1

CITY OF
ALBUQUERQUE-NEW MEXICO

STORM SEWER PROJECT

OCTOBER . 1950

CITY MANAGER
CHAS. E. WELLS

CITY ENGINEER
E.O. BETTS

CHAIRMAN
ERNEST W. EVERLY

COMMISSIONERS
J.A. GILBERT
DON WILSON
PAUL BATSEL
CLYDE TINGLEY

CONSULTING ENGINEERS

HERKENHOFF AND TURNEY
SANTA FE

EDMUND ROSS
ALBUQUERQUE

HASIE AND GREEN
ALBUQUERQUE

INDEX SHEET

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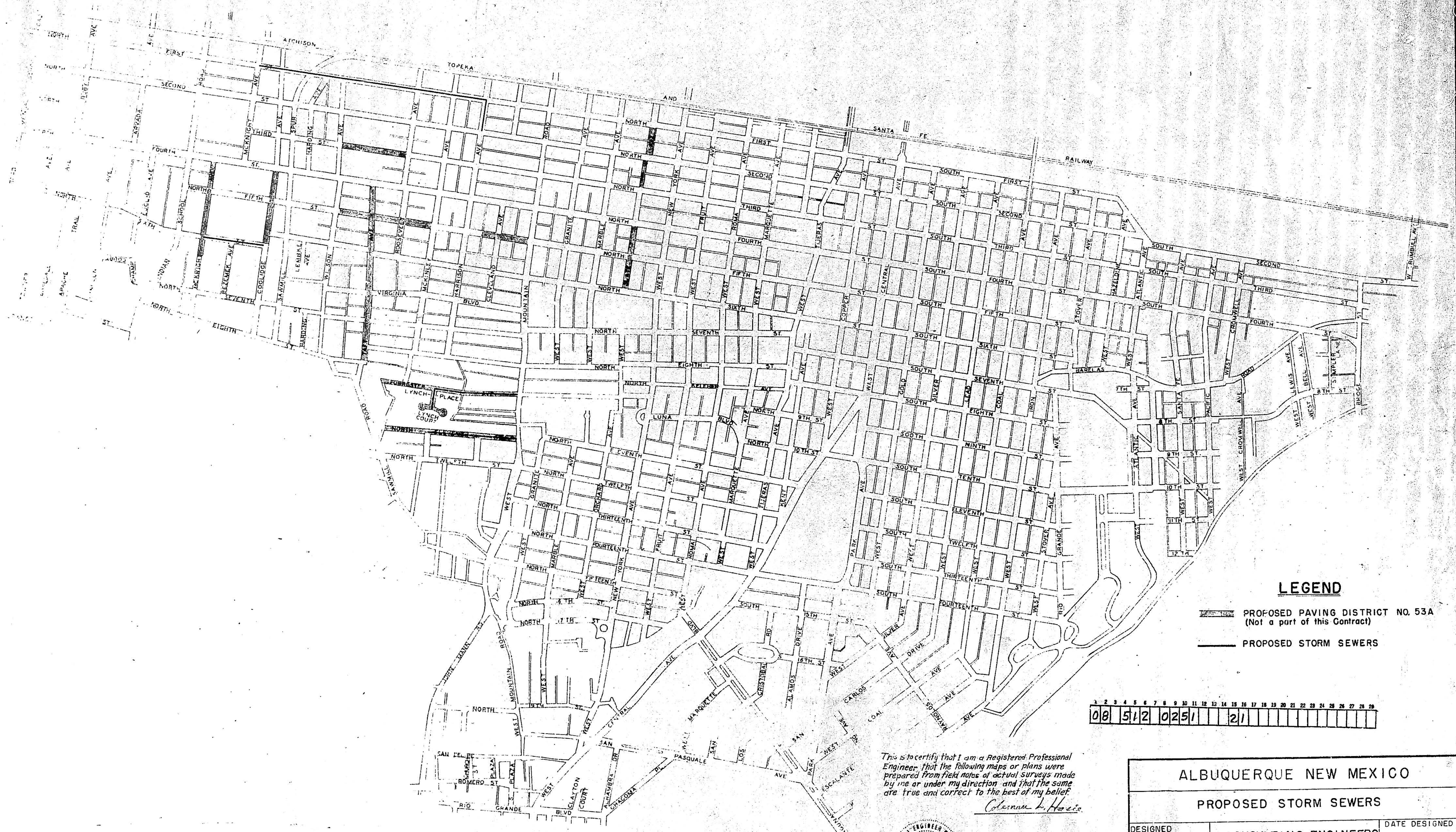
4. STANDARD MANHOLE DESIGNS
5. TYPE A CURB INLET-STANDARD MANHOLE FRAME AND COVER
6. STANDARD METHOD OF REPAIRING CUTS IN PAVEMENT-ALSO-STANDARD LOCAL DEPRESSIONS FOR CATCH BASINS
7&8. STORM SEWER LINE-PLAN PROFILE

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
0	8		5	1	2		0	1	5	1				2	0													

N 1st, 6th, 11th & Forrester

SHT 1



LEGEND

▨ PROPOSED PAVING DISTRICT NO. 53A (Not a part of this Contract)

— PROPOSED STORM SEWERS

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
0	8		5	1	2		0	2	5	1				2	1													

This is to certify that I am a Registered Professional Engineer, that the following maps or plans were prepared from field notes of actual surveys made by me or under my direction and that the same are true and correct to the best of my belief.

Coleman L. Hasie

NO. 481

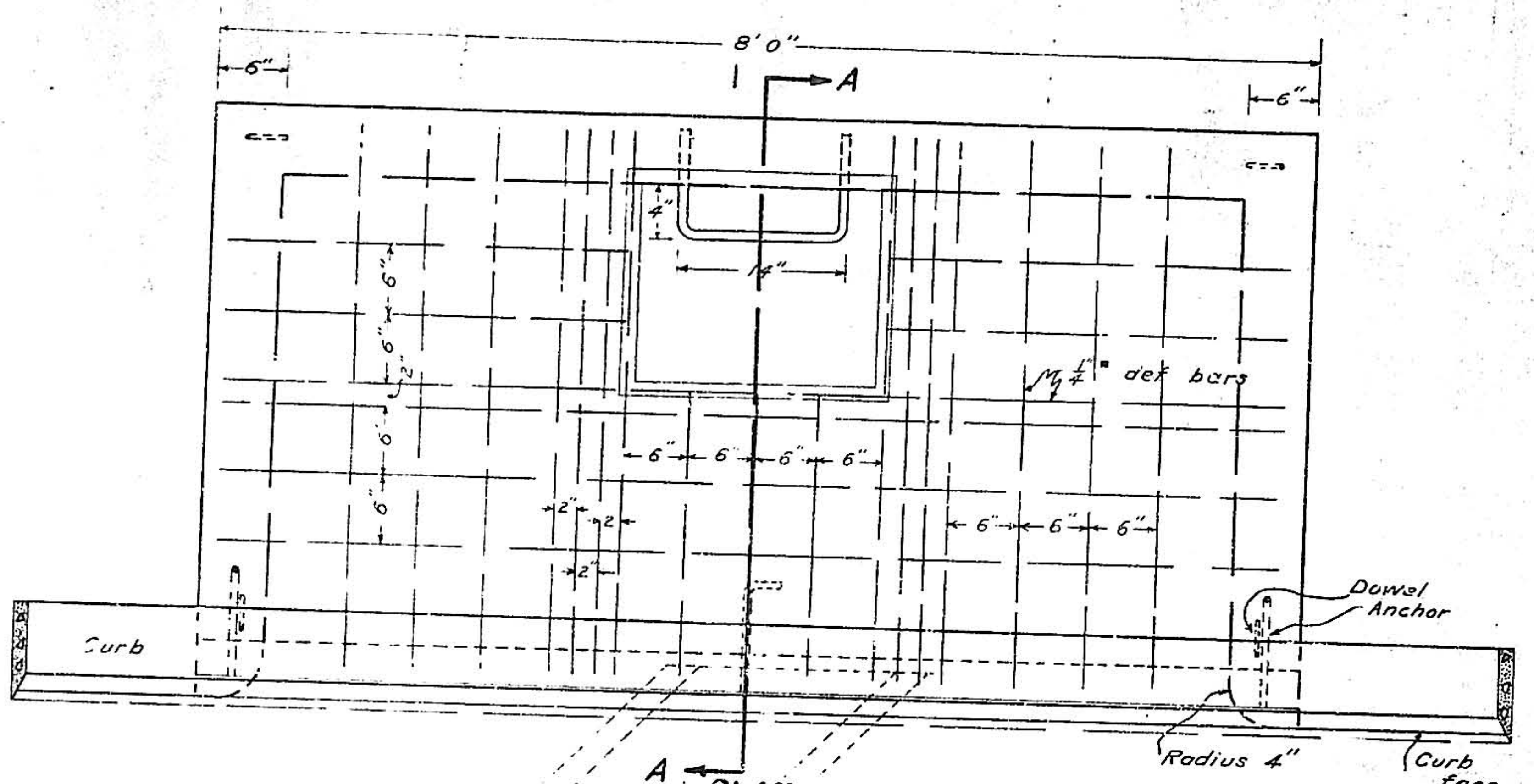
ALBUQUERQUE NEW MEXICO

PROPOSED STORM SEWERS

DESIGNED
TRACED
CHECKED
SCALE 1" = 500'

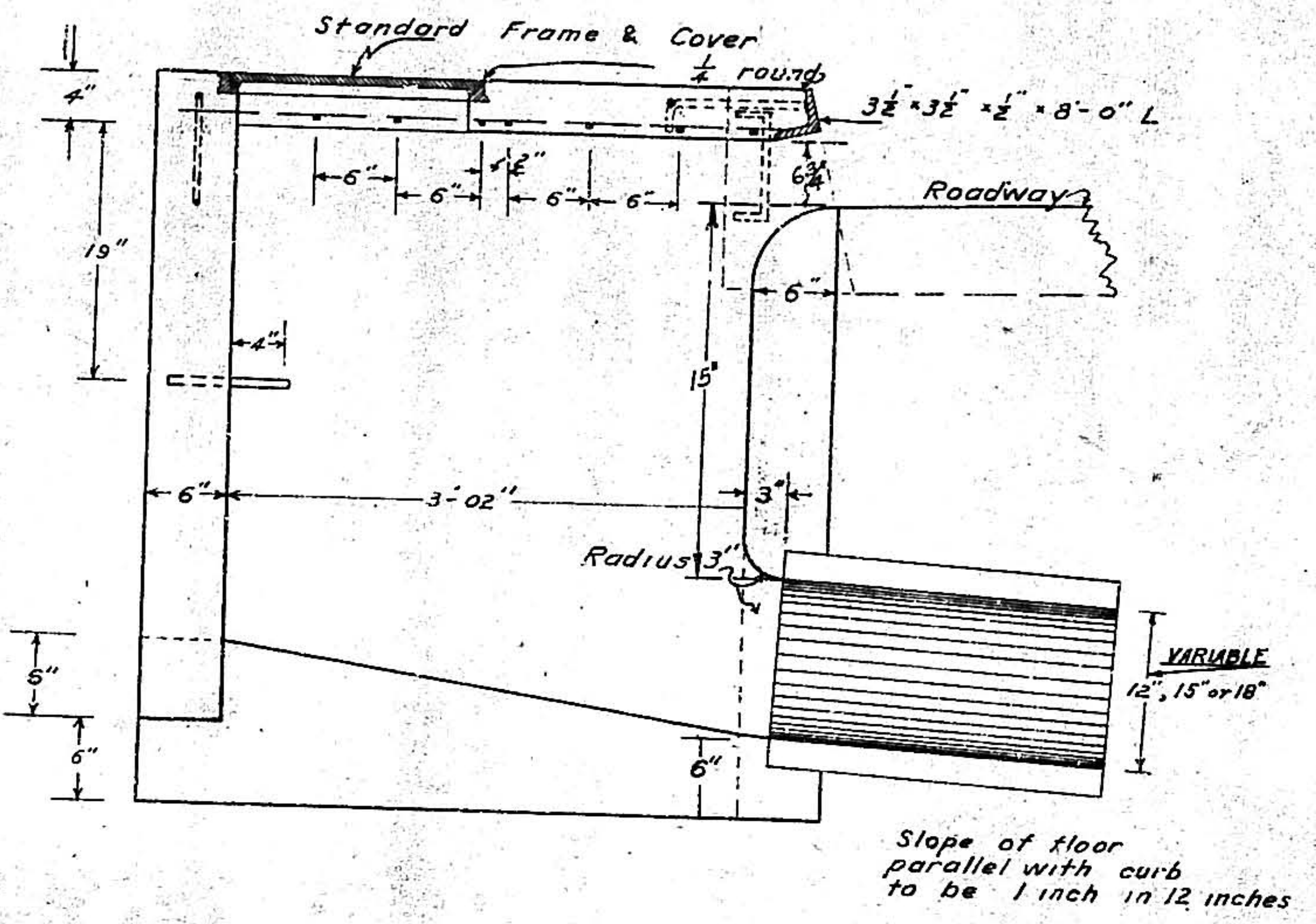
CONSULTING ENGINEERS
HASIE AND GREEN
HERKENHOFF AND TURNEY
EDMUND ROSS

DATE DESIGNED
DATE REVISED
SHEET 2 OF 8



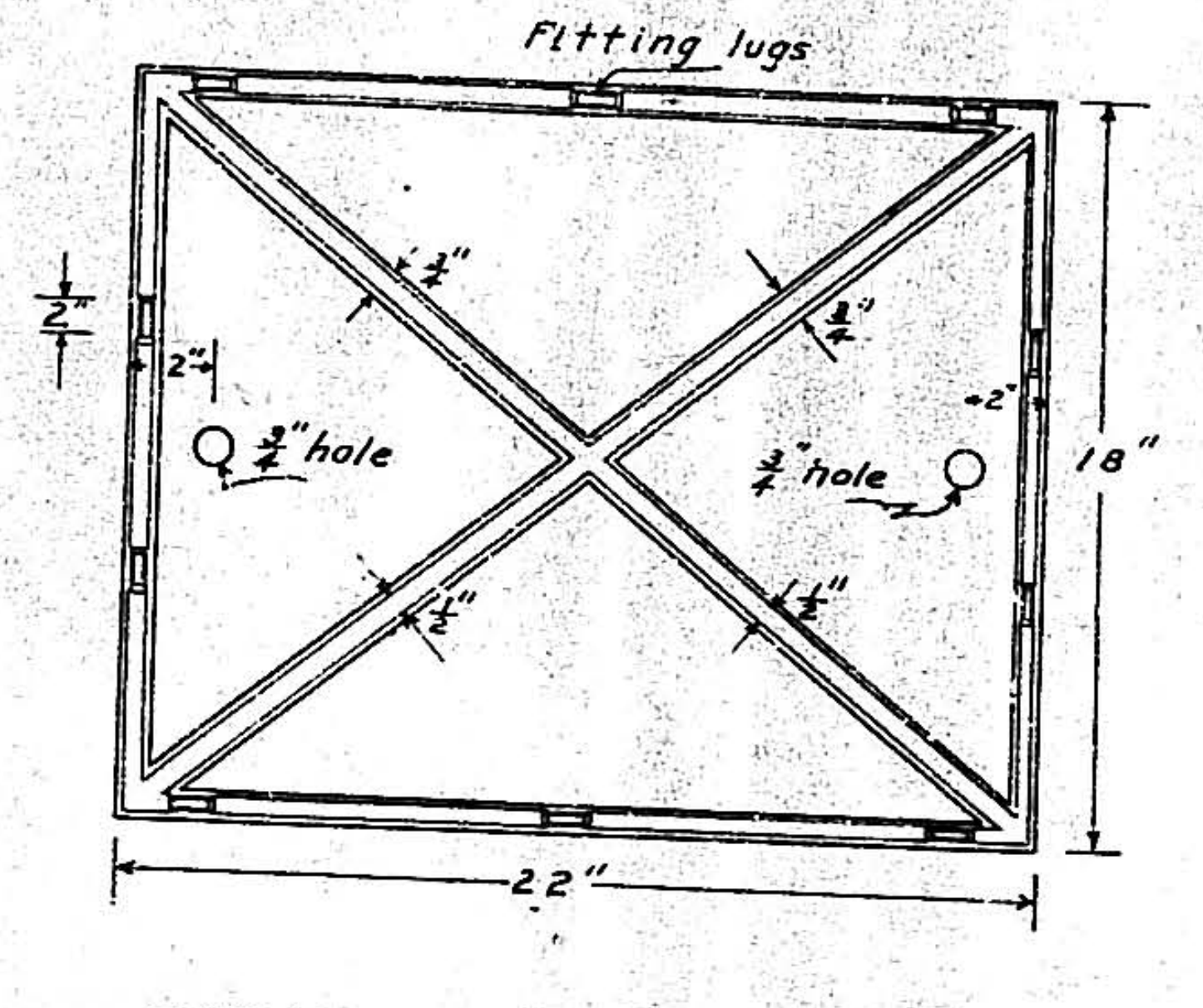
PLAN
STANDARD CATCH BASIN – TYPE B.
SCALE: 1 INCH = 1 FOOT

STEEL LIST
1 - 3½"×3½"×½" × 8'-0" L
14 - ½" def. bars 3'11" long
3 - ½" " " 2'0" "
6 - ½" " " 1'10" "
4 - Dowels - see detail
3 - Anchors " "
1 - Step - ¾" round - see plan

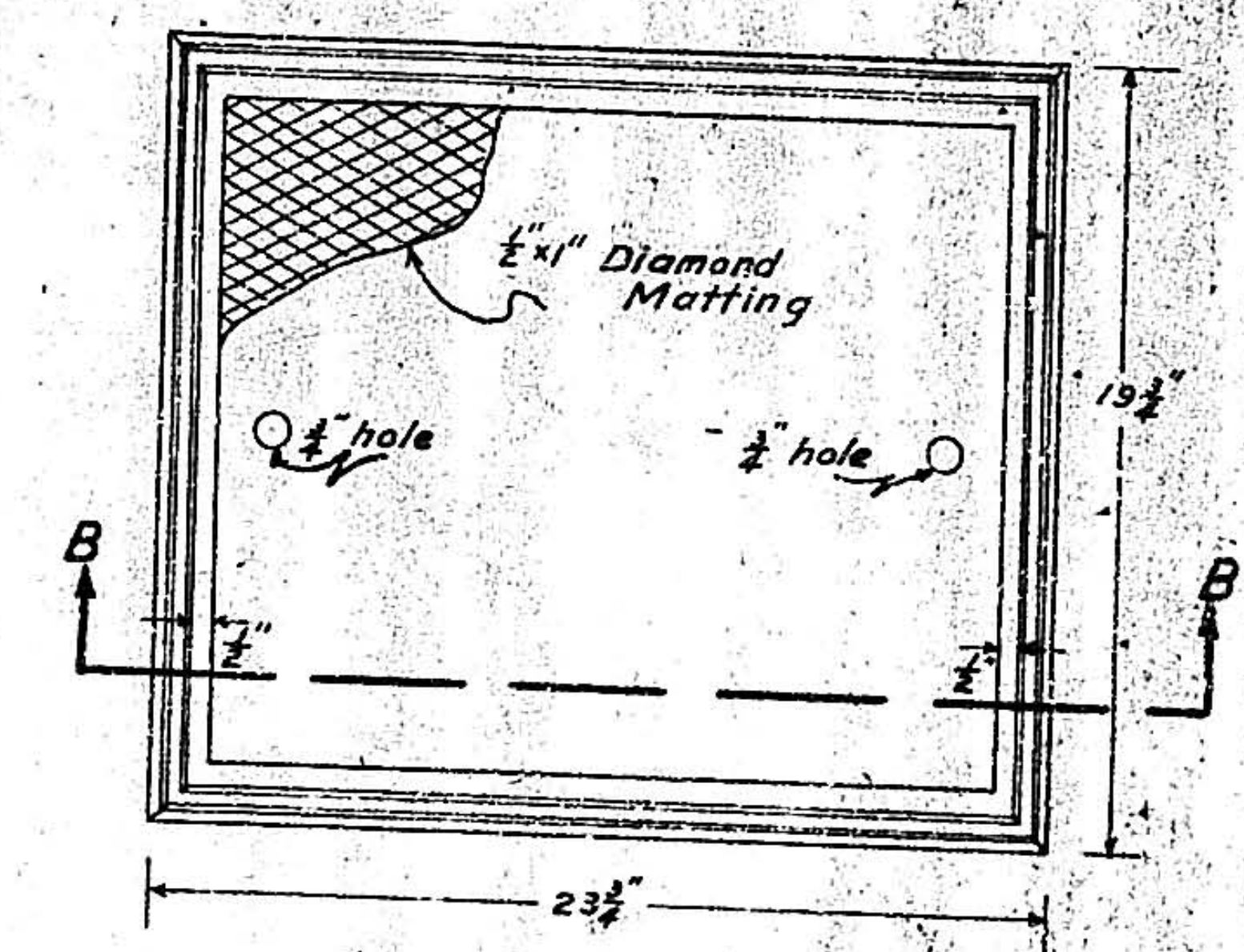


Slope of floor parallel with curb to be 1 inch in 12 inches

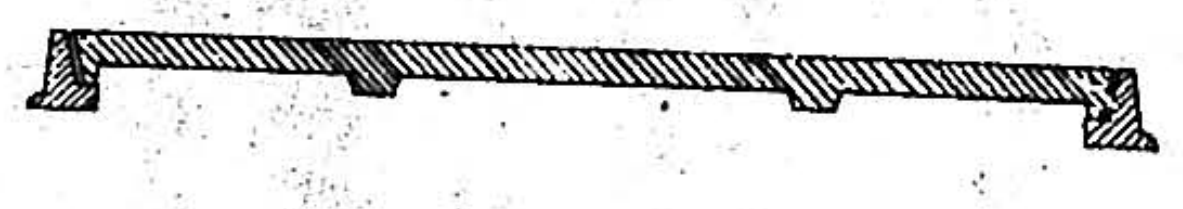
SECTION A-A



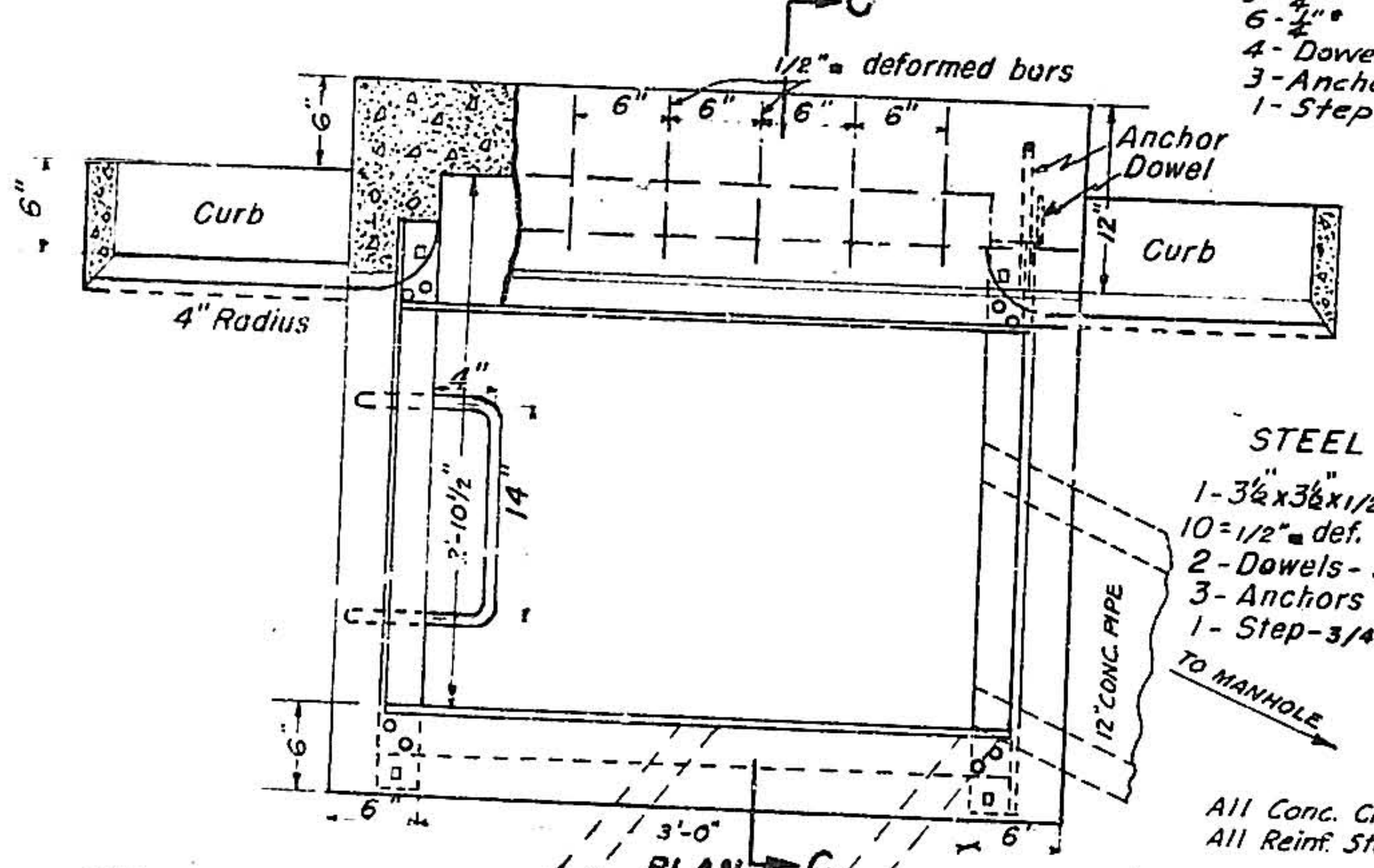
BOTTOM PLAN OF COVER
Scale 1" = 6"



