

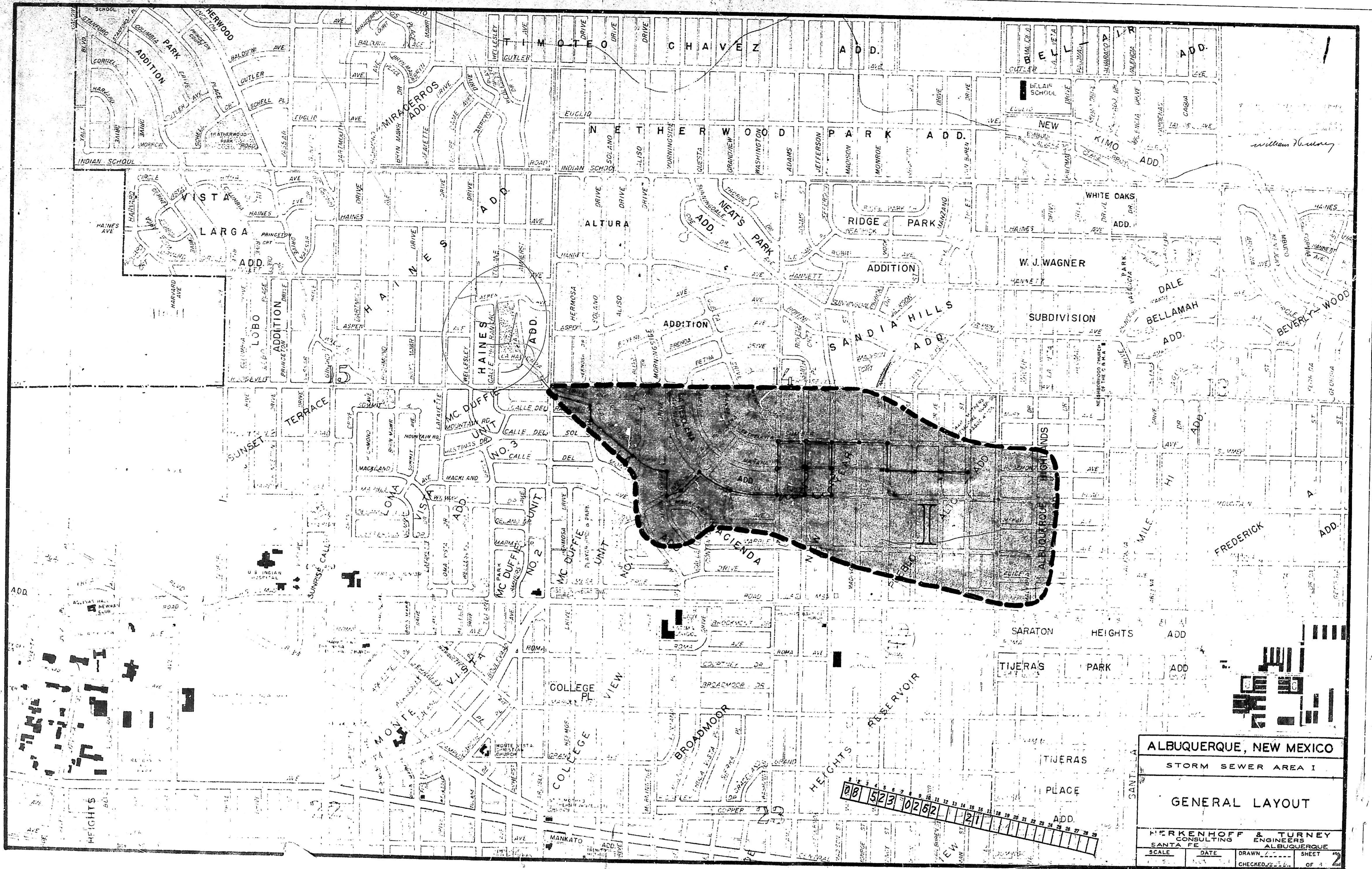
LA HACIENDA

14-75
14-02
Saver
X
min

HERKENHOFF & TURNEY
CONSULTING ENGINEERS
SANTA FE ALBUQUERQUE

SHEET 1 OF 8

PART OF LA HACIENDA



ALBUQUERQUE, NEW MEXICO

STORM SEWER AREA I

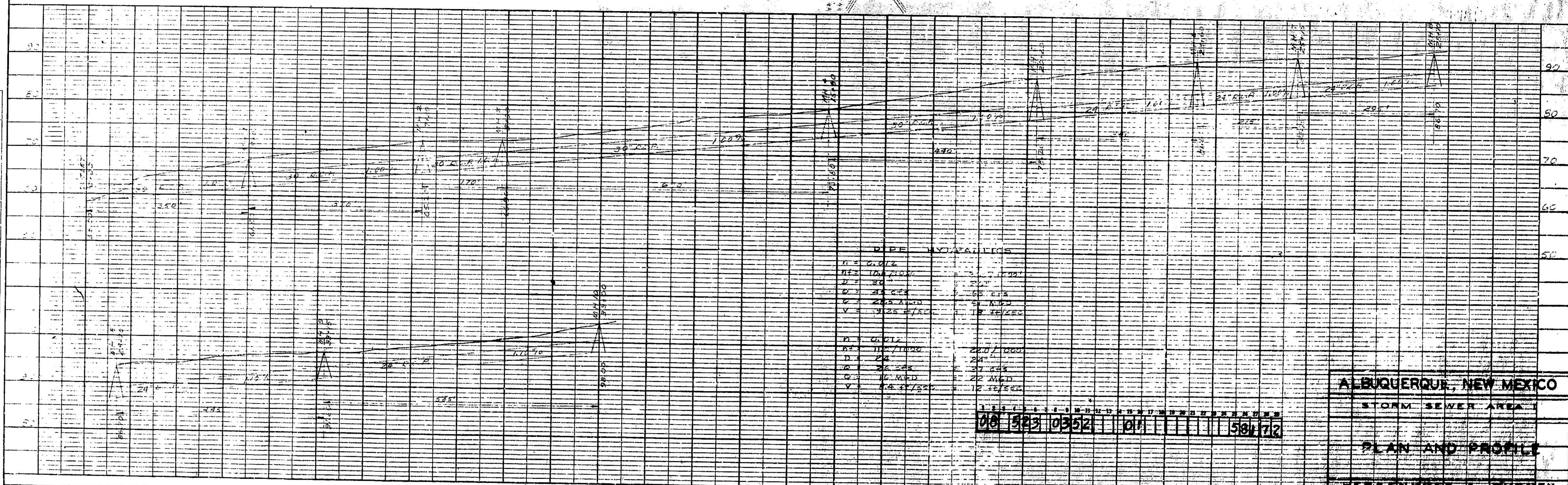
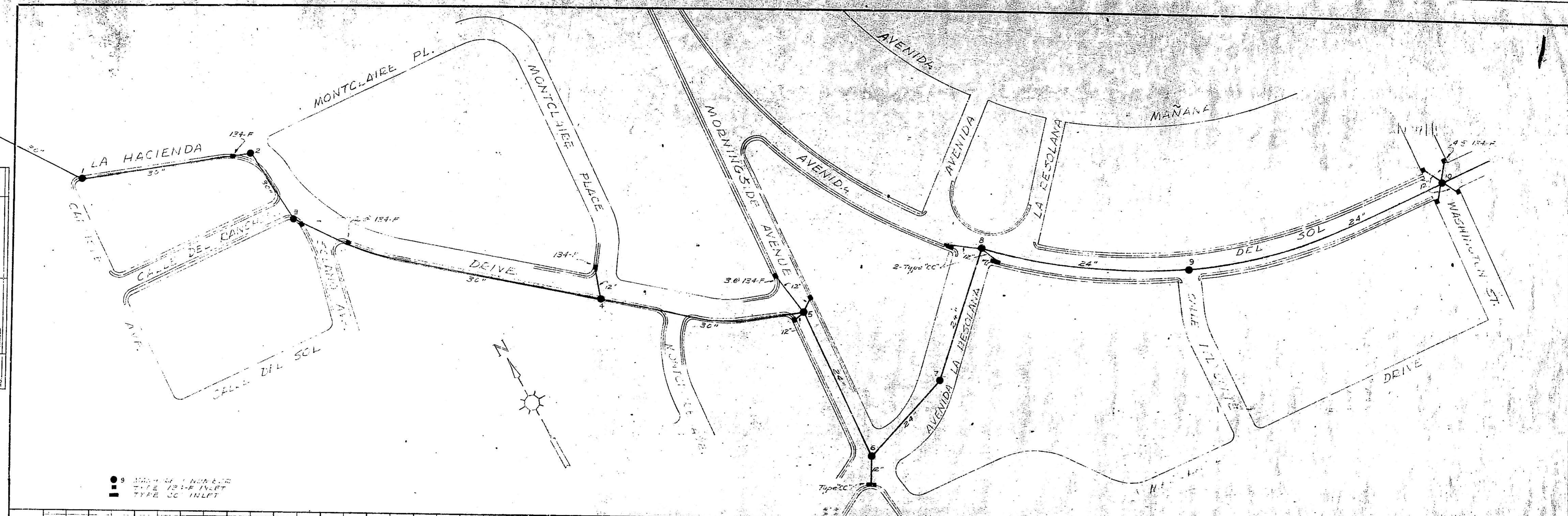
GENERAL LAYOUT

PERKENHOFF & TURNEY
CONSULTING ENGINEERS
SANTA FE, N.M.
ALBUQUERQUE

SCALE DATE DRAWN CHECKED SHEET
1" = 100' NOV 21 1952 21 OF 1

LA HACIENDA

	DATE	PV	FILED	NO.
PROFILE				
NOTEBOOK				
NO.				



ALBUQUERQUE, NEW MEXICO

STORM SEWER AREA

PLAN AND PROFIT

ERKENNUNG DER WIRTSCHAFTS- UND ARBEITSSITUATION

SANTA FE ALBUQUERQUE

SCALE H. F. = 100	DATE	DRAWN	SHEET
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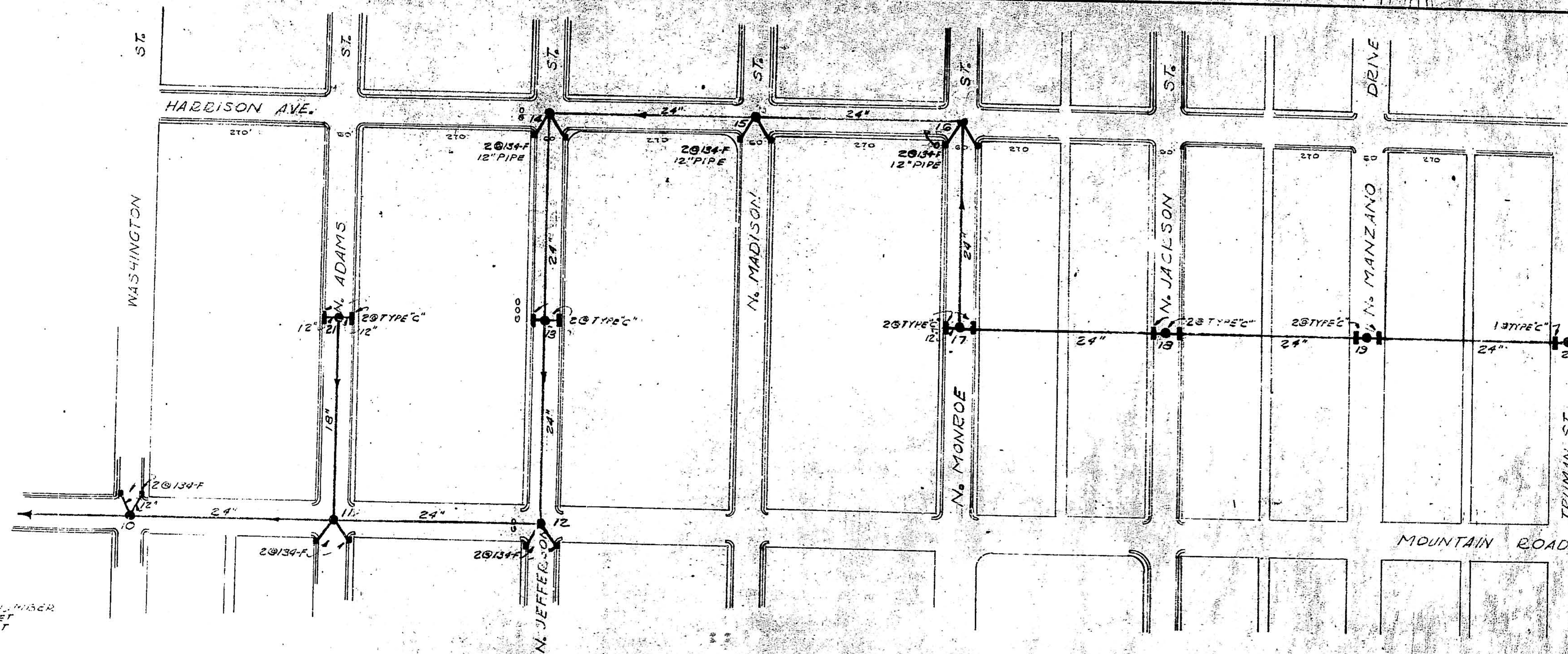
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LA HACIENDA

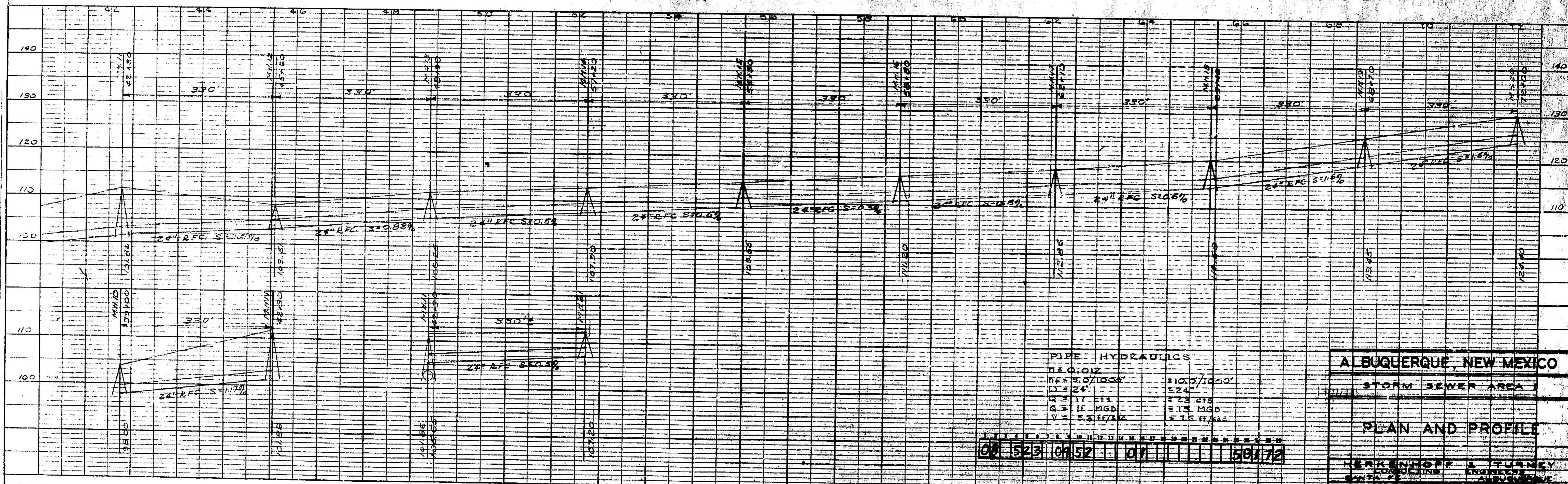
PLAN	DESIGNED	DATE
	CHECKED	BY
	NOTED	NO.
	TRACED	

AVENIDA DEL SOL

● 9 MANHOLE AND NUMBER
 ■ 194-F INLET
 TYPE "C" INLET



PROFILE	DESIGNED	DATE
	CHECKED	BY
	NOTED	NO.
	TRACED	



PIPE HYDRAULICS
 n = 0.012
 S = 0.012
 D = 24"
 Q = 17.215
 V = 11.15
 V = 5.35/1.2

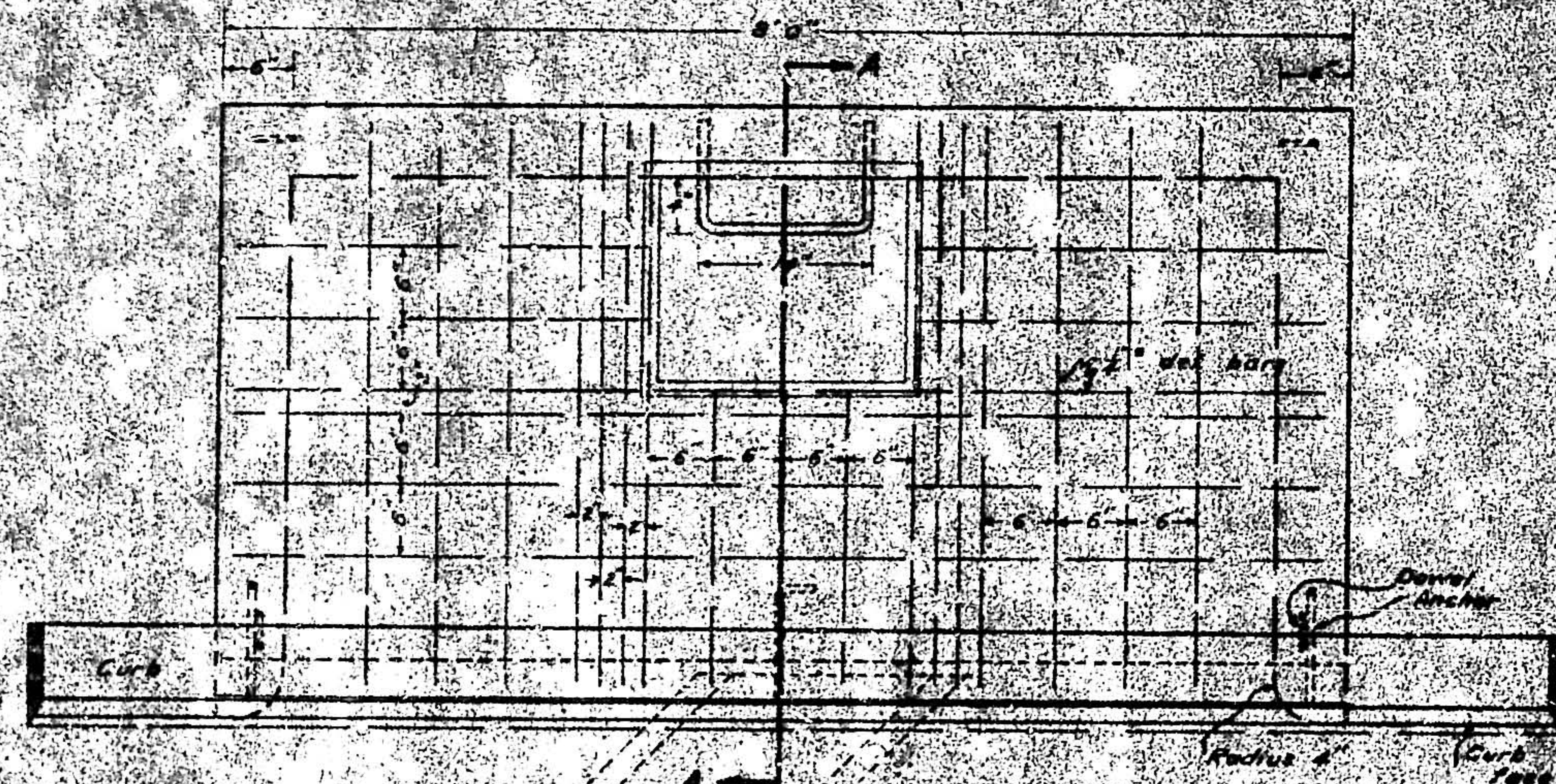
ALBUQUERQUE, NEW MEXICO

STORM SEWER AREA

PLAN AND PROFILE

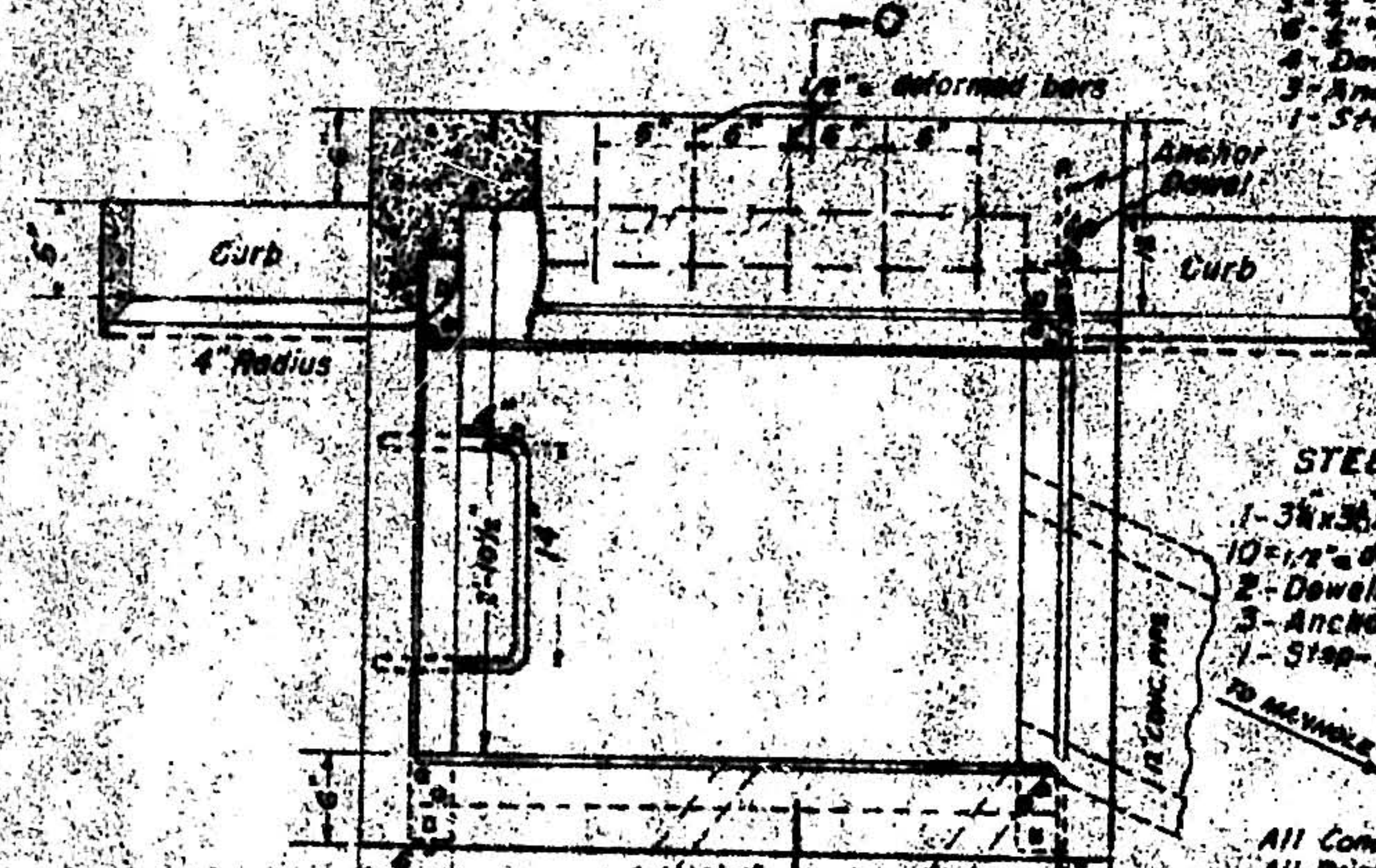
HERKENHOFF & TURNER
 ENGINEERS
 1000 10TH AVENUE
 ALBUQUERQUE, N.M.
 NOV. 1951
 CHECKED BY

LA HACIENDA



PLAN
STANDARD CATCH BASIN - TYPE B
Scale 1"=1'-0"

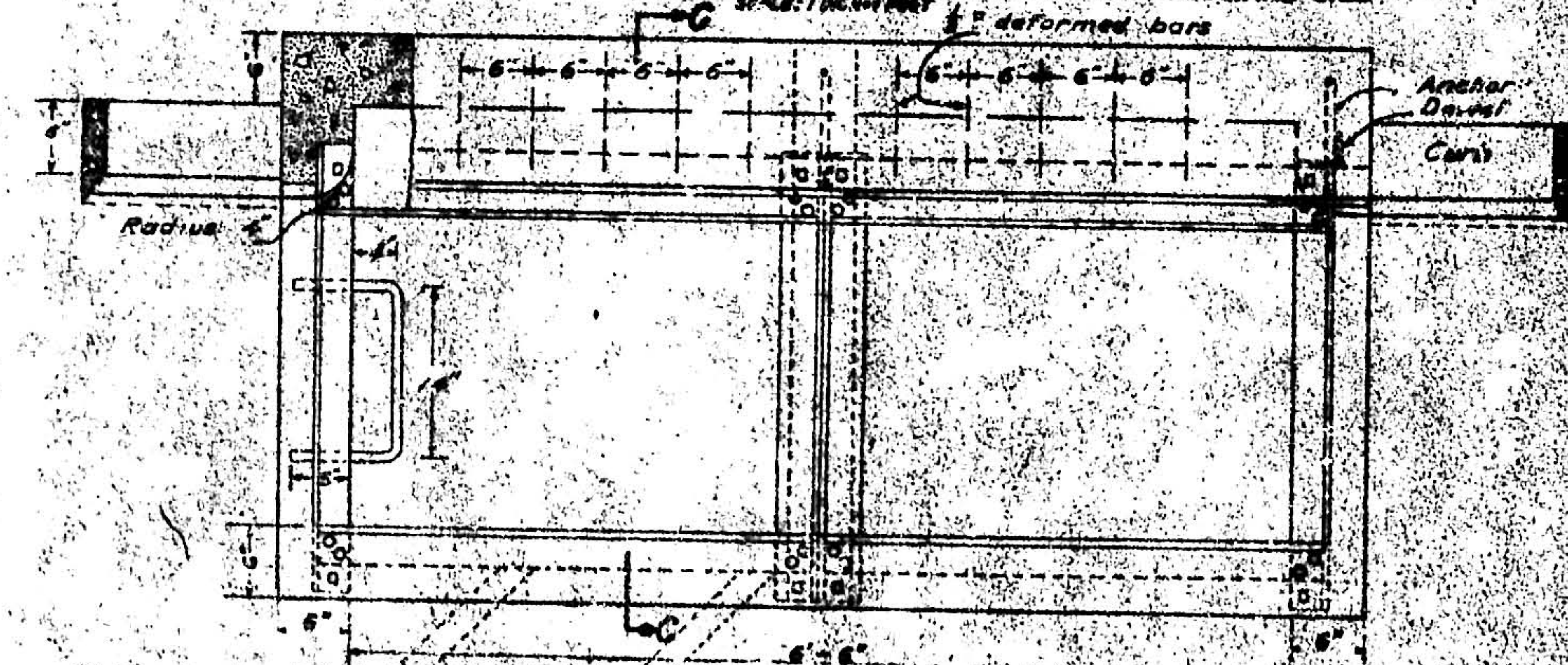
- STEEL LIST
- 1-3x3x1/4 L
 - 1-3x3x1/4 def. bars 11' long
 - 2-3x3x1/4
 - 4-Dowels - see detail
 - 3-Anchors
 - 1-Step 3/4 round - see plan



