1

CITY OF

ALBUQUERQUE—NEW MEXICO

STORM SEWER AREAS 1 & 8

AND

MISCELLANEOUS EXTENSIONS

INDEX

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2 GENERAL LAYOUT
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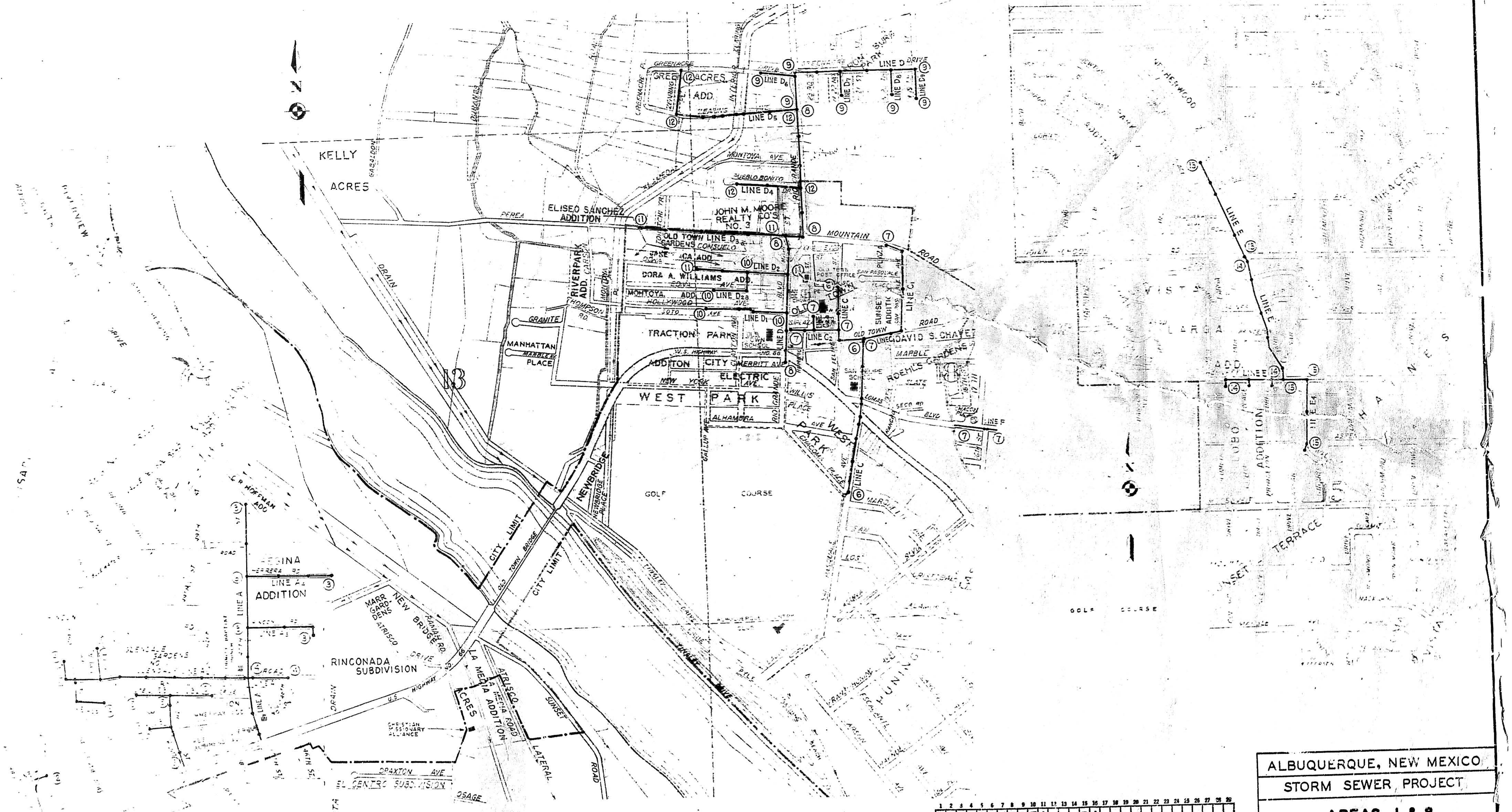
16 SIPHON STANDARDS
17 STORM SEWER STANDARDS
18 DROP INLET STANDARDS
19 CURB INLET STANDARDS