PLAN OF FRAME AND COVER



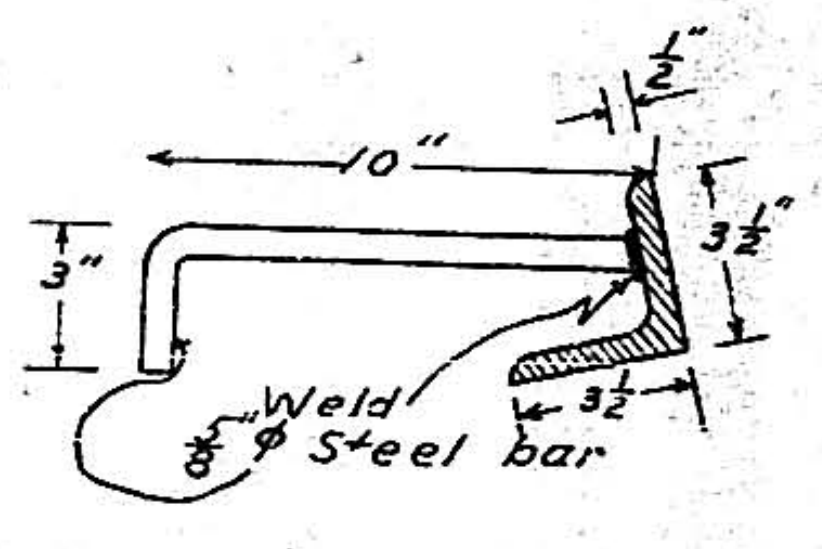
SECTION B-B



STEEL LIST
1 - 3½"×3½"×1/2" × 4'-6" L
10 - 1/2" def. bars 11" long
2 - Dowels - see detail
3 - Anchors " "
1 - Step - 3/4" round - see detail

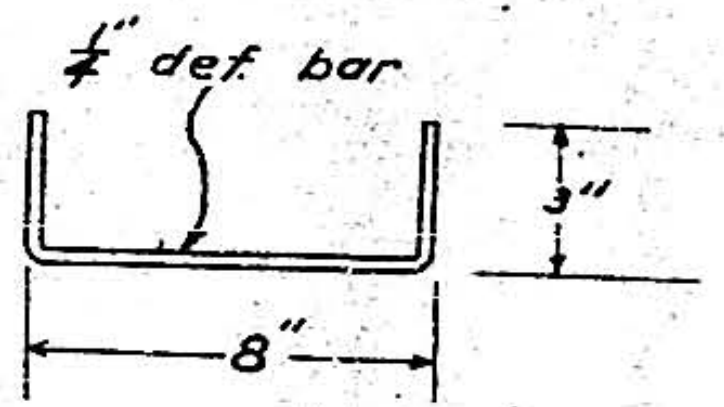
All Conc. Class "B" 3000#
All Reinf. Steel 18,000#

PLAN
SINGLE GRATE INLET & CATCH BASIN – TYPE "C" - ONE-HALF STANDARD SIZE
SCALE: 1 INCH = 1 FOOT

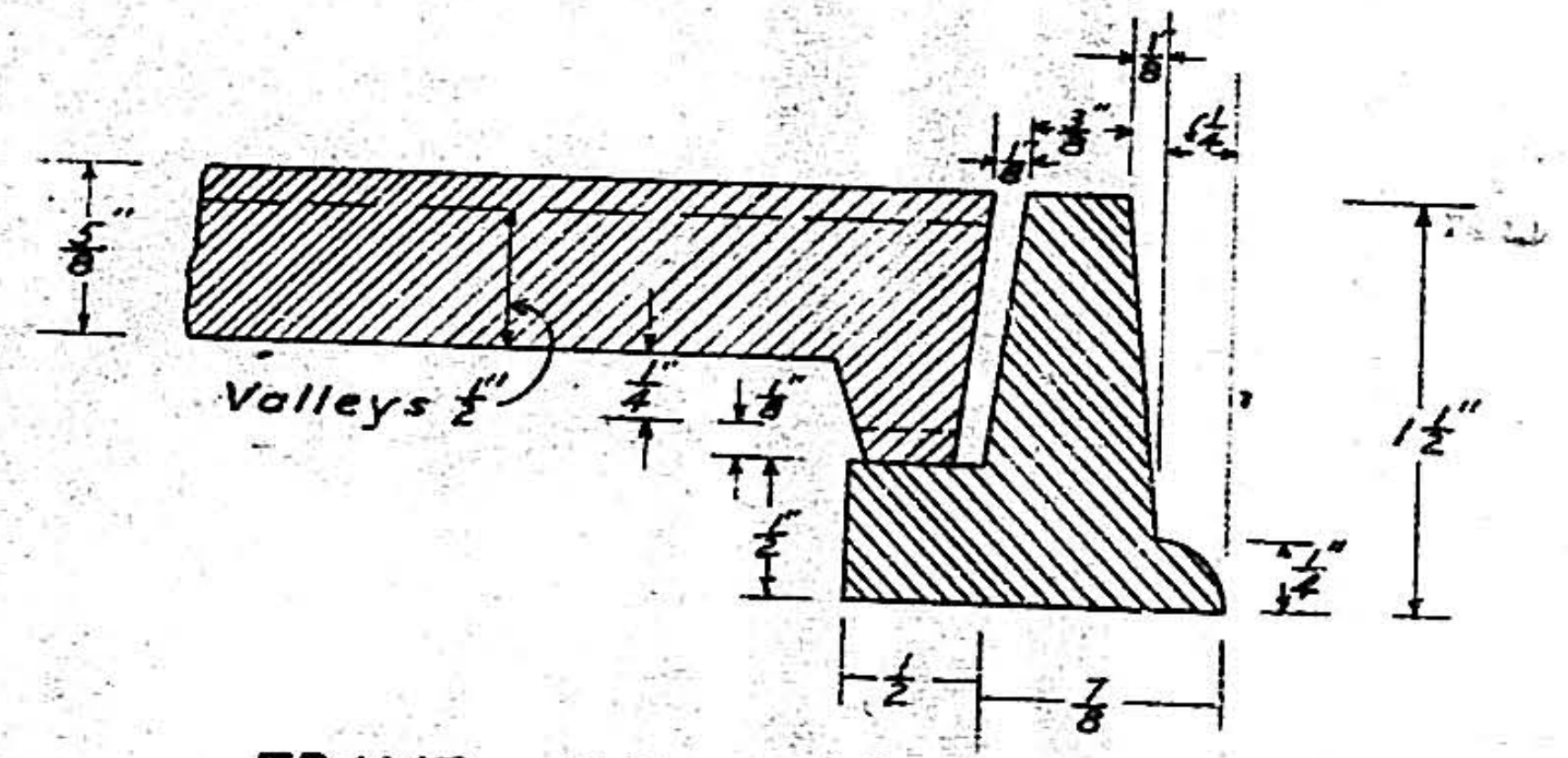


Dowel and anchor design are identical for both types of catch basins

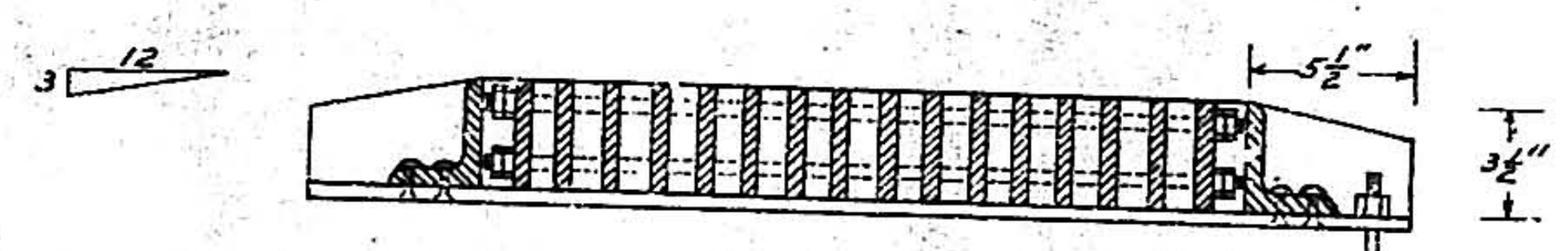
DETAIL OF ANCHOR



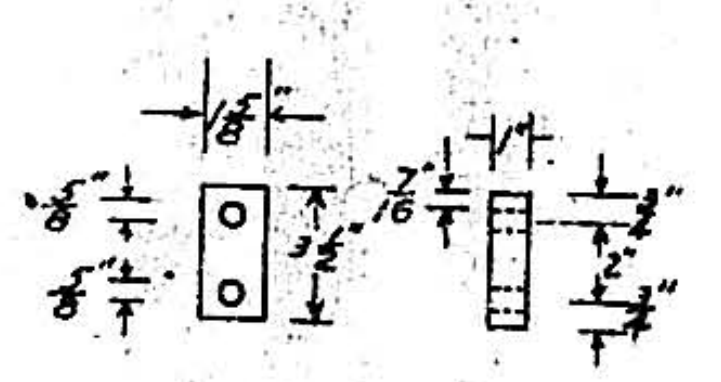
DETAIL OF DOWEL
To be used when top is poured separate



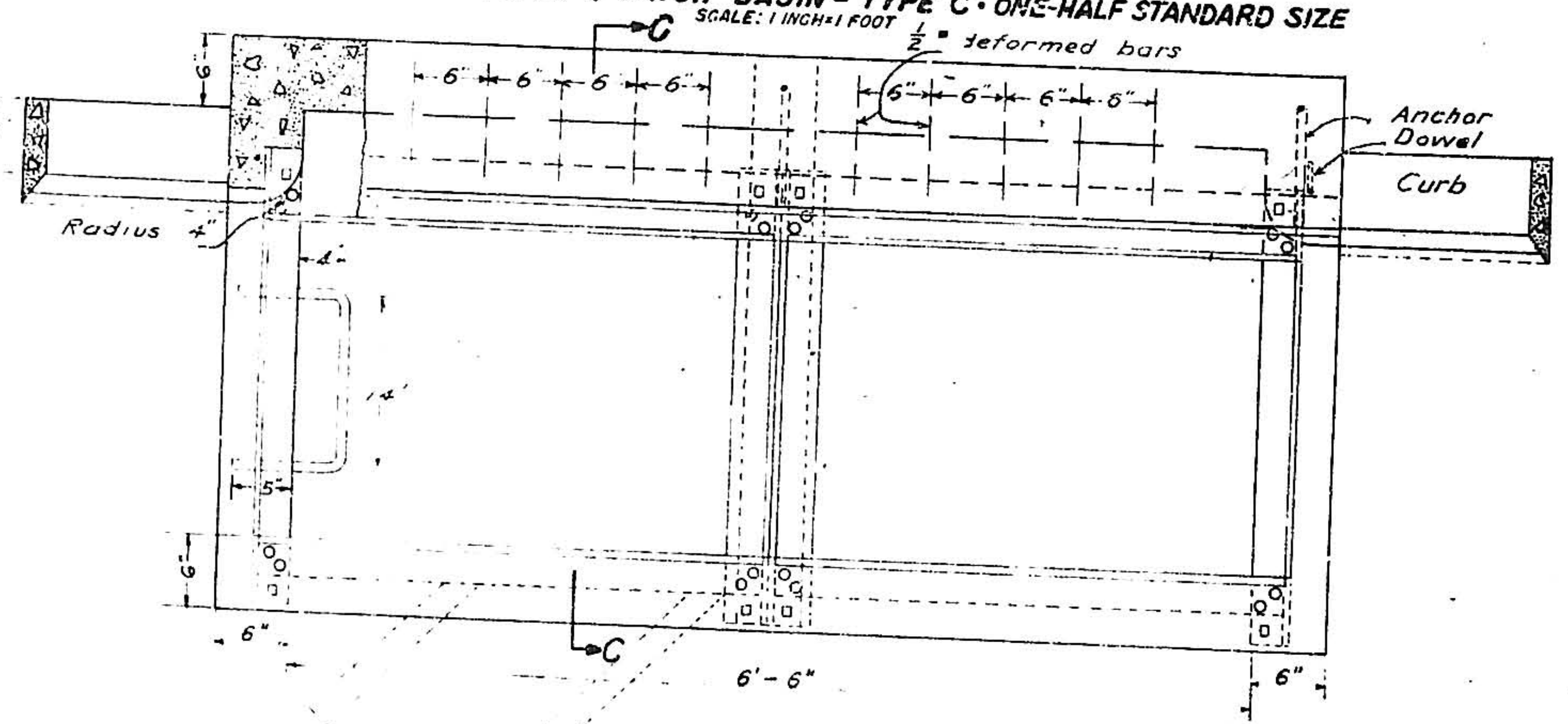
FRAME AND COVER CONNECTION
Scale 1" = 1"



SECTION D-D

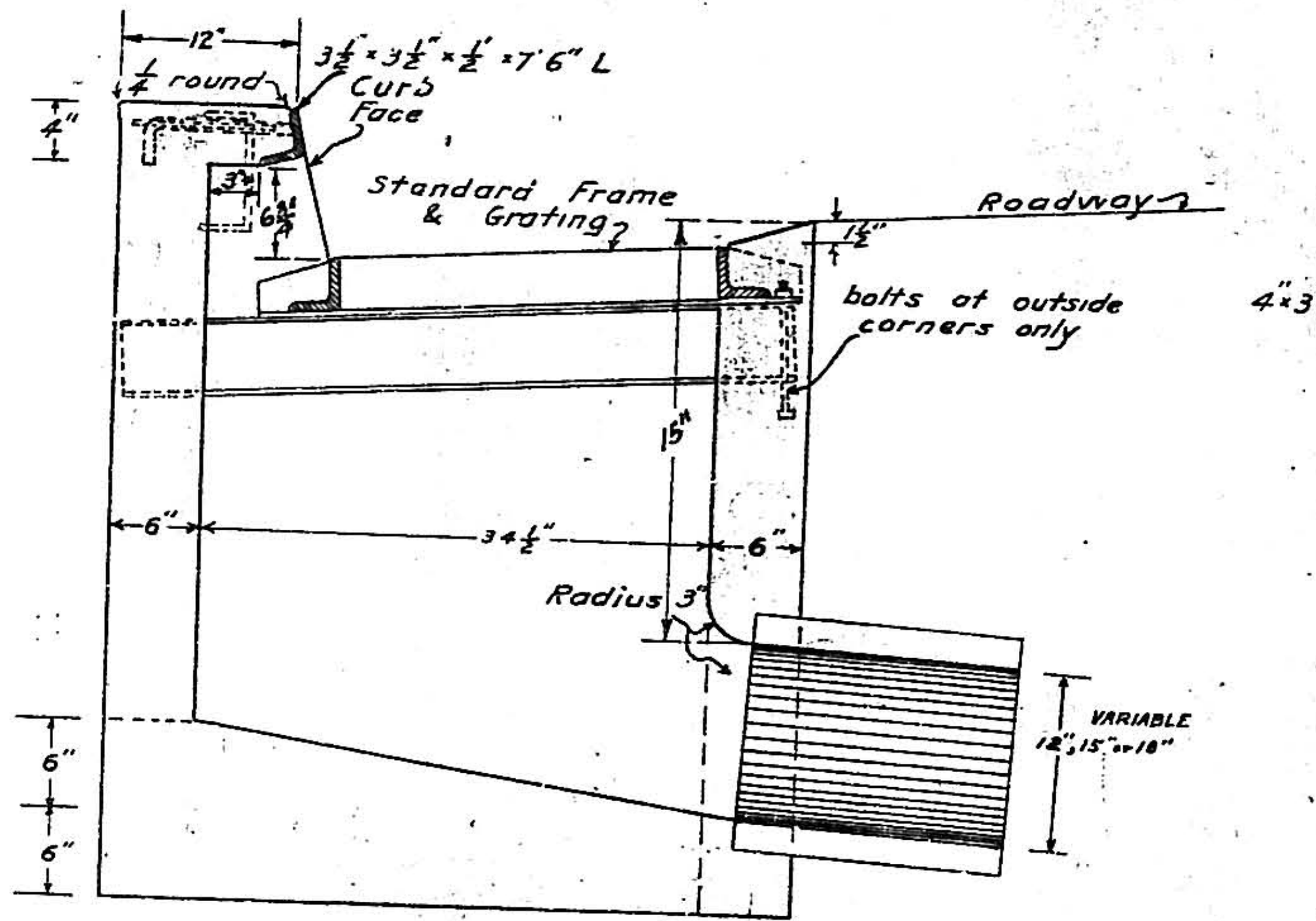


SPACER

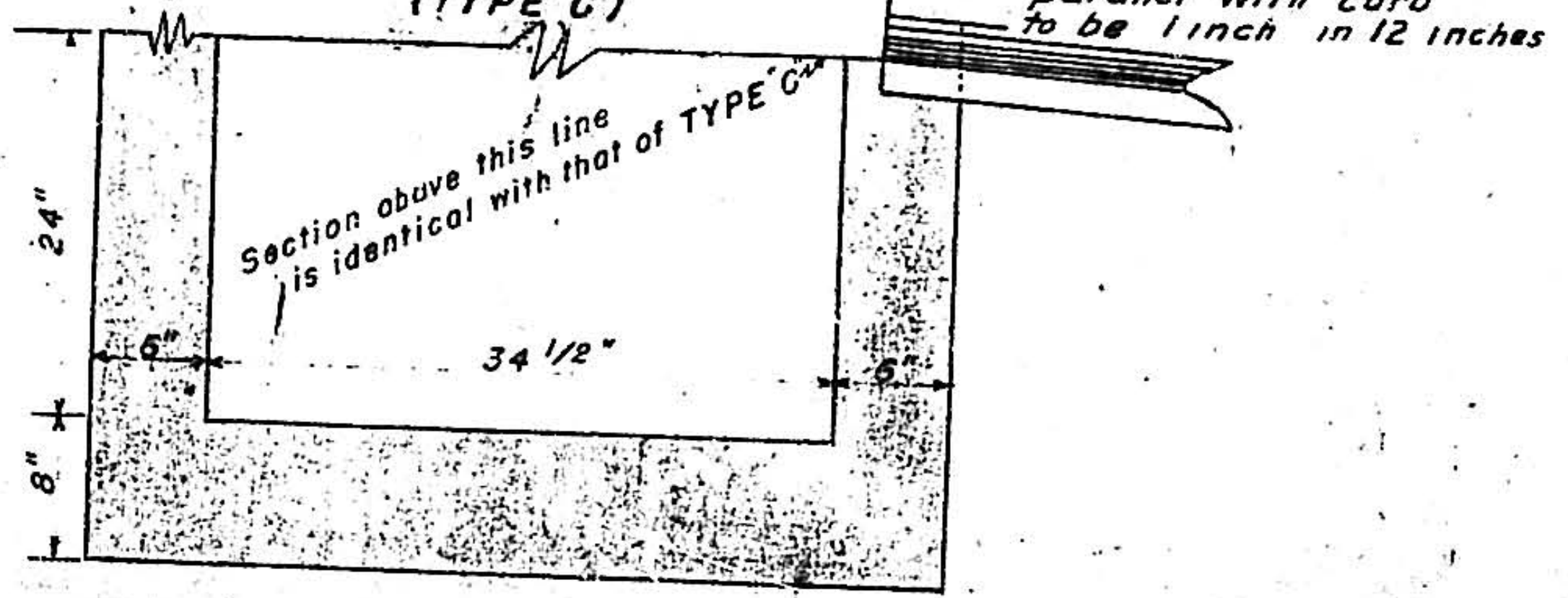


STEEL LIST
1 - 3½"×3½"×½" × 7'6" L
10 - ½" def bars 11" long
2 - Dowels - see detail
3 - Anchors - " "
1 - Step - ¾" round - see plan

PLAN
DOUBLE GRATE STANDARD CATCH BASIN – TYPE C
Scale 1" = 12"

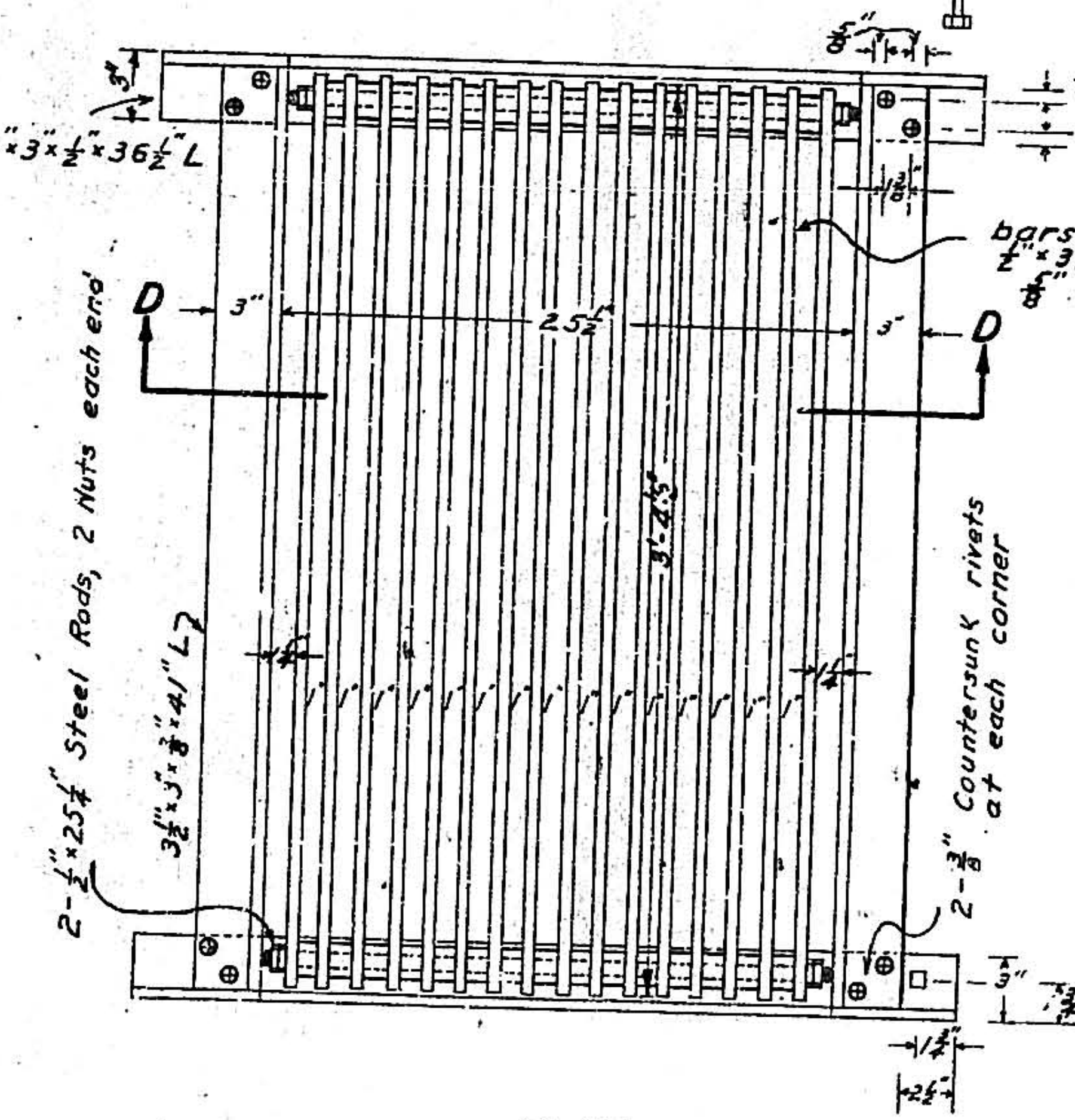


SECTION C-C
(TYPE C)



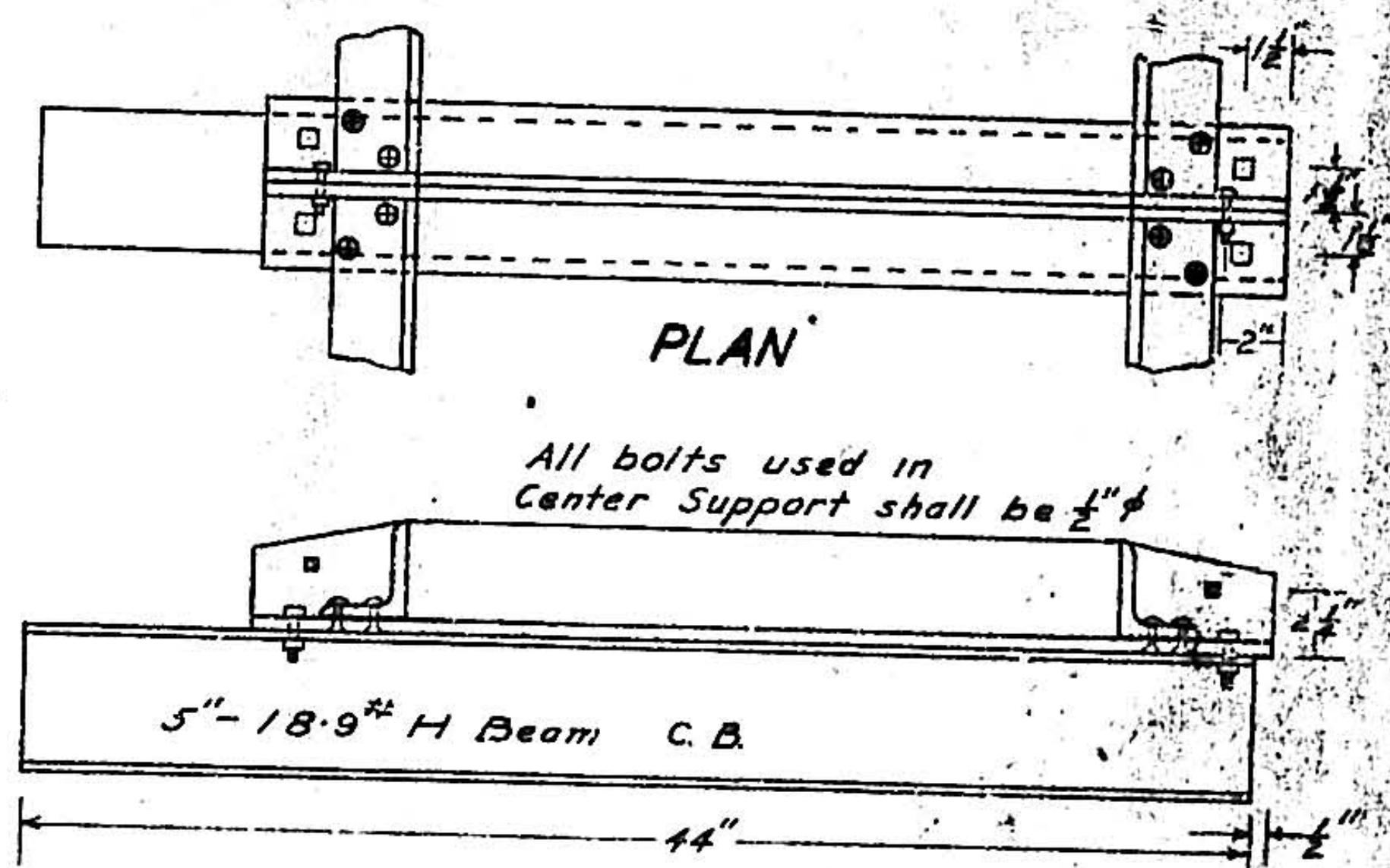
Slope of floor parallel with curb to be 1 inch in 12 inches