PLAN
SINGLE GRATE INLET & CATCH BASIN - TYPE C - ONE-HALF STANDARD SIZE
Scale 1"=1'-0"

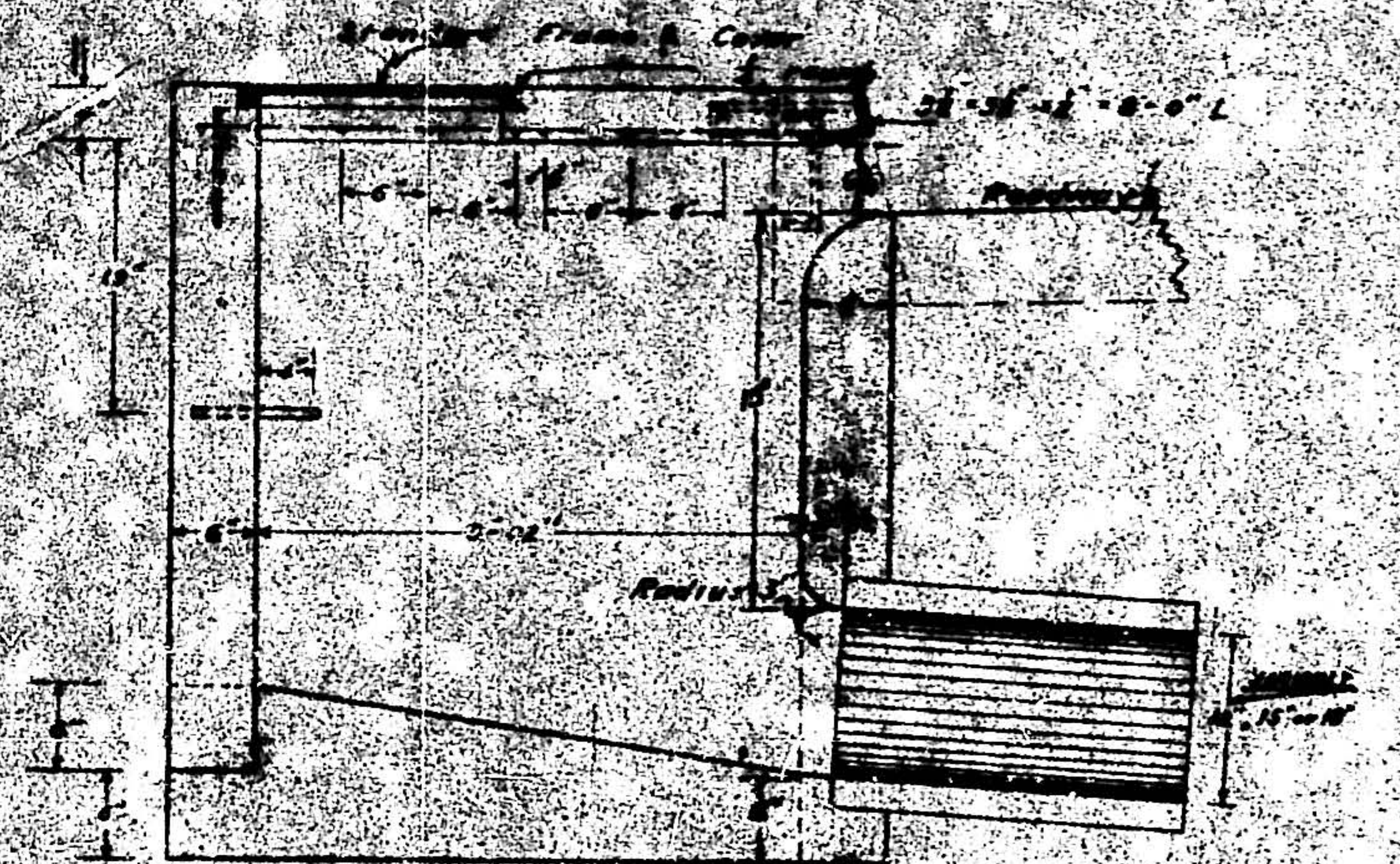
- STEEL LIST
- 1-3x3x1/4 L
 - 10-3/4x1/4 def. bars 11' long
 - 2-Dowels - see detail
 - 3-Anchors
 - 1-Step 3/4 round - see detail

All Conc. Cures 3000#
All Reinf. Steel 60,000#

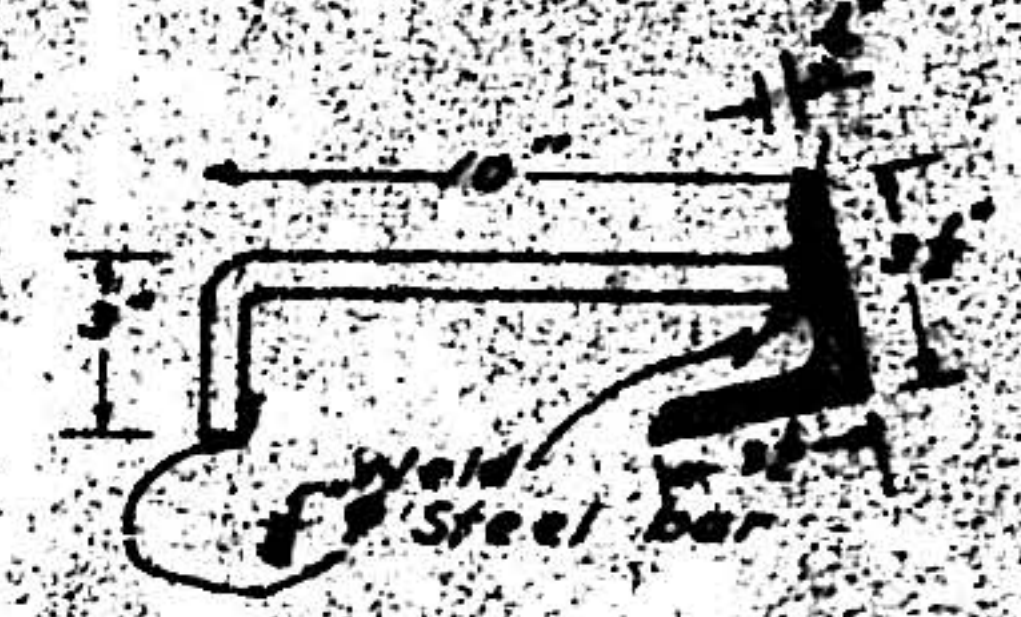


PLAN
DOUBLE GRATE STANDARD CATCH BASIN - TYPE BC
Scale 1"=1'-0"

- STEEL LIST
- 1-3x3x1/4 L
 - 10-3/4x1/4 def. bars 11' long
 - 2-Dowels - see detail
 - 3-Anchors
 - 1-Step 3/4 round - see plan



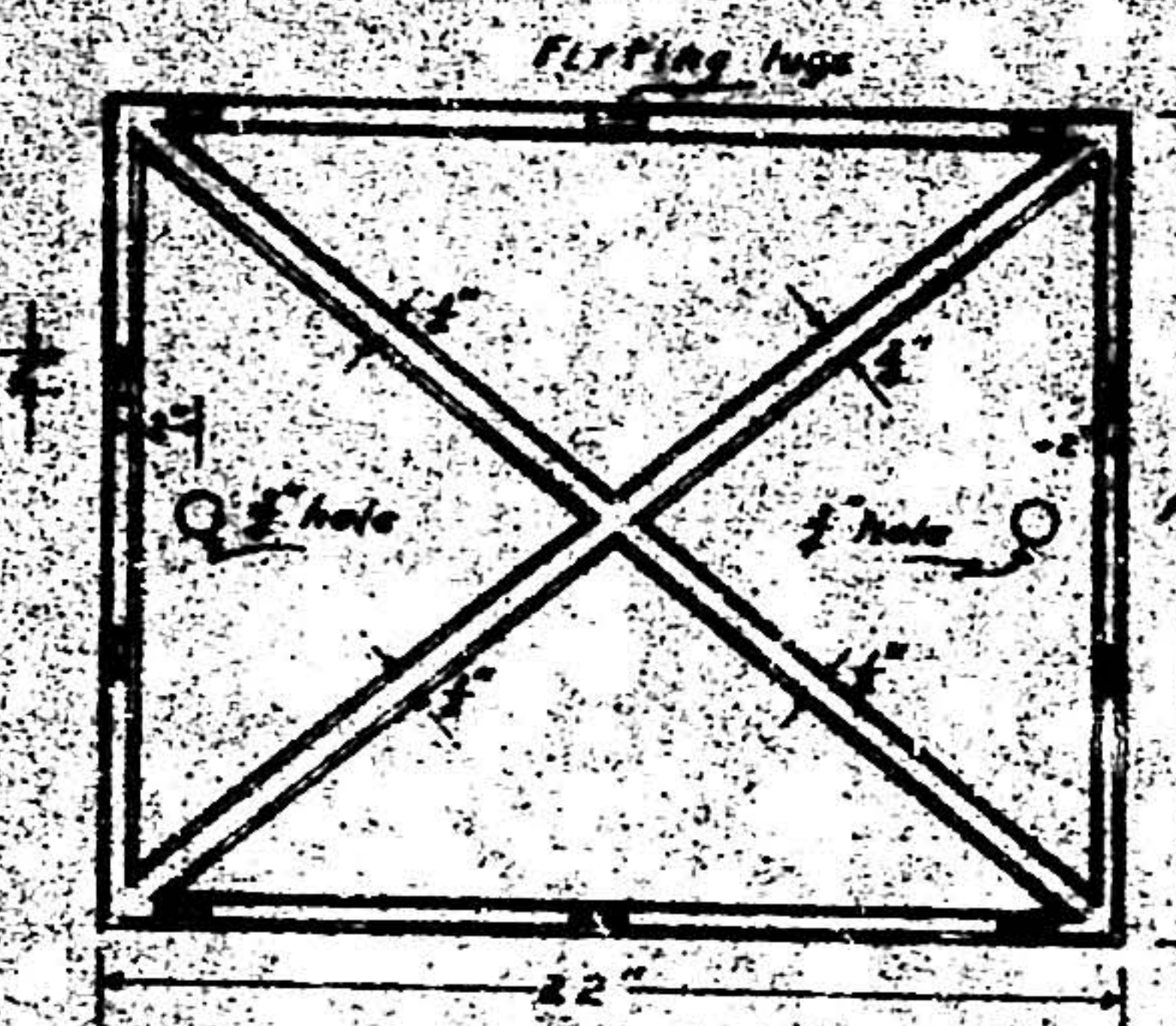
SECTION A-A



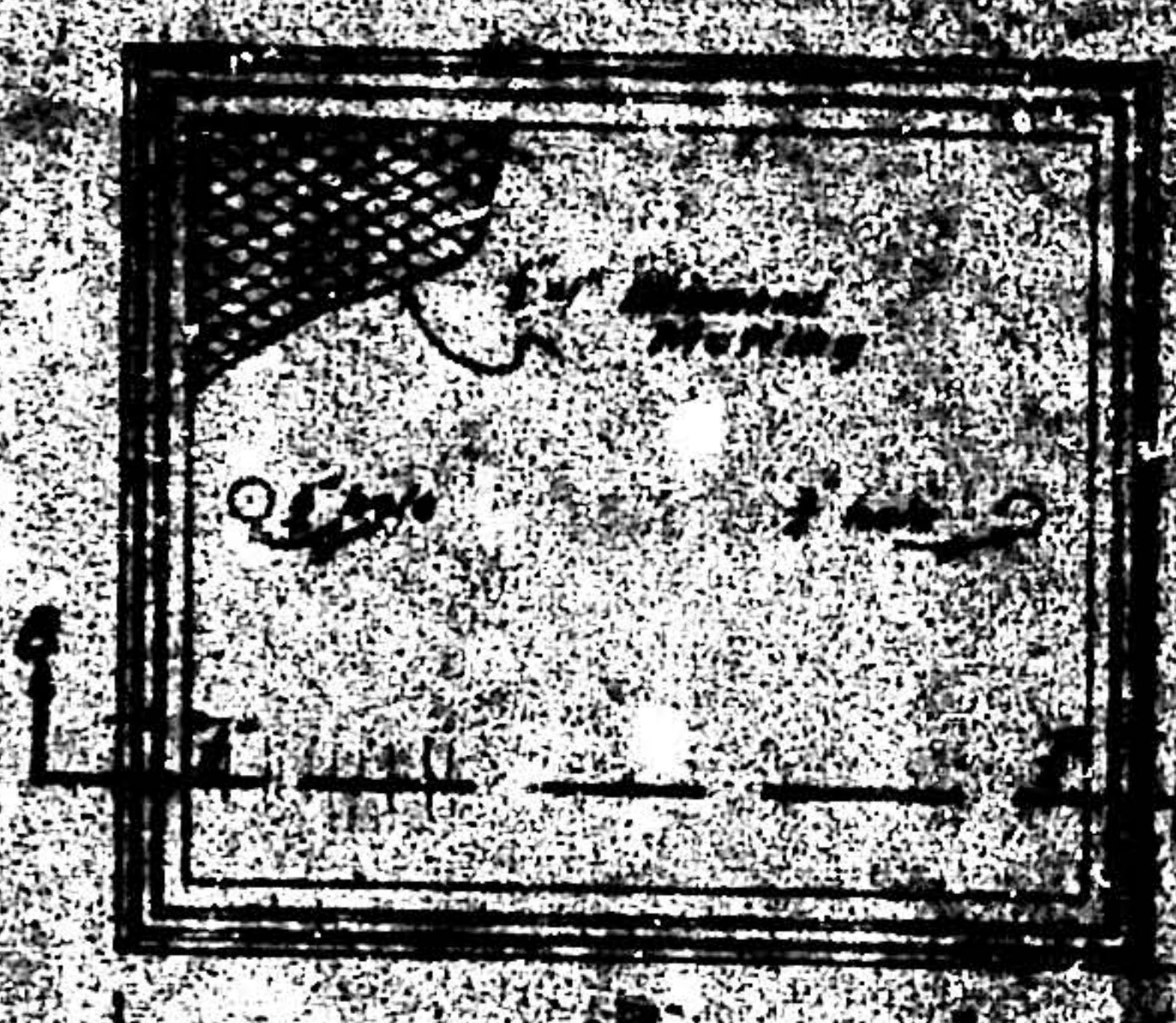
DETAIL OF ANCHOR



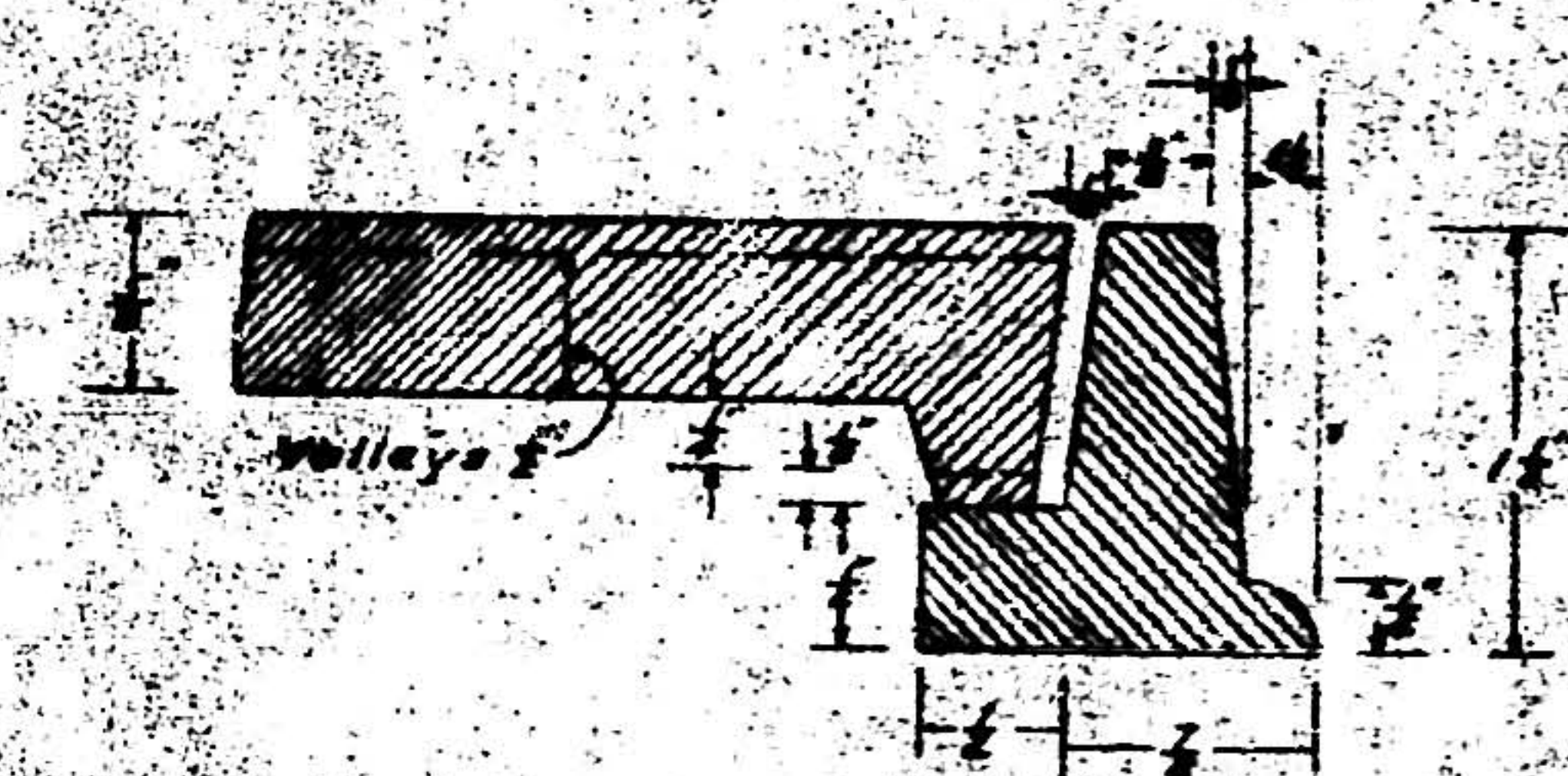
DETAIL OF DOWEL
To be used when top is poured separate



BOTTOM PLAN OF COVER
Scale 1"=1'-0"



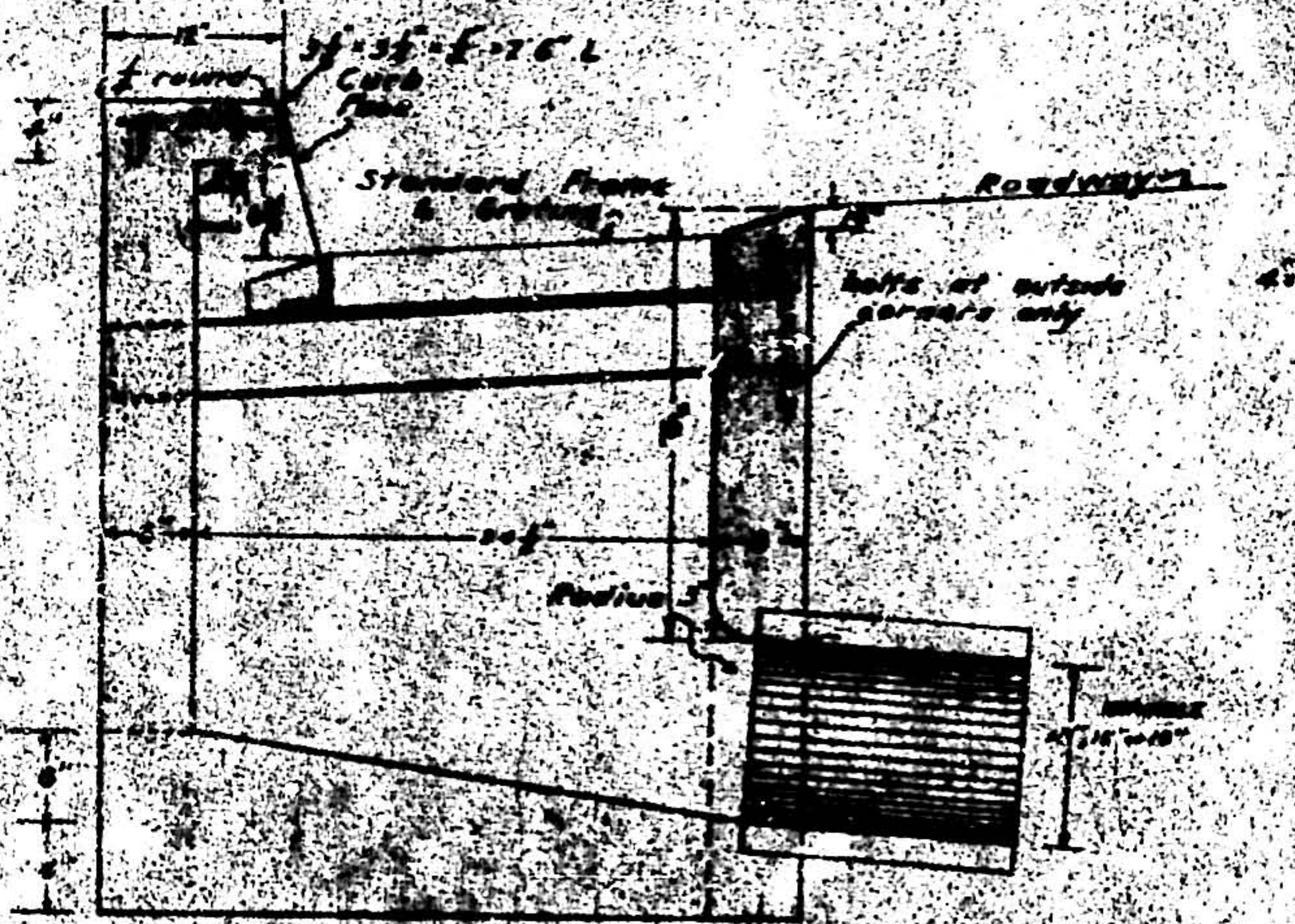
PLAN OF FRAME AND COVER



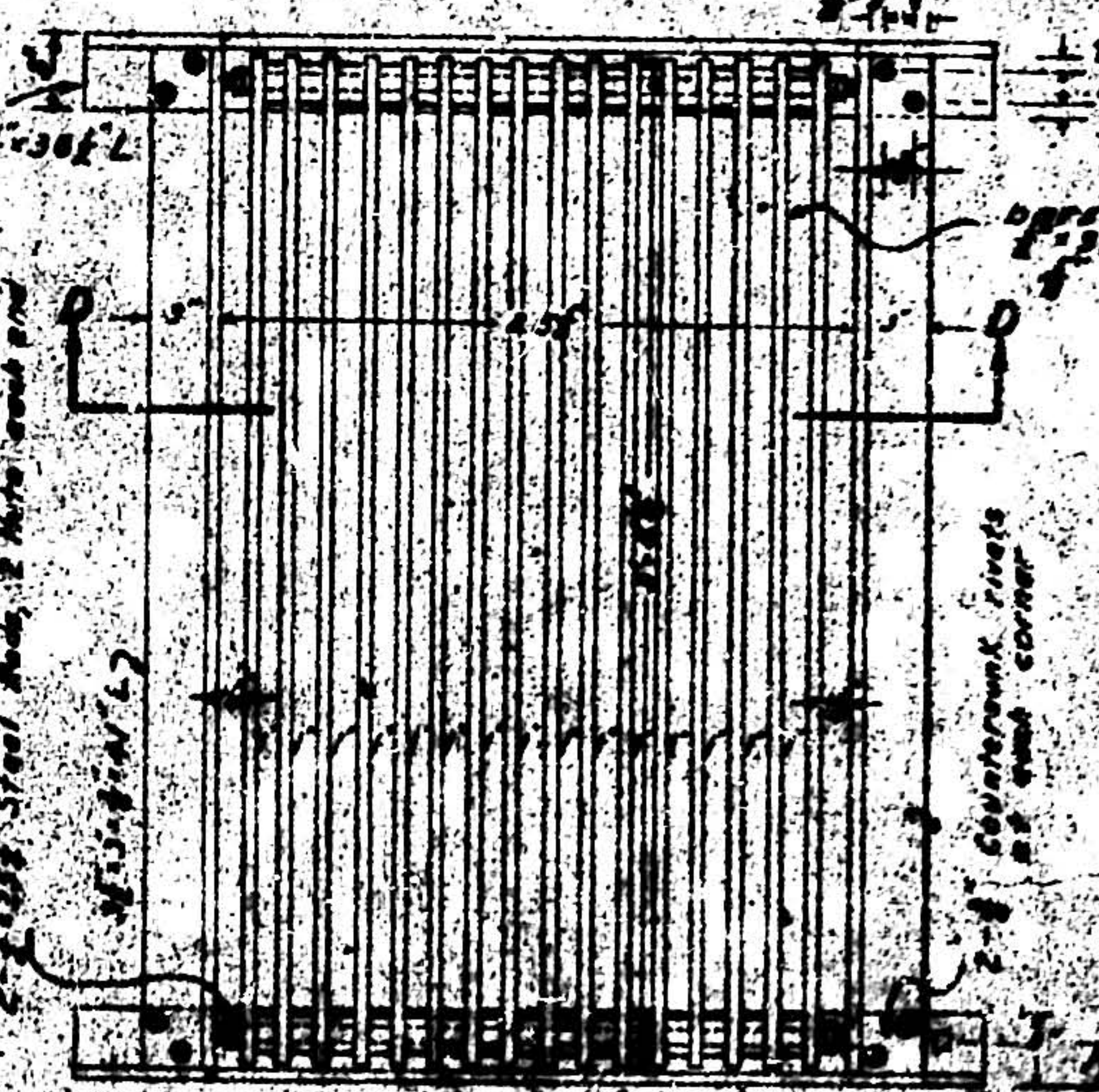
FRAME AND COVER CONNECTION
Scale 1"=1'-0"



