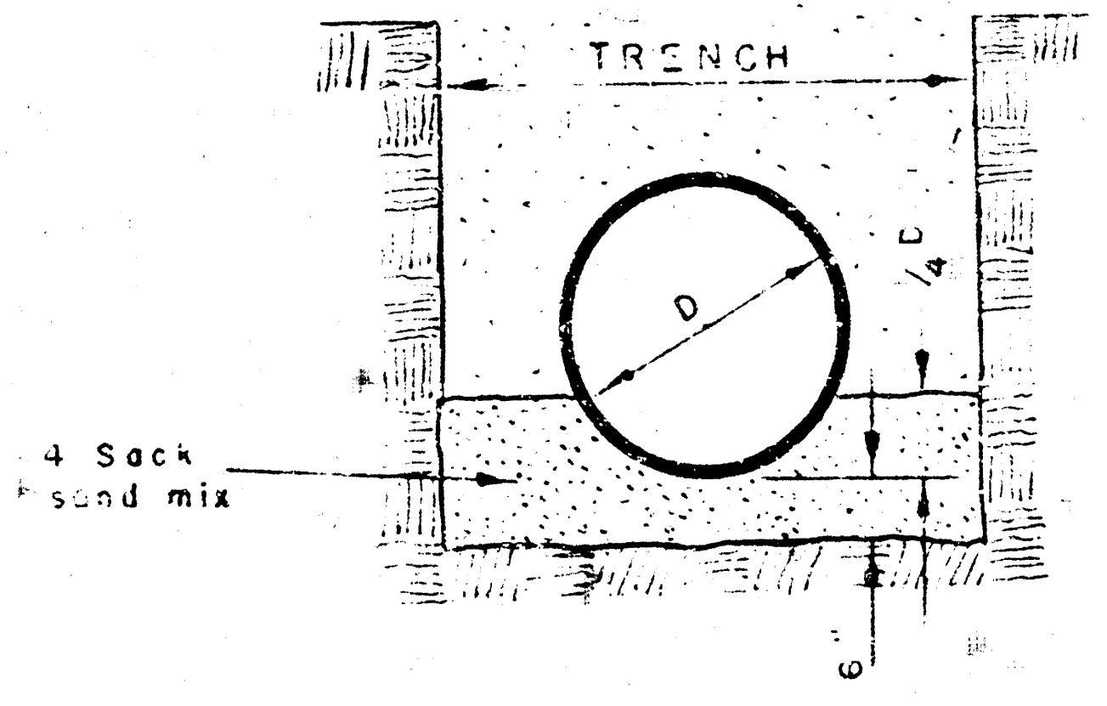
WEIGHT 355 lbs.