SECTION C-C
(TYPE C-1)


4"×3"×½"×36½" L
bars ½"×3½"×40⅝"
⅝" holes
D
D
25½"
2-½"×25¾" Steel Rods, 2 Nuts each end
Countersunk rivets at each corner

PLAN
STANDARD FRAME AND GRATING
Scale ⅛" = 1"

NOTE: APPROVED EQUAL CAST IRON GRATE AND FRAME PERMISSIBLE



PLAN

ELEVATION

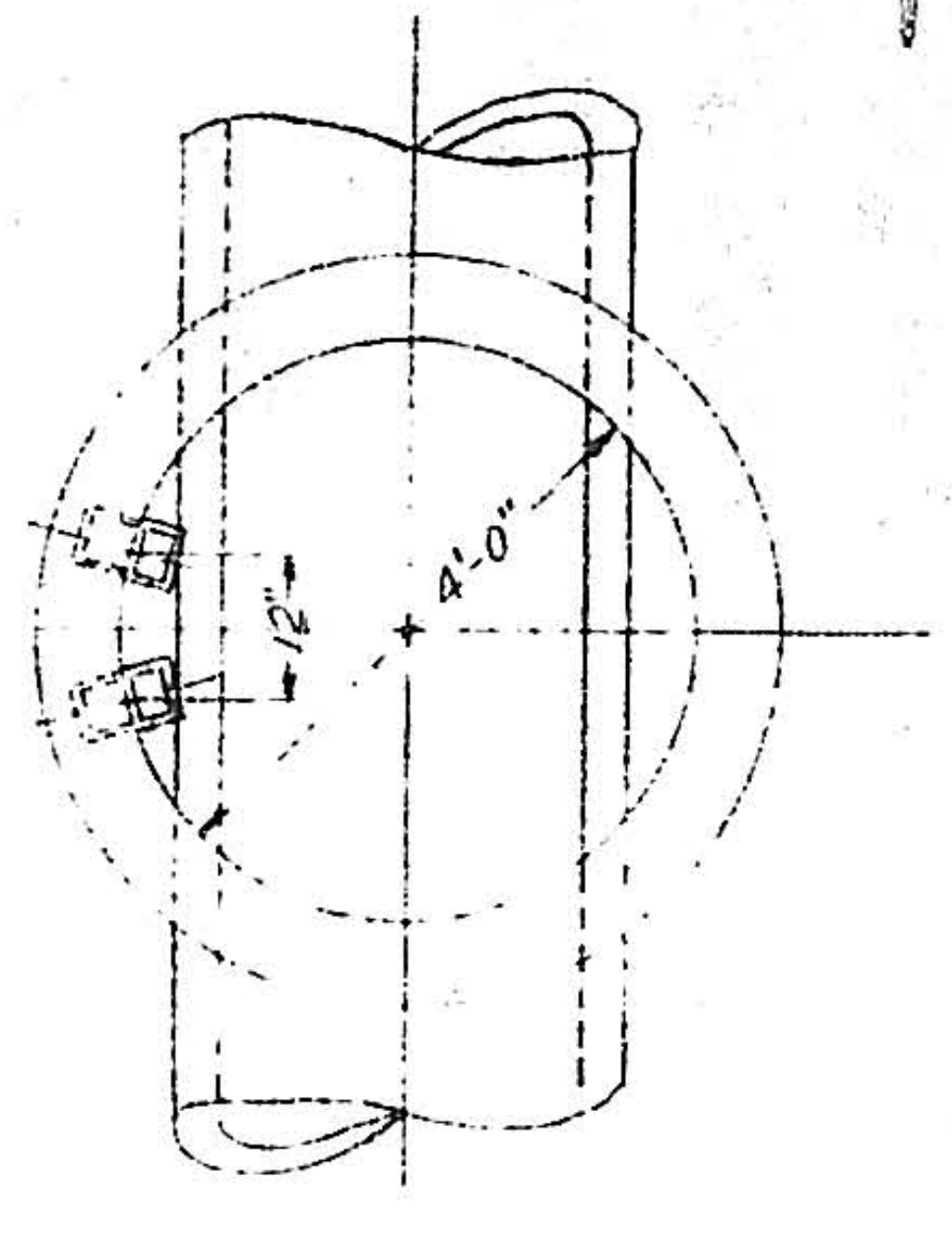
CENTER SUPPORT ASSEMBLY

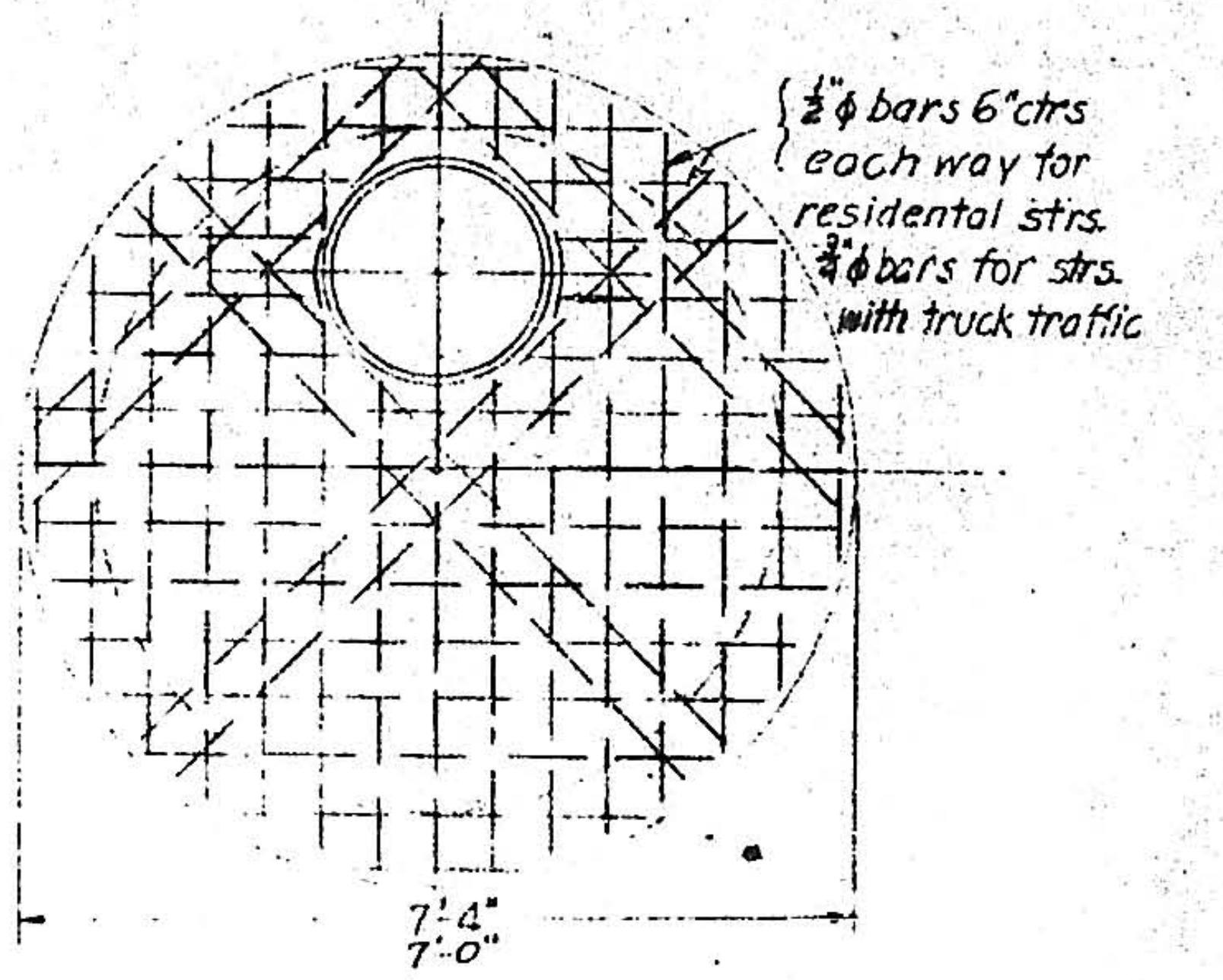
08 512 0351 10

CITY OF ALBUQUERQUE

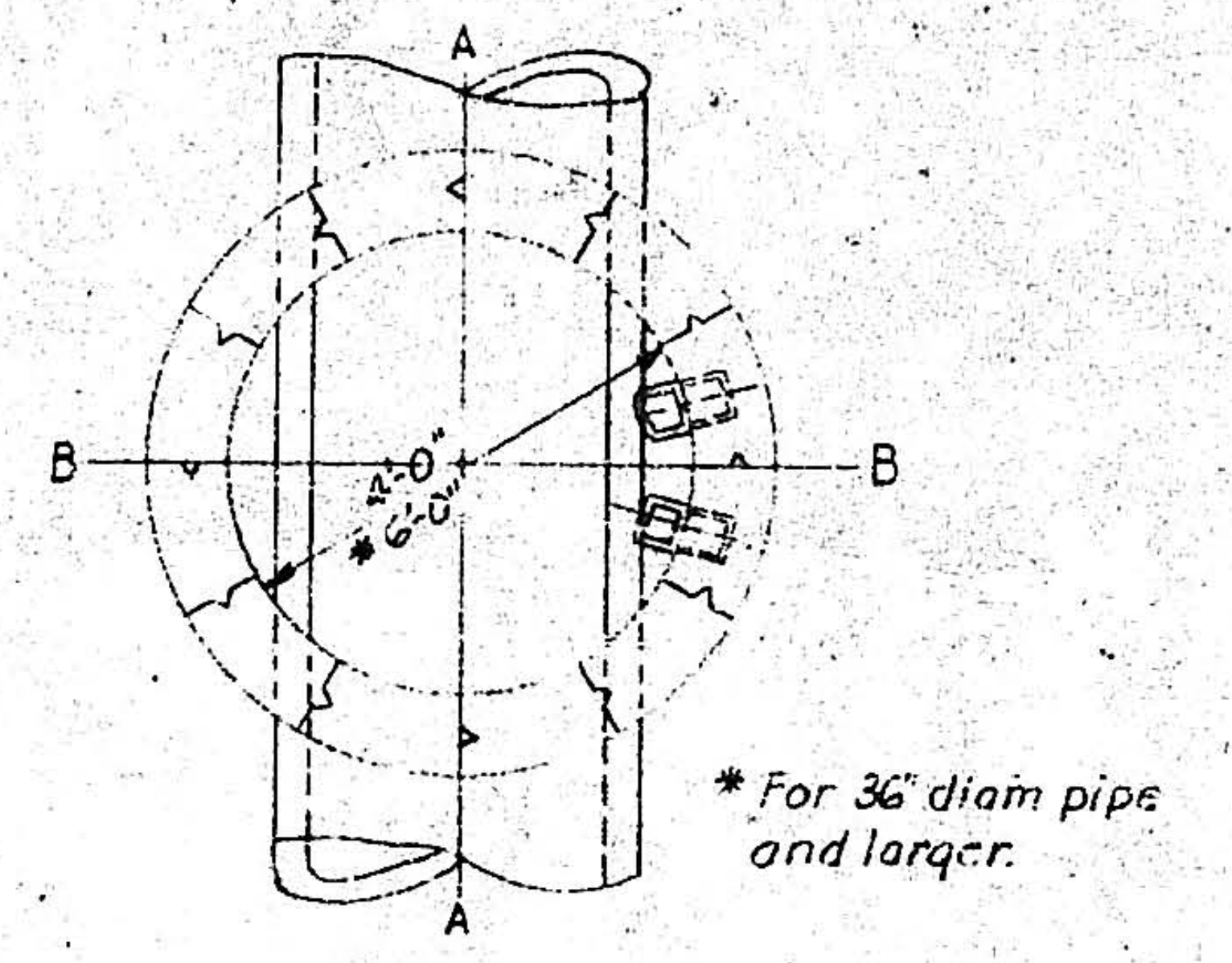
STANDARD CATCH BASINS, TYPES B&C, C-1
AND APPURTENANCES

DESIGNED TRACED CHECKED SCALE	CONSULTING ENGINEERS HASIE AND GREEN HERKENHOFF AND TURNEY EDMUND ROSS	DATE DESIGNED DATE REVISED SHEET 3 OF 8

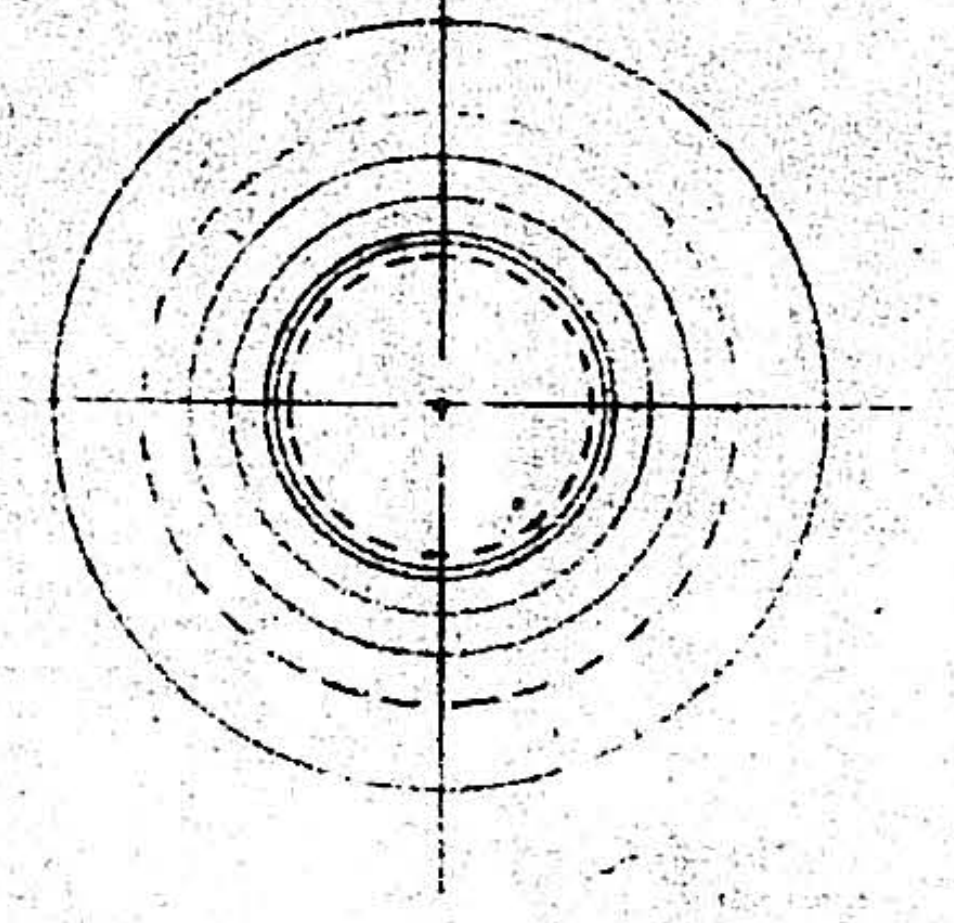


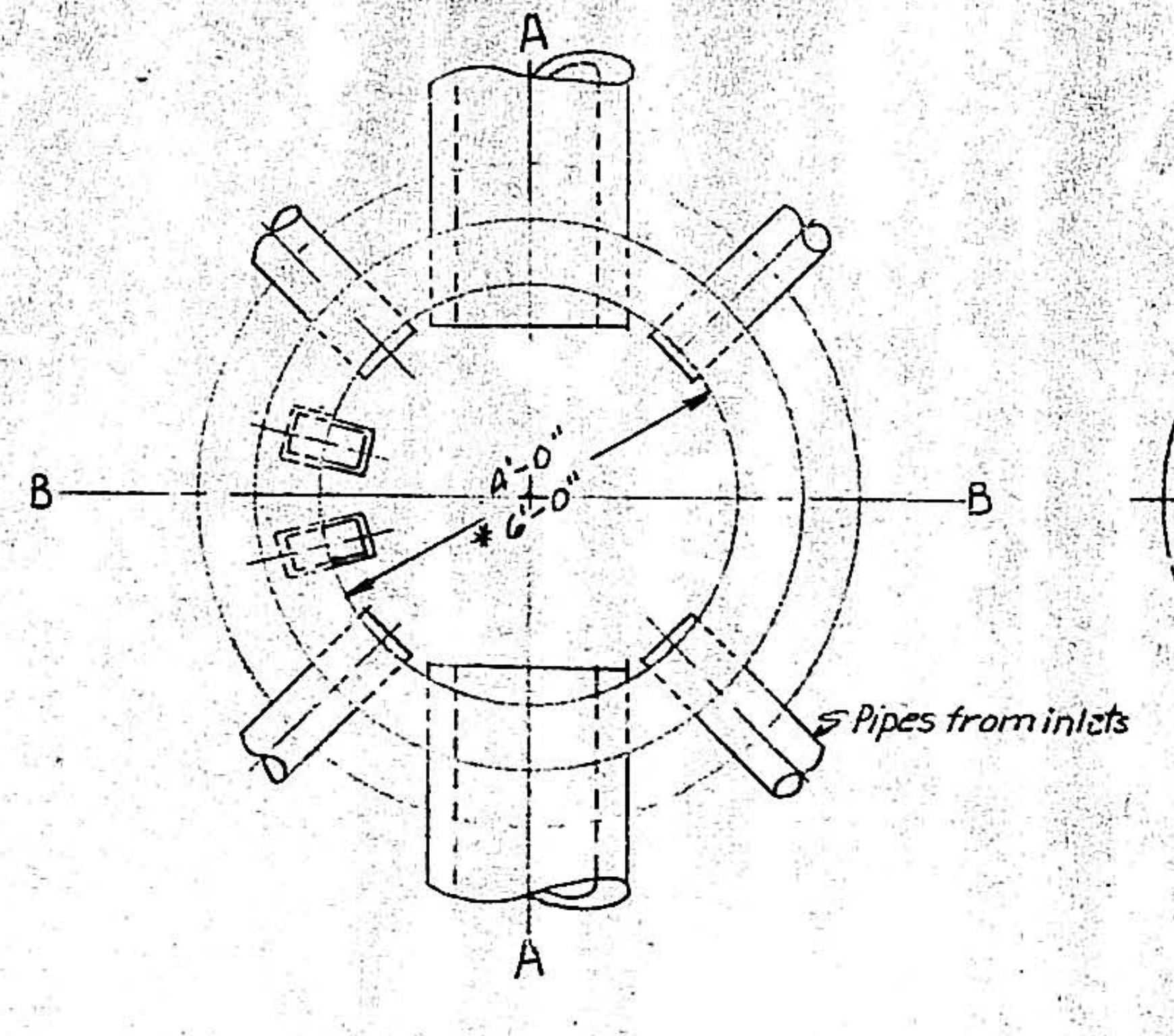

$\frac{1}{2}$"φ bars 6" ctrs each way for residental strs.
$\frac{3}{4}$"φ bars for strs. with truck traffic
7'-4"
7'-0"