SECTION D-D



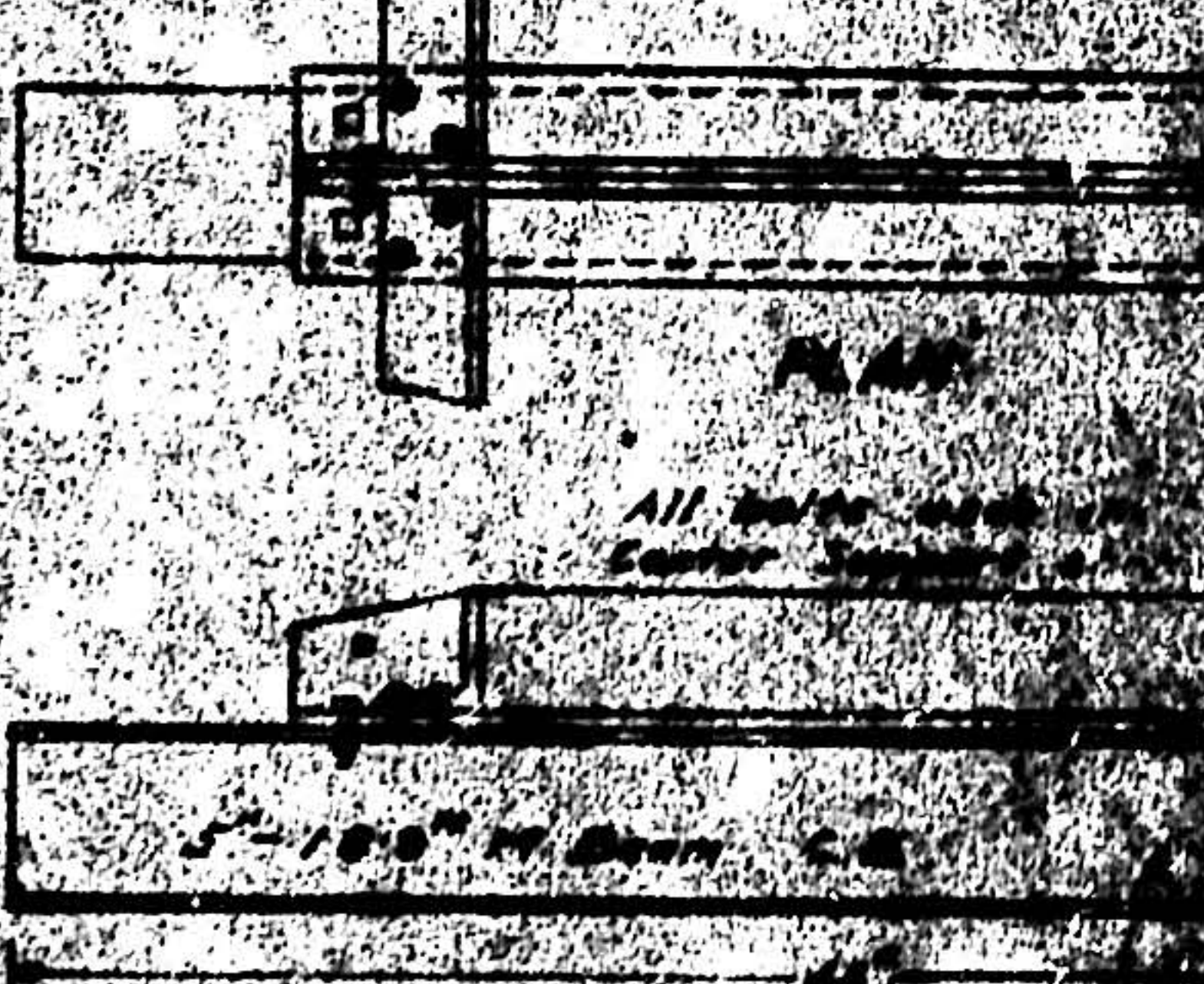
SECTION C-C



PLAN
STANDARD FRAME AND GRATING
Scale 1"=1'-0"



SPACER



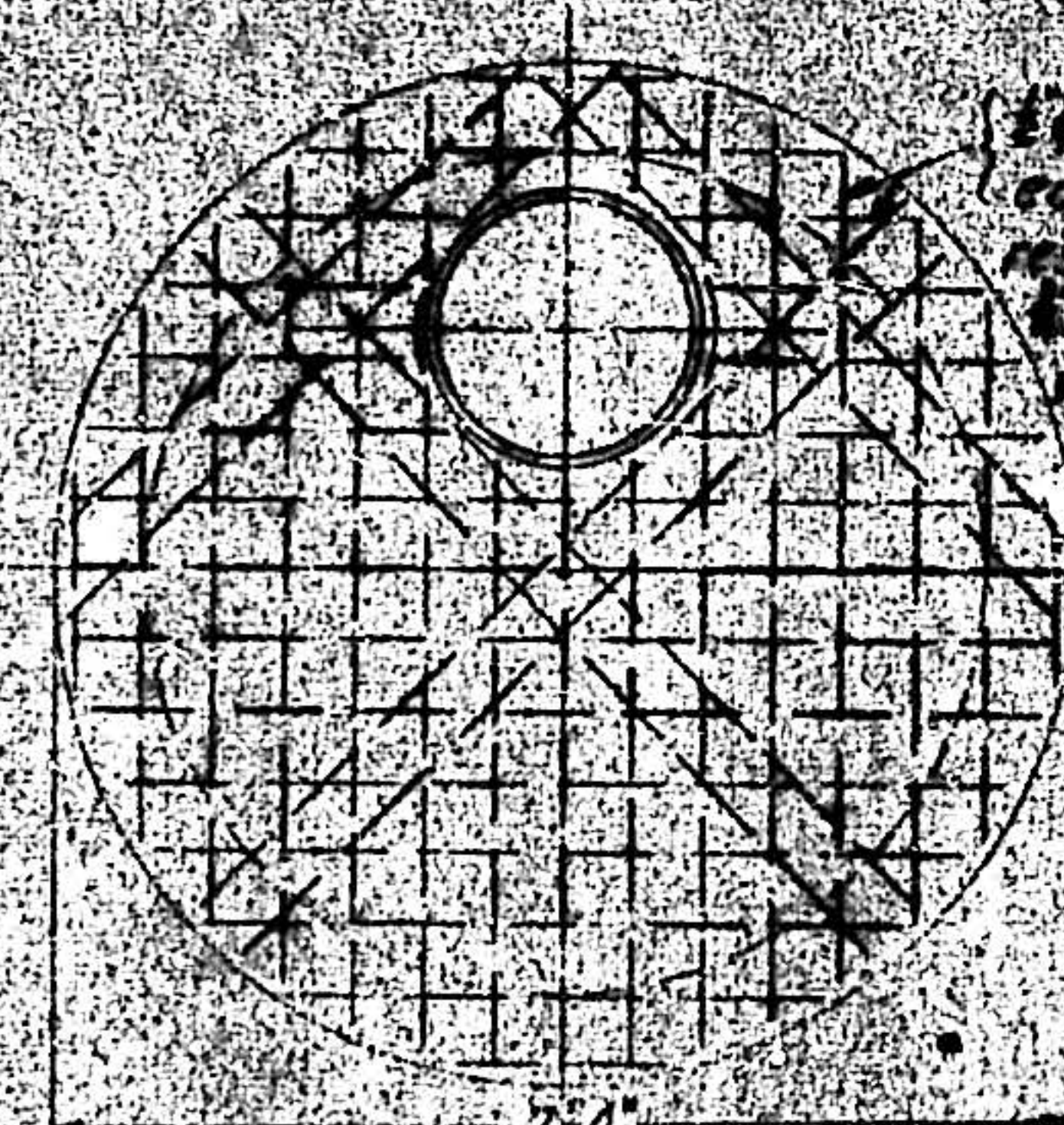
ELEVATION

CENTER SUPPORT JOINT

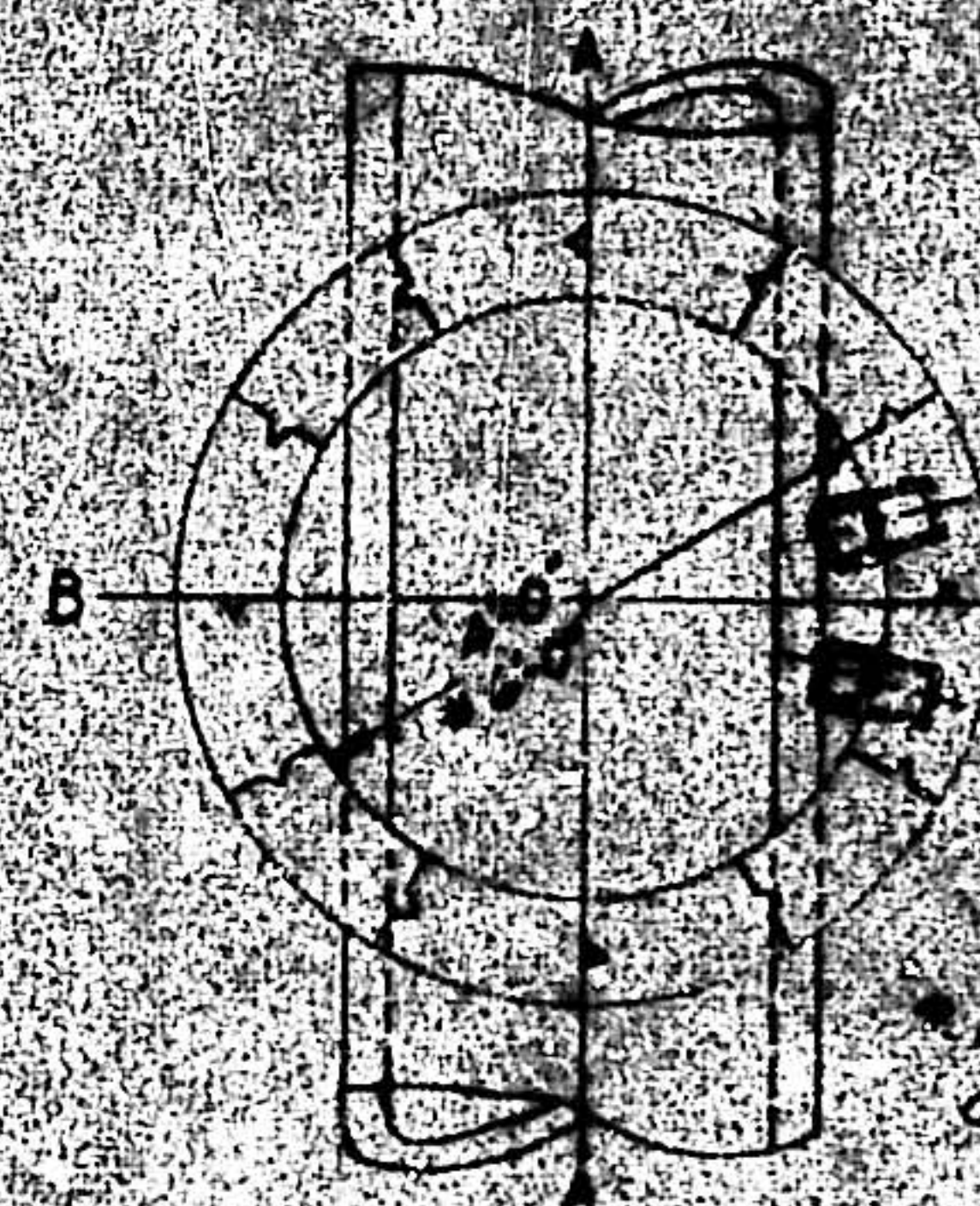
08 523 0552

CITY OF ALBUQUERQUE

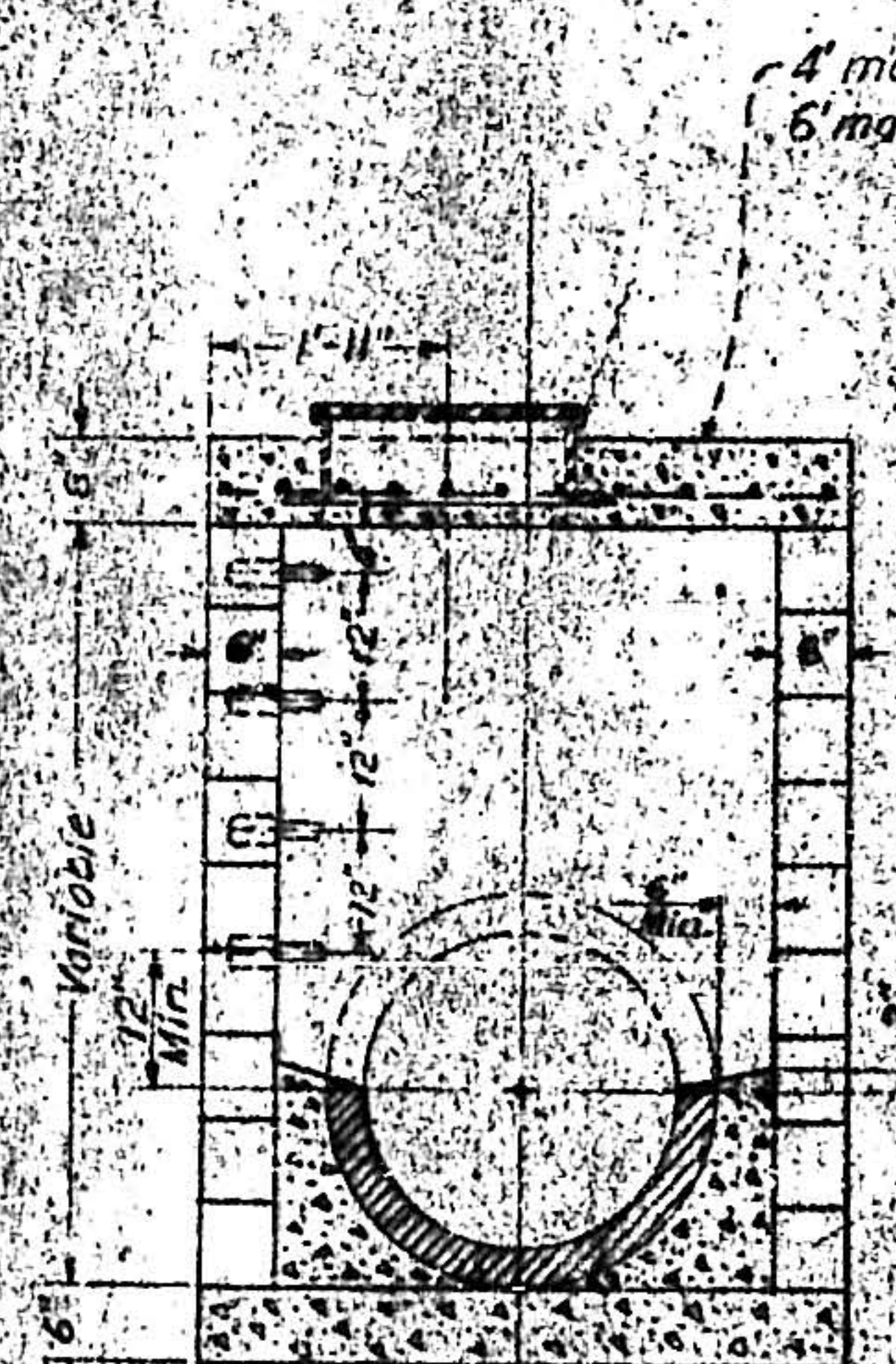
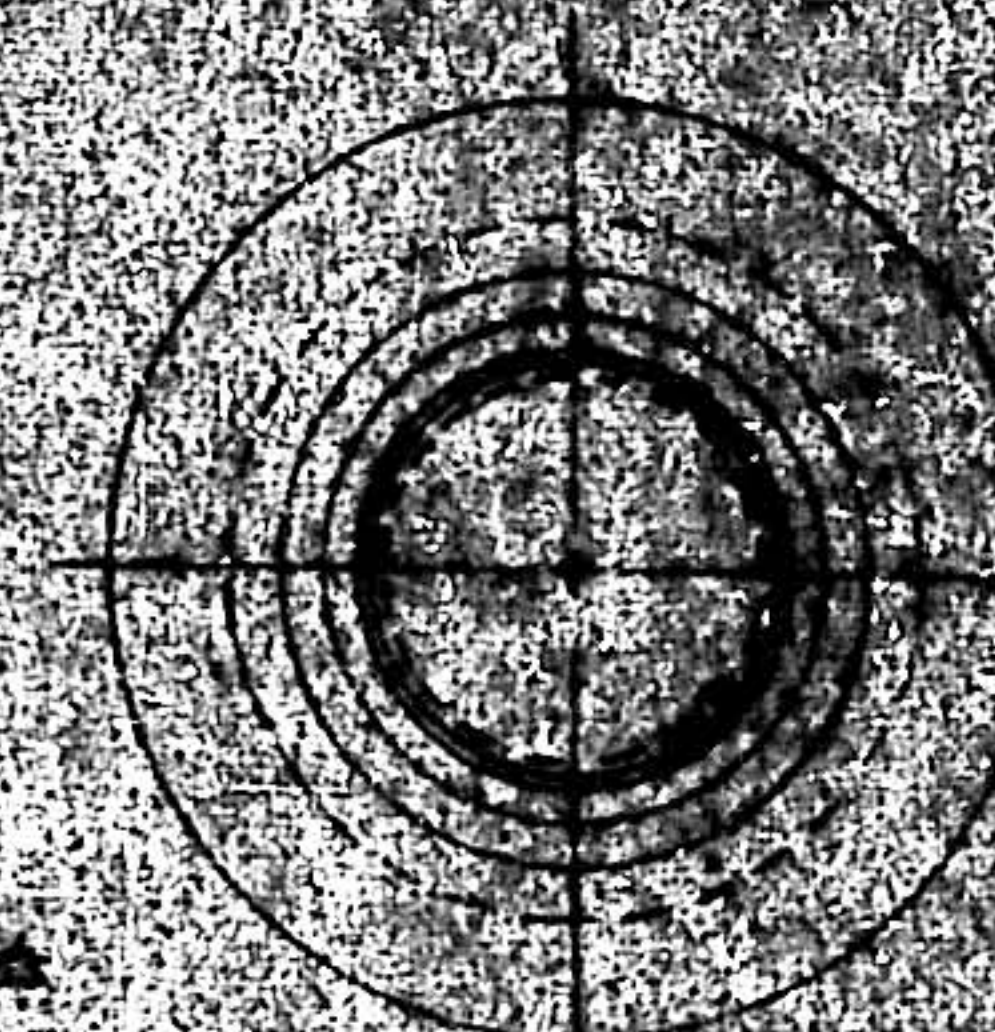
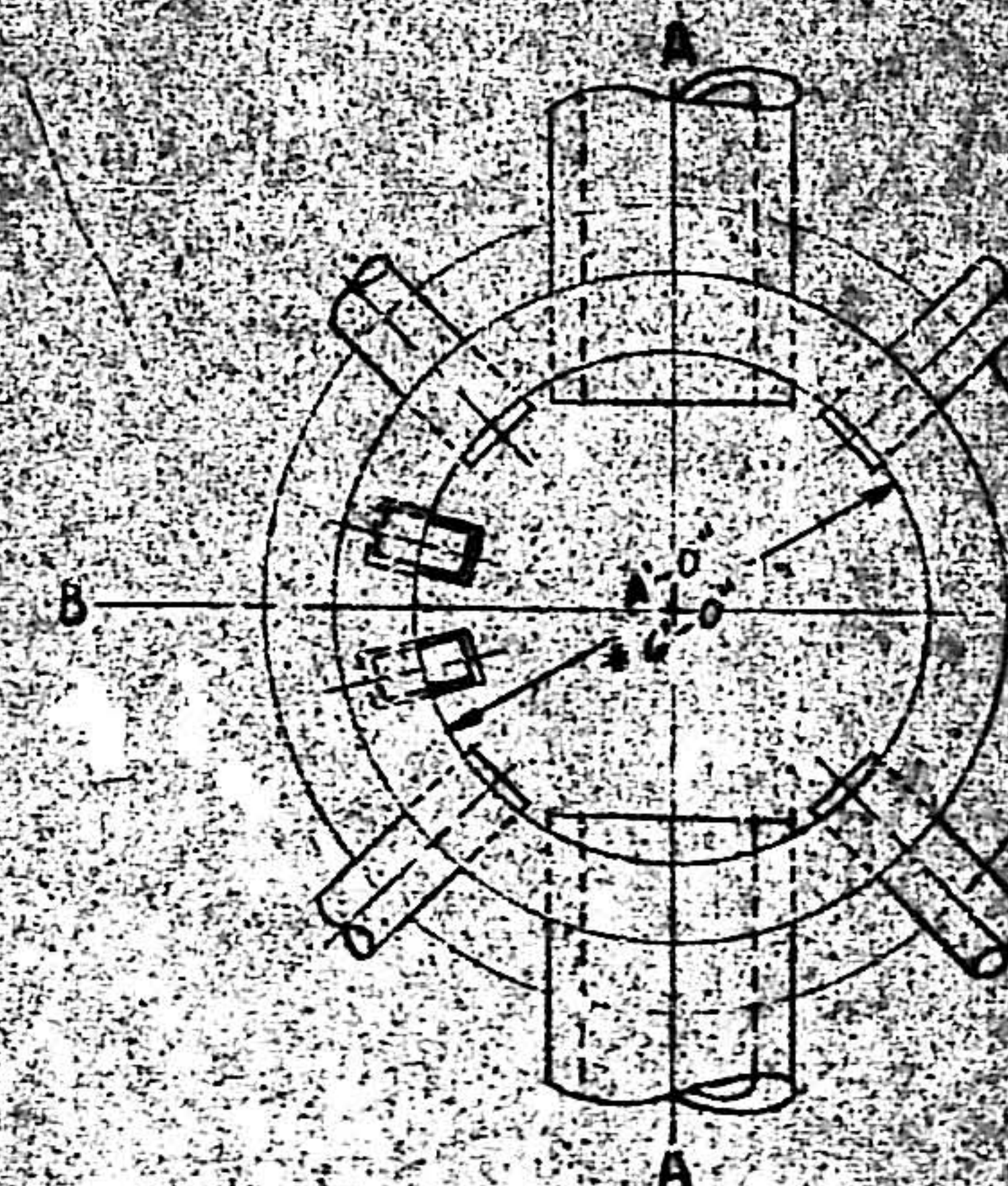
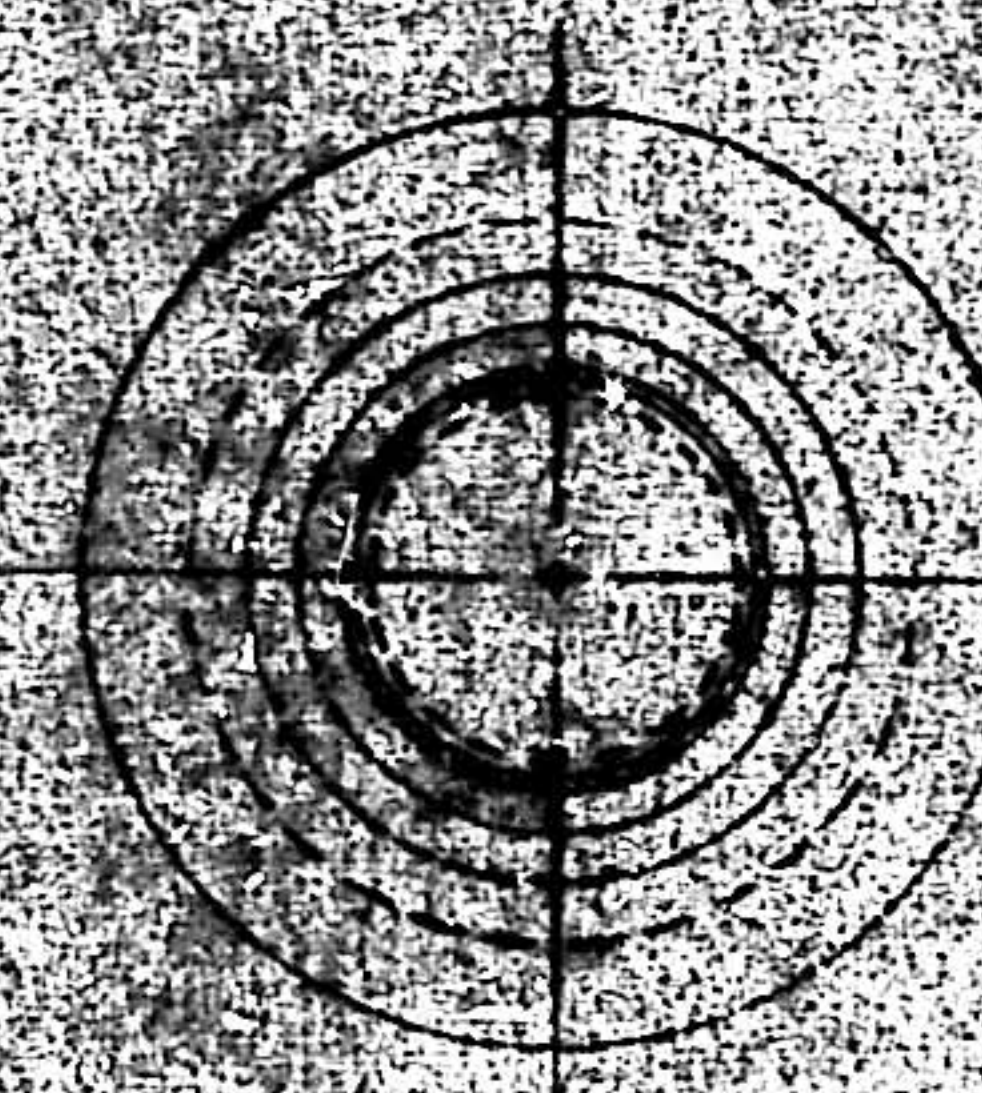
STANDARD CATCH BASIN, TYPE BC, AND APPURTENANCES		
DESIGNED BY	ENGINEER	DATE
CHECKED BY	ENGINEER	DATE
APPROVED BY	ENGINEER	DATE
REVISIONS	REVISIONS	REVISIONS