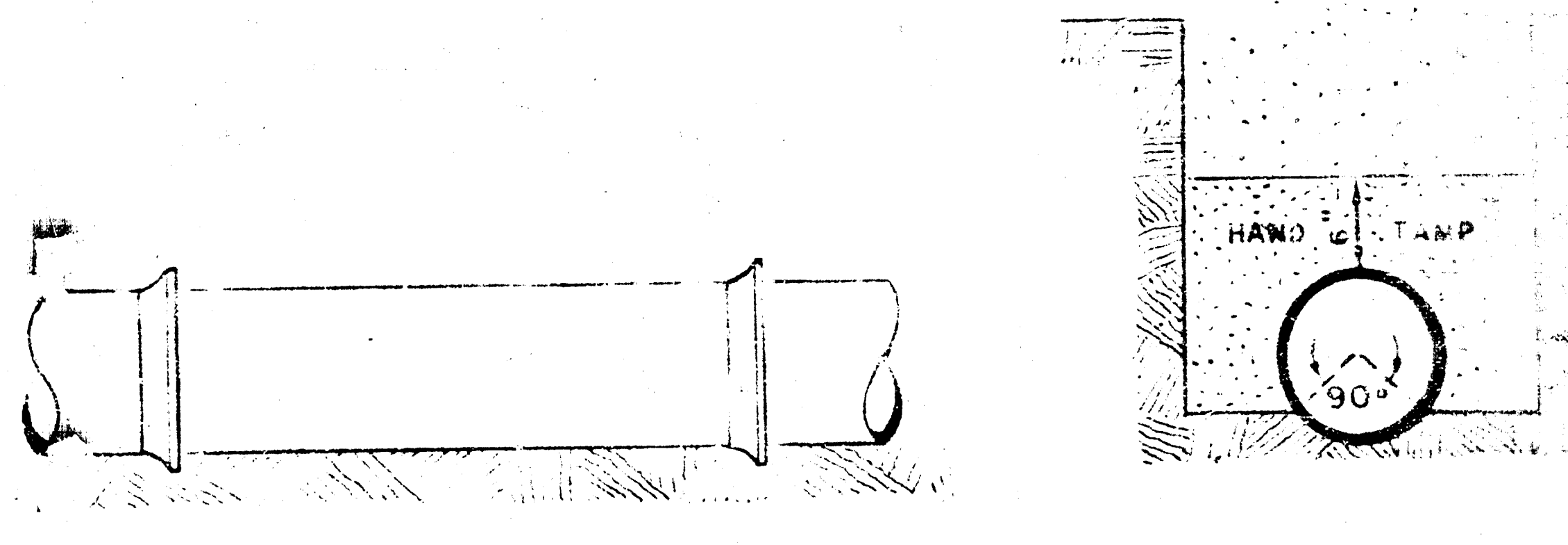
MANHOLE COVER



MANHOLE RING

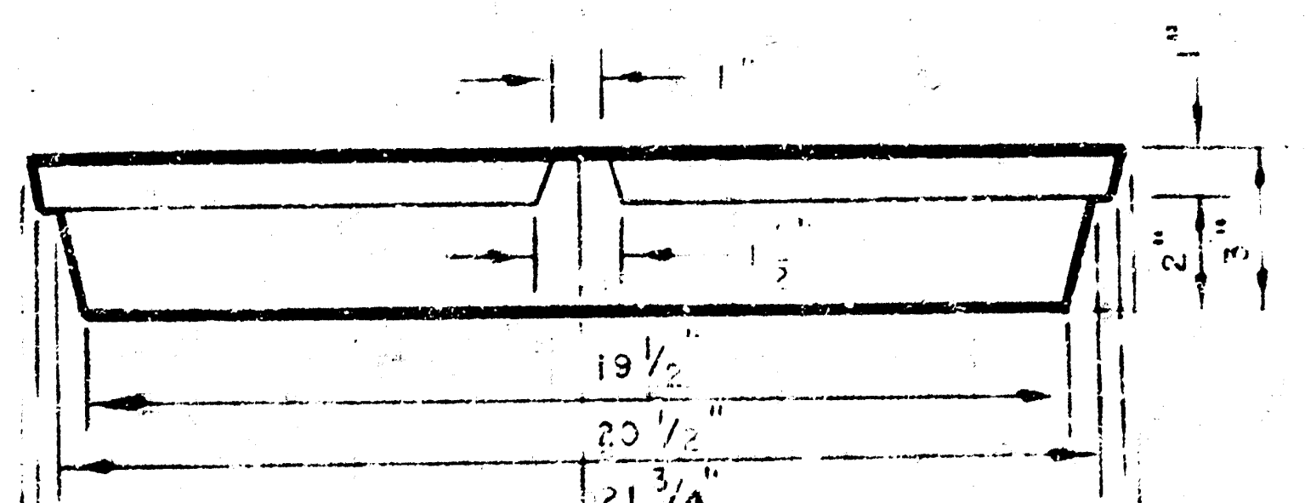


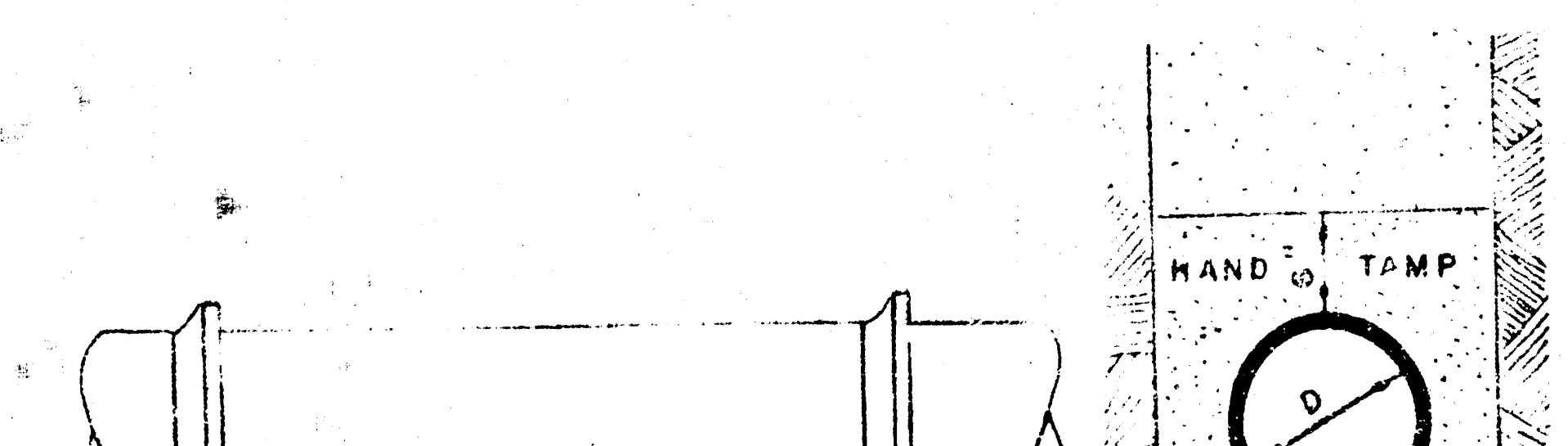
DETAIL OF CONCRETE CRADLE



ORDINARY BEDDING METHOD

FOR CLAY PIPE





MANHOLES

THE CONCRETE USED FOR MORTAR IN MANHOLES SHALL CONTAIN 6 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

DETAILS OF
SEWER APPURTENANCES
ADOPTED AS STANDARD DESIGN
BY