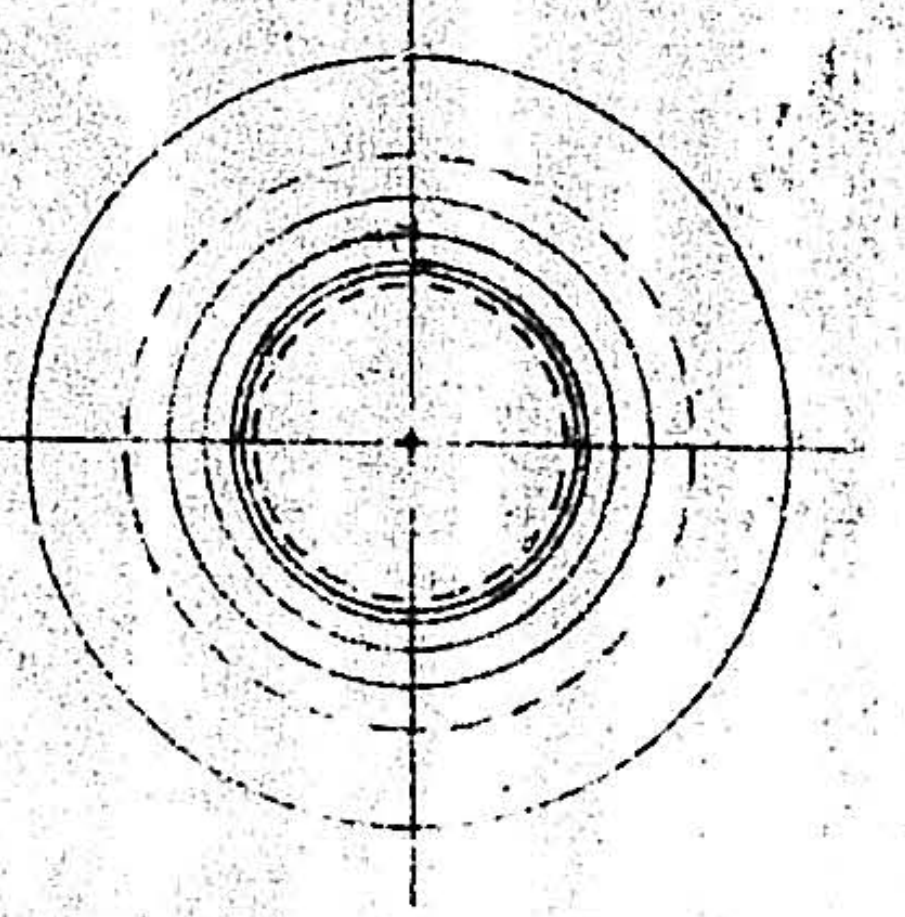
PRECAST CONC COVER

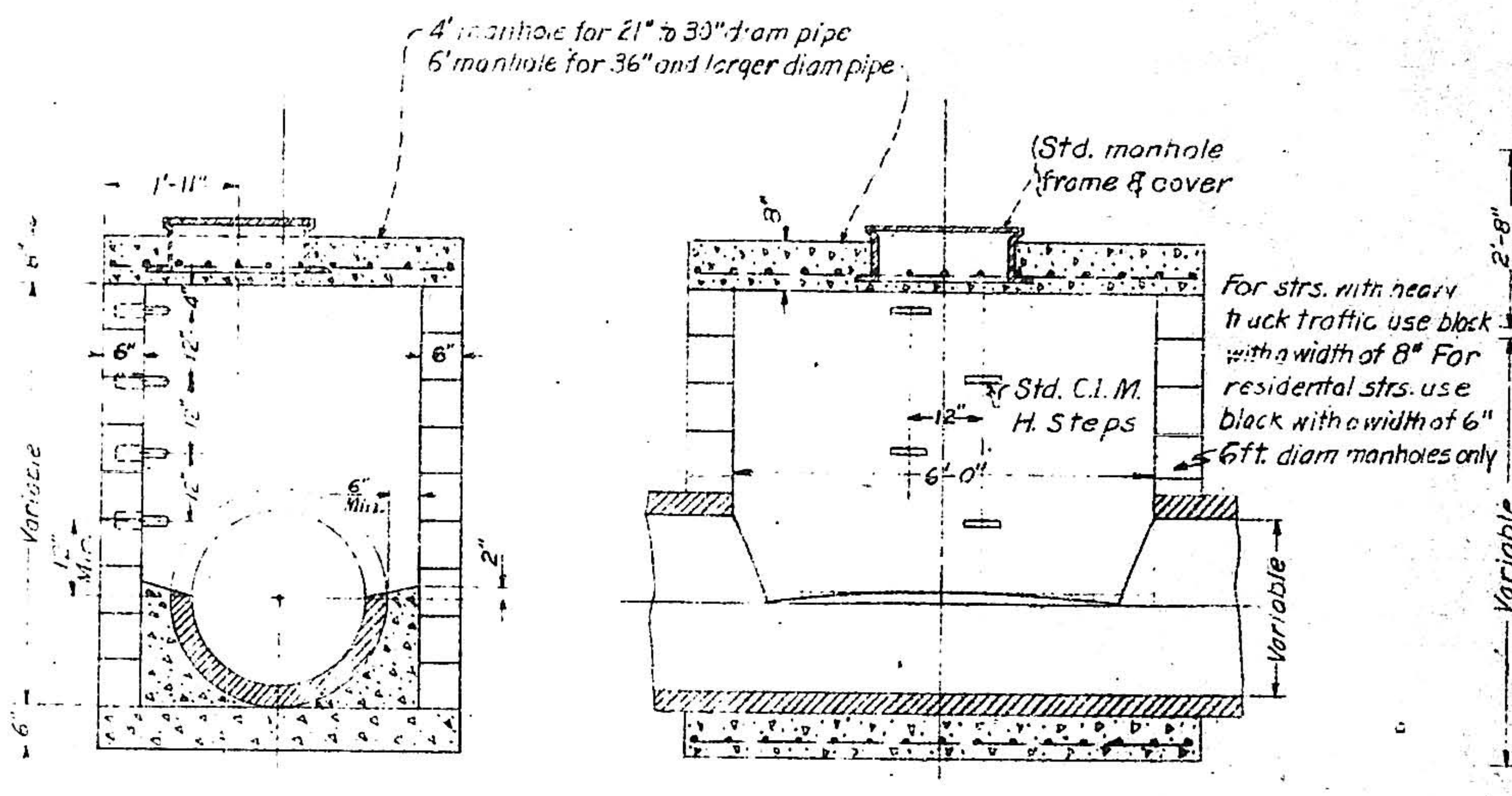


SECTION PLAN





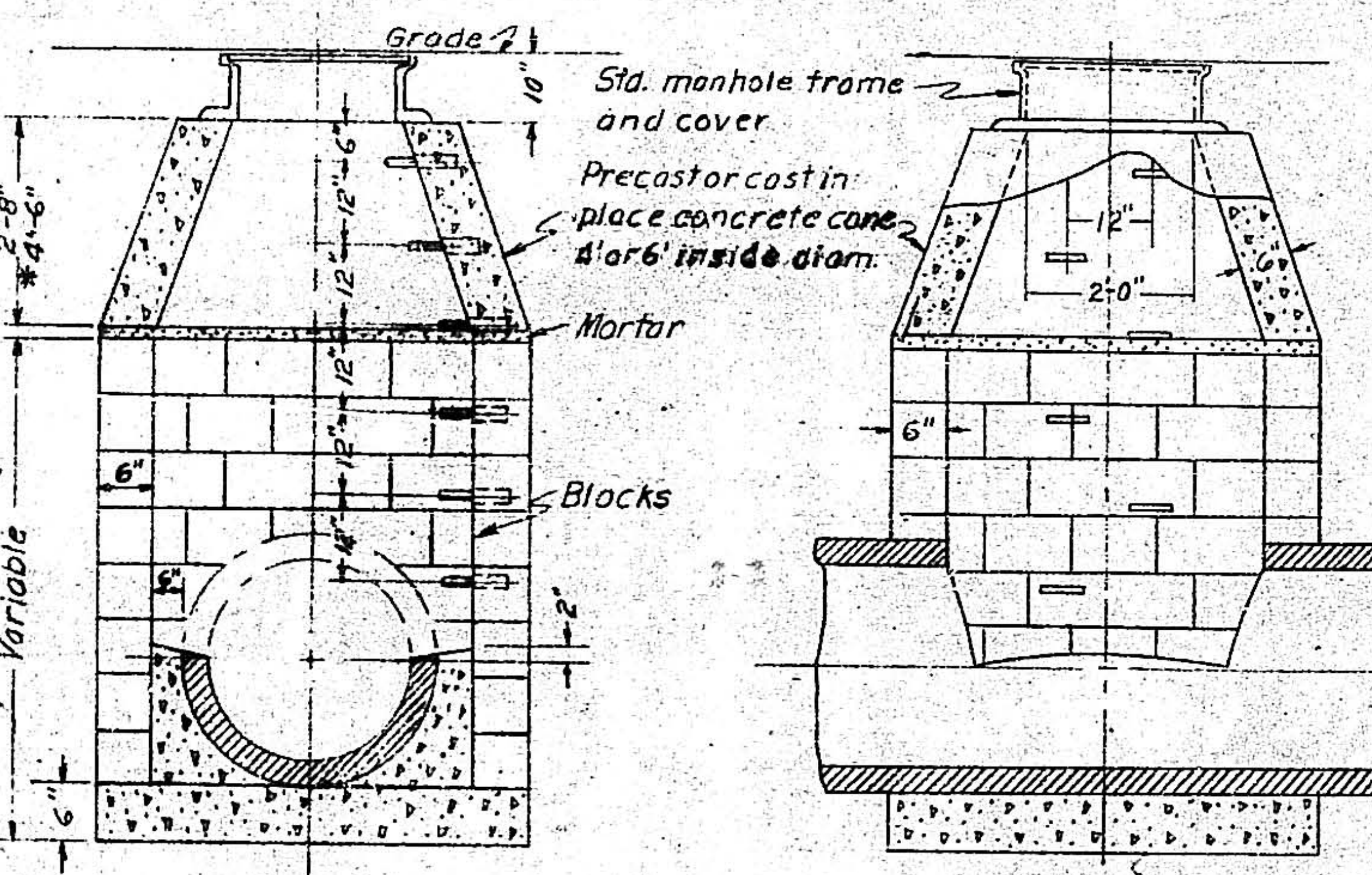



4' manhole for 21" to 30" diam pipe
6' manhole for 36" and larger diam pipe
1'-11"
6"
12"
Variable
2"
Std. manhole frame & cover
12"
6'-0"
Std. C.I.M. H. Steps
For strs. with heavy truck traffic use block with a width of 8" For residential strs. use block with a width of 6"
6 ft. diam manholes only
Variable

SECT. 4 FOOT M.H.

SECT. 6 FOOT M.H.

STANDARD STORM SEWER MANHOLE TYPE "A"

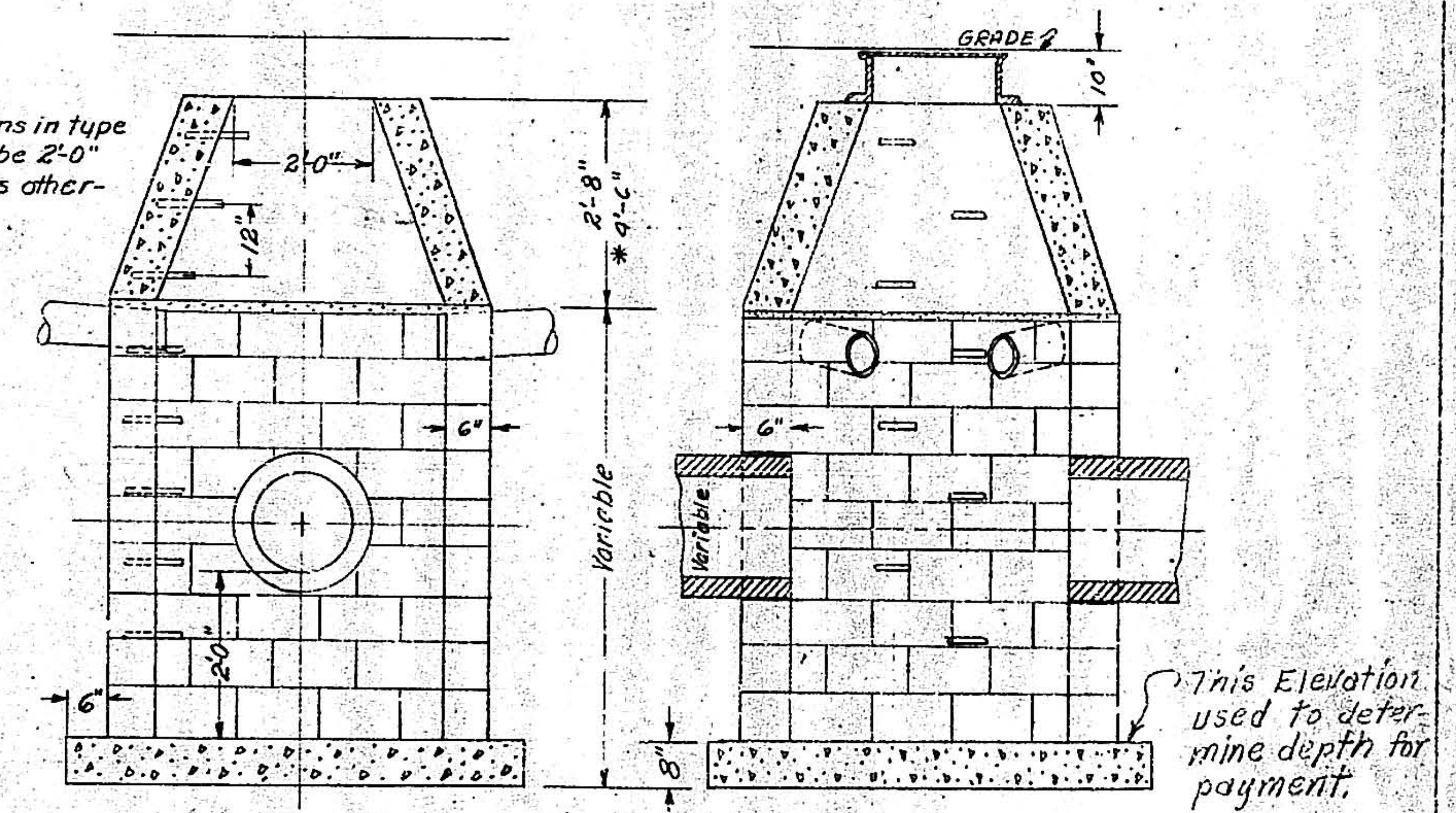

Grade
2'-8"
* 4'-6"
10"
12"
Std. manhole frame and cover
Precast or cast in place concrete cone 4' or 6' inside diam.
Mortar
Blocks
6"
Variable
2"
6"
12"
2'-0"
6"

SECTION B-B

SECTION A-A

STANDARD STORM SEWER MANHOLE TYPE "B"

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

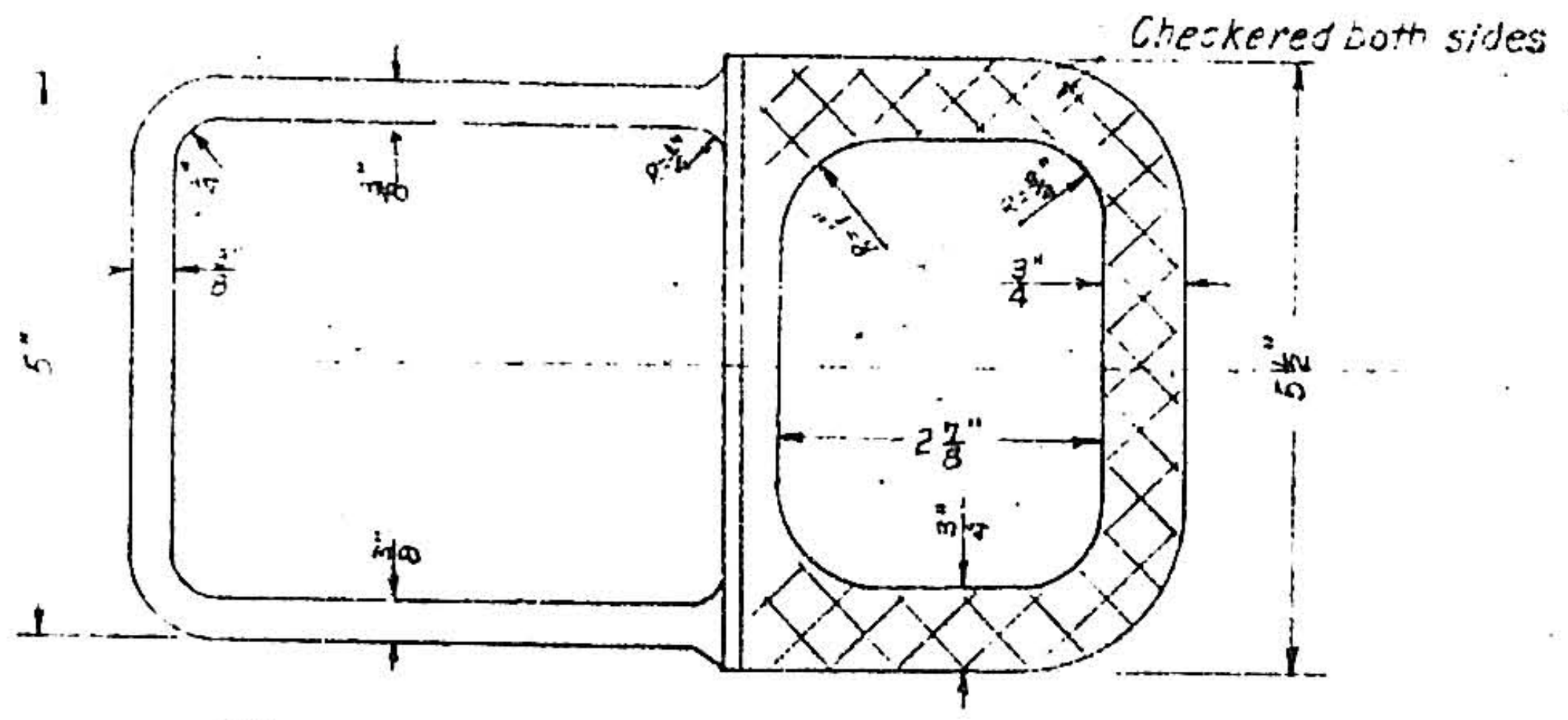


SECTION B-B

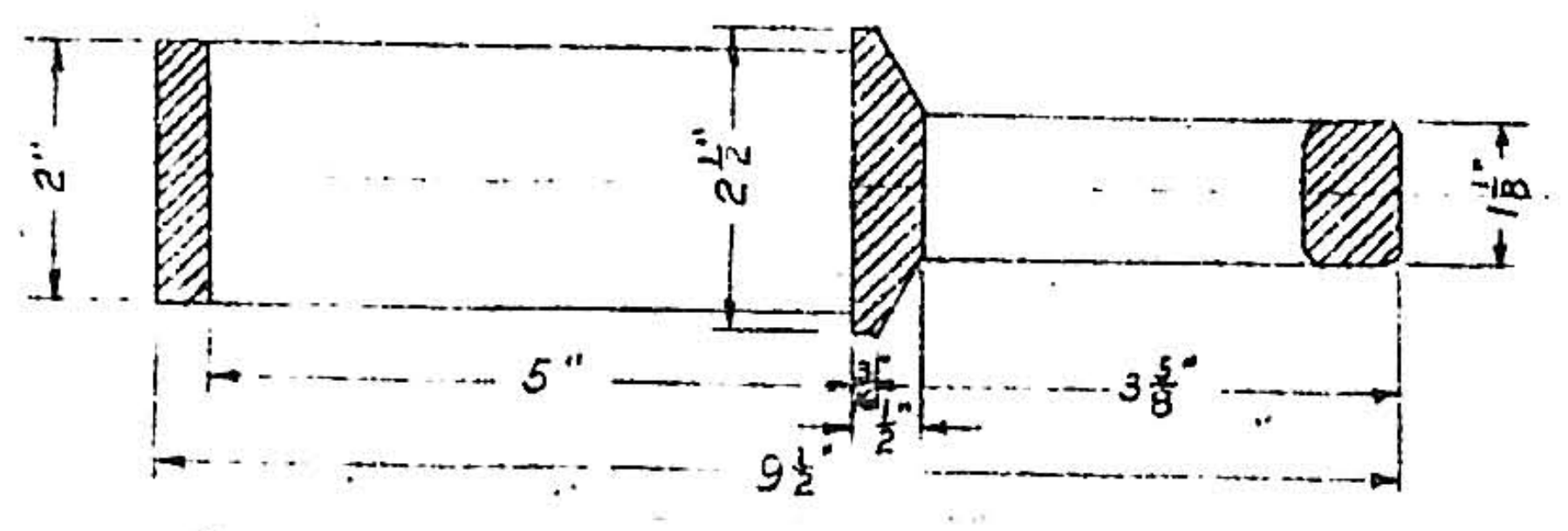
SECTION A-A

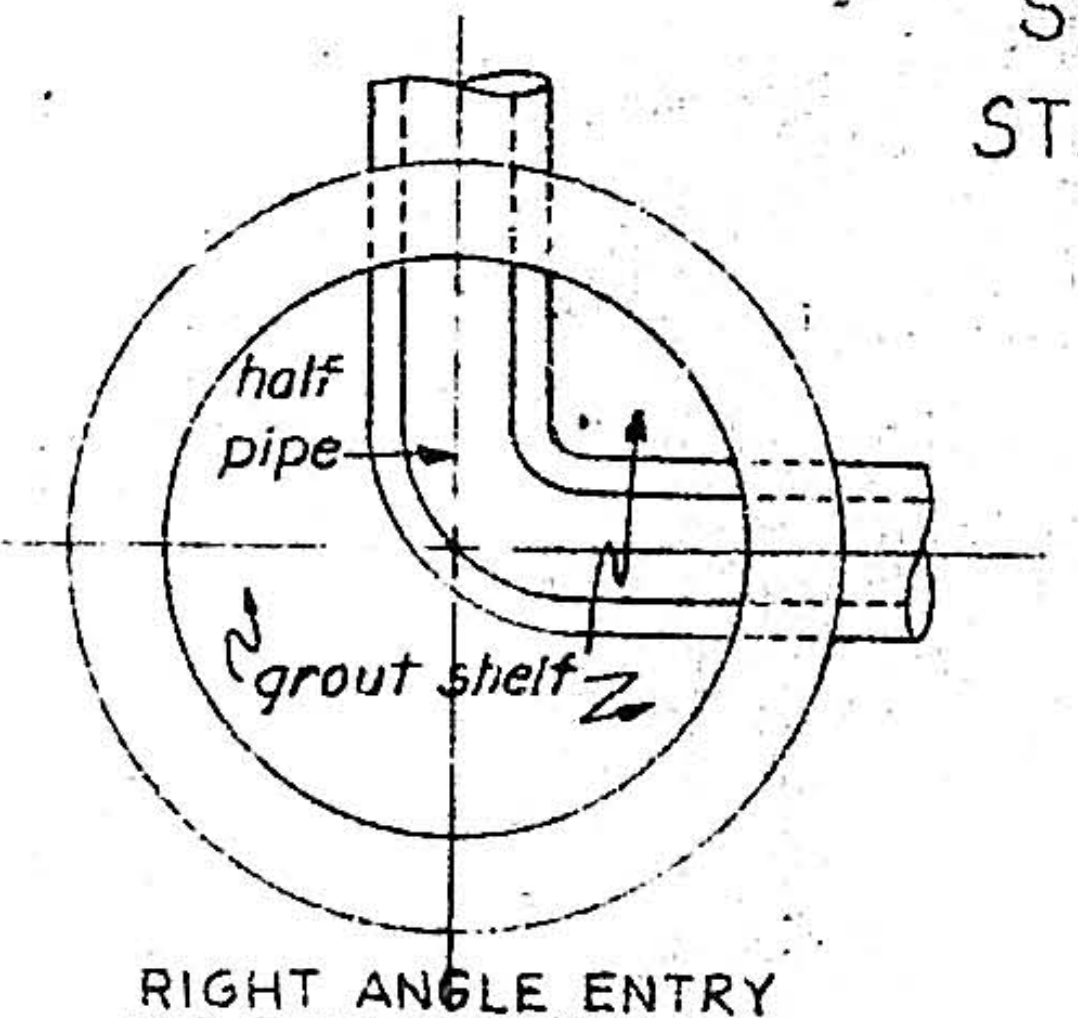
STANDARD STORM SEWER MANHOLE TYPE "C"

All conc. for manholes & blocks - class "B" 3000#/in² min.
All reinf. steel structure grade - 18000#/in²

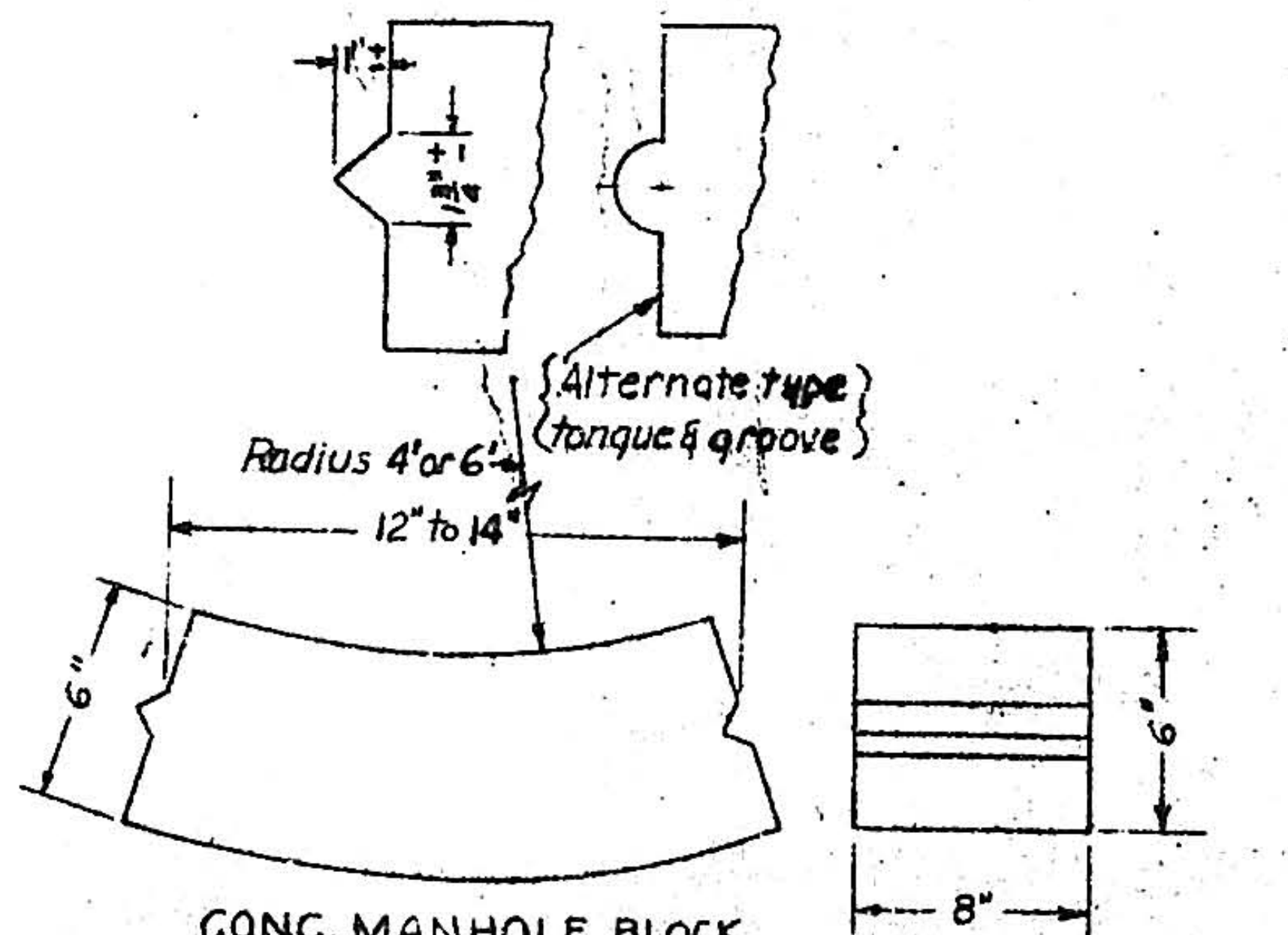


STANDARD MANHOLE STEP





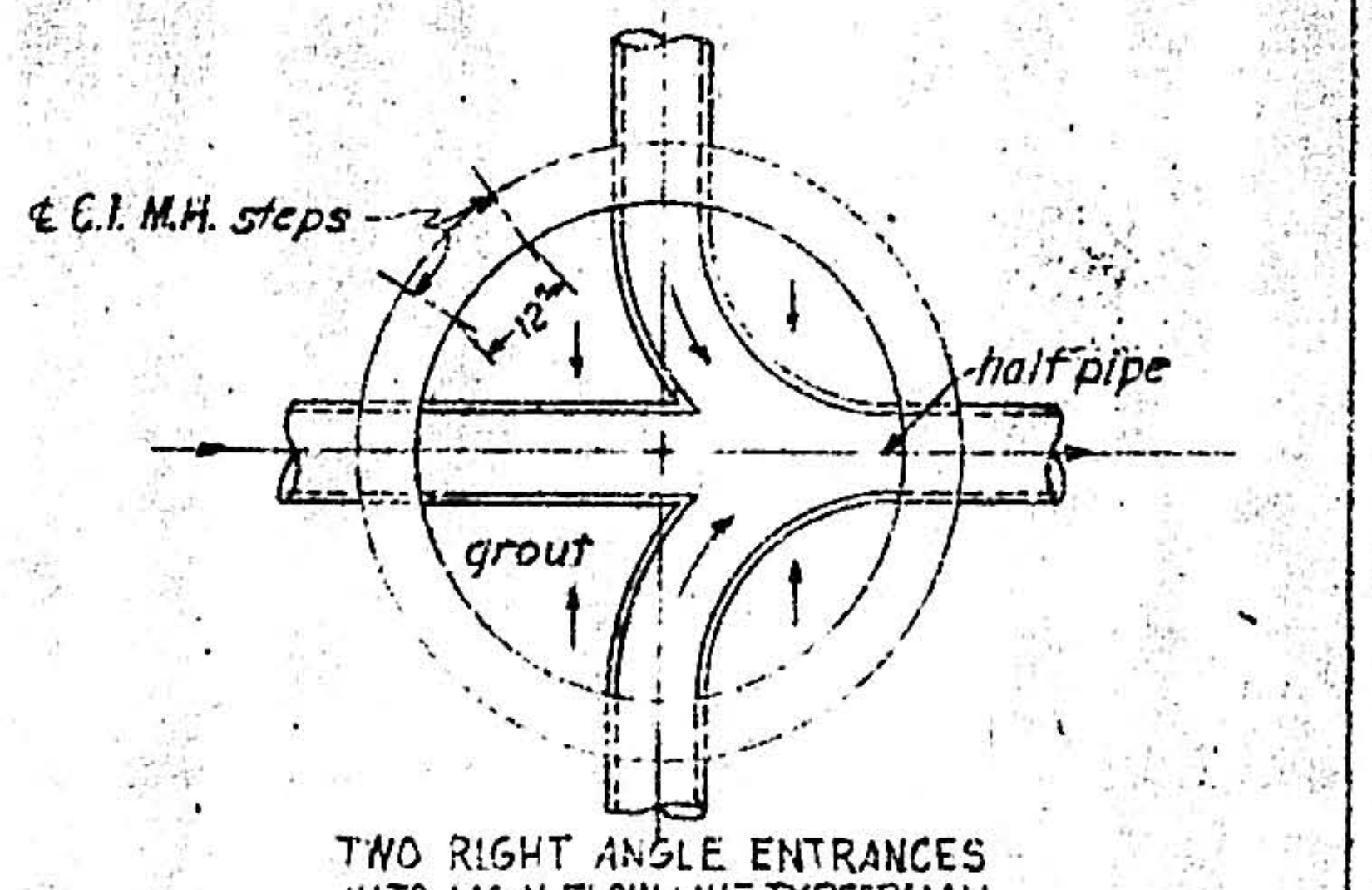
RIGHT ANGLE ENTRY AND EXIT TYPE "B" MANHOLE



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 (8) inches, and a width of not less than six (6) inches, a length of twelve (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 "Conc. Masonry Units for construction of Catch Basin & Manholes" A.S.T.M. Designation C 139-39 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 cast iron as shown. In wet sewer construction manhole barrels shall be constructed of poured conc. to a pre-determined elevation as shown on plan & profile sheets. Remainder of barrel may be constructed of curved conc. block set in water proof mortar.