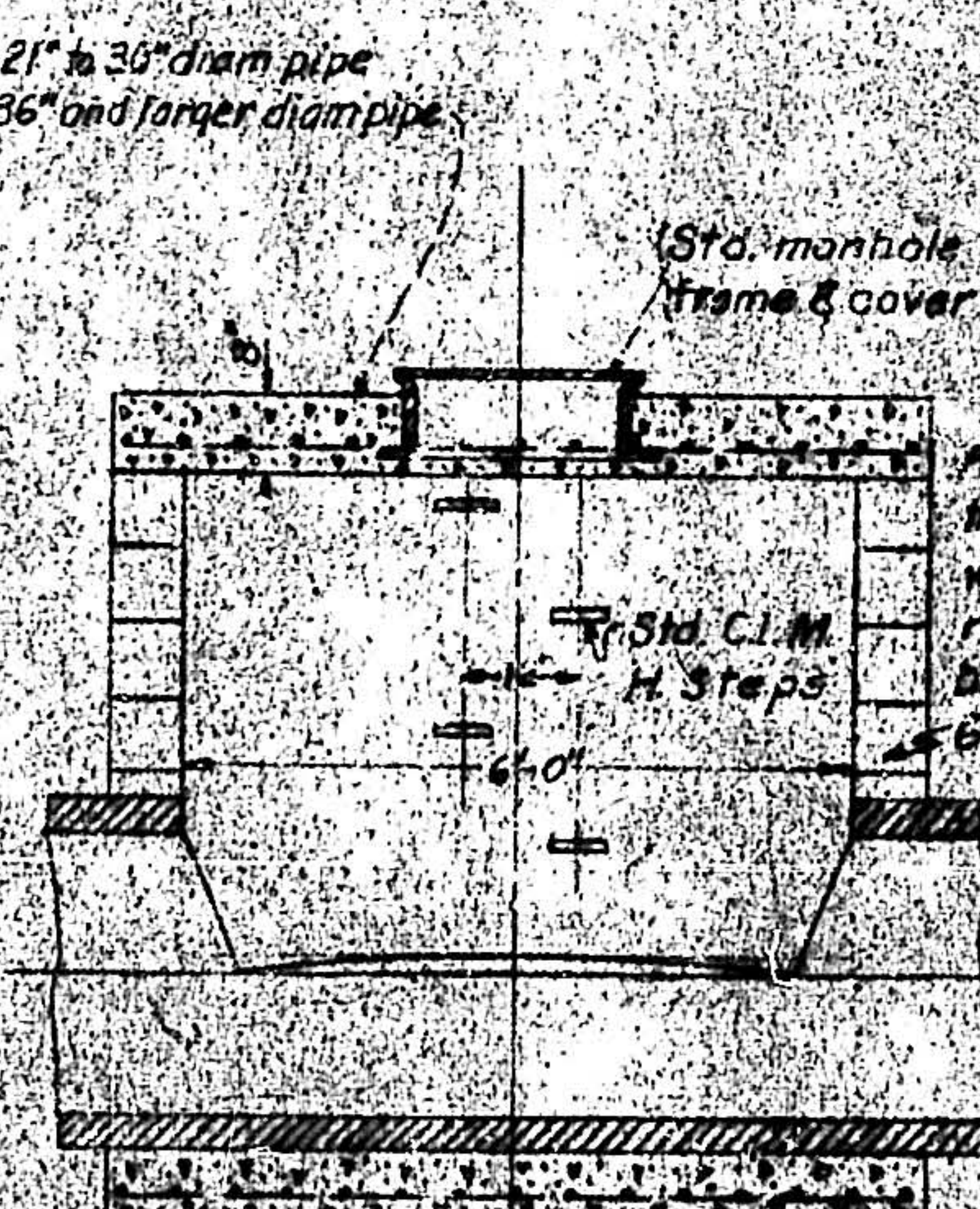
PRECAST CONC COVER



SECTION PLAN



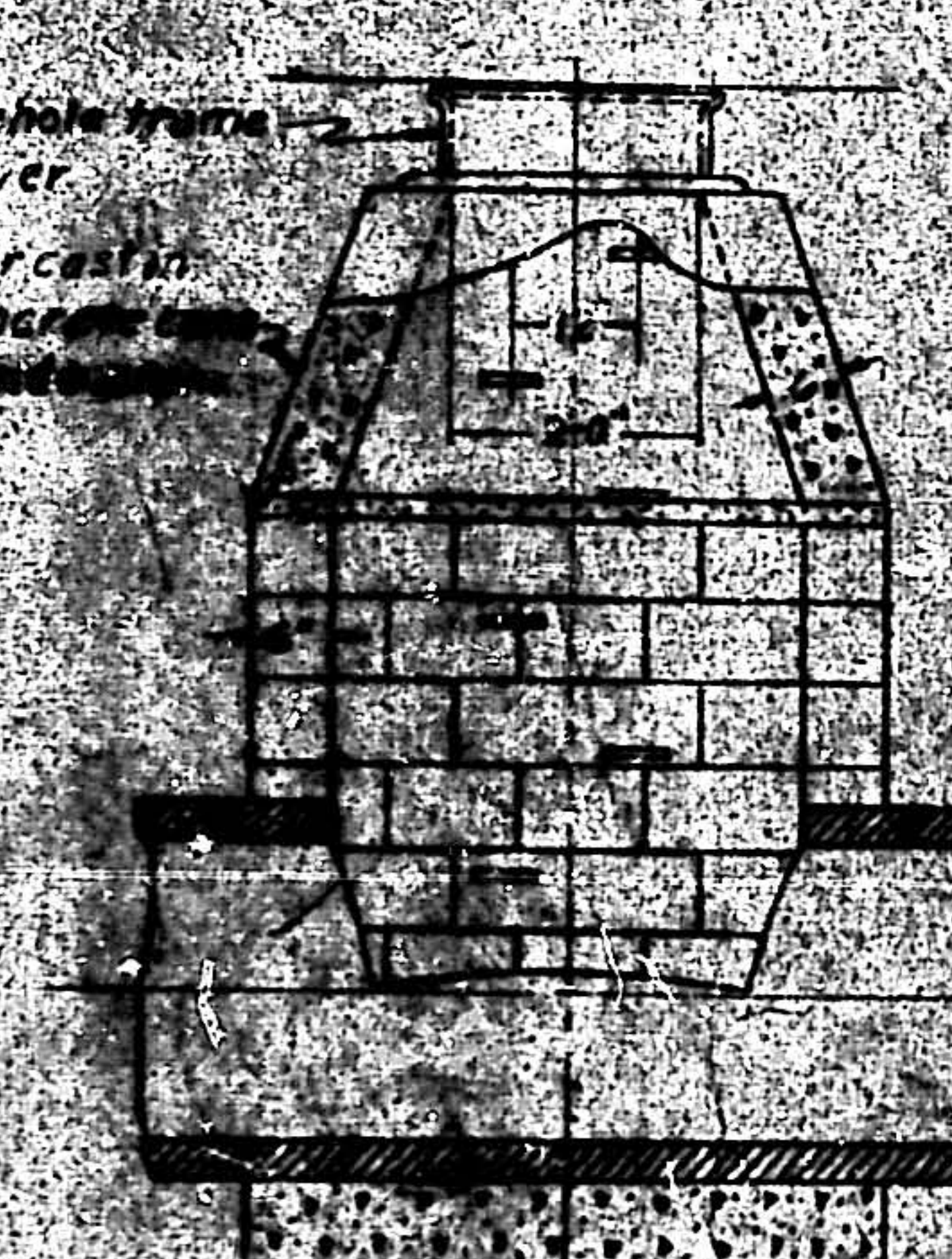
SECT. 4 FOOT M.H.



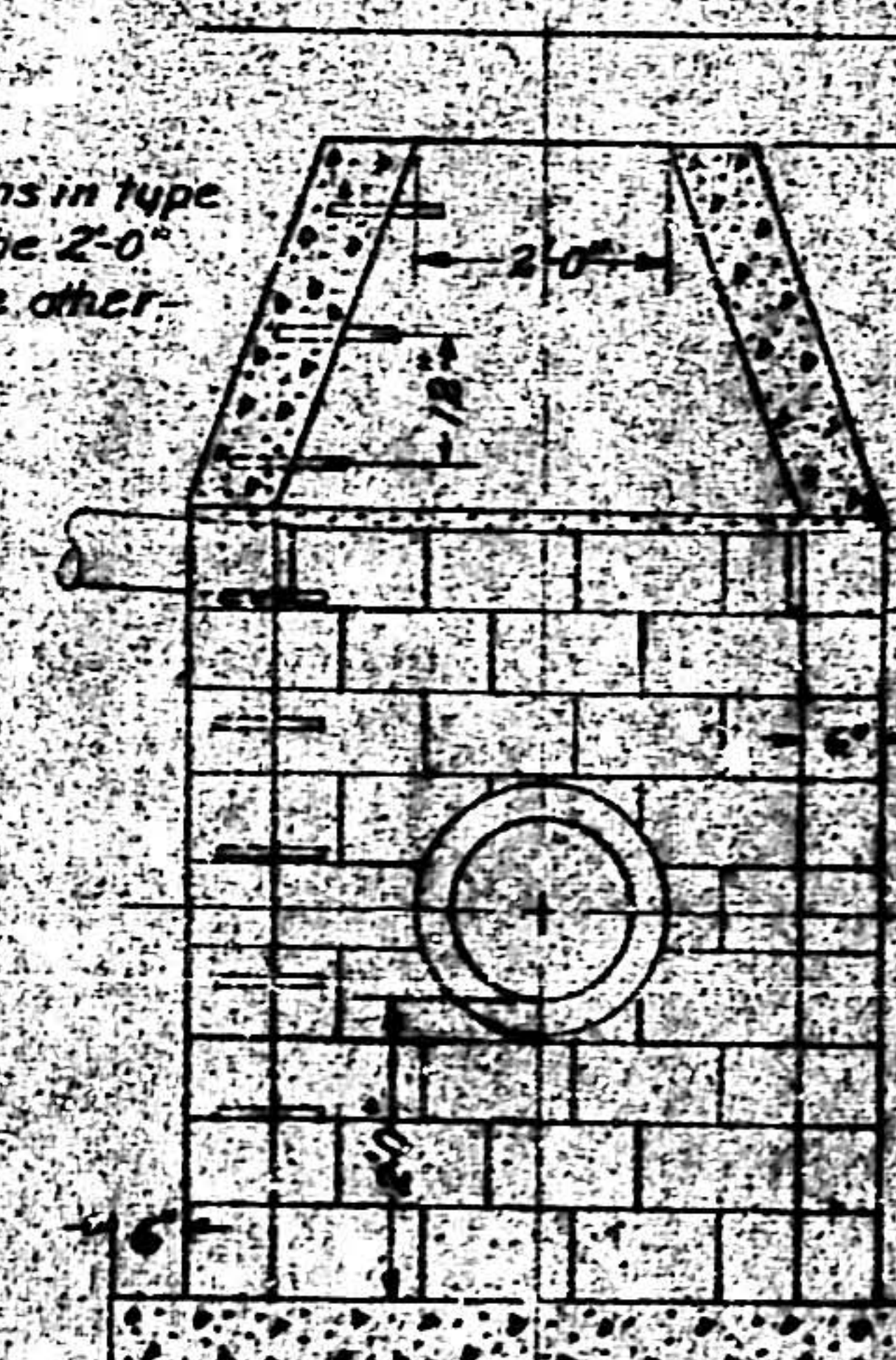
SECT 6 FOOT MH



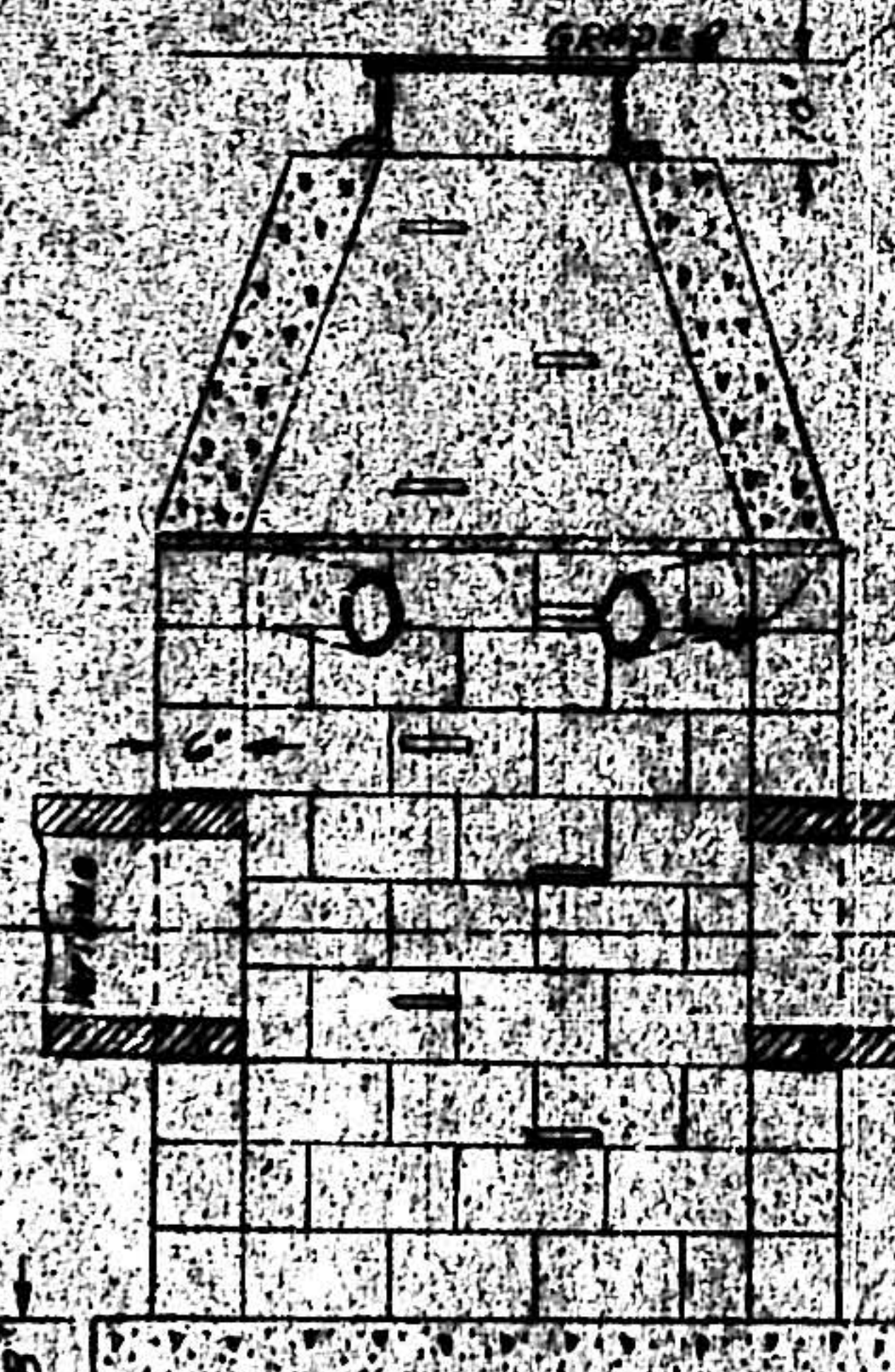
SECTION B-B



SECTION A-A

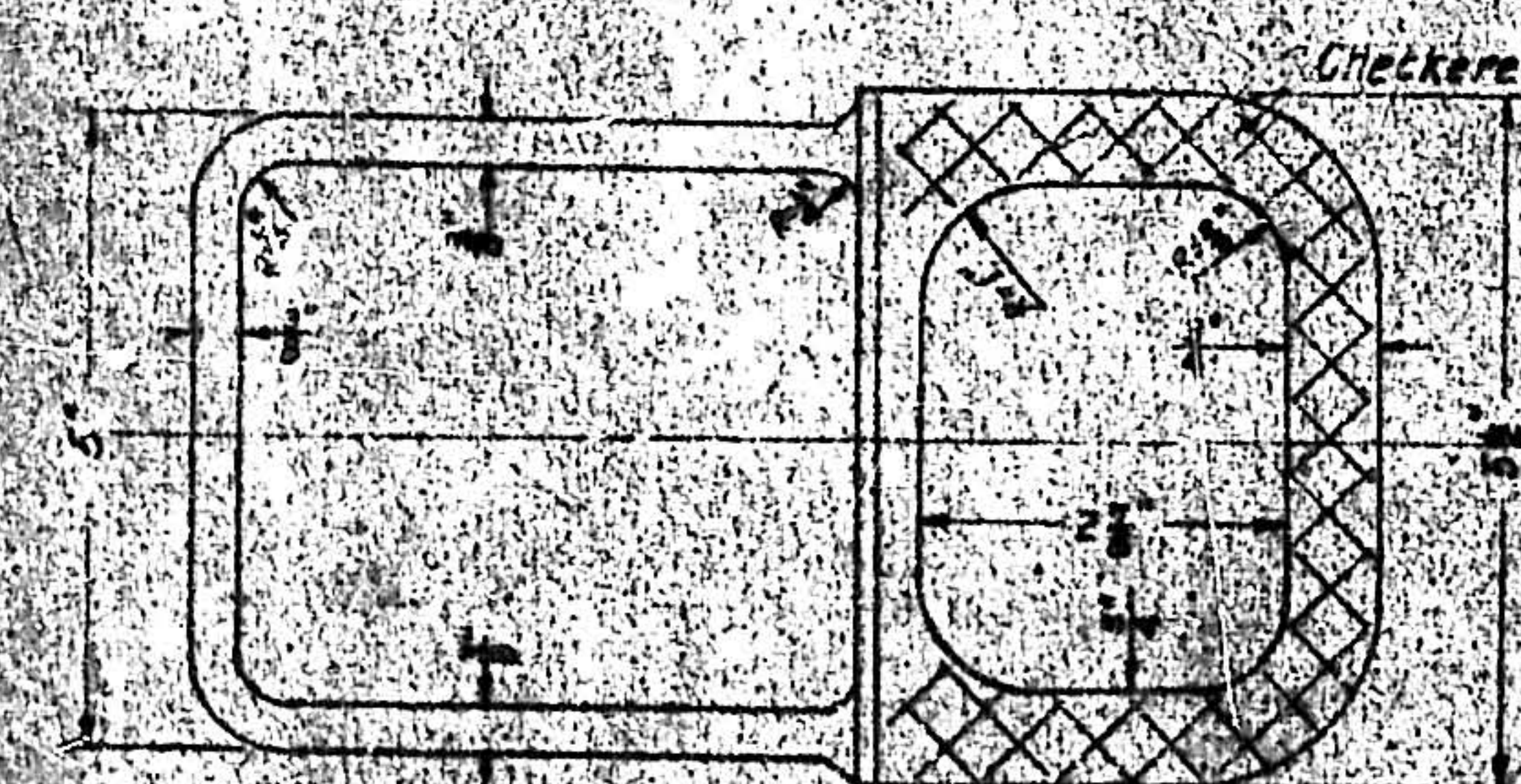


SECTION B-B

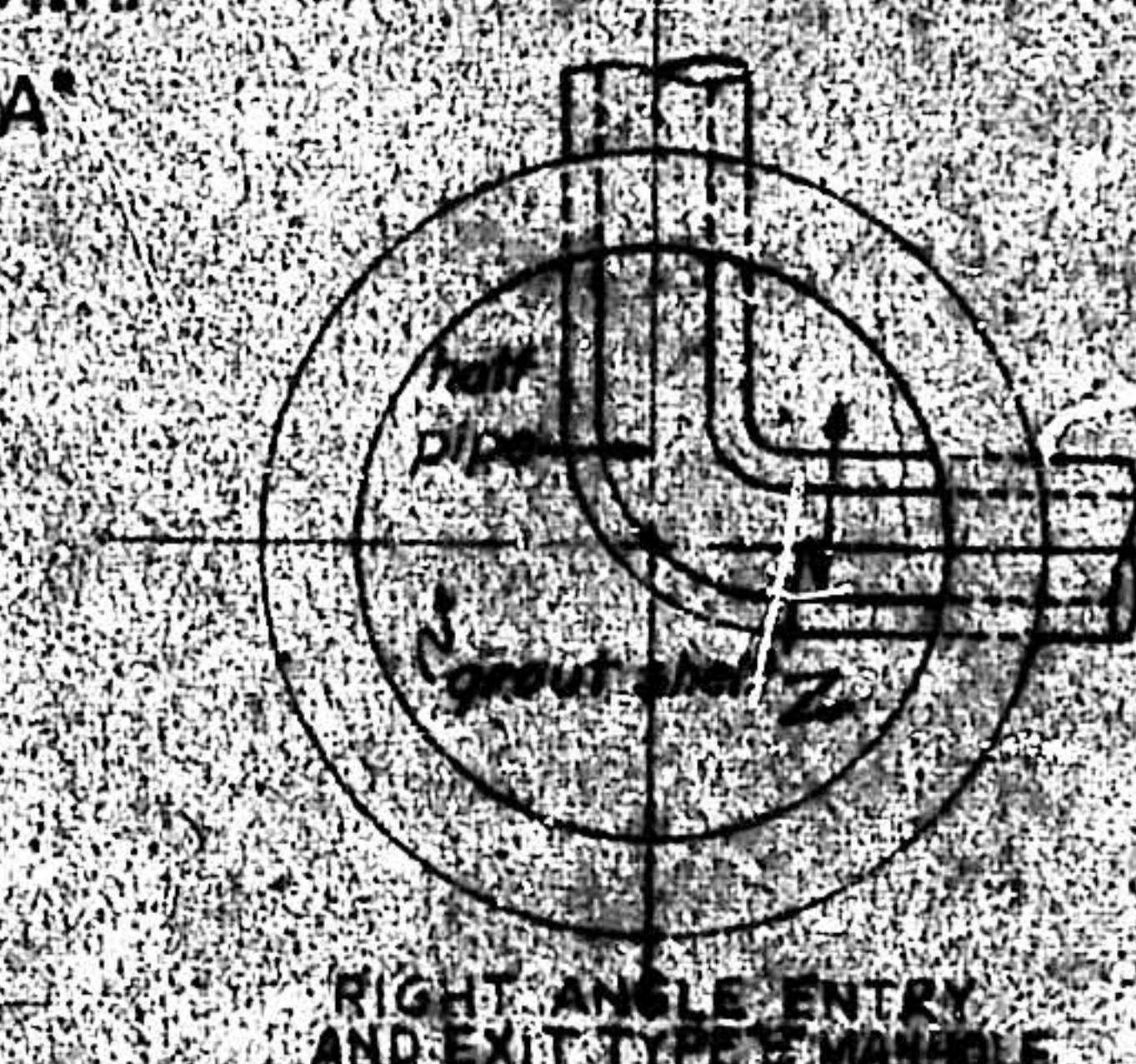


SECTION A-A

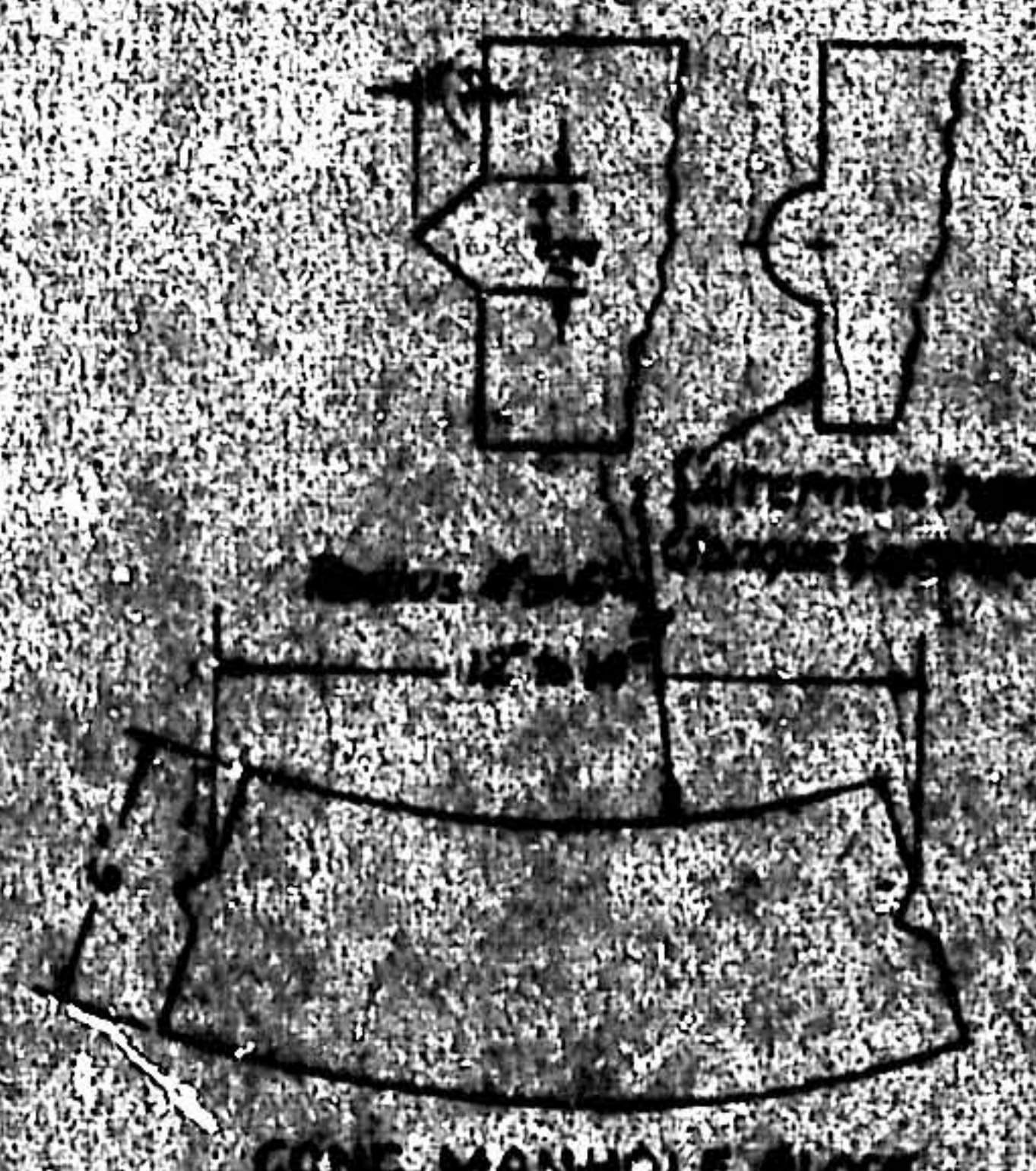
NOTE:
All catch basins in type
"C" manholes to be 2'-0"
in depth unless other-
wise noted



STANDARD MANHOLE STEP



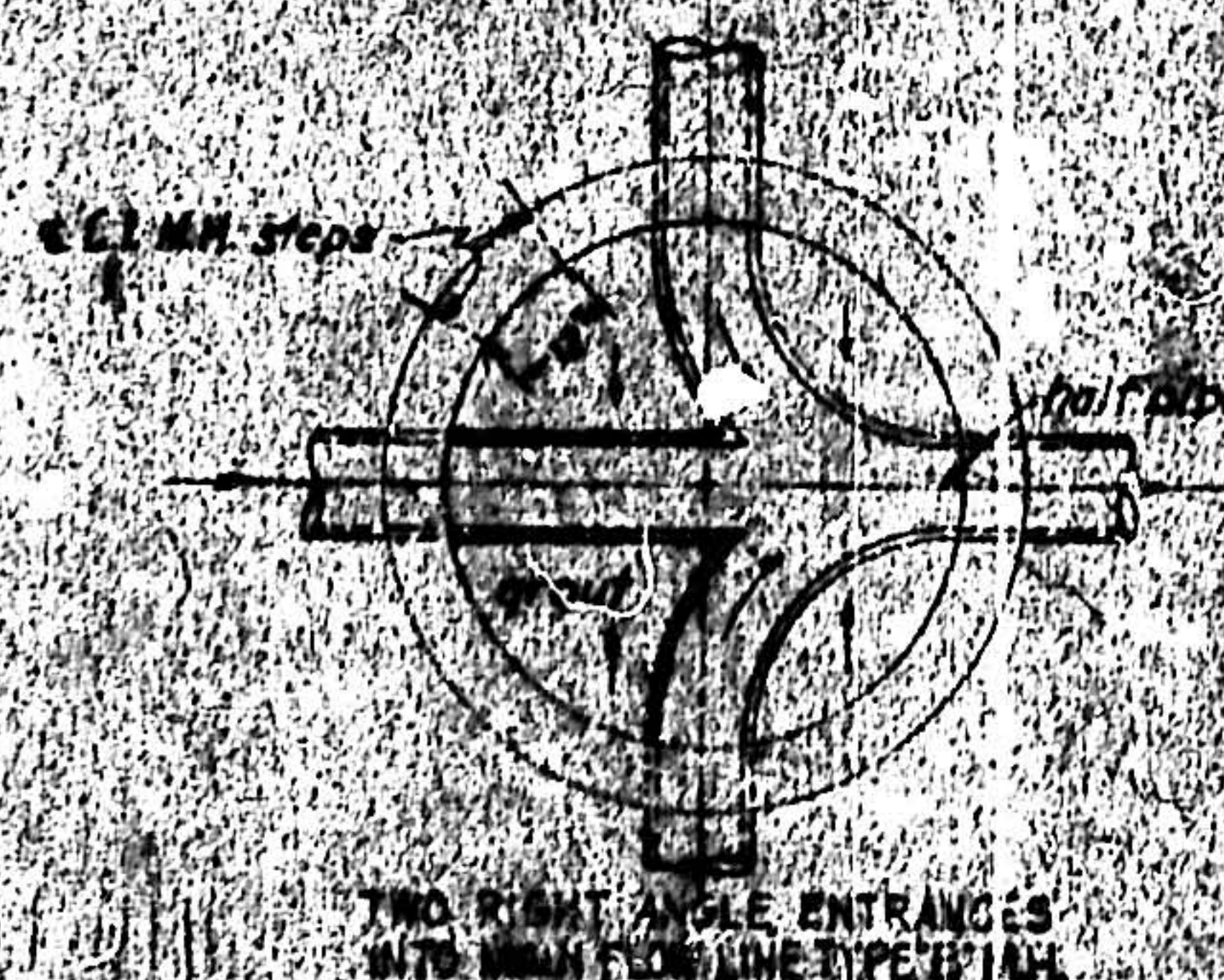
RIGHT ANGLE ENTRY
AND EXIT TYPE MANHOLE



CONE. MANHOLE BLOCK

MANHOLE SPECIFICATIONS

The concrete for the bottom of building the manhole made of all manholes of solid concrete or block. In solid concrete it is the walls must have a thickness of not less than six inches. Block for six inch walls must be minimum of not less than eight blocks wide and width of not less than six inches. A heavy reinforcement for the block thickness and shall be lock joint type. The concrete from which such manholes are constructed shall meet the specifications for class "A" as set forth in governing concrete specifications for this project. Type of block must be approved by the Engineer and each block and it is required in the structure equal to and matching exactly that of the original manhole. All concrete blocks shall conform in all respects to the standard specifications for concrete blocks in construction of Sewer Access Manholes ASTM Designation C139-39 or any subsequent standard. These blocks may be precast in place or pre-cast and then grouted in manhole walls. The concrete shall be placed and cured in accordance with as shown in wet cement concrete. The concrete shall be placed in the center of manhole and the pre-determined elevation as shown on the drawings. The concrete shall be finished if there may be inspection of closed cast block set in place.