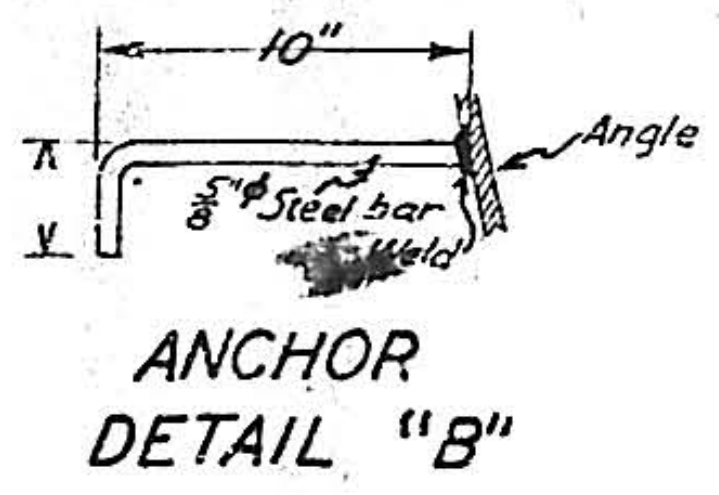
TWO RIGHT ANGLE ENTRANCES INTO MAIN FLOW LINE TYPE "B" M.H.

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
0	8		5	1	2		0	4	5	1				1	0													

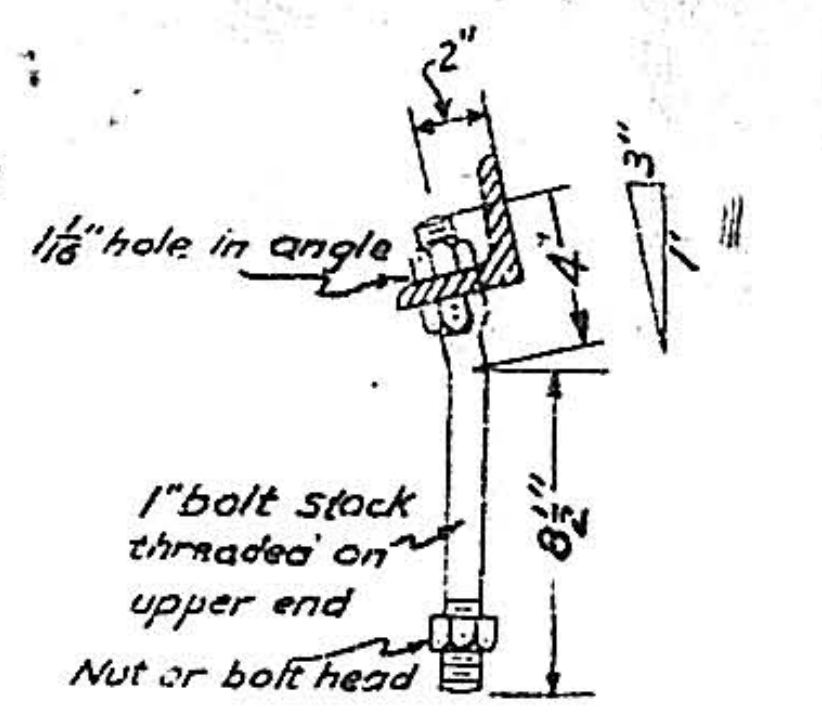
CITY OF ALBUQUERQUE

STANDARD MANHOLE DESIGNS.

DESIGNED	CONSULTING ENGINEERS	DATE DESIGNED
TRACED	HASTE AND GREEN	DATE REVISED
CHECKED	HERKENHOFF AND TURNEY	
SCALE	EDMUND ROSS	SHEET 4 OF 8

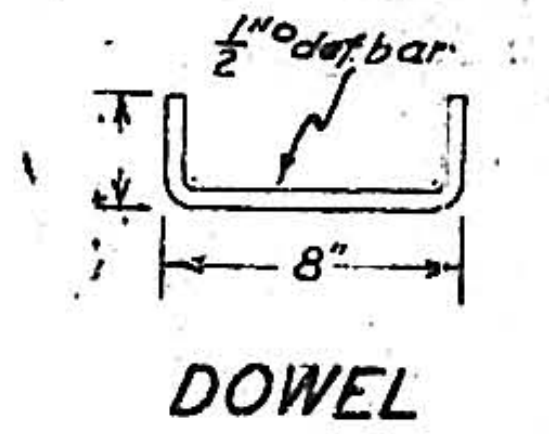


ANCHOR DETAIL "B"

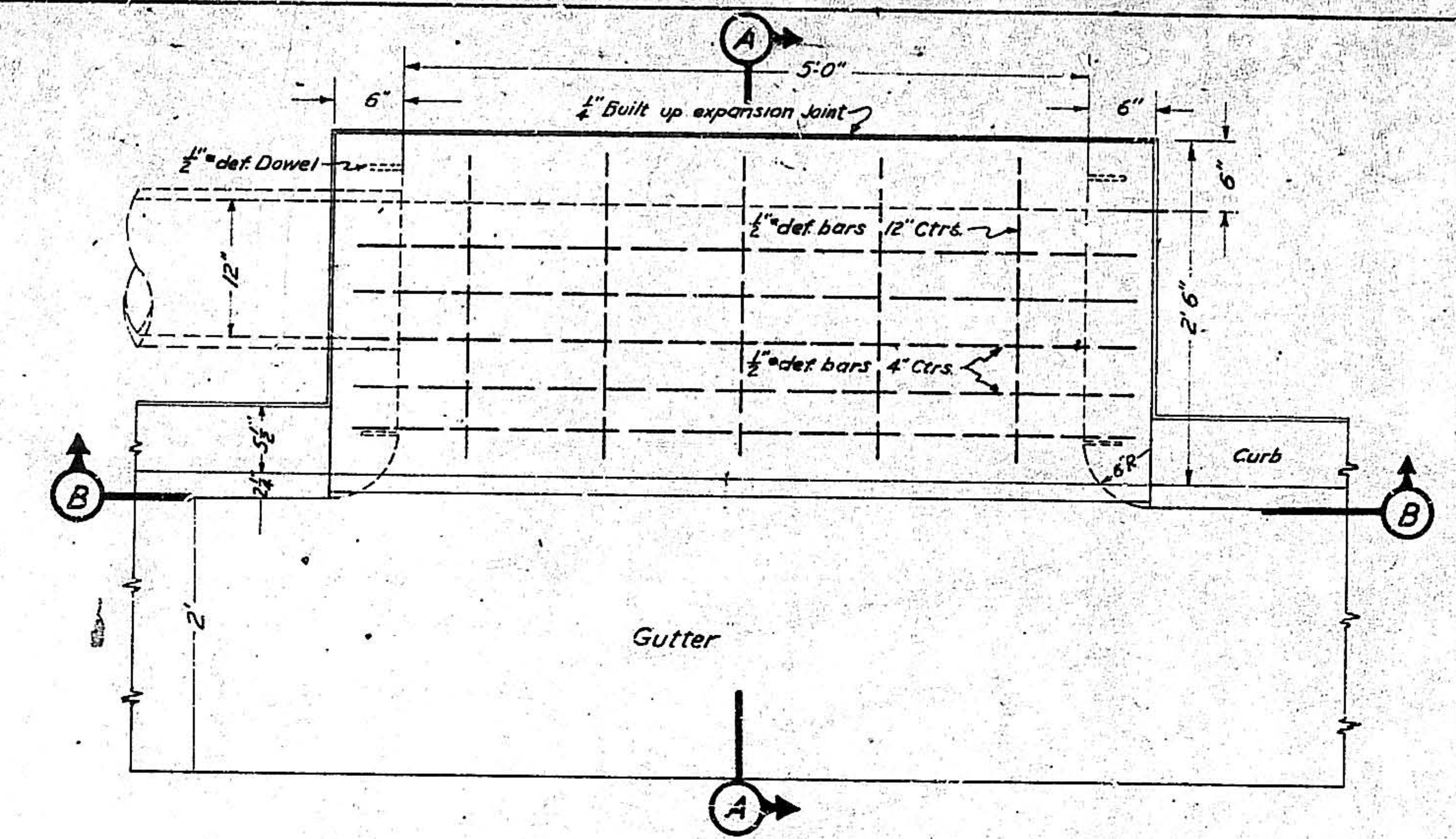


GRATE BOLT DETAIL "A"

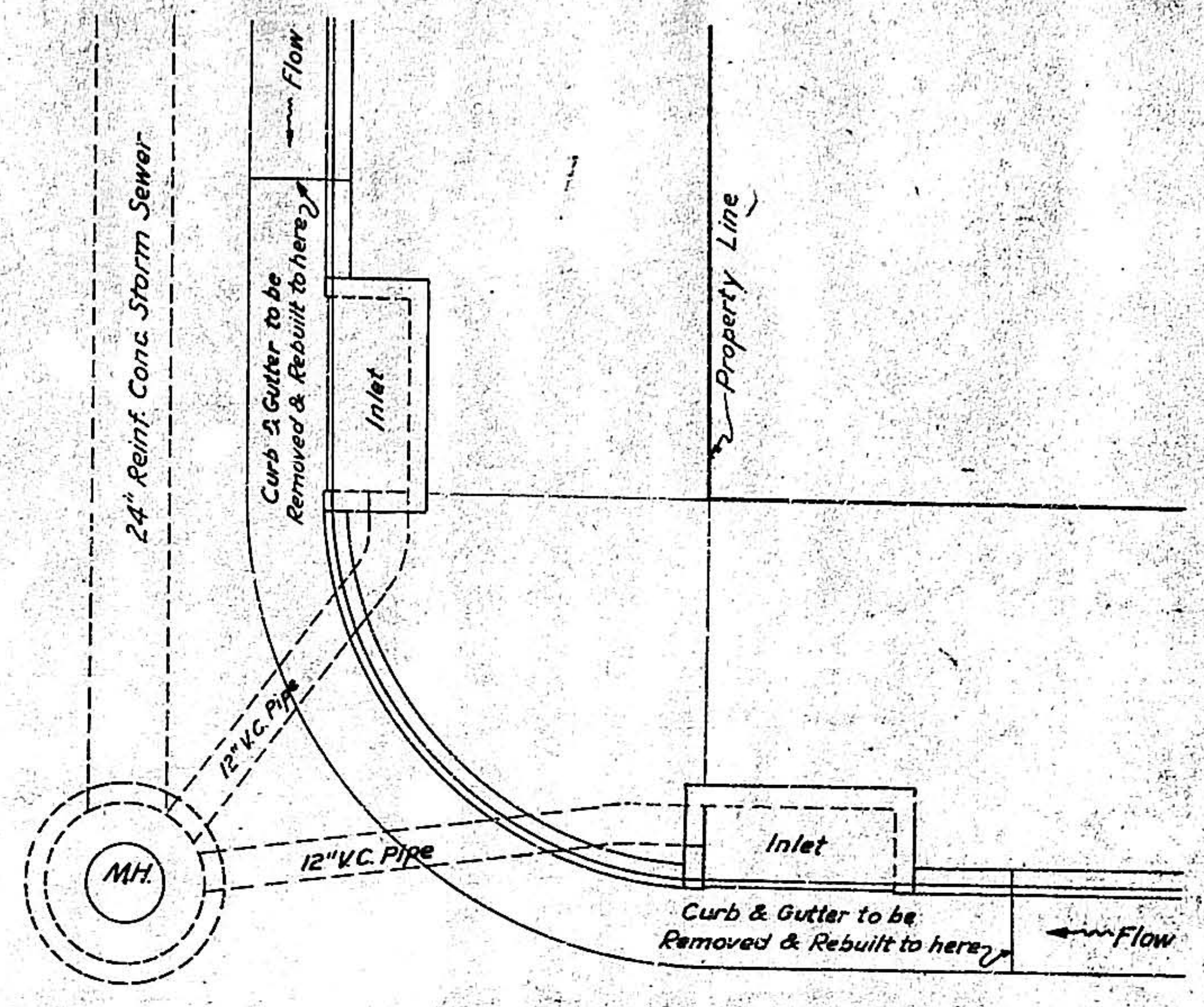
Scale 1½"=1'-0"



DOWEL DETAIL "C"

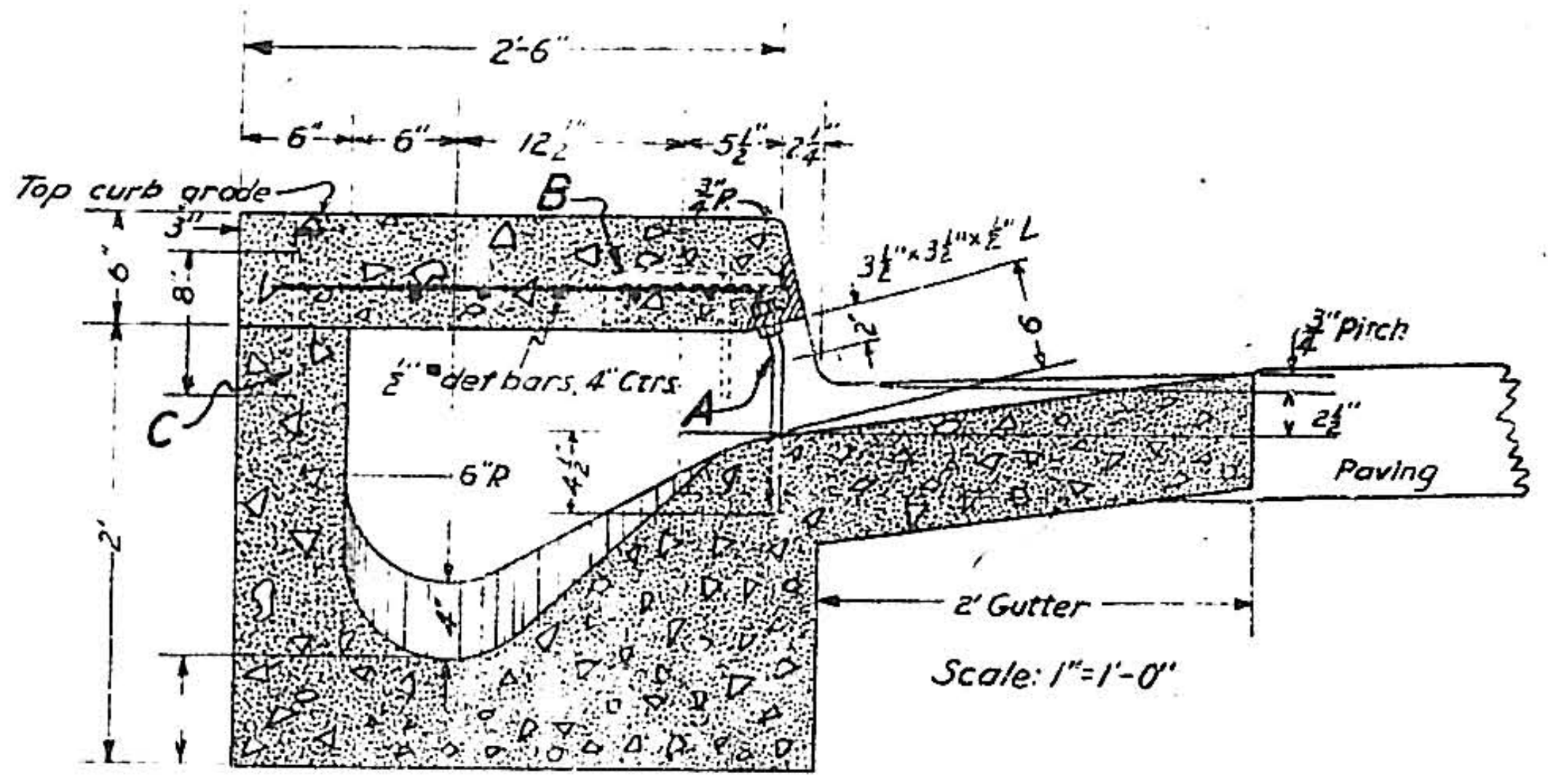


PLAN - CURB TYPE INLET - TYPE A


24" Reinf. Conc. Storm Sewer
Flow
Curb & Gutter to be Removed & Rebuilt to here
Inlet
Property Line
12" V.C. Pipe
M.H.
12" V.C. Pipe
Inlet
Curb & Gutter to be Removed & Rebuilt to here
Flow

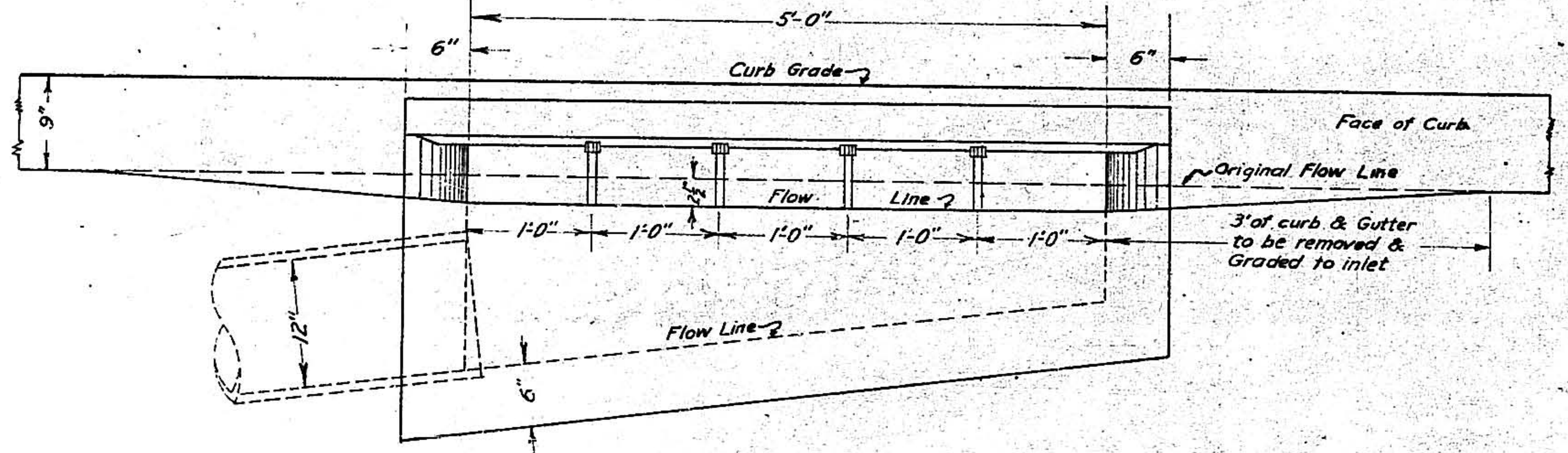
LOCATION OF INLETS IN STREET-TYPE "A"

Scale ⅛"=1'-0"



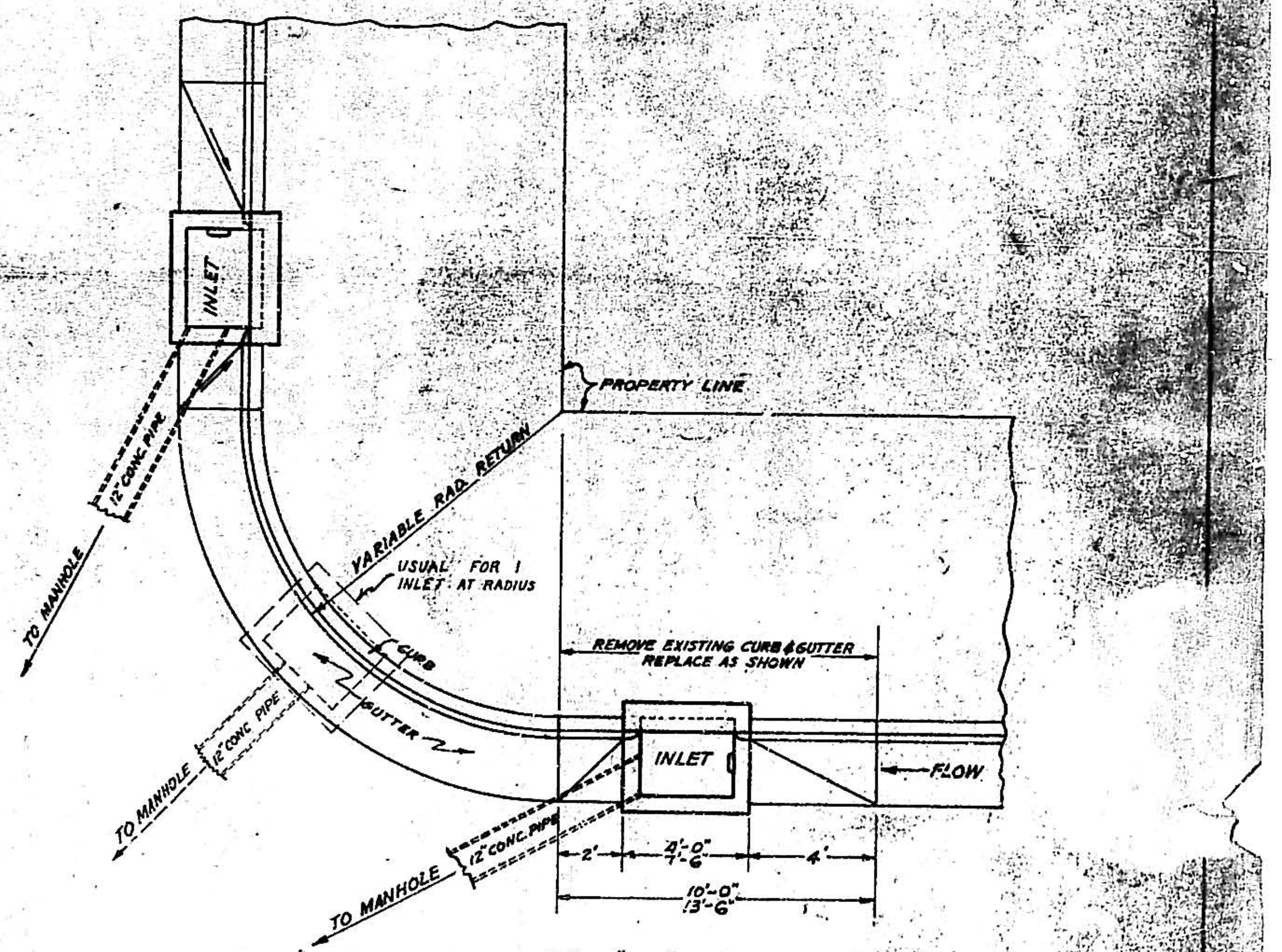
Scale: 1"=1'-0"