TWO RIGHT ANGLE ENTRANCE
INTO MAIN FLOOR LINE TYPE "B" IN

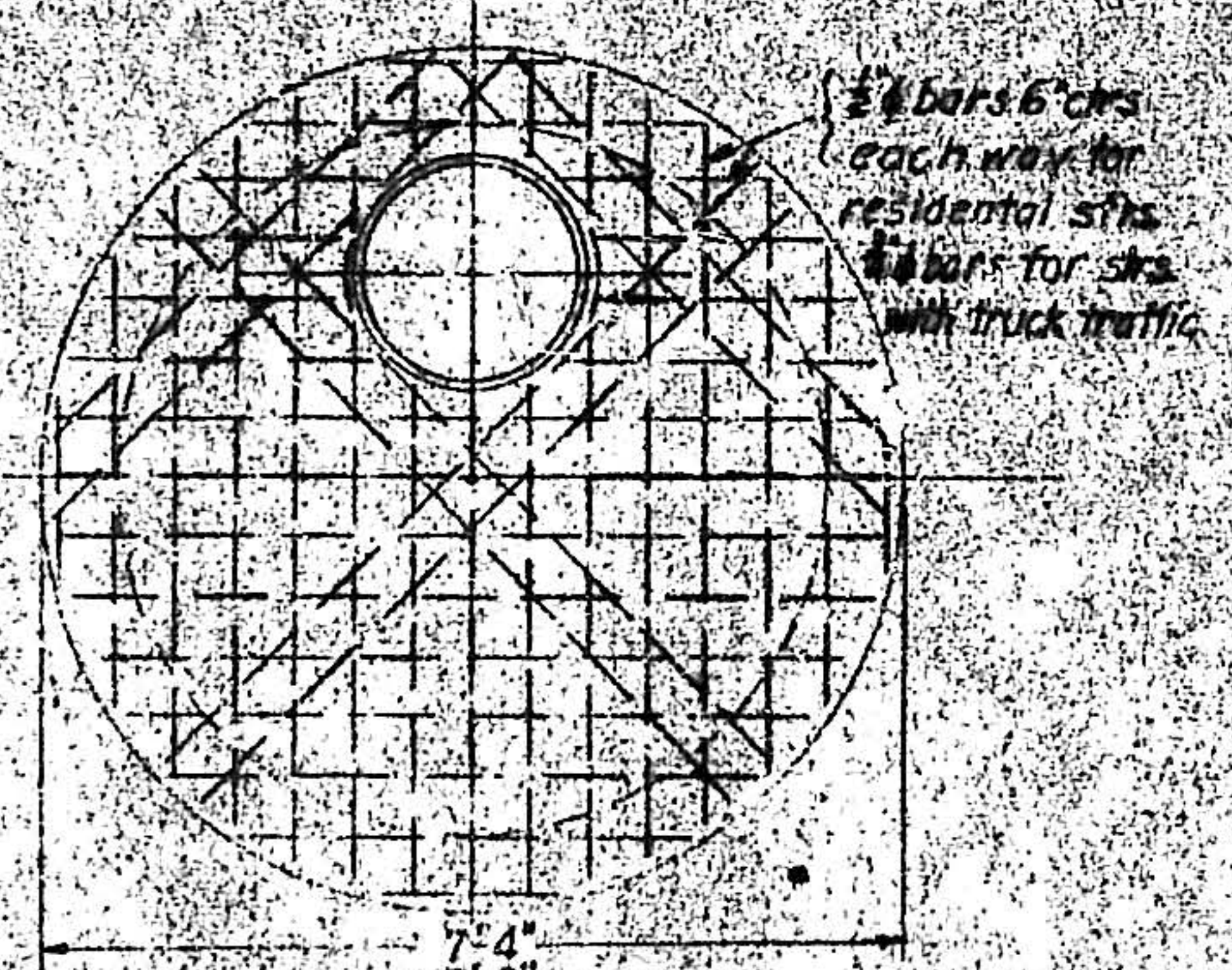
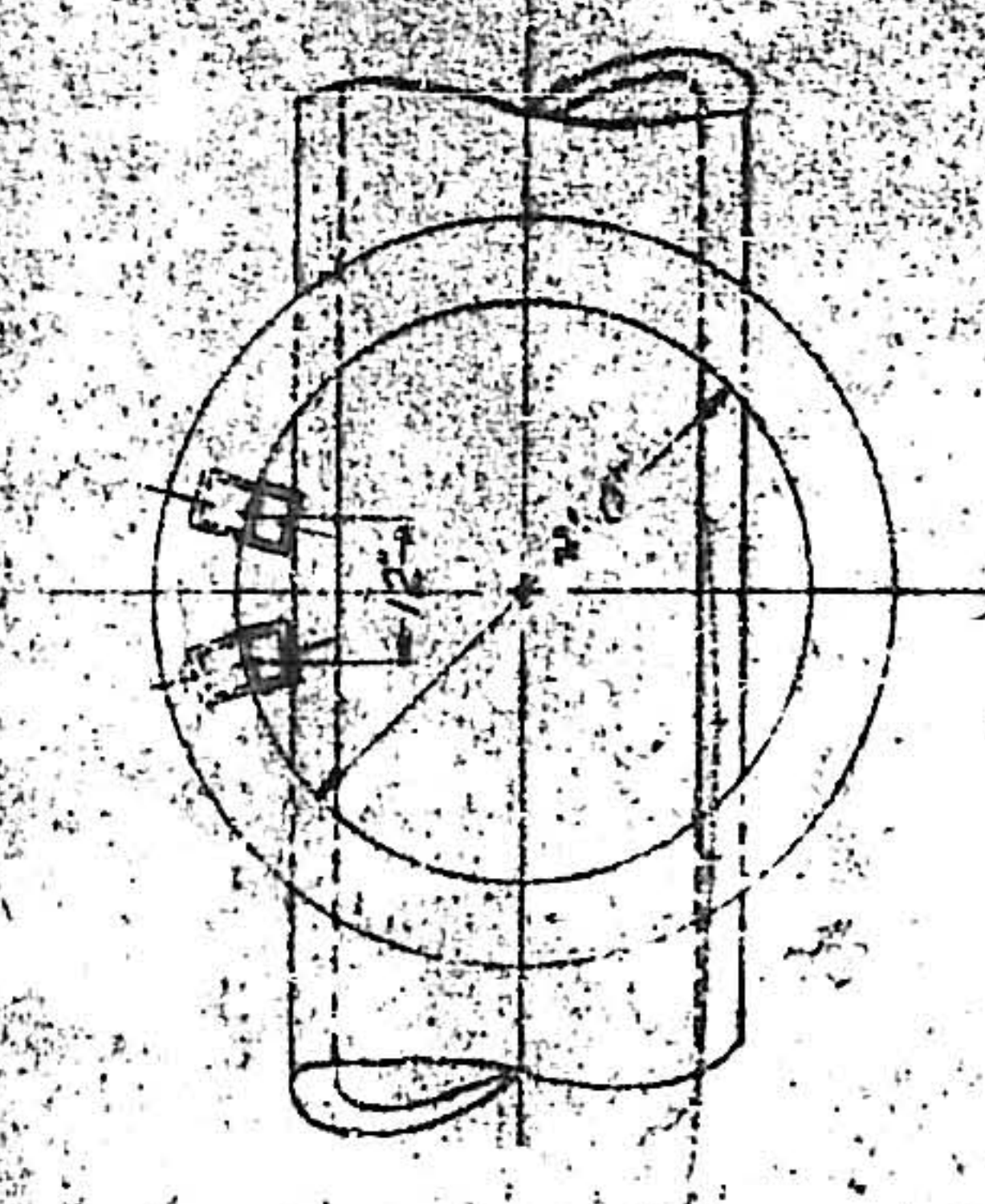
[illegible]

CITY OF ALBUQUERQUE

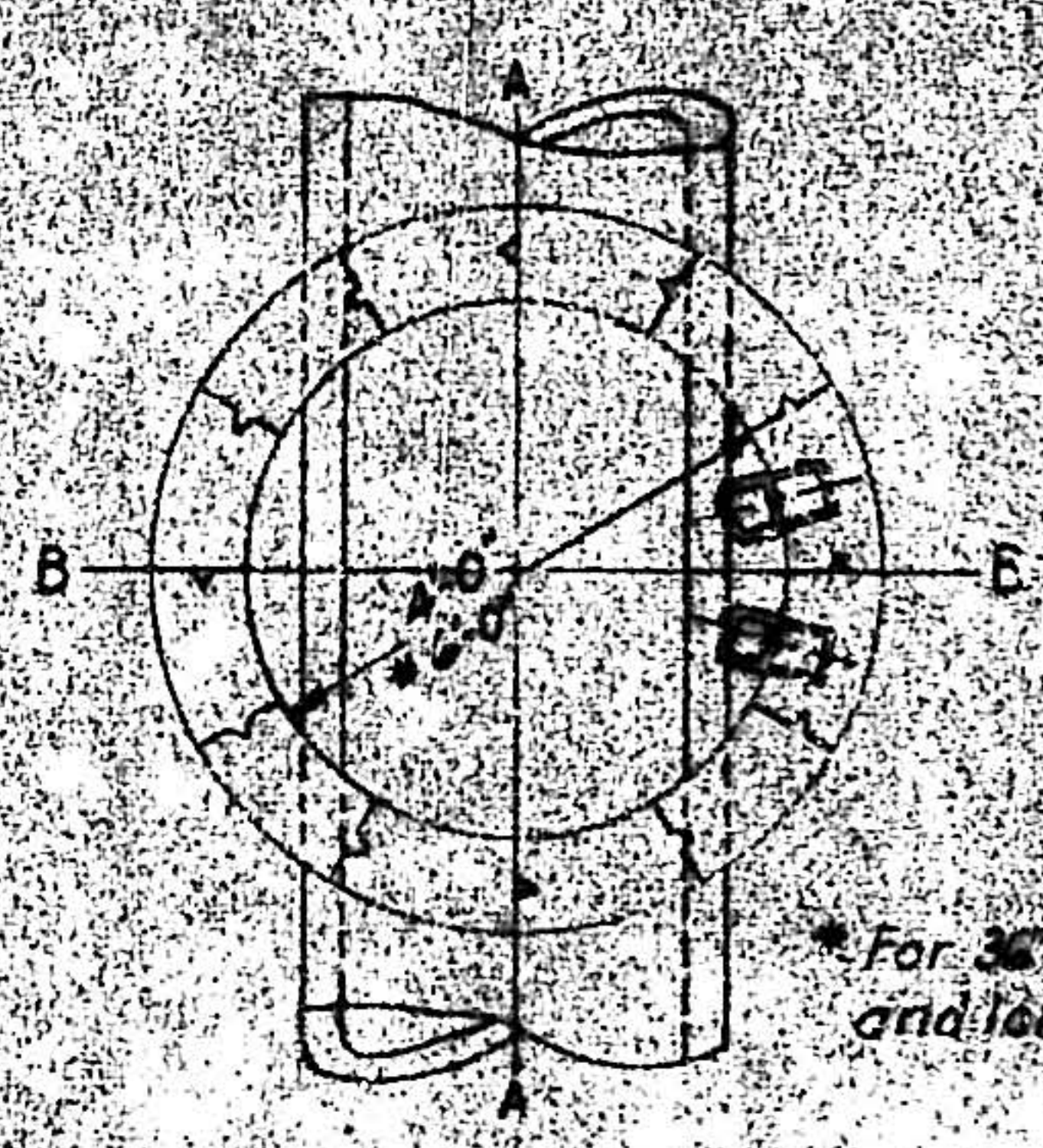
STANDARD HANDLE DESIGN

DESIGNED BY	CONSULTING ENGINEER	DATE DESIGNED
TRACED	DATE IN FIELD	NOV. 1951
CHECKED	REMARKS AND TUNING	DATE RECHECKED
SCALE	EDWARD G. WILSON	SHEET 6 OF 5

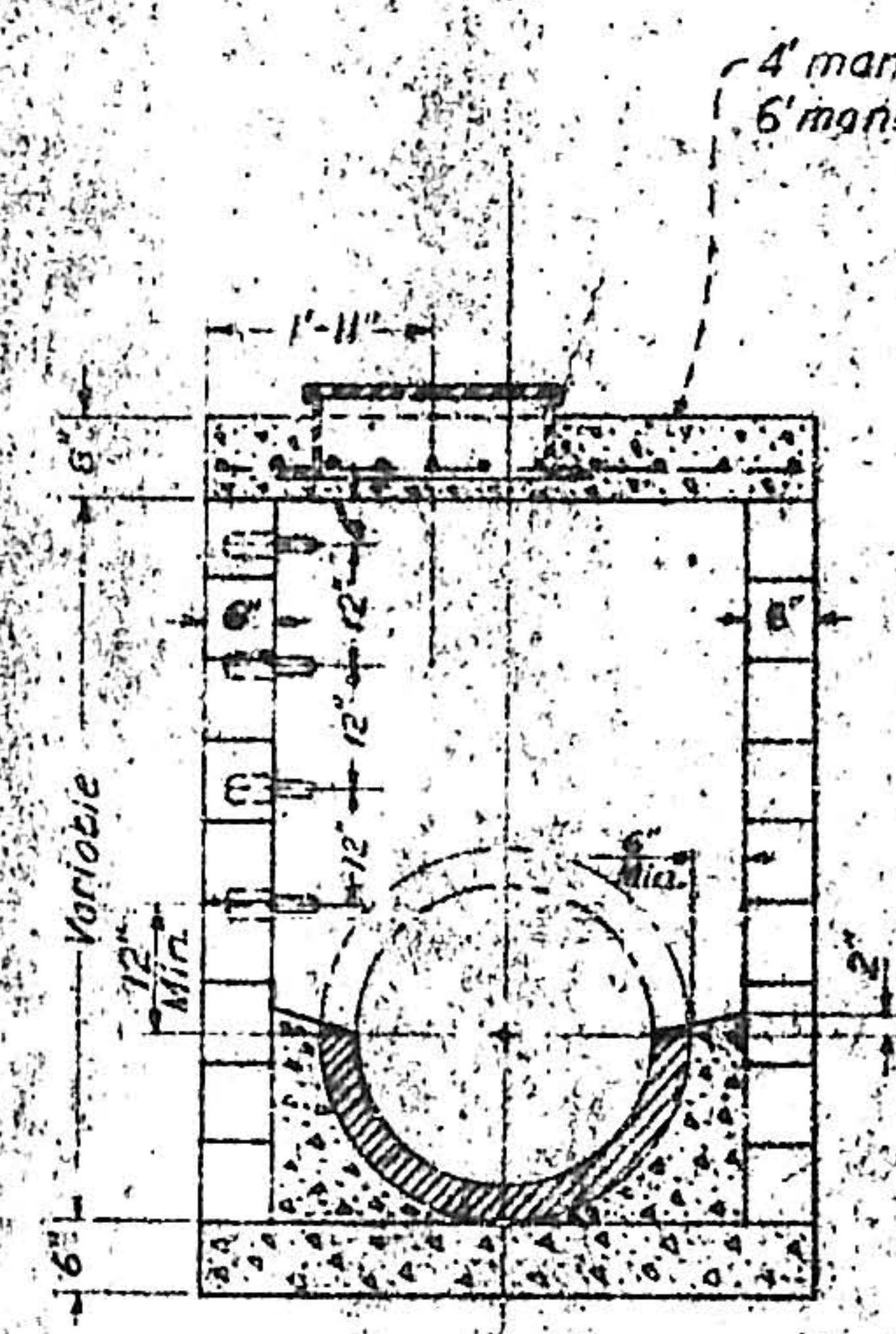
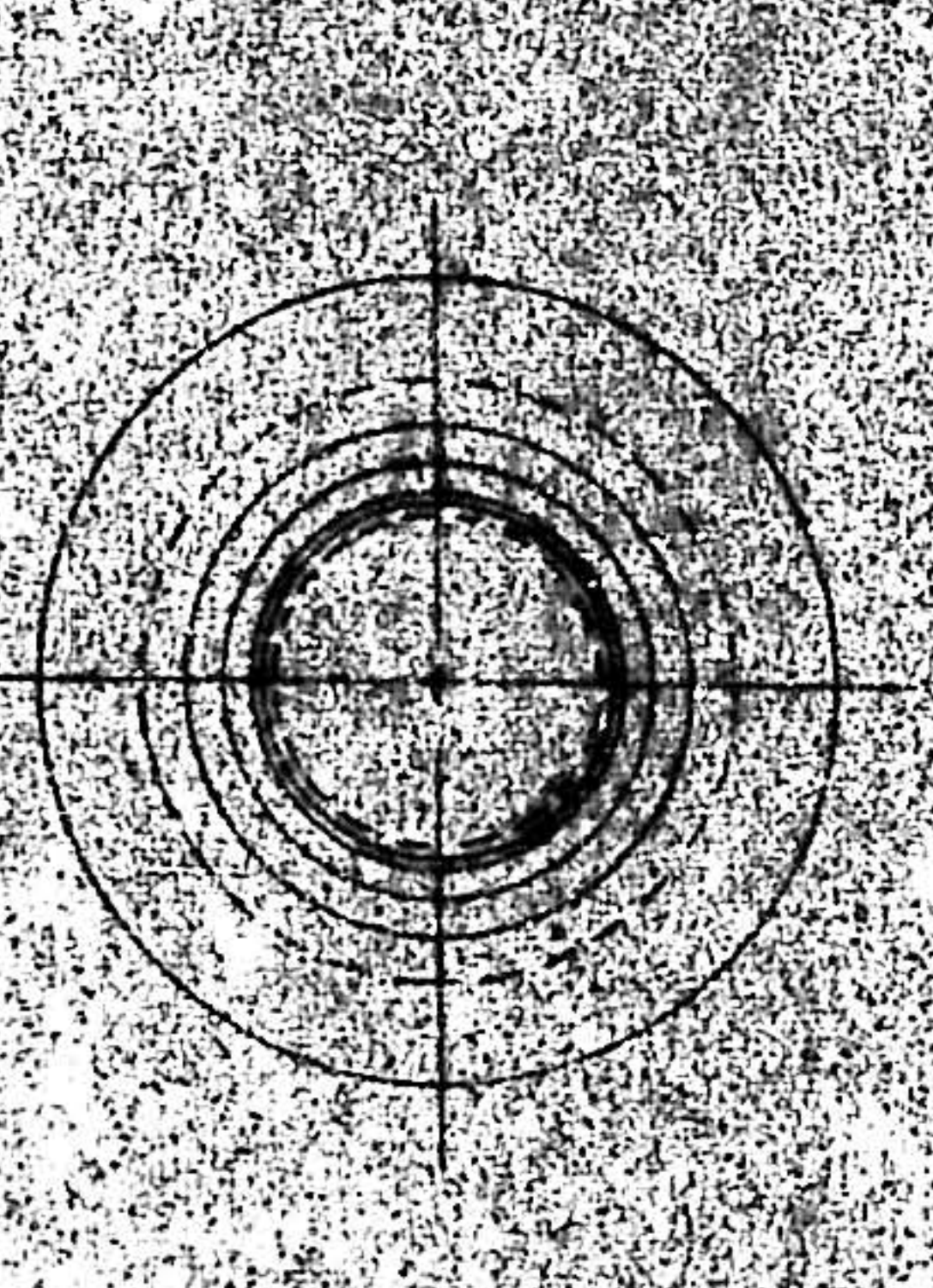
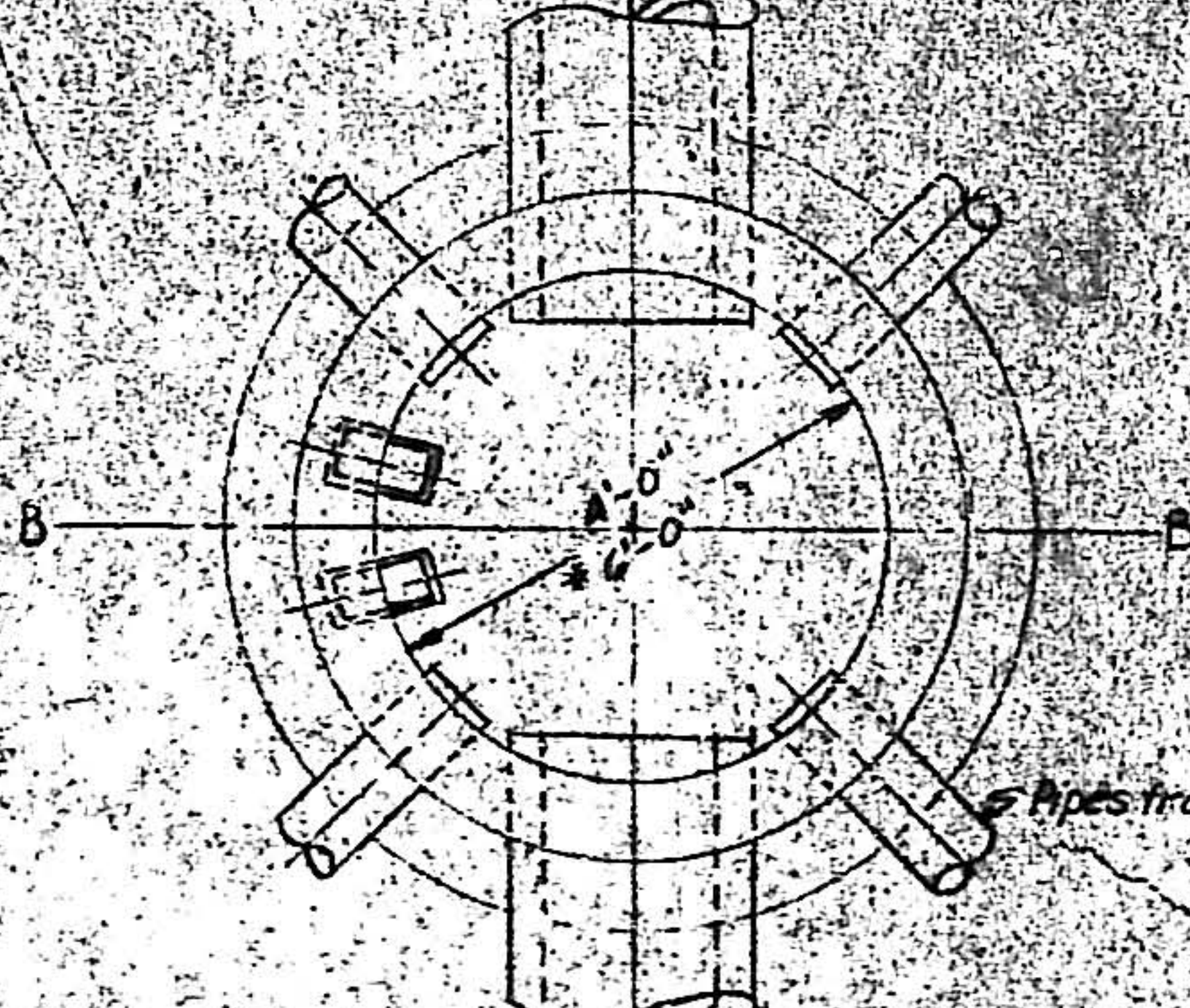
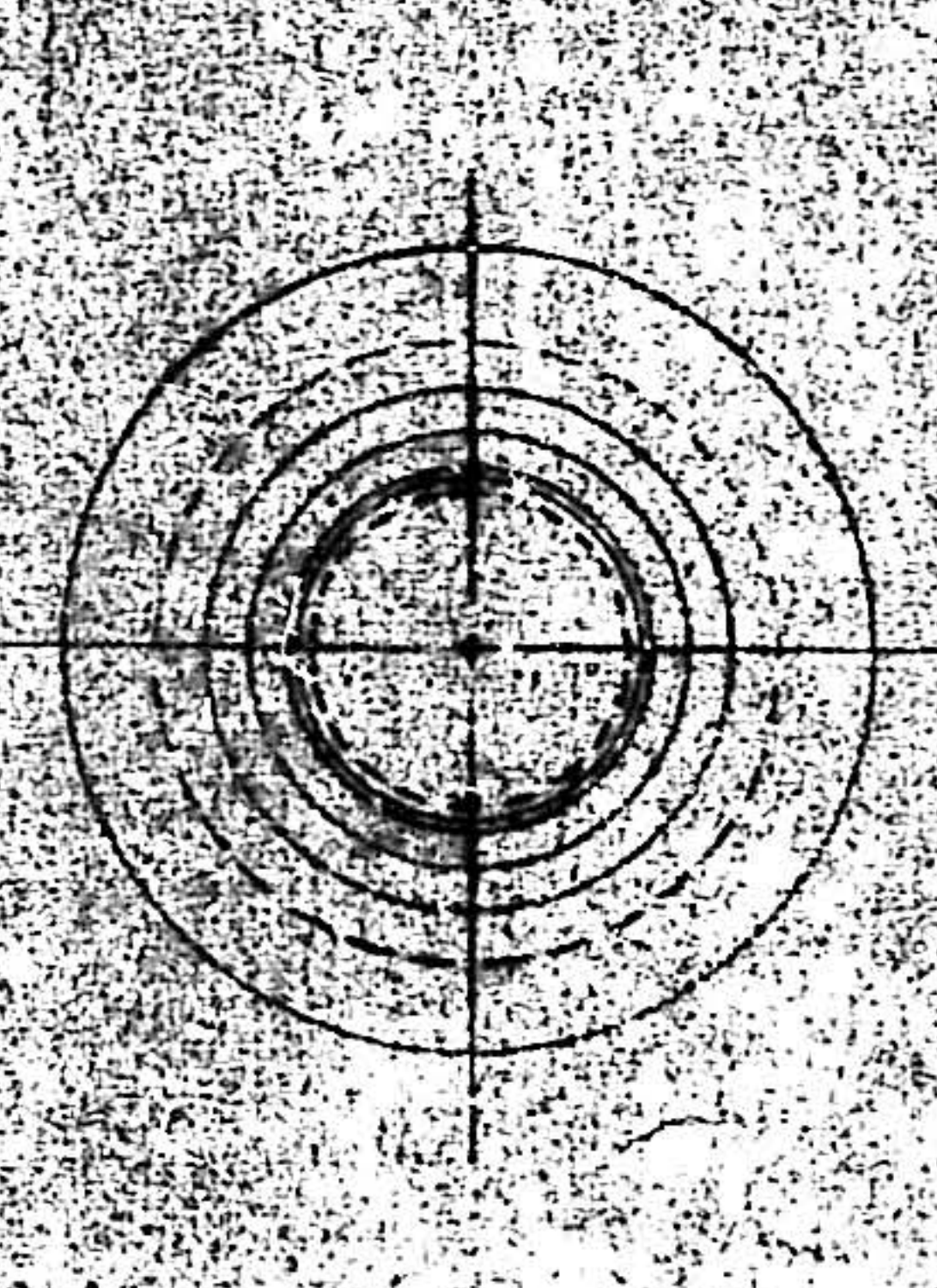
LA HACIENDA