SECTION- A-A

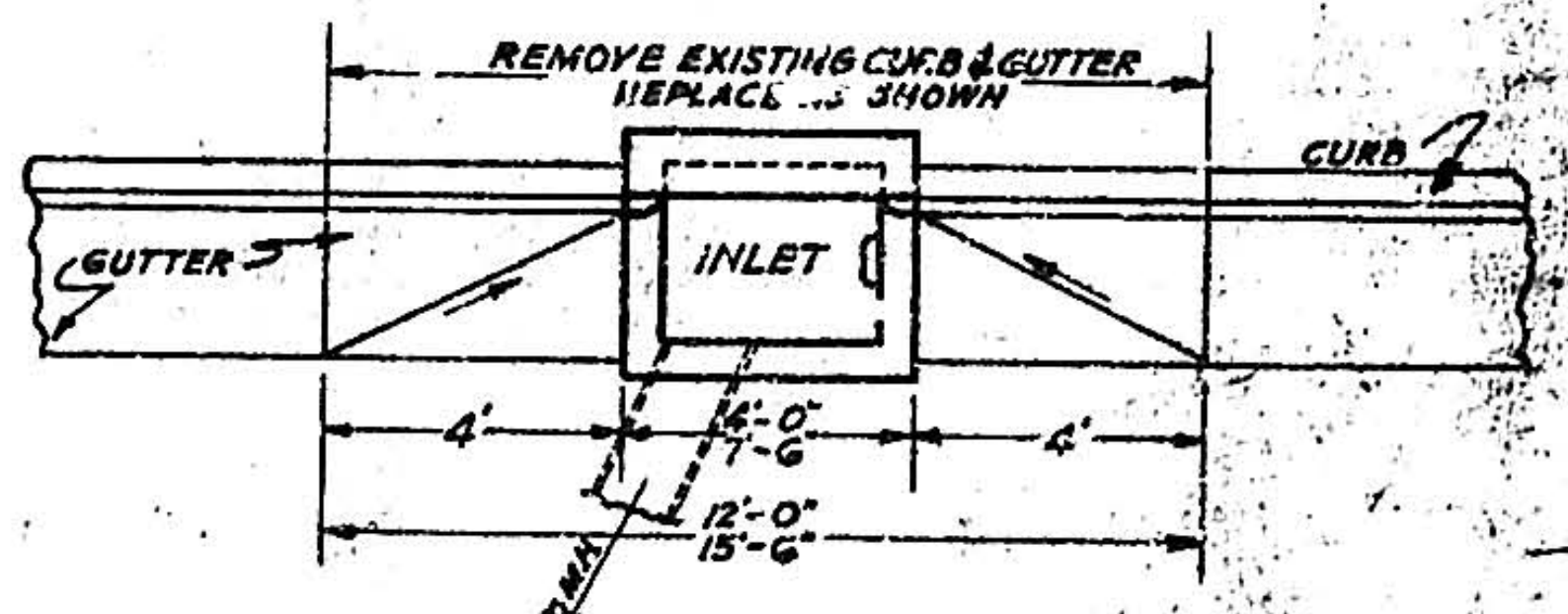


SECTION B-B

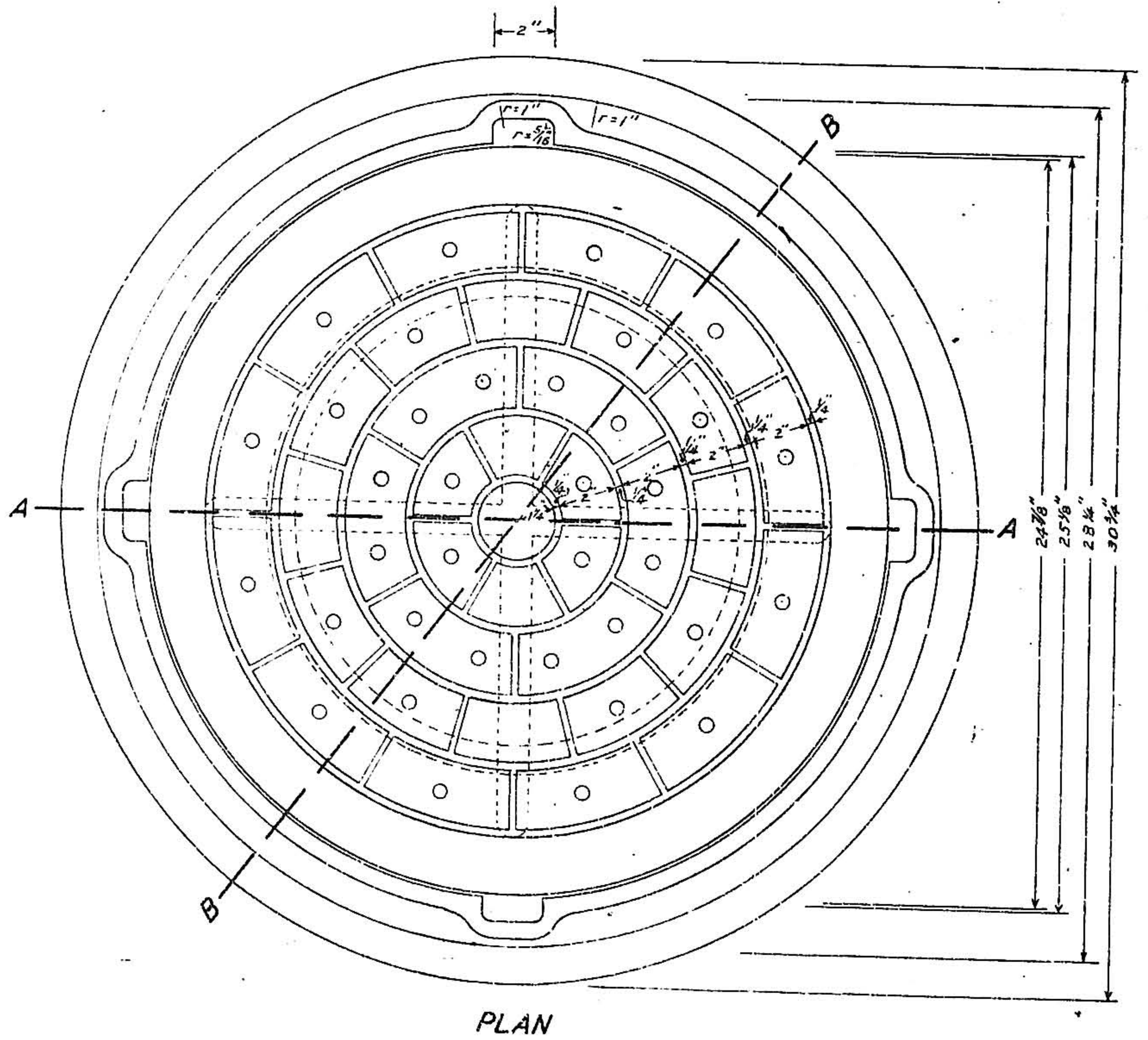
Scale: 1"=1'-0"



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

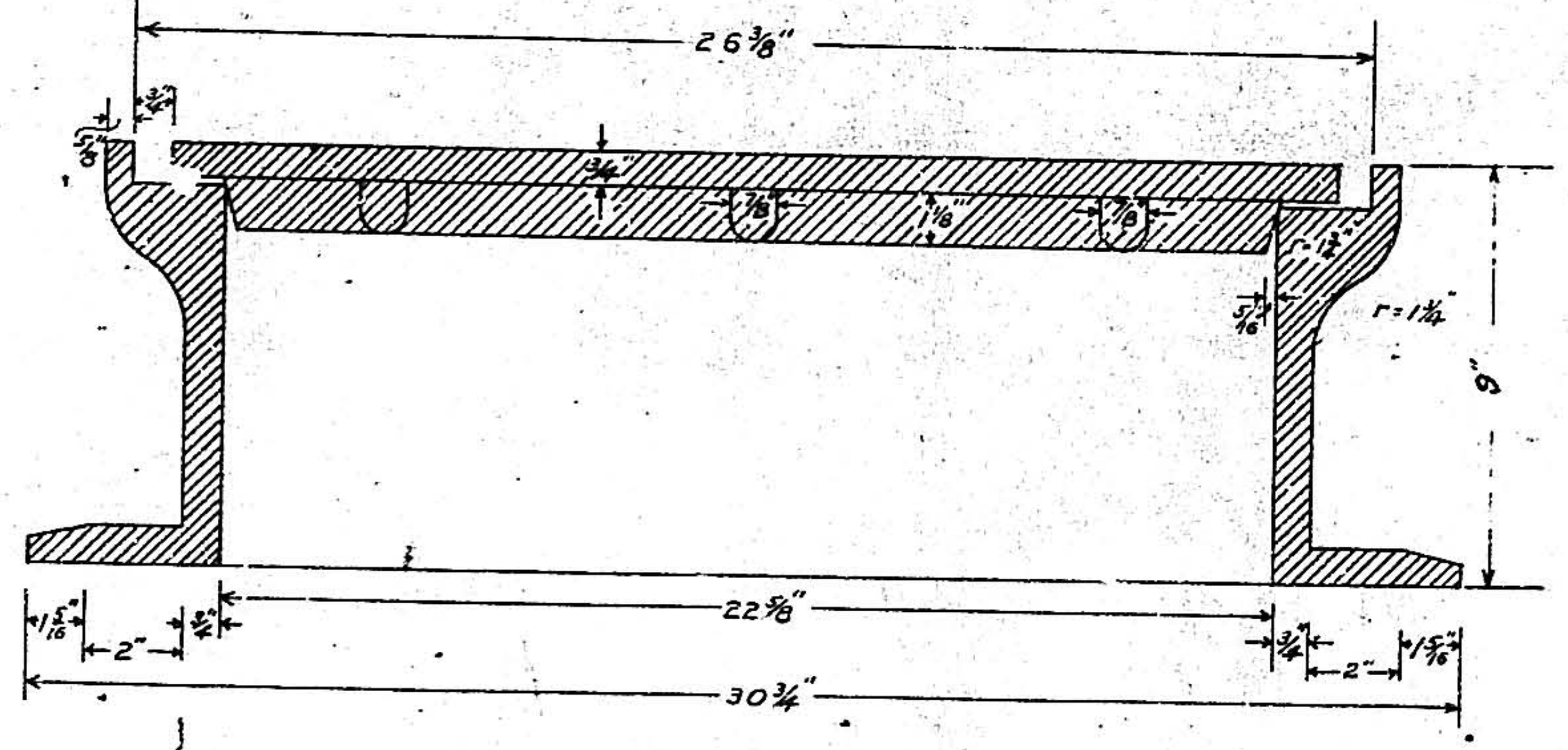


LOCATION OF TYPE "C" & "C-1" INLET IN STREET TANGENT

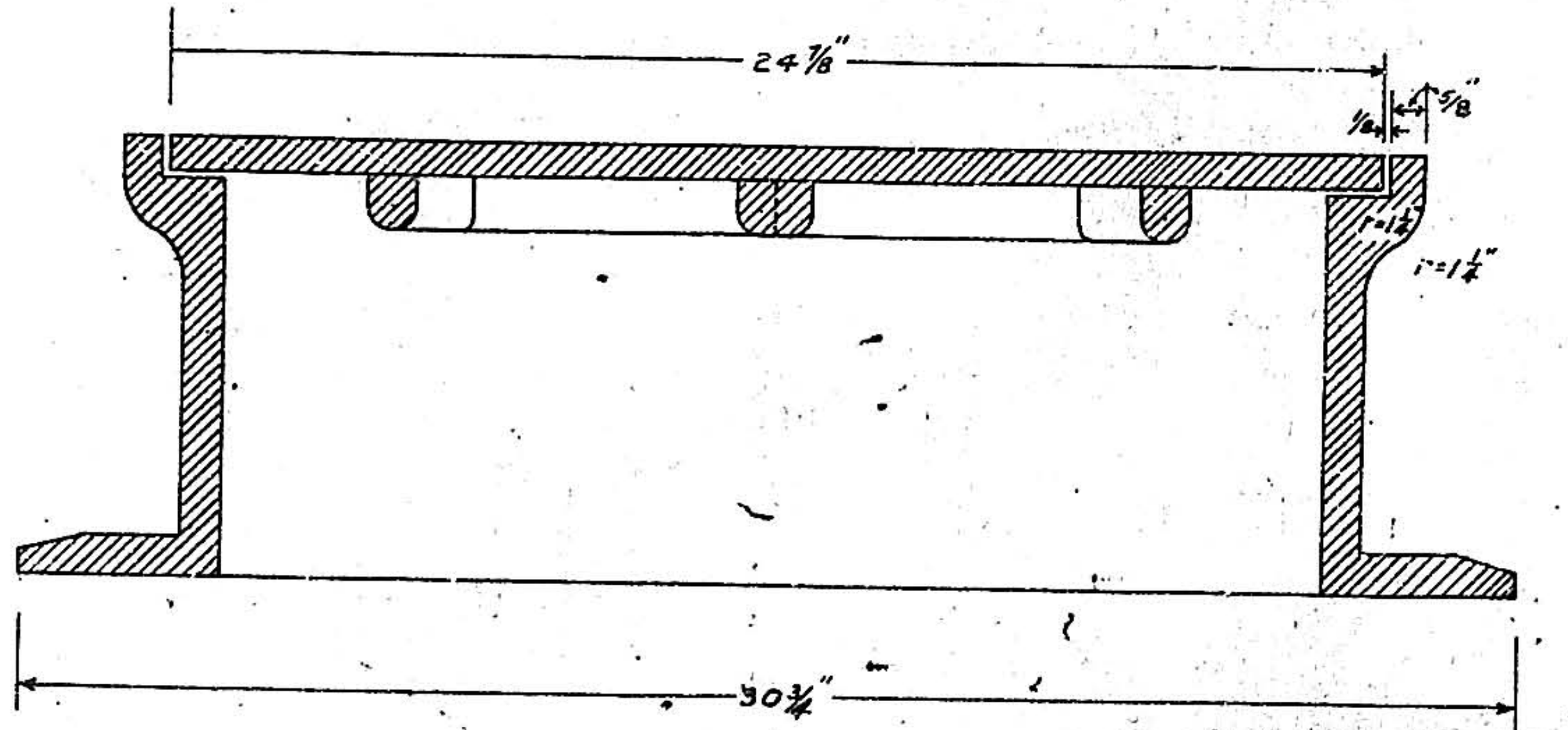


PLAN
STANDARD MANHOLE FRAME AND COVER

Scale: ¼"=1")



SECTION A-A



SECTION B-B

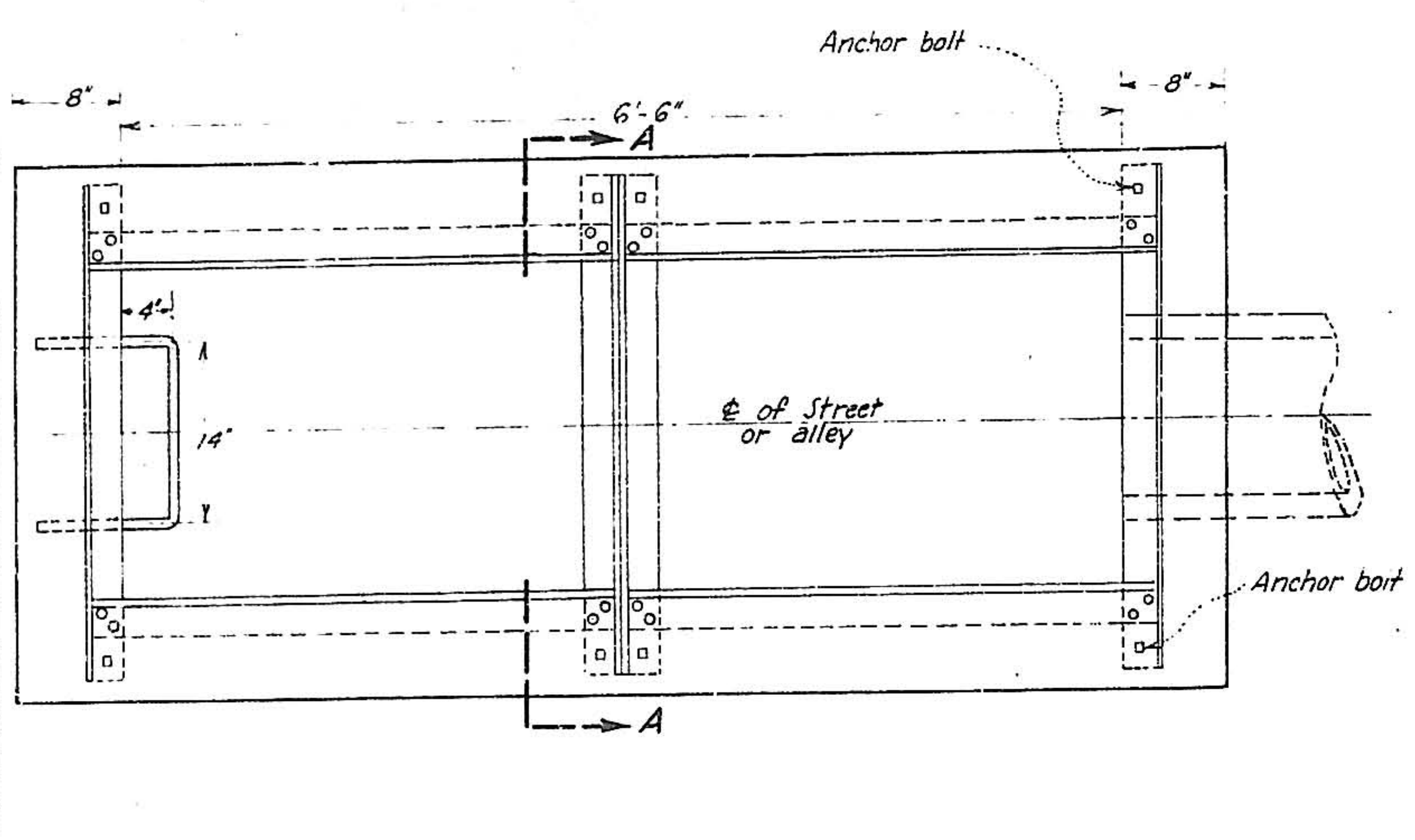
Scale: ¼"=1"

08 512 0551 10

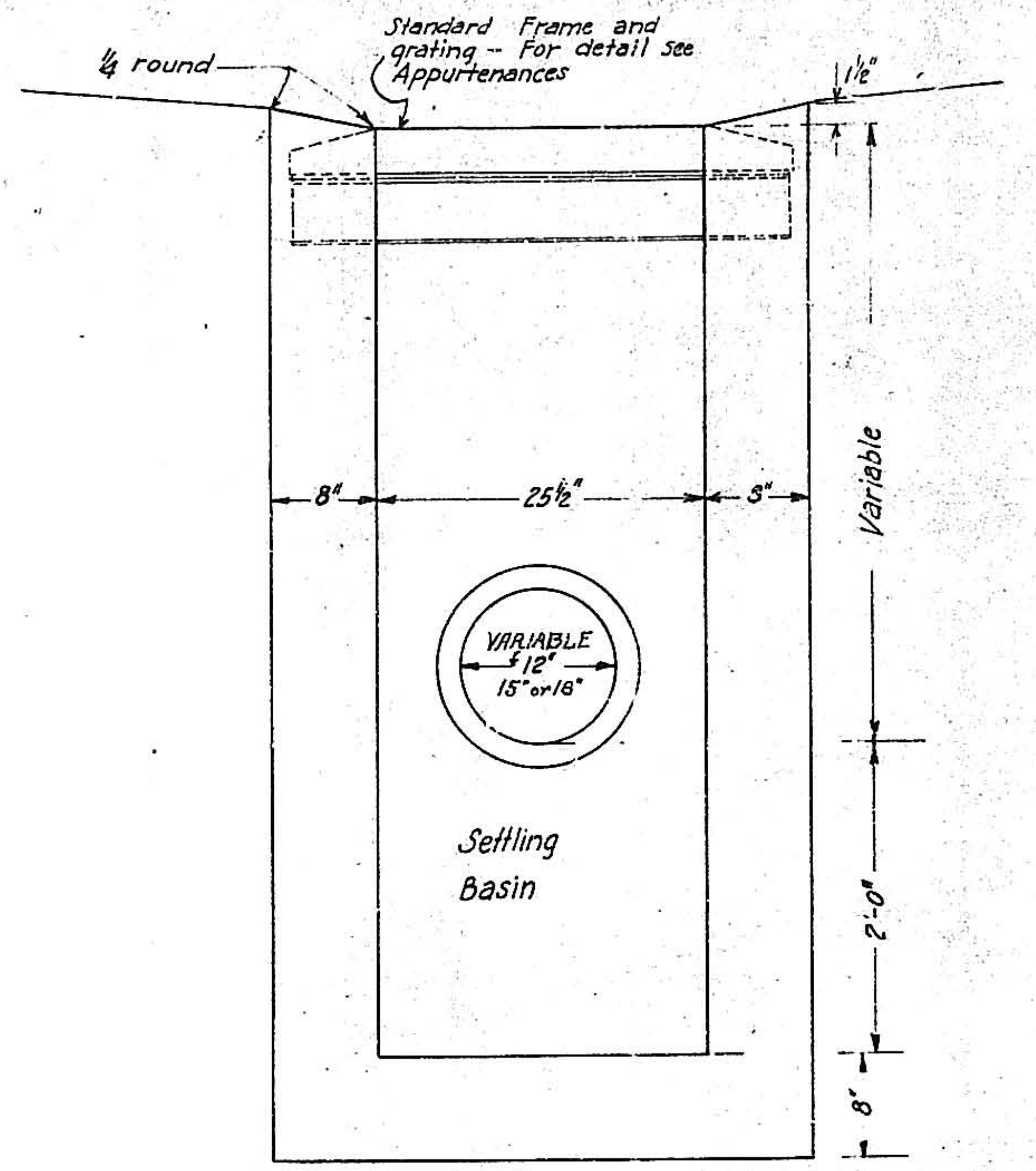
CITY OF ALBUQUERQUE

TYPE A CURB INLET
STANDARD MANHOLE FRAME AND COVER

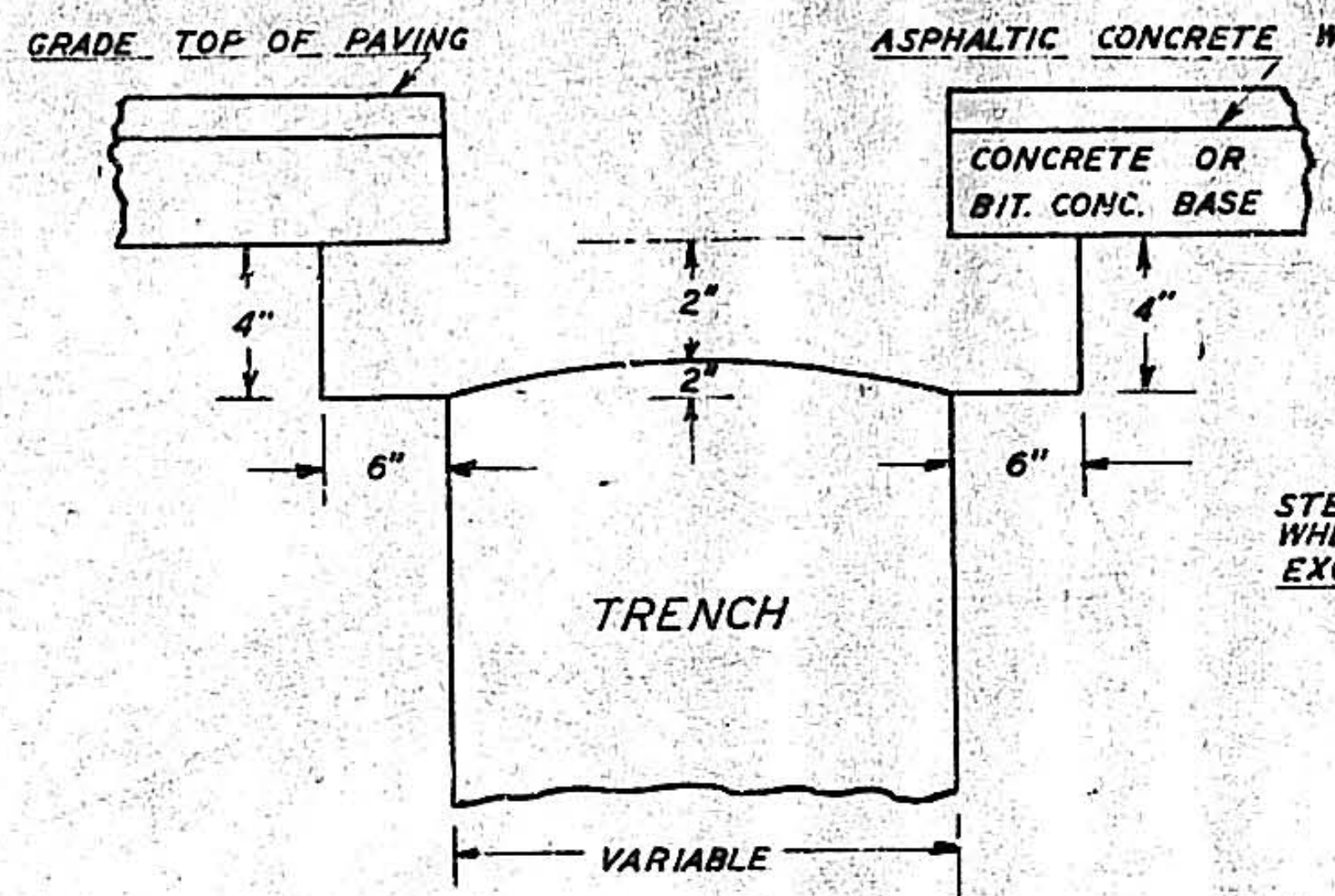
DESIGNED TRACED CHECKED SCALE	CONSULTING ENGINEERS HASIE AND GREEN HERKENHOFF AND TURNEY EDMUND ROSS	DATE DESIGNED DATE REVISED 5 SHEET OF 8



PLAN
STANDARD CATCH BASIN TYPE - D
Scale 1"=1'