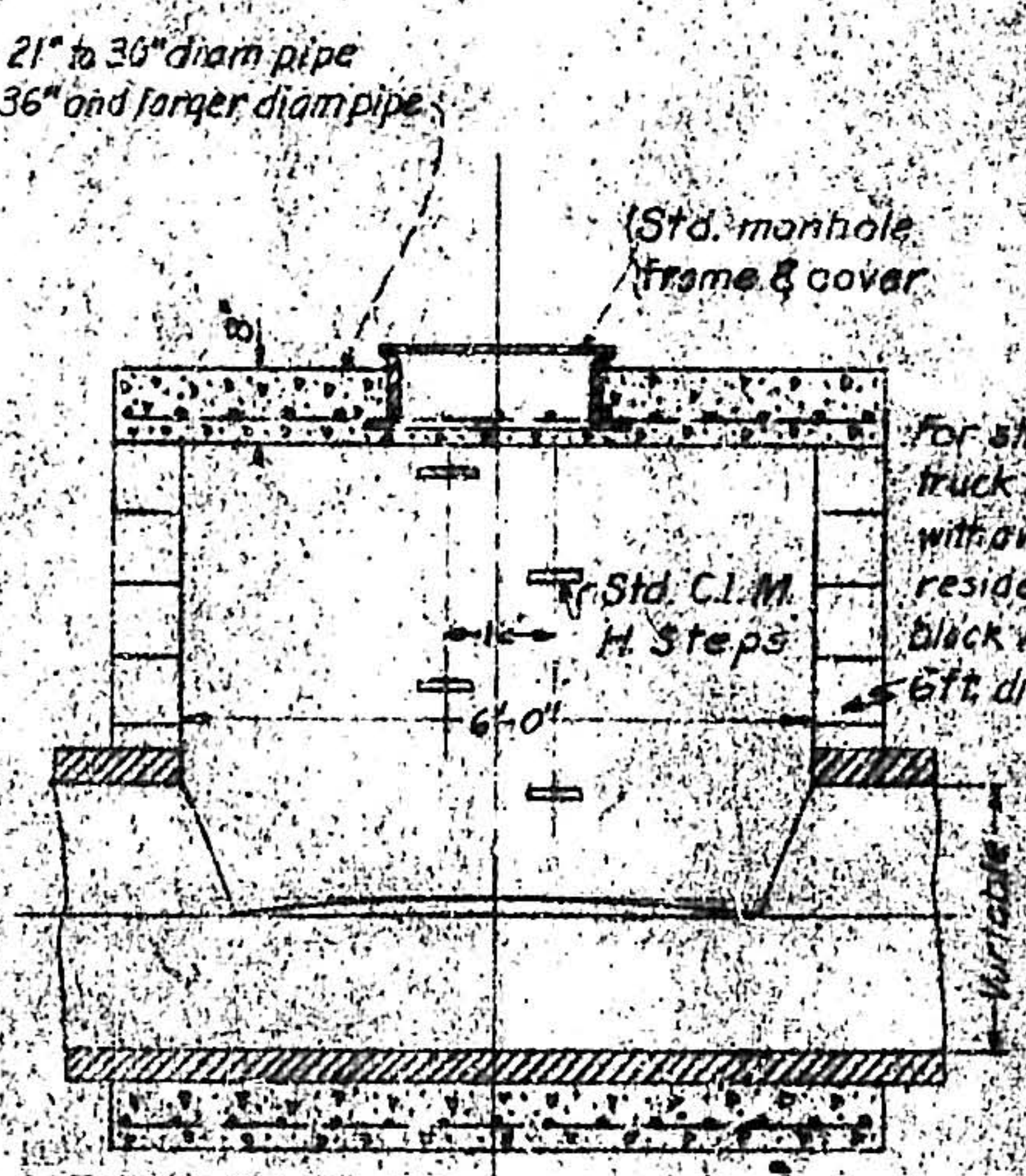
PRECAST CONC. COVER



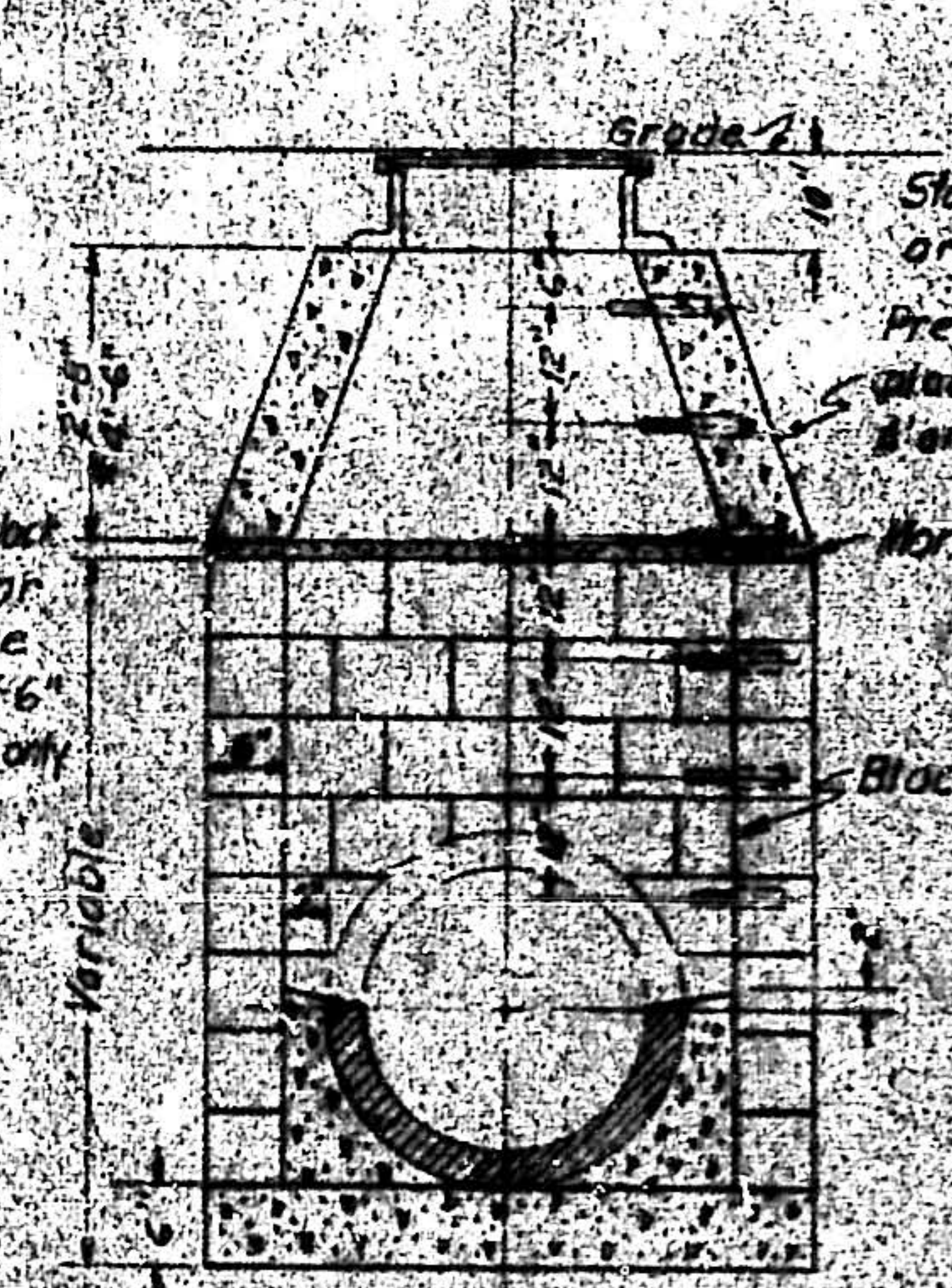
SECTION PLAN



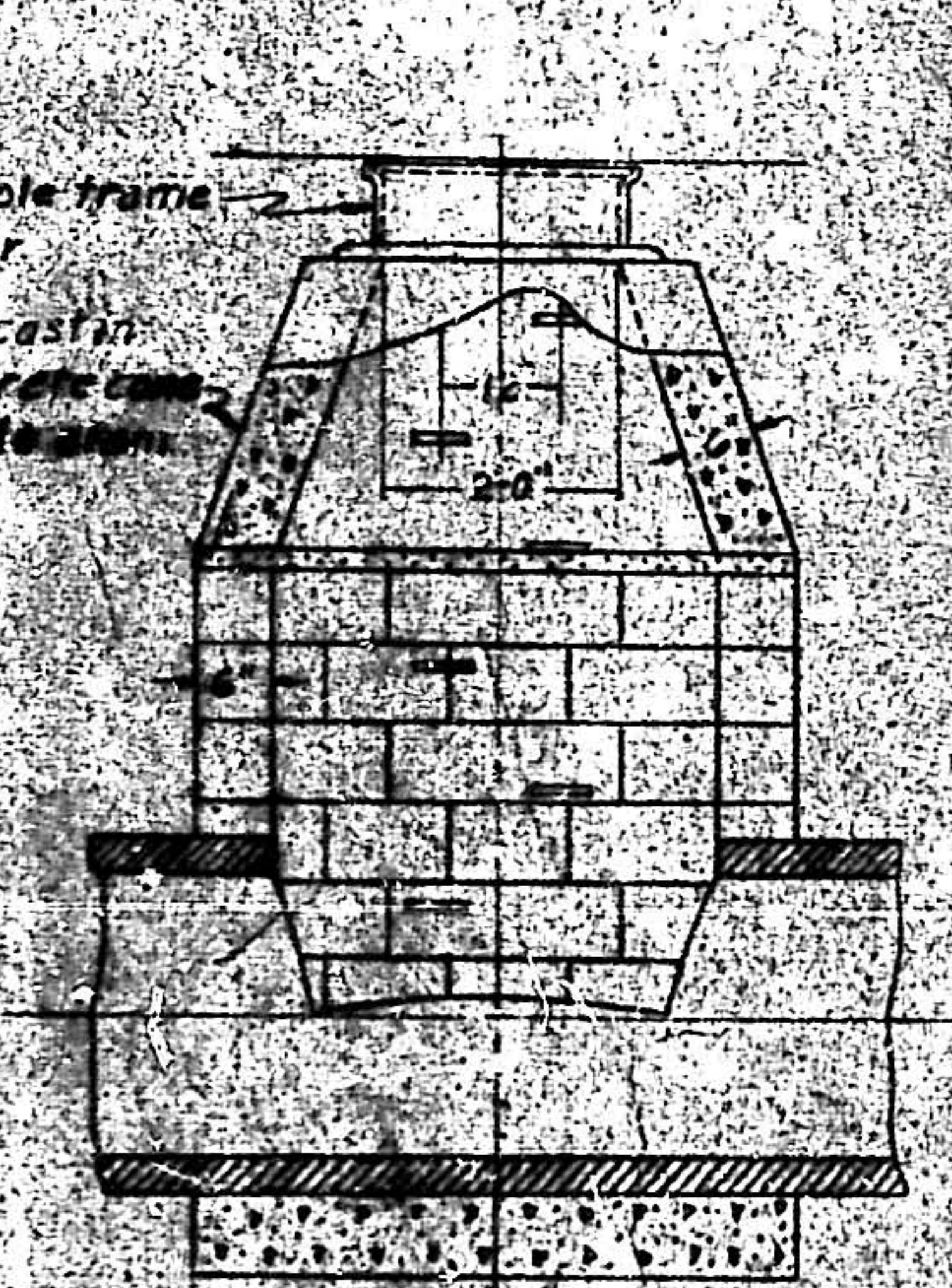
SECTION B-B
STANDARD STORM SEWER MANHOLE TYPE 'A'



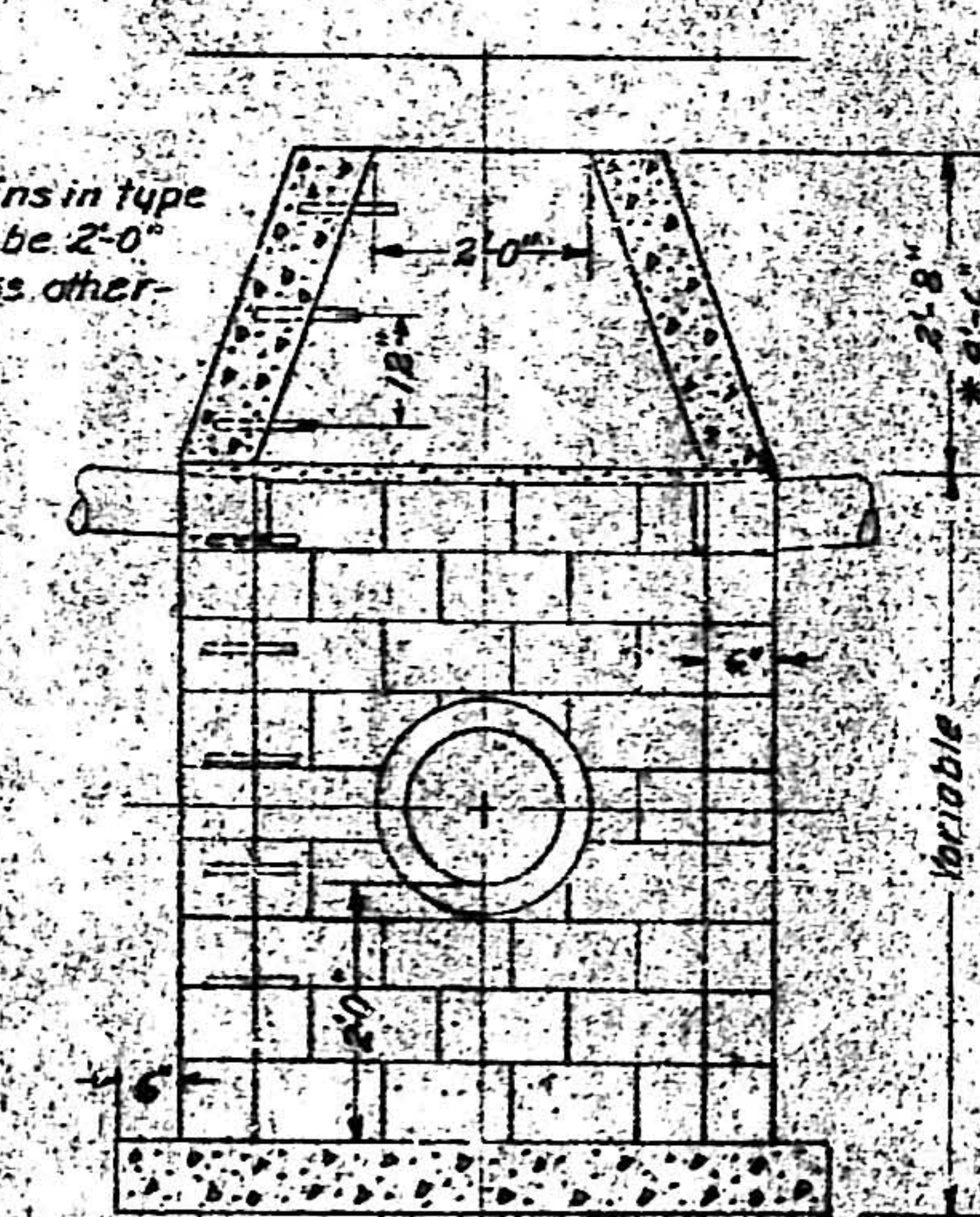
SECTION B-B
STANDARD STORM SEWER MANHOLE TYPE 'A'



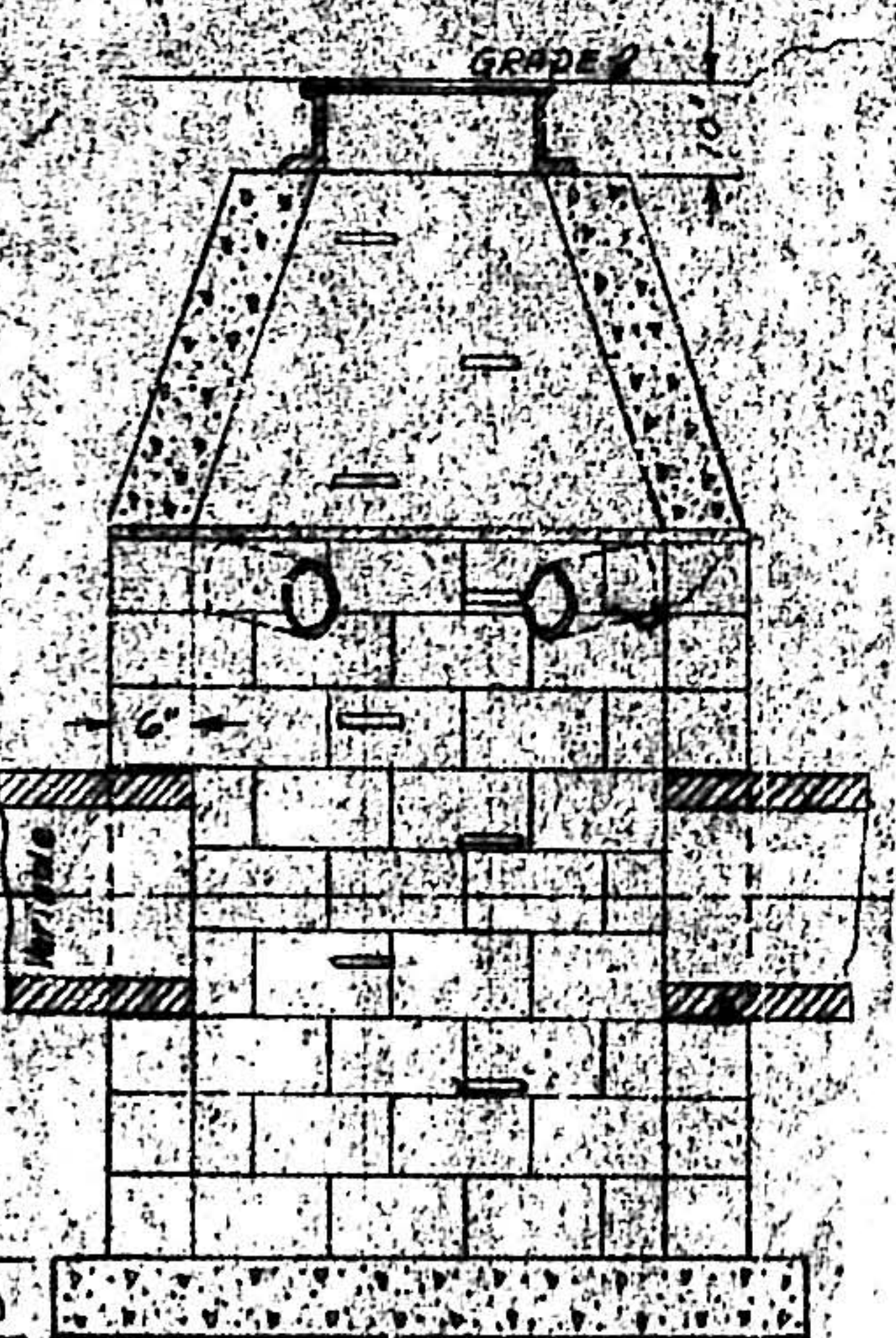
SECTION B-B
STANDARD STORM SEWER MANHOLE TYPE 'B'



SECTION A-A
STANDARD STORM SEWER MANHOLE TYPE 'B'

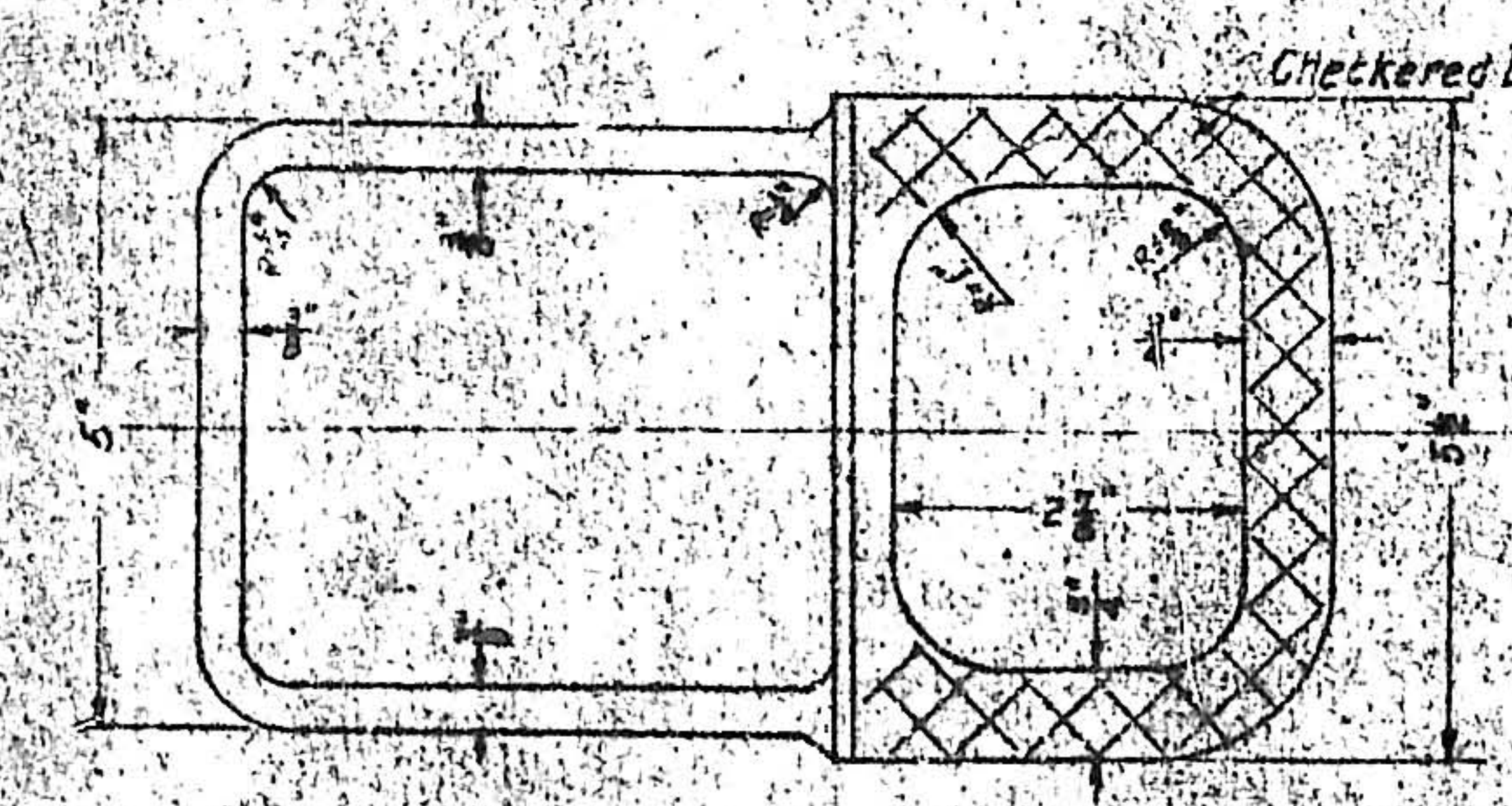


SECTION B-B
STANDARD STORM SEWER MANHOLE TYPE 'C'

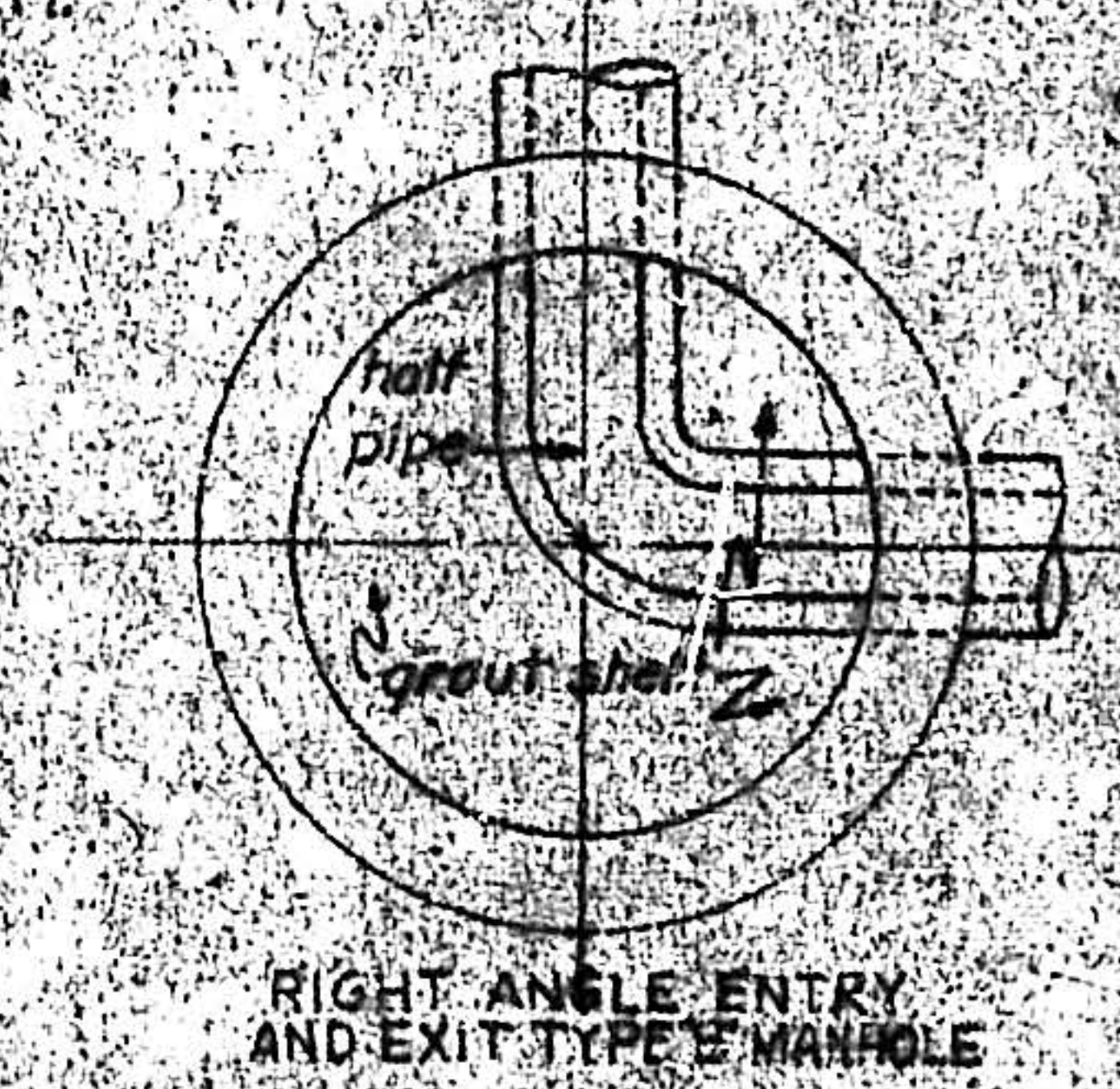


SECTION A-A
STANDARD STORM SEWER MANHOLE TYPE 'C'

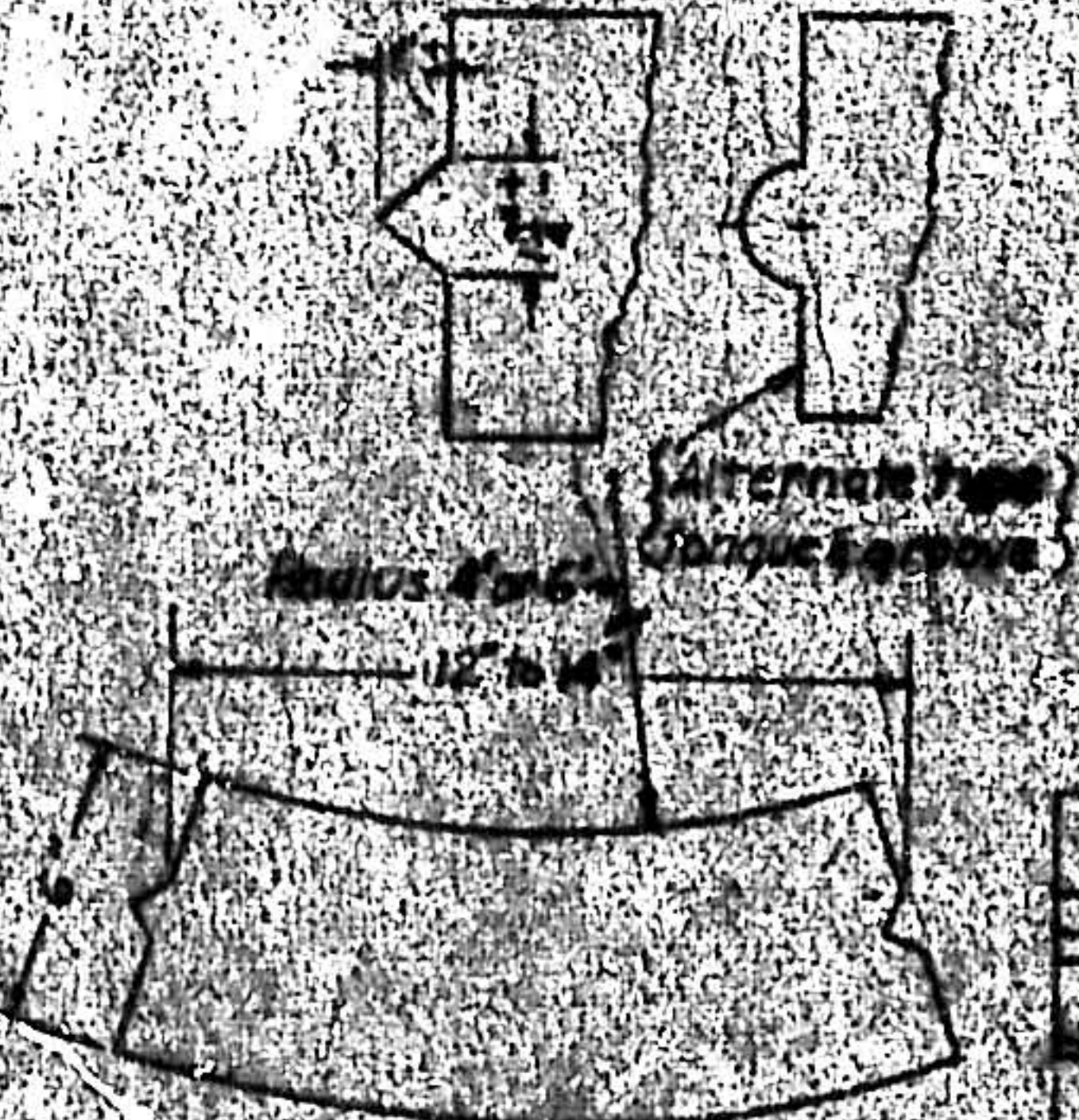
NOTE:
All catch basins in type
'C' manholes to be 2'-0"
in depth unless other-
wise noted.



STANDARD MANHOLE STEP



RIGHT ANGLE ENTRY
AND EXIT TYPE 'E' MANHOLE

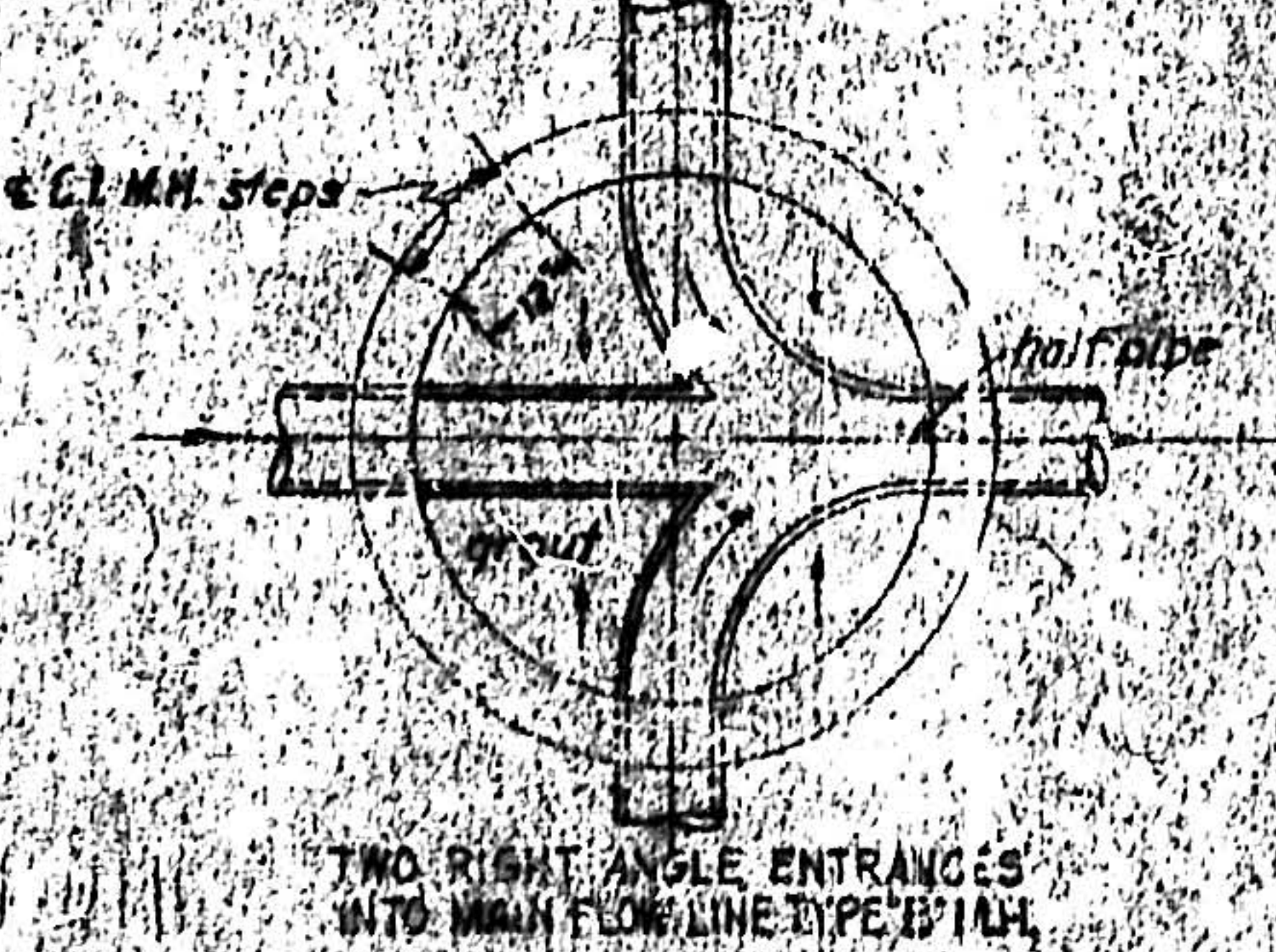


CONC. MANHOLE BLOCK
LOCK JOINT

MANHOLE SPECIFICATIONS

The contractor has the option of building the masonry walls of all manholes of solid concrete or block. If solid concrete is used, the walls must have a thickness of not less than six inches. Block for six inch walls must have a thickness of not less than eight inches, and a width of not less than six inches, a length of between 12 to fourteen (14) inches and shall be lock joint type. The concrete from which such blocks are constructed shall meet the specifications for class 'A' as set forth in governing concrete specifications for this project. Type of block must be approved by the Engineer and each block shall be molded with a curvature equal to and matching exactly that of the manhole being built. All concrete blocks shall conform in all respects to the standard specifications for Concrete Masonry Units for construction of Catch Basins & Manholes, A.S.T.M. Designation C129-39 or any subsequent revisions thereof. Cones may be poured in place or precast and then grouted to manhole barrel. All manhole frames, covers, and steps to be standard design as shown. In wet sewer construction manhole barrels shall be constructed of poured concrete at a pre-determined elevation as shown on plan. A good 1/2 inch. Reinforcing of barrel may be constructed of curved corr. block set in water proof mortar.

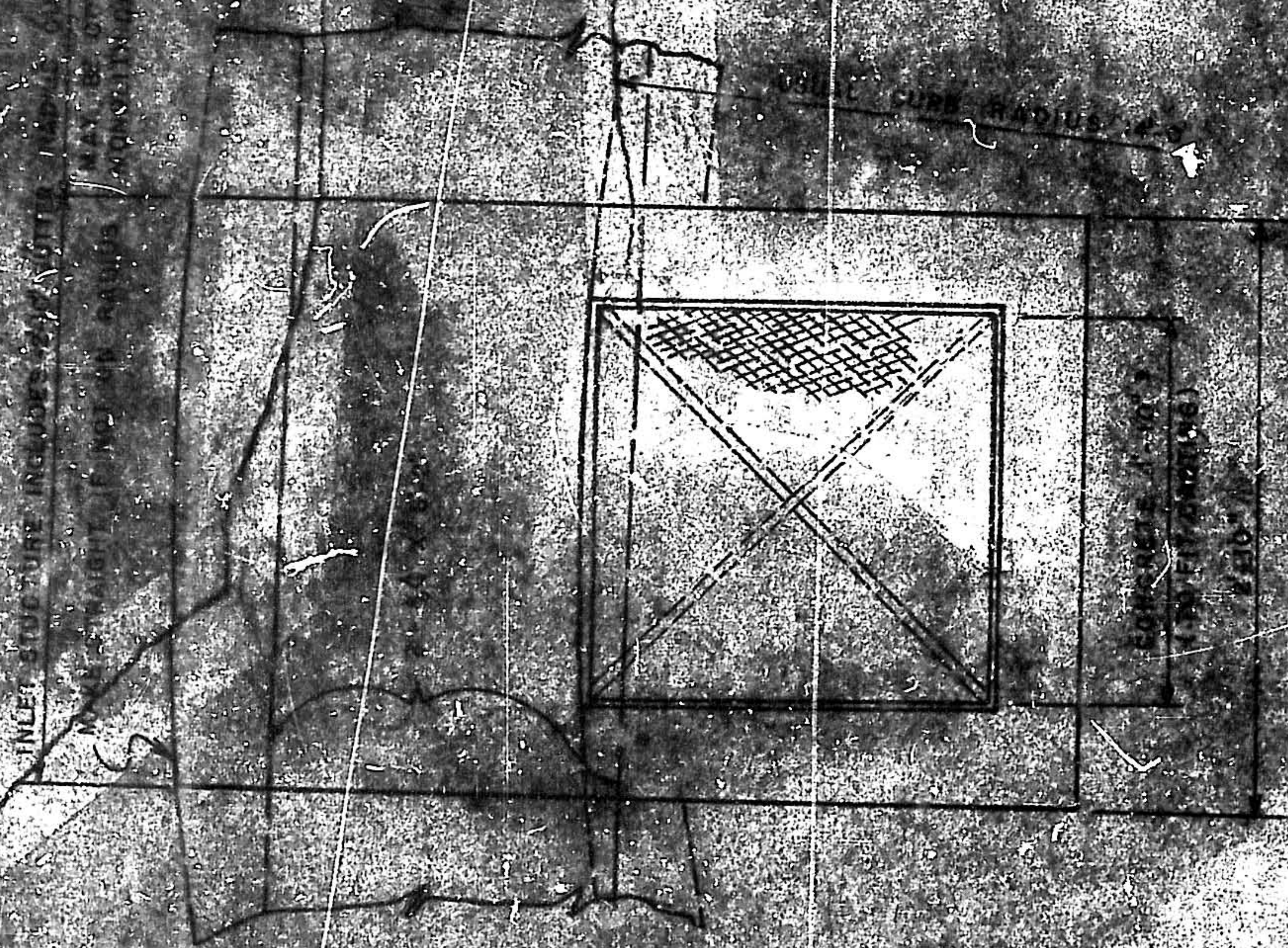
All conc. for manholes & blocks class 'A' 5000 psi min.
All reinf. steel structure grade 15000 psi min.



TWO RIGHT ANGLE ENTRANCES
INTO MAIN FLOW LINE TYPE 'D' MANHOLE

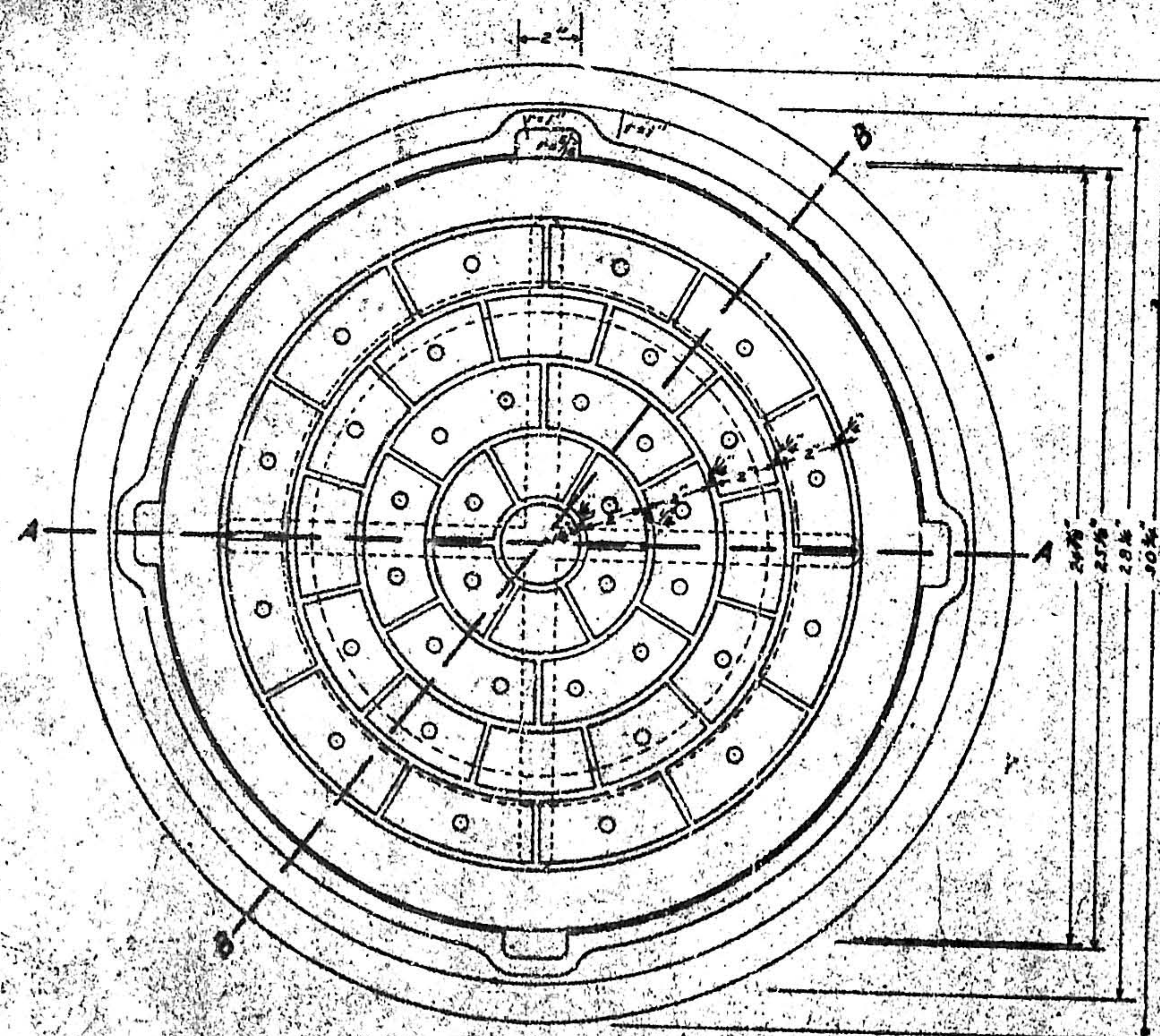
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

CITY OF ALBUQUERQUE			
STANDARD MANHOLE DESIGNS			
DESIGNED	CONSULTING ENGINEER	DATE DESIGNED	NOV. 1951
TRACED	DATE TRACED	DATE REVISED	
CHECKED	DATE CHECKED	DATE REVISED	
SCALE	MEYERHOFF AND TURNER	DATE REVISED	
LA HACIENDA		SHEET	6 OF 52



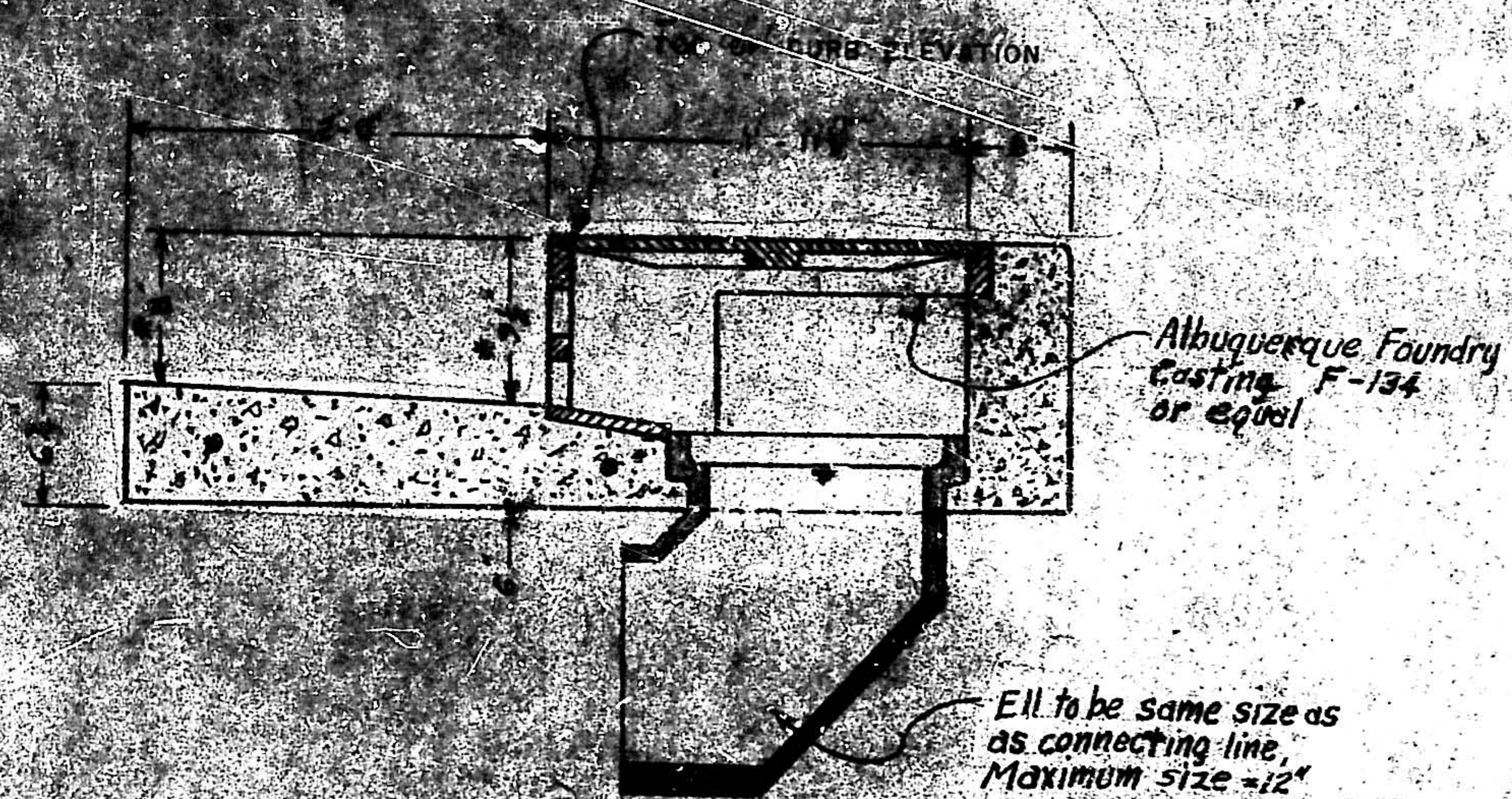
PLAN - CURB INLET (CASTING F-134)