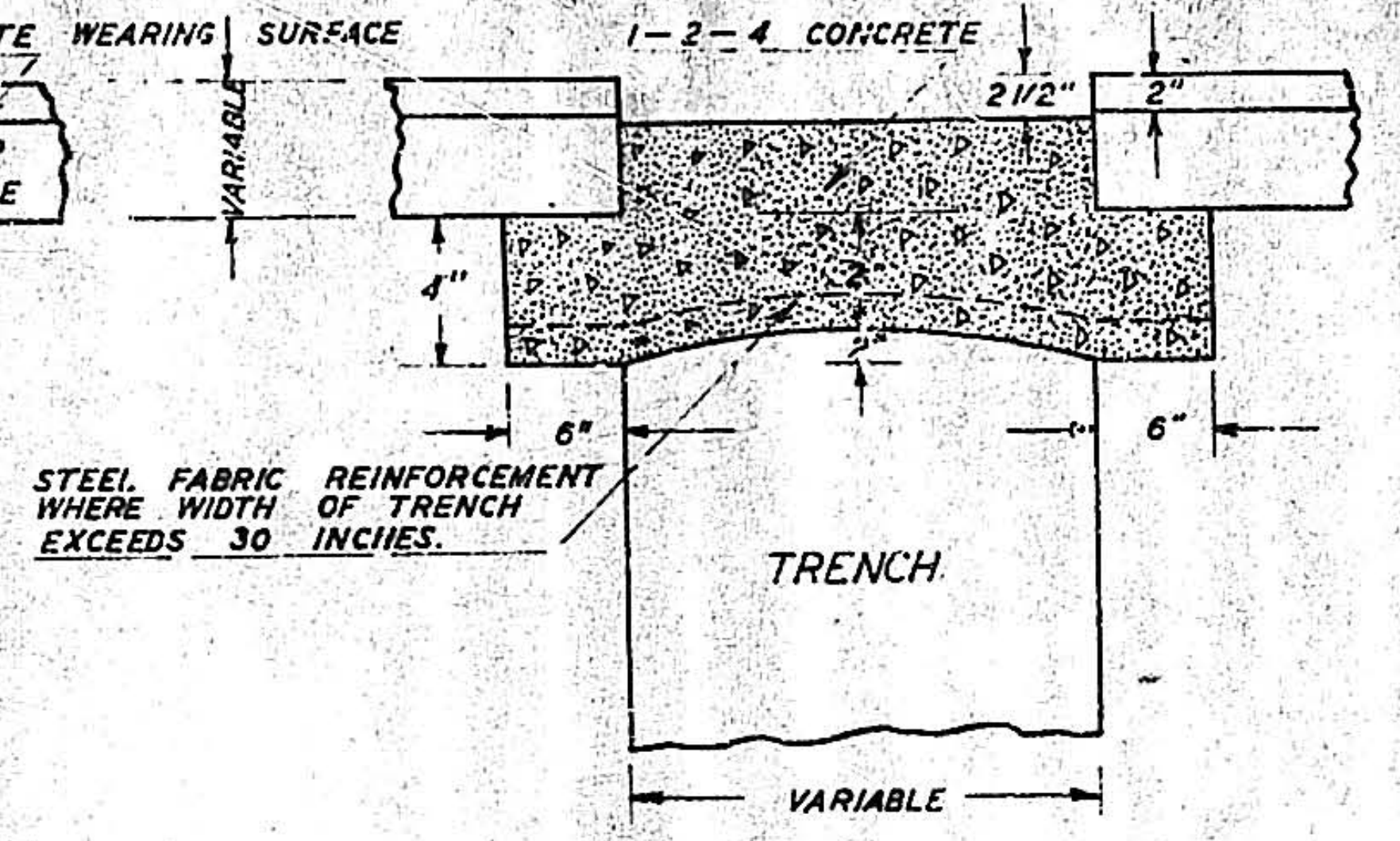


SECTION A-A



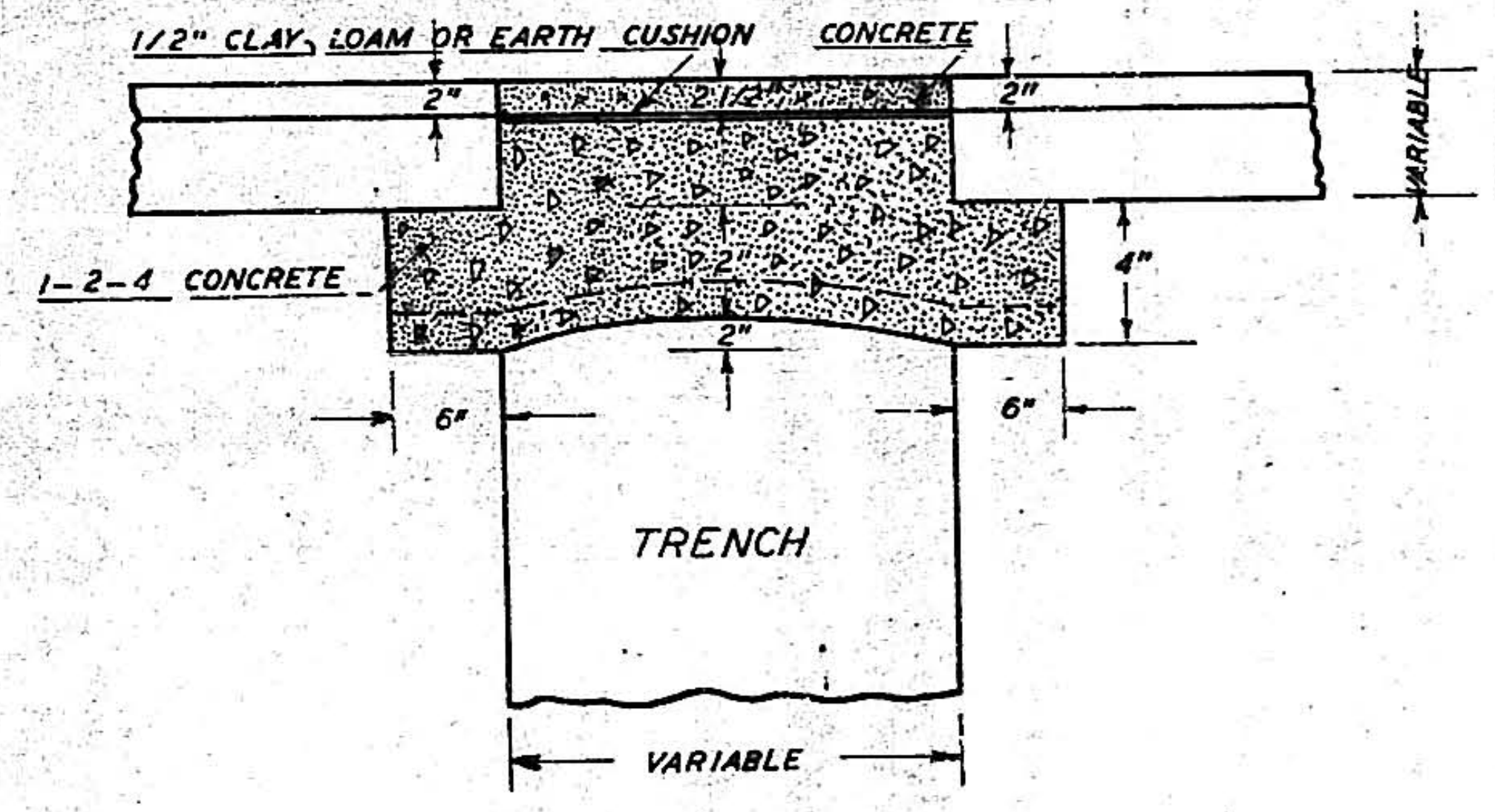
STEP 1.

(A). BACKFILL AND HAND-TAMP THE OPEN TRENCH IN SUCCESSIVE LAYERS OF NOT MORE THAN SIX INCHES IN THICKNESS.
(B). SQUARE UP EXPOSED EDGES OF PAVING IN A NEAT MANNER.
(C). EXCAVATE DIRCCTLY UNDER EDGE OF PAVING A TRENCH 6 WIDE AND 4 DEEP AS SHOWN ABOVE.
(D). ARCH BACKFILL IN CENTER OF TRENCH MAKING THE CROWN AT CENTER 2 BELOW BOTTOM EDGE OF PAVING
(E). DEPTH OF PATCH WILL VARY ACCORDING TO TYPE OF PAVING TO BE REPAIRED.


WEARING SURFACE
VARIABLE
1-2-4 CONCRETE
2 1/2"
2"
4"
2"
6"
6"
STEEL FABRIC REINFORCEMENT WHERE WIDTH OF TRENCH EXCEEDS 30 INCHES.
TRENCH
VARIABLE

STEP 2.

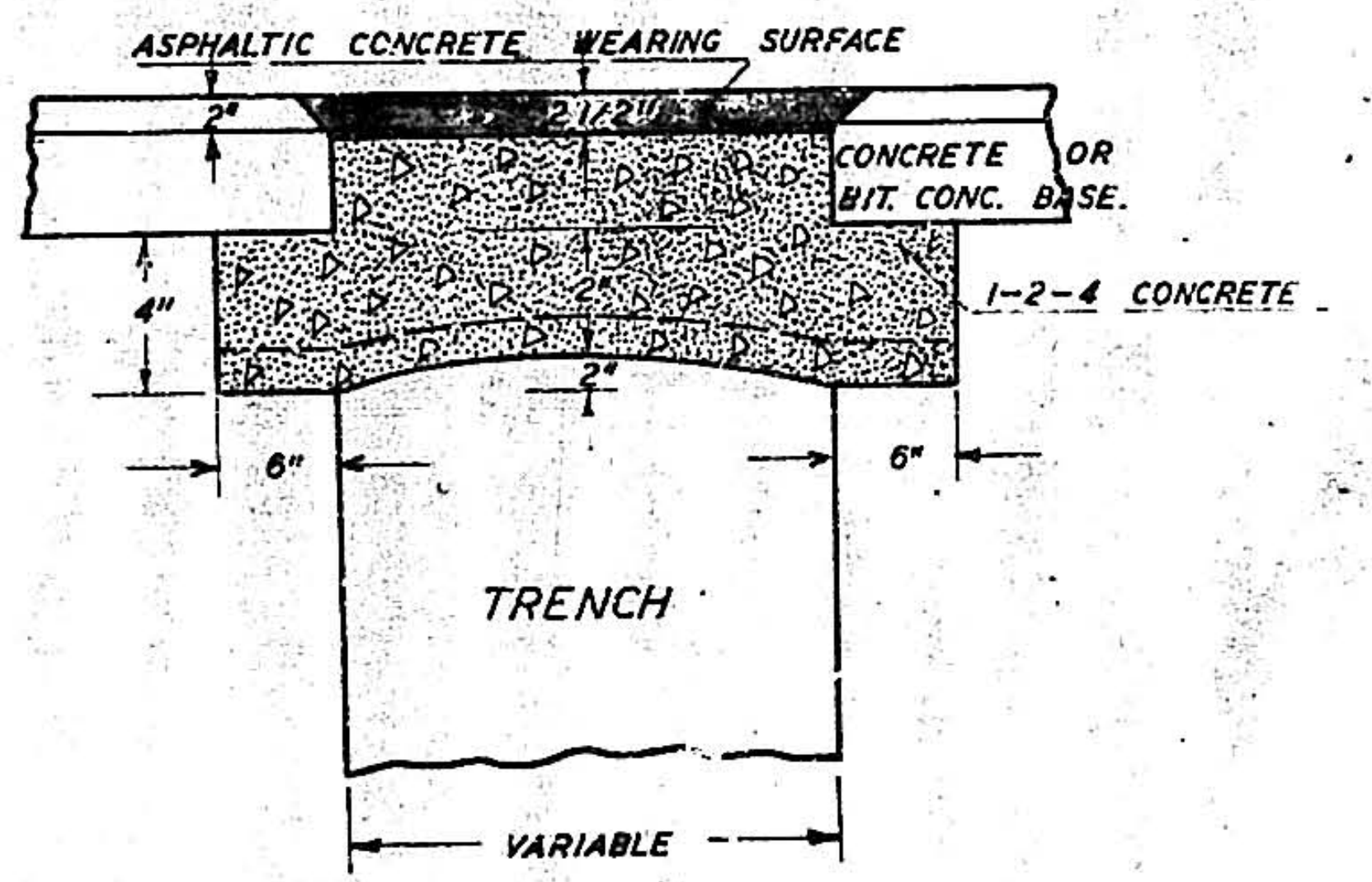
(A). WASH OFF THE EXPOSED PAVING EDGES AND WET THE SUBGRADE LIGHTLY.
(B). FILL WITH A 1-2-4 MIX CONCRETE TO WITHIN 2 1 2 OF GRADE OR TOP OF PAVING TAMP THE CONCRETE THOROUGHLY ESPECIAL CARE BEING TAKEN TO COMPLETELY FILL AND TAMP THE CONCRETE INTO THE TRENCH UNDER EDGE OF PAVING.
(C). WHERE THE WIDTH OF TRENCH EXCEEDS 30 INCHES PLACE ONE LAYER OF STEEL FABRIC REINFORCEMENT WEIGHING NOT LESS THAN 35 POUNDS PER 100 SQ. FT., 2" ABOVE THE BOTTOM OF THE CONCRETE.
(D). STRIKE THE SURFACE OF THE CONCRETE OFF ROUGHLY WITH A SHOVEL BUT DO NOT FINISH SMOOTH.



STEP 3.

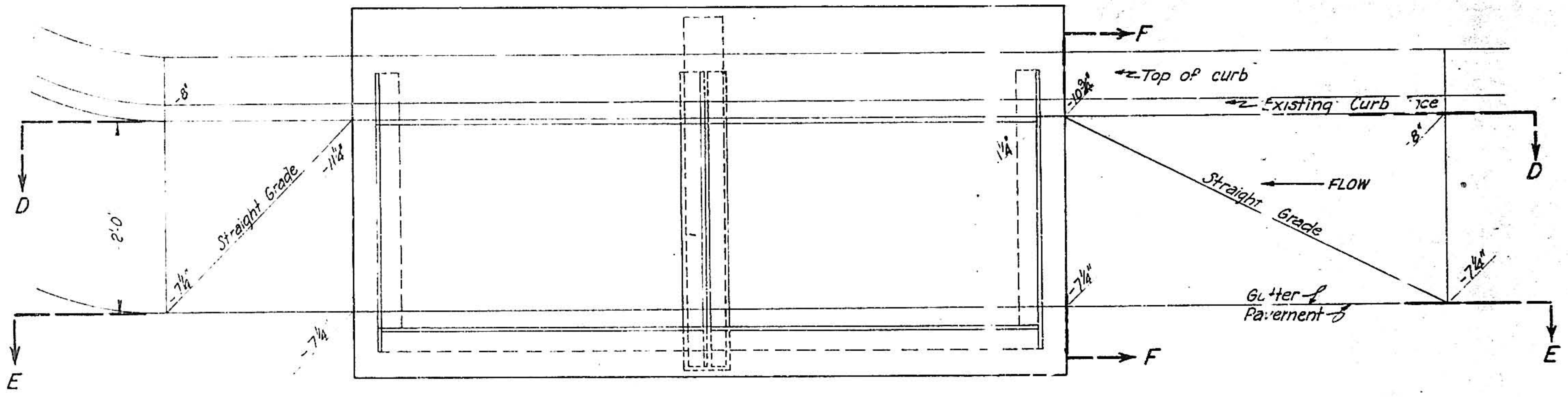
(A). AFTER THE CONCRETE PLACED IN STEP 2. HAS TAKEN ITS INITIAL SET PLACE A 1/2" LAYER OF CLAY, LOAM OR ORDINARY EARTH (NOT SAND) OVER THE SURFACE OF THE CONCRETE.
(B). FILL REMAINDER OF CUT WITH 1-2-4 MIX CONCRETE TO TOP OF PAVING AND FINISH WITH WOODEN FLOAT.
(C). BARRICADE AGAINST TRAFFIC FOR AT LEAST 24 HOURS AFTER PLACING TOP COURSE. AT NIGHT PLACE LANTERNS OR TORCHES BY THE BARRICADES.

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.

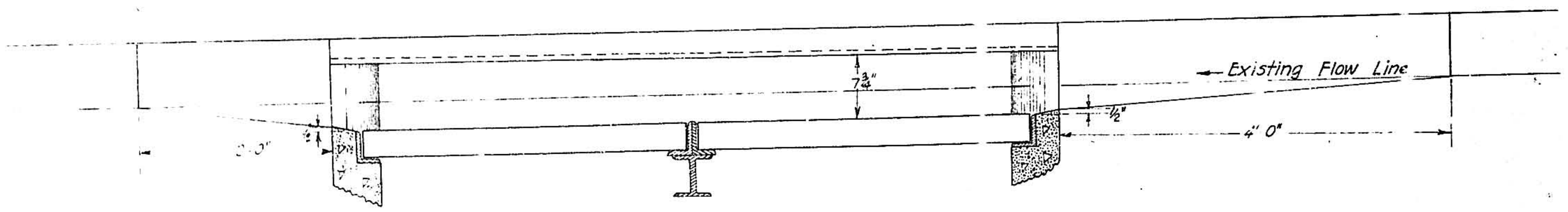

ASPHALTIC CONCRETE WEARING SURFACE
2"
2 1/2"
CONCRETE OR BIT. CONC. BASE.
1-2-4 CONCRETE
4"
2"
6"
6"
TRENCH
VARIABLE

STEP 4.

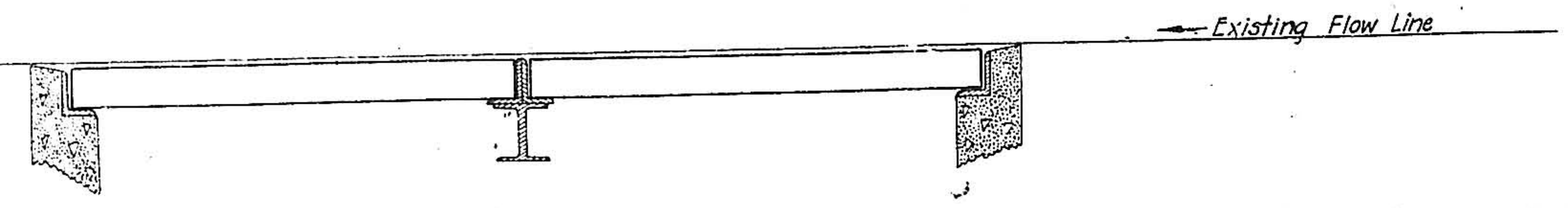
(A) BREAK AND CHIP OUT THE 2" TOP COURSE OF CONCRETE AND 1/2" LAYER OF DIRT.
(B). CUT BACK THE EDGE OF PRESENT ASPHALTIC CONCRETE SURFACE ON AN ANGLE OF 45° WITH VERTICAL OR 1 TO 1 SLOPE.
(C). CLEAN OUT, CUT AND SWEEP CLEAN WITH HEAVY BROOM.
(D). HAUL AWAY AND DISPOSE OF ALL WASTE MATERIALS.
(E). REPAIR CUT WITH ASPHALTIC CONCRETE WEARING SURFACE IN ACCORDANCE WITH CITY PAVING SPECIFICATIONS. THE SURFACE FINISH TO BE THE SAME TYPE AS THAT OF PAVING SURROUNDING THE PATCH.
(F). THE STREET IN VICINITY OF PATCH SHALL BE THOROUGHLY CLEANED UP BEFORE BEING OPENED TO TRAFFIC.



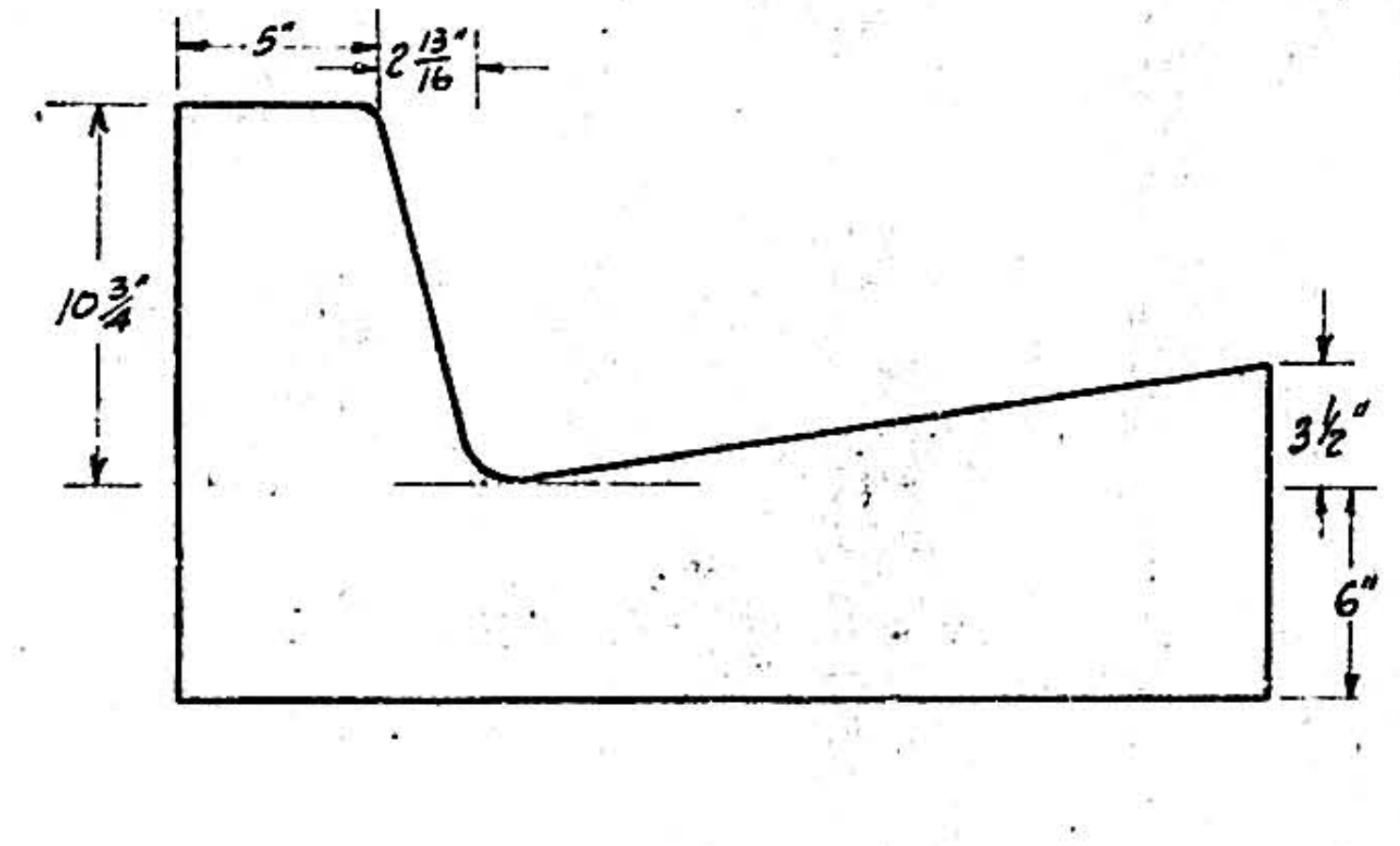
PLAN
STANDARD LOCAL DEPRESSIONS FOR CATCH BASINS
TYPES A, B AND C & C-1



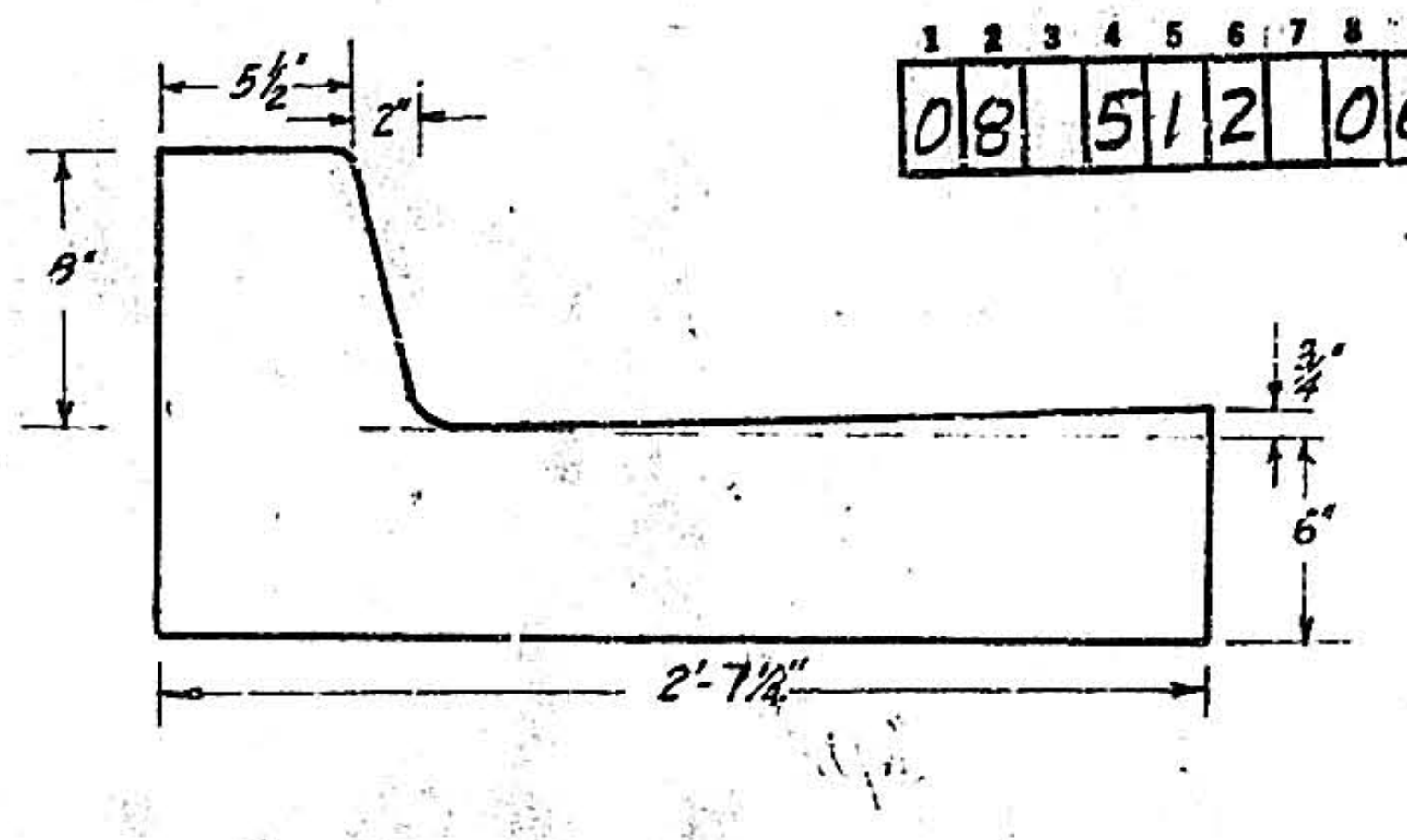
SECTION D-D



SECTION E-E



SECTION F-F



STANDARD SECTION
CURB AND GUTTER

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
0	8		5	1	2		0	6	5	1				1	0													

CITY OF ALBUQUERQUE

STANDARD METHOD OF REPAIRING CUTS IN PAVEMENTS - ALSO - STANDARD LOCAL DEPRESSIONS FOR CATCH BASINS

DESIGNED	CONSULTING ENGINEERS	DATE DESIGNED
TRACED	HASIE AND GREEN	DATE REVISED
CHECKED	HERKENHOFF AND TURNEY	
SCALE	EDMUND ROSS	SHEET 6 OF 8