Scale $\frac{1}{2}'' = 1'$



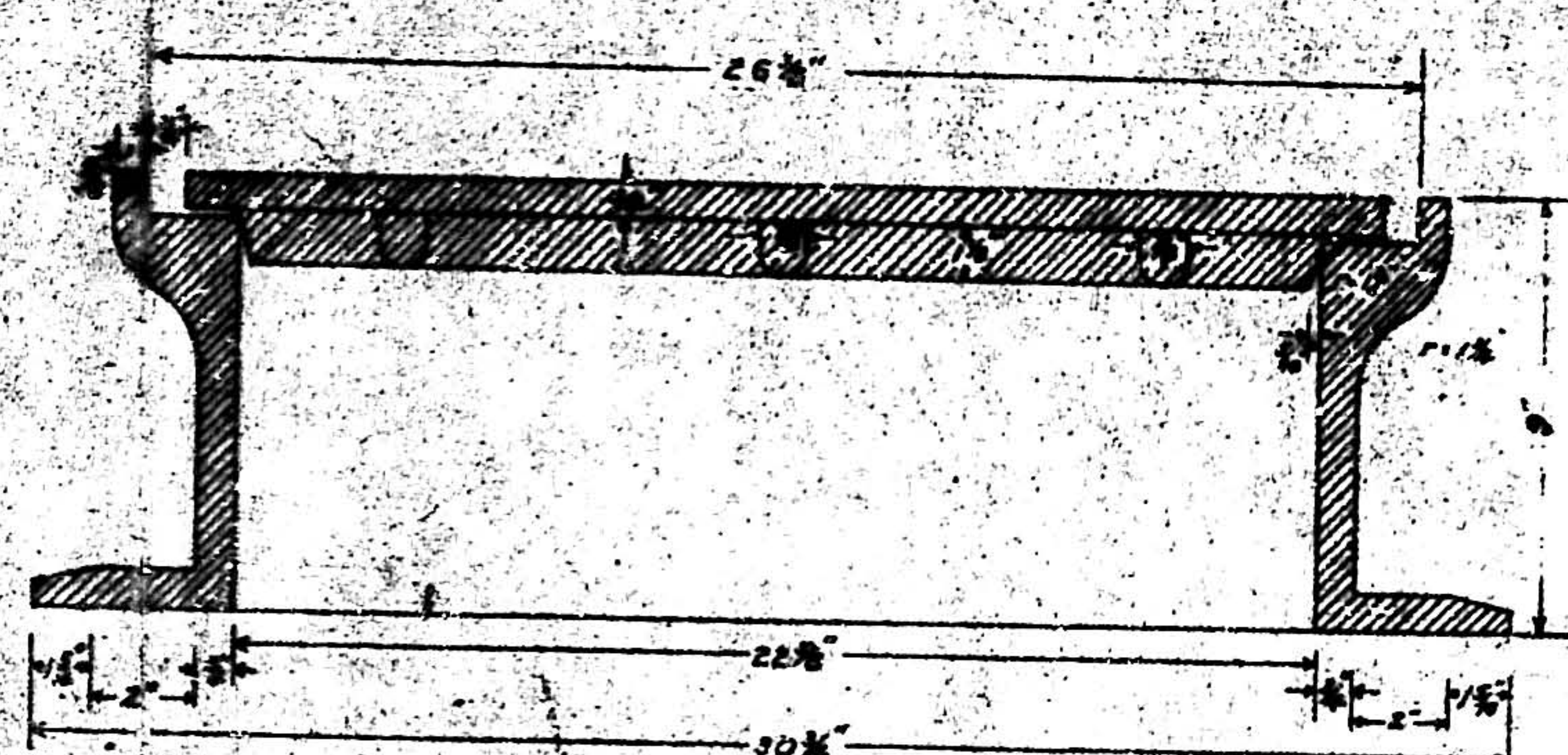
PLAN
STANDARD MANHOLE FRAME AND COVER

Scale $\frac{1}{2}'' = 1'$

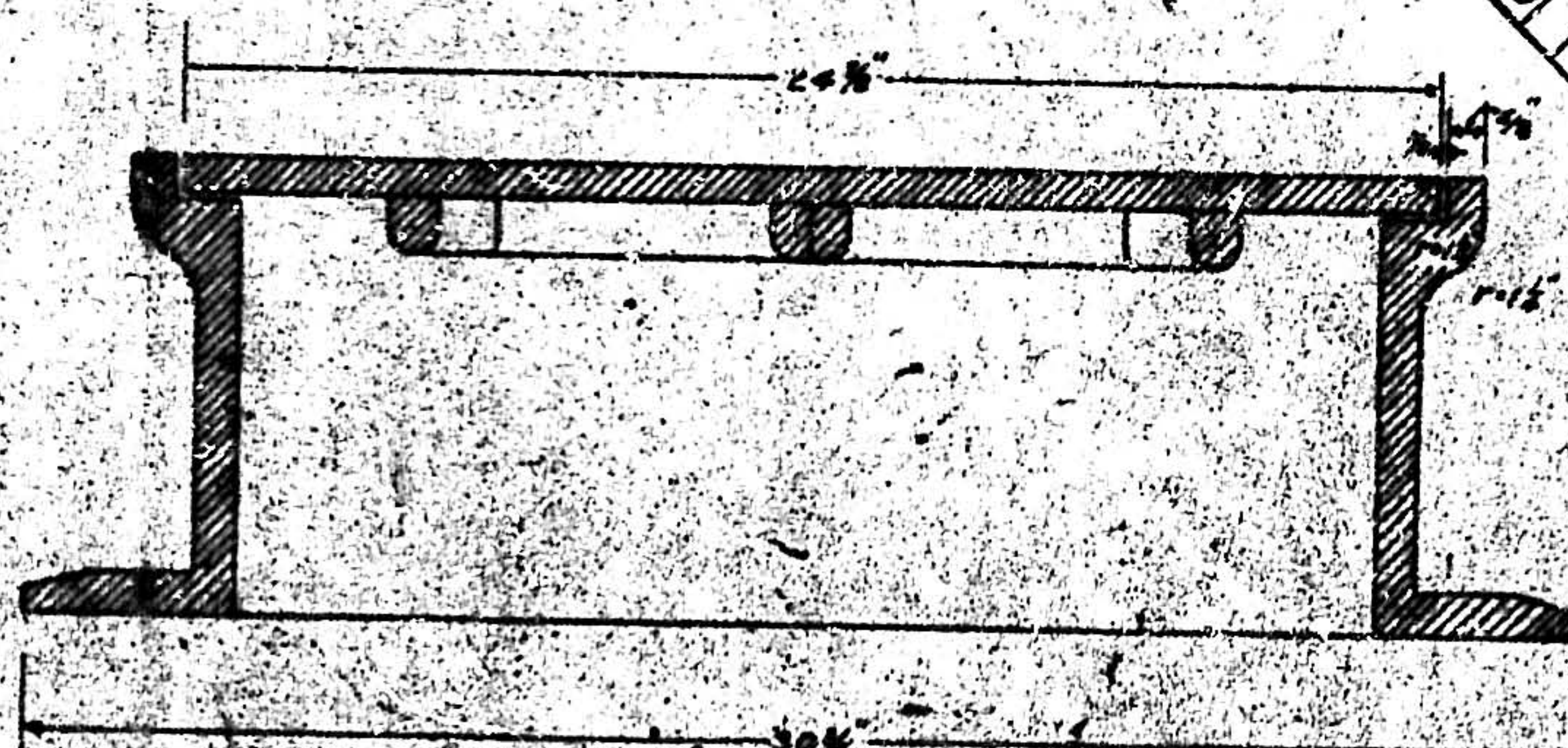


SECTION - CURB INLET

* Note - Usually the Inlet will be placed in the mid-point of the radius. The 8" dimension will diminish to 7" at the tangent point of the radius and the 9 1/2" diminishes to 8". These dimensions may be modified by the Engineer for special circumstances.
Radius Curb & Gutter not included unless specified.
When constructed in existing curb remove 7"

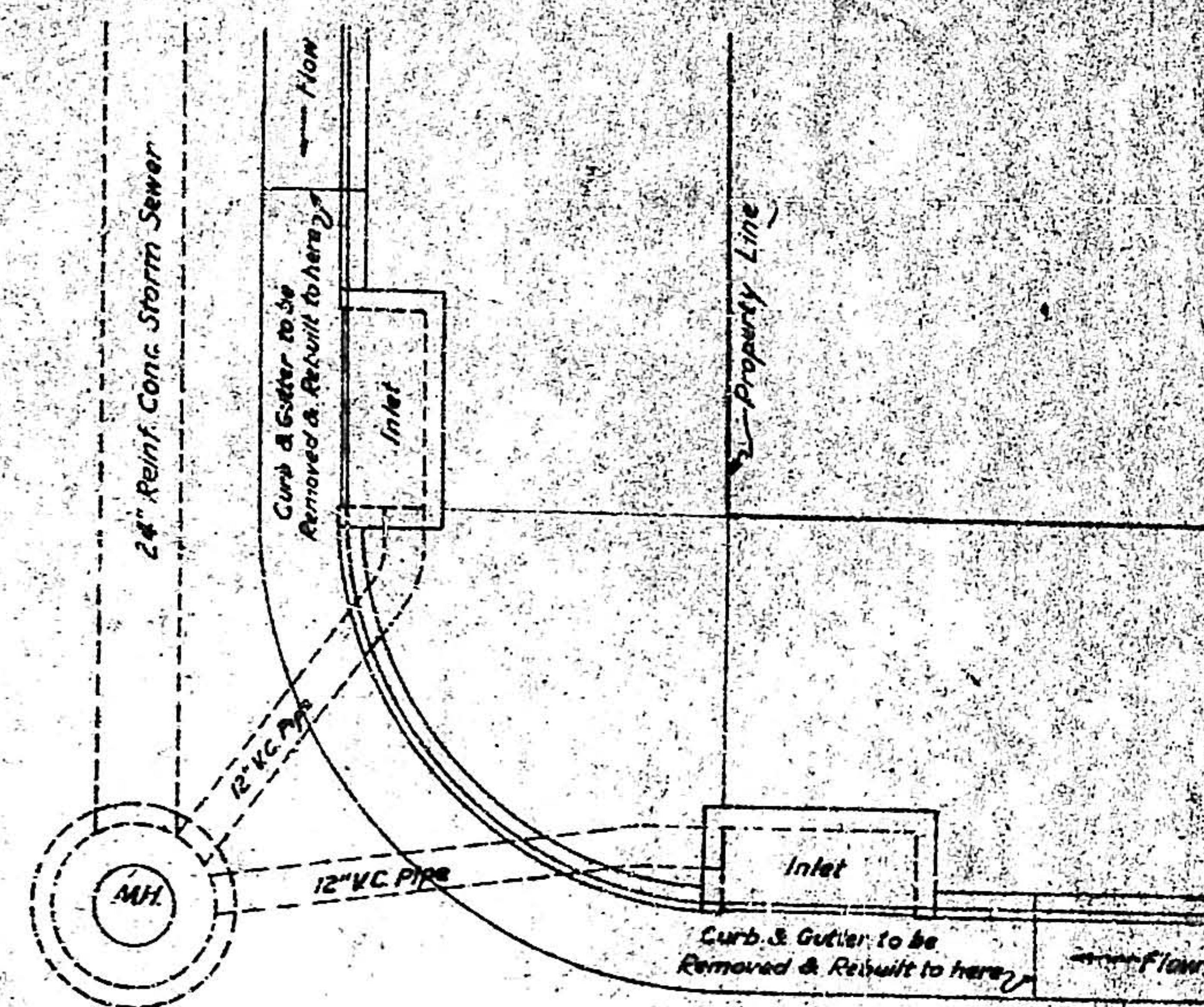


SECTION A-A



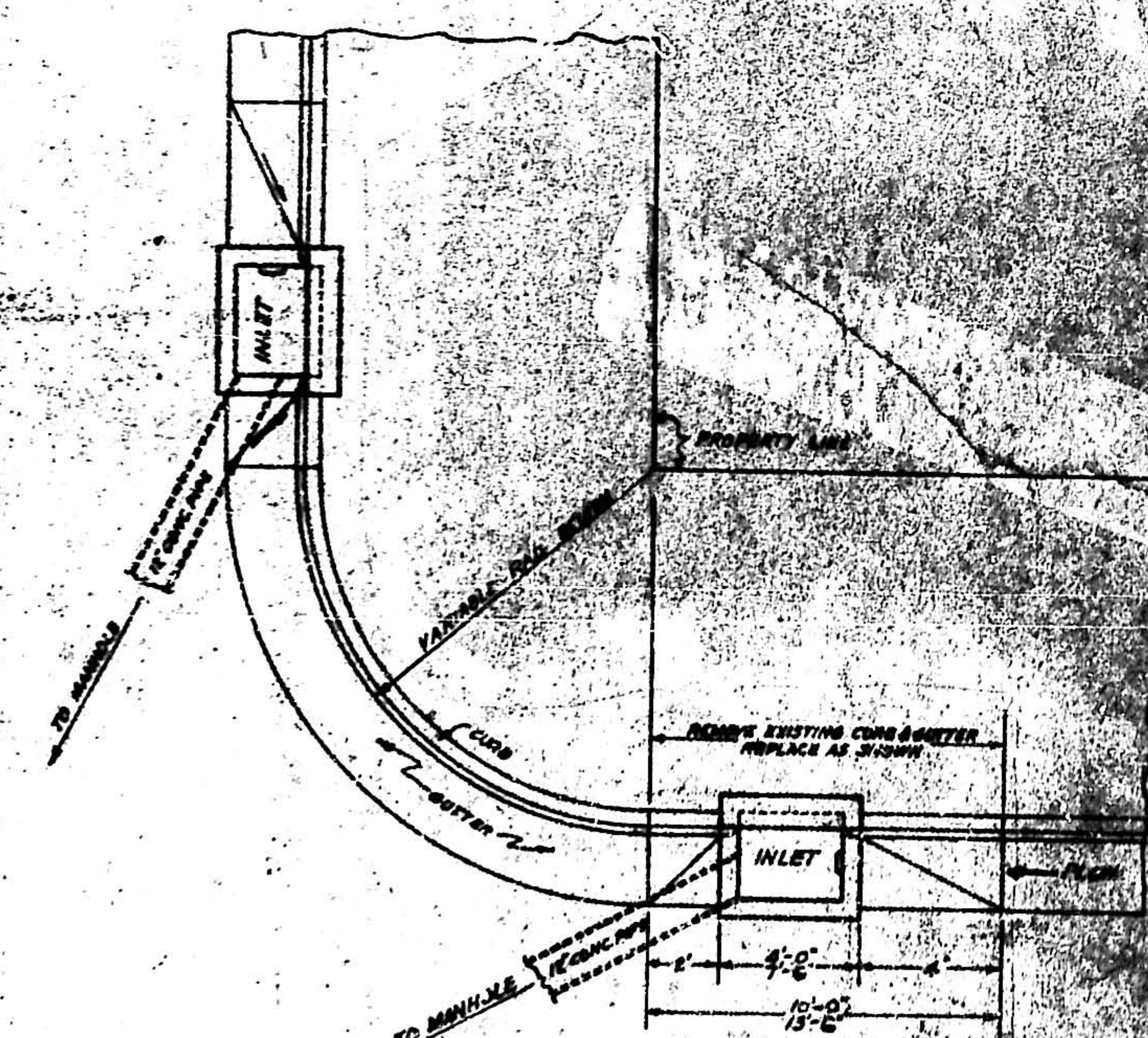
SECTION B-B

Scale $\frac{1}{2}'' = 1'$

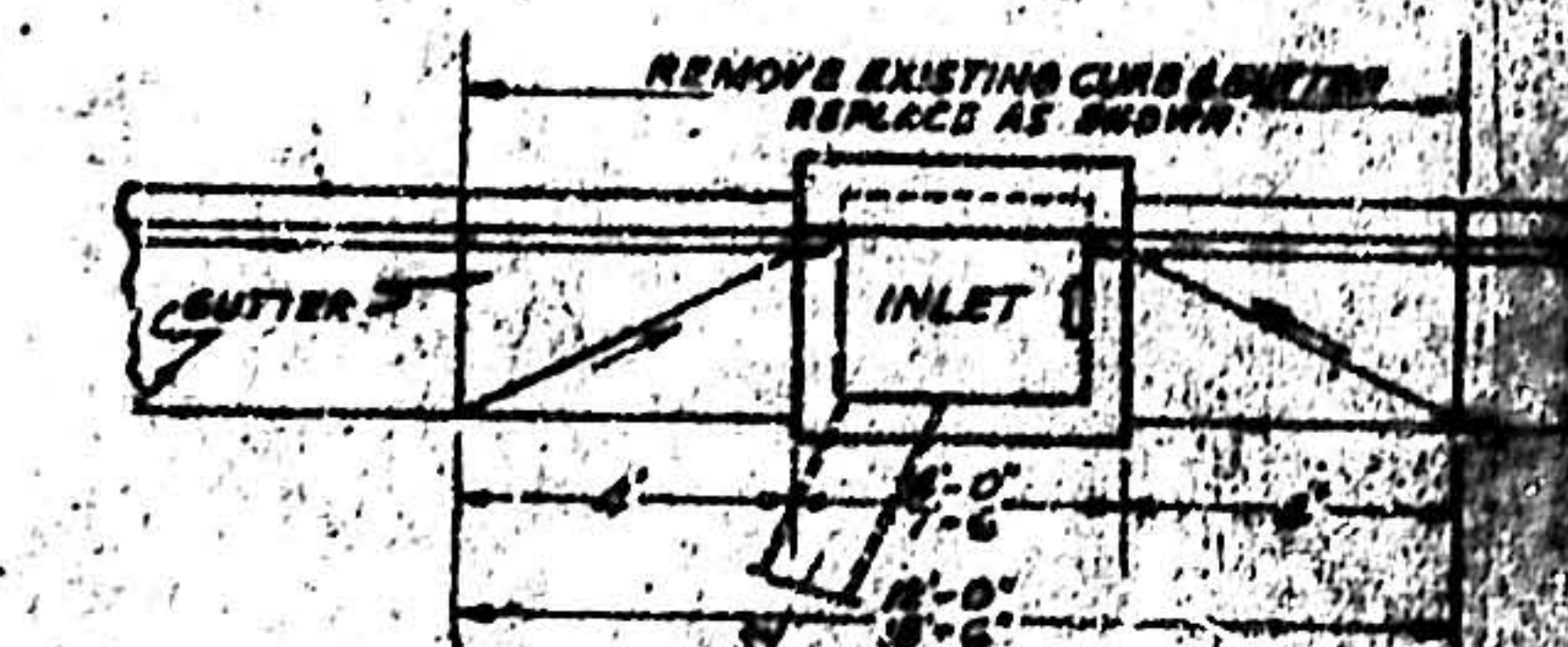


LOCATION OF INLETS IN STREET - TYPE 'A'

Scale $\frac{1}{2}'' = 1'-0''$



LOCATION OF TYPE 'C' & 'C-1' INLETS IN STREET

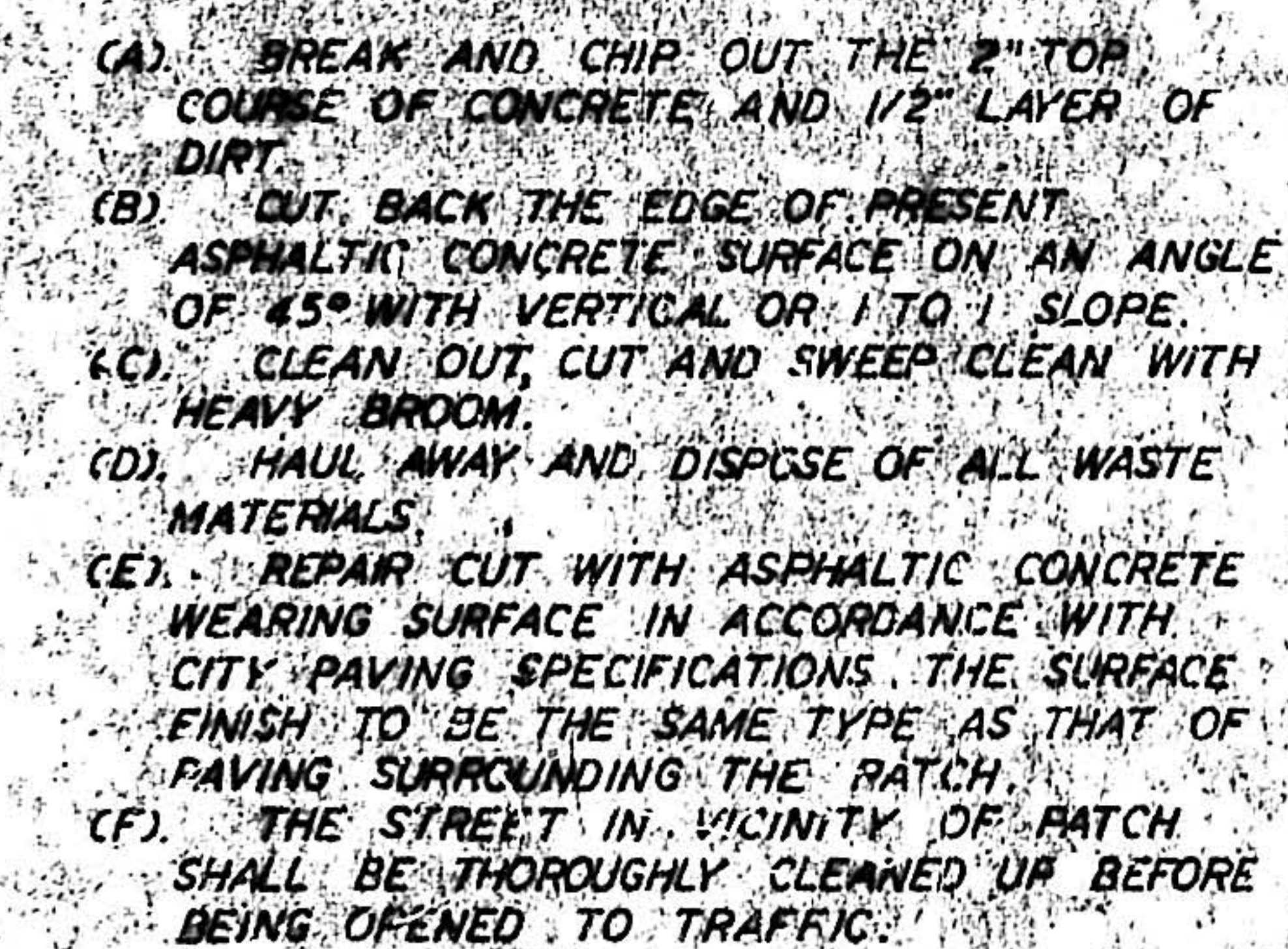
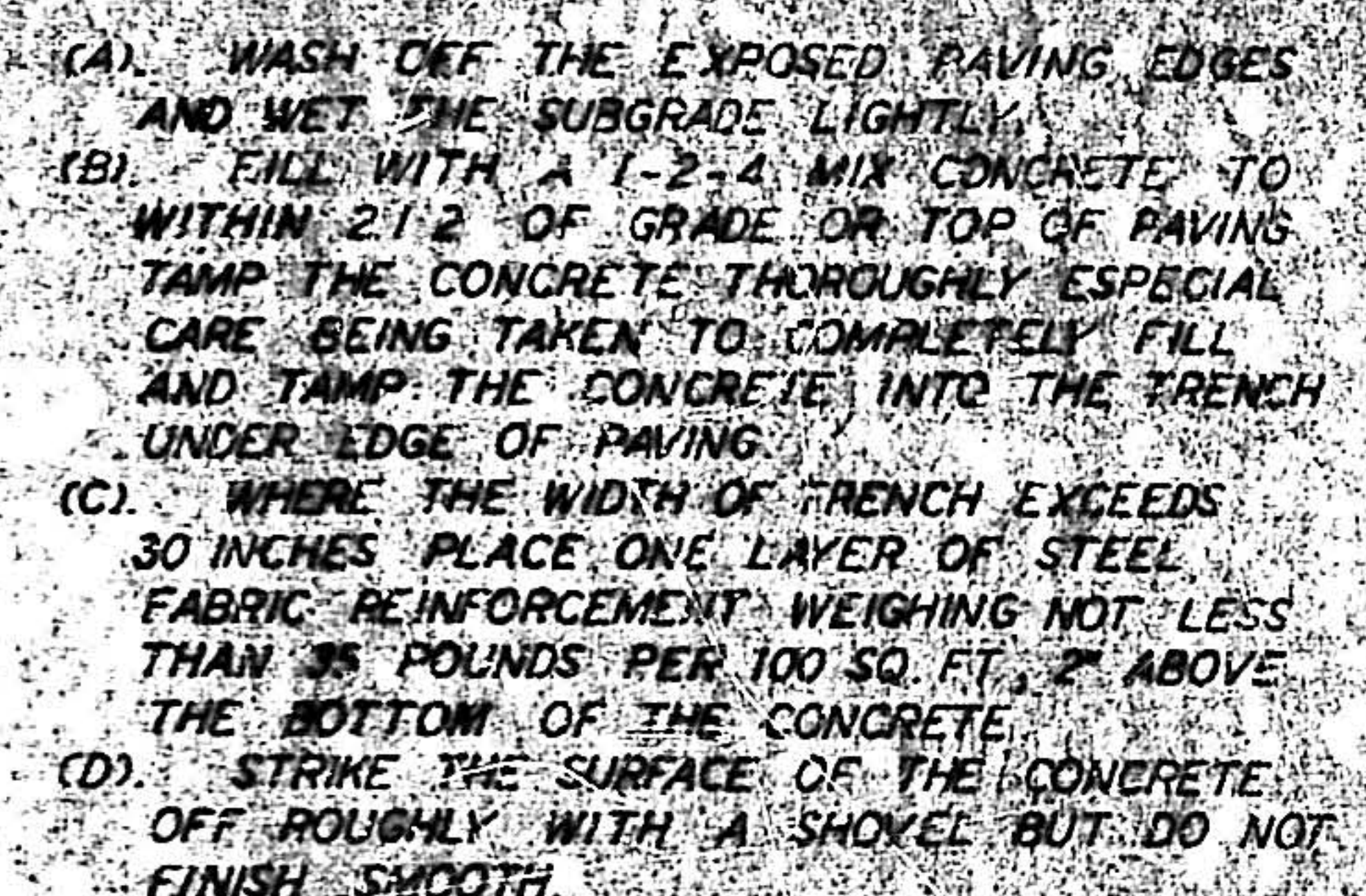
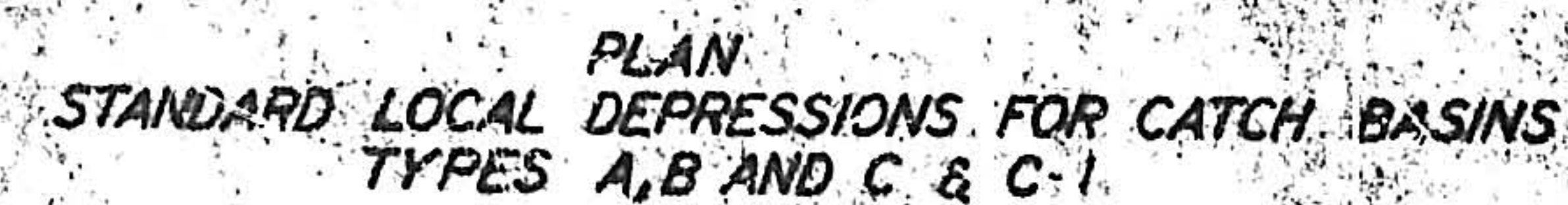


LOCATION OF TYPE 'C' & 'C-1' INLET IN STREET TANGENT

CITY OF ALBUQUERQUE

TYPE A CURB INLET
STANDARD MANHOLE FRAME AND COVER

DESIGNED	COMPUTING ENGINEERS	DATE DESIGN
TRACED	NOV. 1954	NOV. 1954
CHECKED	HERKENHOFF AND TURNER	DATE REVIEW
SCALE	LA HAZIE	SHEET OF 1



NOTE: TO REPAIR CUTS IN PLAIN CONCRETE ALLEY PAVING. PREPARE THE OPENING AS IN STEP 1. FILL WITH 1-2-4 MIX CONCRETE AND FINISH FLUSH WITH TOP OF PAVING.

[illegible]

CITY OF ALBUQUERQUE		
STANDARD METHOD OF REPAIRING CUTS IN PAVEMENTS - ALSO - STANDARD LOCAL DEPRESSIONS FOR CATCH BASINS		
DESIGNED	CONSULTING ENGINEERS	DATE DESIGNED
TRACED		Nov. 35
CHECKED		DATE REVISED
SCALE	HERKENHOFF AND TURNEY	
		8 SHEET OF 8