2
PLAN
NOTE BOOK NO.
ALIGNMENT CHECKED
RT. OF WAY CHECKED
Z
15" Water Line 5'W ℄
8" Water Line 10'W ℄
2" Gas Line 10'E ℄
N. 2nd Street
6" Water Line
8" Sanitary Sewer
HARRISON AVE
STA 0+00
℄ STA 3+47
3 Proposed Single Grate Type C-1 Catch Basin T.C. 109.2, T.G. 108.2 (North 2 inlets) T.C. 109.1, T.G. 108.1 (South 1 inlet) Elevations to be verified in field.
Existing Storm Sewer M.H.- 4' West ℄ 2' North of intersection of N 2nd and Harrison Ave. Make connection to Storm Sewer lateral clean out from Sanitary Sewer located in ℄ of Harrison Ave.
Proposed Single Grate Type C-1 Catch Basin T.C. - 108.1 (Both Sides) T.G. - 107.7 (Both Sides) These elevations to be verified in field.
SUMMER
58141
B.M. Top Fireplug S.W.Cor. Harrison & 1st Street, Elev. 111.43
NOTE: All gas lines approx. 2½' Underground. All water lines approx. 3' underground. T.C.---Top of Curb. T.G.---top of grate.
2" Gas LINE
Existing 8" Elbow Type Storm Drain Catch Basin
Existing Storm Sewer M.H. ½ Filled With Sand. Clean Out.
HAWES
COOLIDGE AVE
℄ STA. 0+00
8" San. Sewer
NORTH 6th STREET
BEZEMEK
10'
T.C. EL. 72.19 (Both Sides)
T.G. EL. 71.19 (Both Sides)
59142
2" Gas Line 323' S ℄ McKnight
McKNIGHT AVE
2" Gas
8" San. Sewer
STA. 7+25
PROPOSED "TYPE C-1" Single Grate Catch Basin
T.C. EL. 72.80
T.G. EL. 71.80
5'
6'
PROPOSED "TYPE C-1" Single Grate Catch Basin
T.C. EL. 71.97
T.G. EL. 70.97
0+00
1
2
3
4+00
Grades
Existing M.H. STA. 0+04
INV. EL. (West) 104.82
INV. EL. (East) 102.97
Proposed 4' TYPE C M.H. STA. 3+51
INV. EL. (West) 103.98
INV. EL. (North) 104.28
8" And 16" Water Lines
2" Gas.
8" San. Sewer
24" Existing Storm Sewer
110
100
12" Conc. Pipe S=.30% V=2.4 FT./SEC.
348' - 0' to 6'
0+00
1
2
3
4
5+00
6
7
8+00
Grades
Existing M.H. STA. 0+00
INV. EL. (East) 94.82
INV. EL. (North) 94.82
℄ R.R. Spur
2" Gas Line
Proposed TYPE C 4' M.H. STA. 7+20
INV. EL. 92.99 (South)
San. Sewer
110
100
90
10" CONC. PIPE S=.44% V=2.5 FT./SEC.
720' - 0' to 6'

PROFILE
NOTE BOOK NO.
ALIGNMENT CHECKED
RT. OF WAY CHECKED
Z
6" Water Line
16" Water Line 5'W of ℄
2 Proposed Single Grate Type C-1 Catch Basin, T.C. 109.0, T.G. 108.0 (elevations to be verified in field.)
2" Gas Line 10'E of ℄
SUMMER
HARRISON
STA 0+05
6" Water Line
8" Water Line 10'W of ℄ (From Harrison to Roosevelt
2 Proposed Single Grate Type C-1 Catch Basin T.C. 109.10, T.G. 108.1 (Elevations to be verified in field.)
AVE
KINLEY
McKINLEY
STA 3+62
EXISTING Storm Drain Catch Basin Clogged Clean Out. Connect to Storm Sewer M.H.
NORTH FIRST STREET
6" Water Line 10'W of ℄ From Roosevelt to McKnight
2" Gas Line 20'W of ℄
CONSTITUTION
ROOSEVELT
STA 7+57
8" Sanitary Sewer
3 Proposed Single Grate Type C-1 Catch Basin North side - T.C. 109.6, T.G. 108.6 South side - T.C. 109.4, T.G. 108.4 Elevations to be verified in field.
58141
59142
Existing Storm Sewer M.H.
8" Sanitary Sewer
2" Water Line - 10'N of ℄
4" H.P. Gas Line
ASPEN
WILSON AVE
Existing Drop Inlets - 8" Elbow Type
10'
HARDY AVE
SPUR
SAWMILL
8" Sanitary Sewer
6" Water Line
2" Gas Line
AVE
2" Gas Line - 130' S.
3 Proposed Single Grate Type "C-1" Catch Basin. North side - T.C. 112.50, T.G. 111.50 South side - T.C. 112.10, T.G. 111.10 Elevations to be verified in field
COOLIDGE
1½" Water Line
2" H.P. Gas Line
16" Water
4" Water
4" H.P. Gas
8" San. Sewer
STA 25+45
3 Proposed Single Grate Type C-1 Catch Basin. North side - T.C. 112.8, T.G. 112.0 South side - T.C. 112.8, T.G. 112.0 Elevations to be verified in field. Use 8" from inlets to manhole at this point
Note: Clean Out Storm Sewer M.H at Station 15+91. Payment by Force account
℄ WILSON AVE STA. 15+91
Contractor to arrange with RR Co. for Crossing
B.M. - RR. Spike in base of switch stand marked WS&B. Elev. 113.24
℄ COOLIDGE Ave. STA. 22+80
B.M. - Top Fireplug N.W. Cor. Coolidge & N 1st. Elev. 114.70
McKnight
B.M. Top Fireplug N.W. Cor. N 1st & McKinley. Elev. = 111.24
B.M. Top Fireplug N.W. Cor. N 1st & Roosevelt. Elev. = 112.50
0+00
1
2
3
4
5+00
6
7
8
9
10+00
11
12
13
14
15+00
16
17
18
19
20+00
21
22
23
24
25
26+00
Grades
Proposed 4' TYPE C M.H. STA. 0+05
Proposed 4' TYPE C M.H. STA. 3+67
INV. EL. (SOUTH) 105.73
INV. EL. (NORTH) 105.73
Proposed 4' TYPE C M.H. STA. 7+64
INV. EL. (SOUTH) 107.29
San. Sewer
6" Water Line
08 512 0751 01 58141
59142
Existing M.H. STA. 15+91
Proposed 4' TYPE C M.H. STA. 22+85
INV. EL. (NORTH) 109.15
Gas
Water
Proposed 4' TYPE C M.H. STA. 25+46
INV. EL. (SOUTH) 110.36
120
110
100
10" Conc. Pipe S=.40% V=2.4 FT./SEC.
759' - 0' to 6'
10" Conc. Pipe S=.44% V=2.5 FT./SEC.
957' - 0' to 6'
10" CONC. PIPE S=.44% V=2.5

PLATE 2-PLAN-PROFILE · O.P.R.&R.E.
CHARLES BRUNING COMPANY, INC.

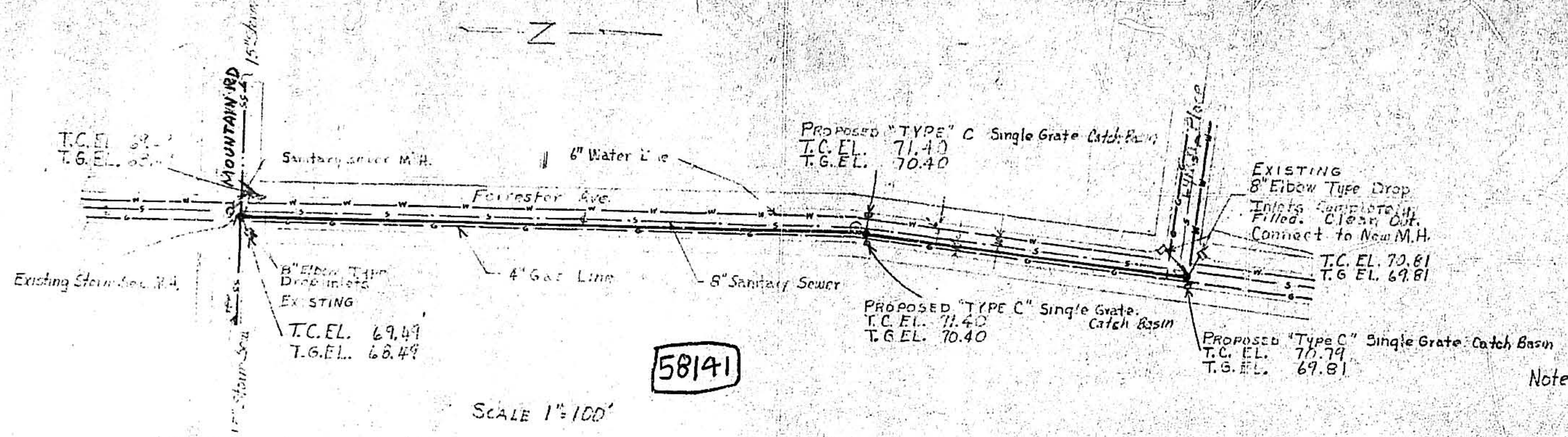
Sheet 7 of 8

2
58141
59142
SUMMER
HARRISON AVE
N. 2nd Street
16" Water Line 5'W ℄
8" Water Line 10'W ℄
2" Gas Line 10'E ℄
6" Water Line
8" Sanitary Sewer
3 Proposed Single Grate Type C-1 Catch Basin T.C. 109.2, T.G. 108.2 (North 2 inlets) T.C. 109.1 T.G. 108.1 (South 1 inlet) Elevations to be verified in field.
Proposed Single Grate Type C-1 Catch Basin T.C. -108.7 (Both Sides) T.G. -107.7 (Both Sides) These elevations to be verified in field.
Existing Storm Sewer M.H. 4' West & 2' North of Intersection of N 2nd and Harrison Ave. Make connection to Storm Sewer ... lateral ... from Sanitary sewer located on ℄ of ... Ave.
B.M. Top Fireplug S.W. Cor. Harrison & 1st Street. Elev. 111.43
NOTE: All gas lines approx. 2½' Underground. All water lines approx. 3' underground. T.C. – – Top of Curb. T.G. – – top of grate.
0+00
4+00
Grades
8" and 16" Water Lines
2" Gas
8" San. Sewer
24" Existing Storm Sewer
10" Conc. Pipe S=.30% V=2.4 FT./SEC.
368' – 0" to 6"
2" Gas Line
Existing 8" Elbow Type Storm Drain Catch Basin
NORTH 6th STREET
BREMER
COOLIDGE AVE.
HAWES
Existing Storm Sewer M.H. ½ Filled with Sand. Clean Out.
T.C. EL. 72.19 (Both Sides)
T.G. EL. 71.19 (Both Sides)
PROPOSED "TYPE C-1" Single Grate Catch Basin T.C. EL. 72.80 T.G. EL. 71.80
PROPOSED "TYPE C-1" Single Grate Catch Basin T.C. EL. 71.97 T.G. EL. 70.97
2" Gas Line, 323' S ℄ McKnight
McKNIGHT AVE.
8" San. Sewer
8+00
110
100
90
San. Sewer
10" CONC. PIPE S=.44% V=2.5 FT./SEC.
720' – 0" to 6"
6" Water Line
16" Water Line 5'W of ℄
2 Proposed Single Grate Type C-1 Catch Basin, T.C. 109.0, T.G. 108.0 (Elevations to be verified in field.)
8" Water Line 10'W of ℄ From Harrison to Roosevelt
2 Proposed Single Grate Type C-1 Catch Basin, T.C. 109.10, T.G. 108.1 (Elevations to be verified in field.)
6" Water Line 10'W of ℄ From Roosevelt to McKnight
2" Gas Line 20'W of ℄
NORTH FIRST STREET
HARRISON
KINLEY
McKINLEY
CONSTITUTION
ROOSEVELT
Existing Storm Drain Catch Basin Clogged. Clean Out. Connect to Storm Sewer M.H.
8" Sanitary Sewer
3 Proposed Single Grate Type C-1 Catch Basin North side - T.C. 109.6, T.G. 108.6 South side - T.C. 109.4, T.G. 108.4 Elevations to be verified in field.
B.M. Top Fireplug N.W. Cor. N 1st & McKinley. Elev. = 111.24
B.M. Top Fireplug N.W. Cor. N 1st & Roosevelt. Elev. = 112.50
Existing Storm Sewer M.H.
2" Water Line 10'N of ℄
4" H.P. Gas Line
ASPEN
WILSON AVE
HARVILL AVE
Existing Drop Inlets – 8" Elbow Type
Note: Clean Out Storm Sewer M.H. at Station 15+91 Payment by Force account
℄ WILSON AVE. STA. 15+91
SAWMILL
SPUR
Contractor to arrange with RR Co. for Crossing
B.M. – RR. Spike in base of switch stand marked W558. Elev. 113.24
6" Water Line
2" Gas Line
3 Proposed Single Grate Type C-1 Catch Basin. North side - T.C. 112.50 T.G. 111.50 South side - T.C. 112.10 T.G. 111.10 Elevations to verified in field
1½" Water Line
℄ COOLIDGE Ave. STA. 22+80
B.M. Top Fireplug N.W. Cor. Coolidge & N 1st. Elev. 114.70
2" H.P. Gas Line
2" Gas Line 130' S.
16" Water
4" Water
4" H.P. Gas
8" San. Sewer
McKnight
3 Proposed Single Grate Type C-1 Catch Basin. North side - T.C. 113.0 T.G. 112.0 South side - T.C. 112.8 T.G. 112.0 Elevations to be verified in field. Use 8" from inlets to manhole at this point
5+00
10+00
15+00
20+00
26+00
Gas
Water
6" Water Line
San. Sewer
120
110
100
08 512 0751 01 58141
59142
10" Conc. Pipe S=.40% V=2.4 FT./SEC.
759' – 0" to 6"
10" Conc. Pipe S=.34% V=2.5 FT./SEC.
957' – 0" to 6"
10" CONC. PIPE S=.44% V=2.6
PLAN
PROFILE

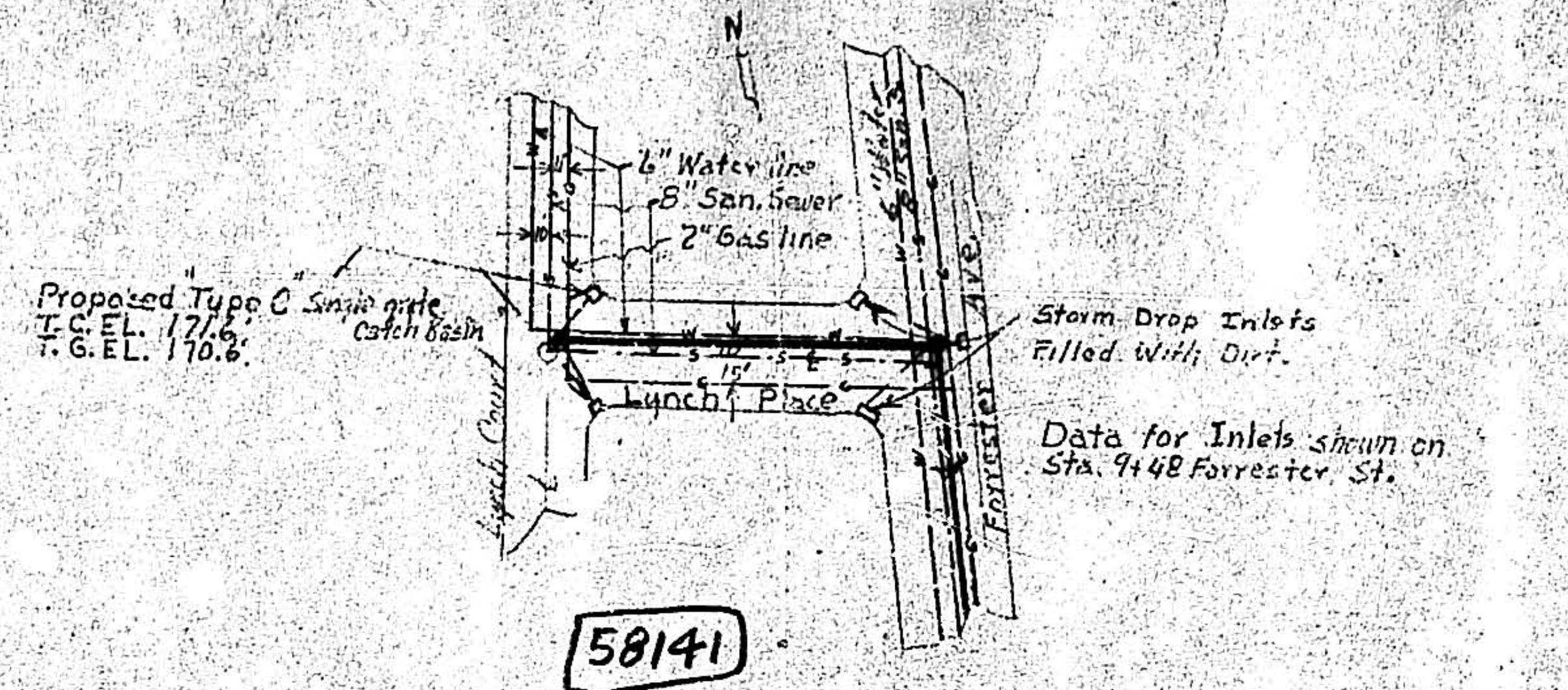
PLATE 2—PLAN—PROFILE O.P.R.&R.E.
CHARLES BRUNING COMPANY, INC.

Sheet 7 of 8

2



Note: T.C.---Top of Curb.
T.G.---Top of Grate.

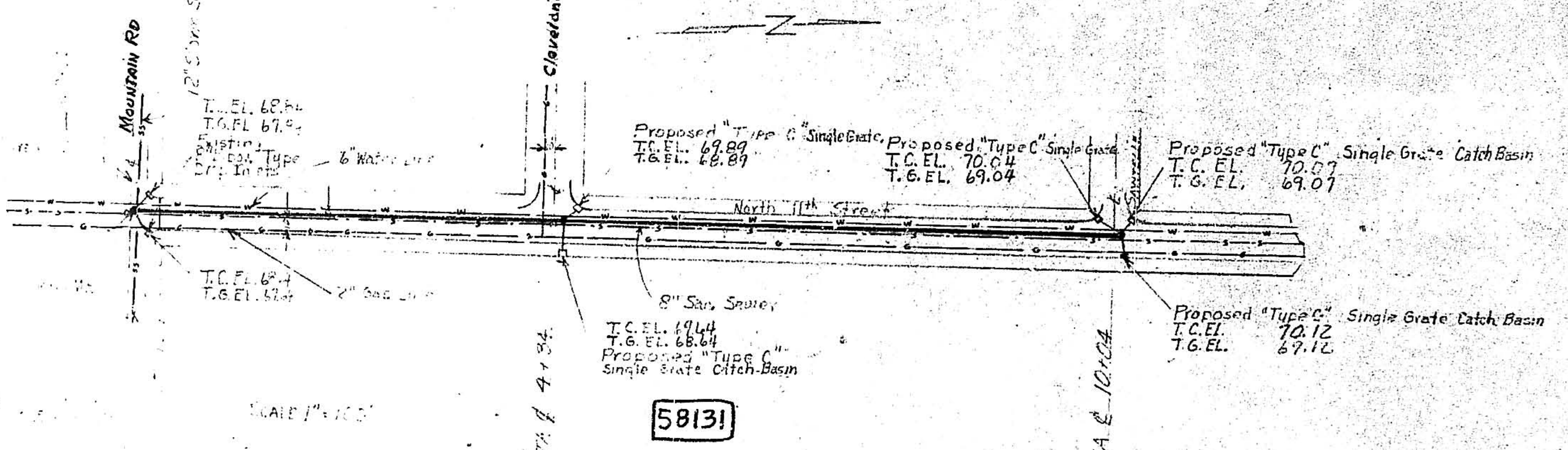

N
6" Water line
8" San. Sewer
2" Gas line
Proposed "Type C" Single grate Catch Basin
T.C. EL. 171.6'
T.G. EL. 170.6'
Lynch Court
Lynch Place
15'
Forrester Ave.
Storm Drop Inlets Filled With Dirt.
Data for Inlets shown on Sta. 9+48 Forrester St.
58141

* B.M. on top S.W. Corner Mt. Road & Forrester Elev. 172.00

* B.M.-V on top S.W. Curb Cor. Lynch Place & Forrester. Elev= 171.04

Note: All Waters Lines Approx 3' Under Ground.
All Gas Lines Approx 2.5' under ground.

Grades
0+00
1
2
3
4
5+00
6
7
8
9
10+00
180
170
160
Exist. Storm Sew. M.H. Sta. 0+00
Proposed Type C Storm Sew. M.H. Sta. 4+70
Proposed Type C Storm Sew. M.H. Sta. 9+48
Gas
10" Conc. Pipe S=.44% V=2.5 FT/SEC
470' - 6" to 8'
469' - 0' to 6'
0+00
1
2
3+00
Proposed 4' Type C M.H. Sta. 0+05 Storm Sew.
INV. EL. 167.48
Proposed 4' Type C M.H. Sta. 2+10
INV. EL. (SOUTH)
INV. EL. (WEST)
San. Sewer
2" Gas
6" Water
Sta. Identical to Sta. 9+48 Forrester Street.
10" Conc. Pipe S=.436% V=2.5
210' - 0' to 6'



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
0	8		5	1	2		0	8	5	1				0	1									5	8	1	4	1

58131

PLAN
NOTE BOOK
SURVEYED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
DATE

PROFILE

PLATE 2-PLAN-PROFILE O.P.R.&B.C.
CHARLES BRUNING COMPANY, INC.

Sheet 8 of 8

2
MOUNTAIN RD
Forrester Ave
T.C.EL. 69.49
T.G.EL. 68.49
Sanitary Sewer M.H.
6" Water Line
4" Gas Line
8" Sanitary Sewer
Existing Storm Sew. M.H.
8" Elbow Type Drop Inlets
EXISTING
T.C.EL. 69.49
T.G.EL. 68.49
Proposed "TYPE" C Single Grate Catch Basin
T.C.EL. 71.40
T.G.EL. 70.40
PROPOSED "TYPE C" Single Grate Catch Basin
T.C.EL. 71.40
T.G.EL. 70.40
EXISTING
8" Elbow Type Drop Inlets Completely Filled. Clean Out. Connect to New M.H.
T.C.EL. 70.81
T.G.EL. 69.81
Proposed "Type C" Single Grate Catch Basin
T.C.EL. 70.79
T.G.EL. 69.81
Lynch Place
58141
SCALE 1"=100'
Note: T.C.---Top of Curb.
T.G.---Top of Grate.
Note: All Waters Lines Approx. 3' Under Ground.
All Gas Lines Approx 2.5' under ground.
* S.W. Top Hydrant S.W. Cor Mt.Road. & Forrester Elev 172.00
* B.M.-V on top S.W. Curb Cor. Lynch Place & Forrester. Elev = 171.04
N
6" Water line
8" San. Sewer
2" Gas line
Proposed "Type C" Single grate Catch Basin
T.C.EL. 171.6
T.G.EL. 170.6
15'
Lynch Place
Forrester Ave
Storm Drop Inlets Filled With Dirt.
Data for Inlets shown on Sta. 9+48 Forrester St.
58141
Grade
0+00
1
2
3
4
5+00
6
7
8
9
10+00
180
170
160
Gas
10" Conc. PIPE - S=0.44% V=2.5 FT/SEC
470' - 6' to 8'
469' - 0' to 6'
0+00
1
2
3+00
San. Sewer
2" Gas
6" Water
Sta. identical to Sta. 9+48 Forrester Street
10" CONC. PIPE S=.438% V=2.5
PLAN
NOTE BOOK
ALIGNMENT CHECKED

PLATE 2-PLAN-PROFILE D.P.R.&R.C.
CHARLES BRUNING COMPANY, INC.

Sheet 8 of 8