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	6	2		0	1	5	6				2	0													

stm Swr 1&8

GORDON HERKENHOFF AND ASSOCIATES INC. CONSULTING ENGINEERS

SHT 1 OF 19


N
KELLY ACRES
GREENACRES ADD.
LINE D₆
LINE D₅
LINE D DRIVE
LINE D₇
LINE D₈
LINE D₉
KINTOVA AVE
PUEBLO BONITO
LINE D₄
RIO GRANDE
PEREA
ELISEO SANCHEZ ADDITION
JOHN M. MOORE REALTY CO'S NO. 3
MOUNTAIN
ROAD
OLD TOWN GARDENS
LINE D₃
CONSUELO
DORA A. WILLIAMS ADD.
LINE D₂
MONTOYA ADD.
LINE D₂ₐ
HOLLYWOOD AVE
SOTO AVE
LINE D₁
RIVERPARK ADD.
THOMPSON RD.
GRANITE
MANHATTAN PLACE
MARBLE AVE
TRACTION PARK
LINE C
LINE C₁
LINE C₂
SUNSET ADDITION
OLD TOWN ROAD
DAVID S. CHAVEZ
ROEHL'S GARDENS
ADDITION CITY
MERRITT AVE
ELECTRIC
NEW YORK AVE
WEST PARK
ALHAMBRA
WEST PARK PLACE
LINE F
DRAIN
13
NEWBRIDGE PLACE
CITY LIMIT
OLD TOWN BRIDGE
GOLF COURSE
LINE E
MIRACERROS ADD.
VISTA LARGA ADD.
LINE E₁
LINE E₄
LOBO ADDITION
SUNSET TERRACE
GOLF COURSE
REGINA ADDITION
HERRERA RD.
LINE A₁
LINE A₂
LINE A
MARR GARDENS
NEW BRIDGE
RINCONADA SUBDIVISION
U.S. HIGHWAY
ATRISCO
LA MEDIA ADDITION
CHRISTIAN MISSIONARY ALLIANCE
SUNSET ROAD
LATERAL
CRAXTON AVE
EL CENTRO SUBDIVISION
OSAGE
ISLETA
GLENDALE GARDENS
HUNING

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	6	2		0	2	5	6				2	1													

GENERAL LAYOUT

ALBUQUERQUE, NEW MEXICO

STORM SEWER PROJECT

AREAS 1 & 8
AND
MISCELLANEOUS EXTENSIONS

HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
SANTA FE ALBUQUERQUE

SCALE	DATE	DRAWN D.G.S.	SHEET 2
1" = 500'	MAR. 1955	CHECKED G.H.	OF

CENTRAL AVE. N.W.
WEST
M.R.G.C.D.
MAP 39
47TH ST. N.W.
UTE DR. N.W.
GLENDALE ADD.
GLENDALE RD. N.W.
NO 1
ZIMMERMANN ADD.
RINCONADA ADD.
MAP 39
M.R.G.C.D.
57121
58122
RINCON RD. N.W.
MAP 38
REGINA
HERRERA RD. N.W.
MAP 38
2ND ADD.
M.R.G.C.D.
BLUEWATER RD. N.W.
REGINA
2ND ADD.
DRIVE N.W.
ATRISCO
MAP 38
M.H. 1+35
M.H. 4+02
M.H. 4+95
M.H. 7+00
M.H. 9+00
M.H. 12+15
M.H. 17+30
M.H. 20+95
M.H. 25+05
8" San. Swr.
4960
4950
4940
100'-RCP-36" S=.0012
1030'-RCP-30" S=.0012
775'-RCP-27" S=.0012
8" San. 43.00
8" San. 44.23
LINE A
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
47TH ST. N.W.
REGINA
HERRERA RD. N.W.
ADDITION
M.R.G.C.D.
MAP 38
58122
ATRISCO DR. N.W.
M.H. 17+30 = 0+00
M.H. 4+00
M.H. 8+00
08 562 0356 01 57121 58122
47TH ST. N.W.
MAP 38
RINCON RD. N.W.
MH. 6+60
M.R.G.C.D.
58122
MAP 38
ISLETA
DRAIN
MH. 8+00
800'-RCP-15" S=.0012
235'-RCP-12" S=.0012
LINE A4
800'-RCP-12" S=.0012
LINE A3
0 1 2 3 4 5 6 7 8 9 10 11
0 1 2 3 4 5 6 7 8 9
PLAN
PROFILE
DRAWING 2-PLAN-PROFILE
CHARLES BRUNING COMPANY, INC.

Note: Replace 8" Sanitary Sewer Lines with 8" C.I.P. Class 125 through Manholes 4+95
7+00
20+95 & provide 3' drop under Sanitary Sewer.

STORM SEWER FOR AREAS 1&8
PLAN & PROFILE SHEET NO. 3

3

MAP 39
126 a
GLENDALE RD. N.W.
47TH ST. N.W.
46 TH ST. N.W.
"C" RINCONADA ADDITION
57121
DRAIN
ISLETA
GLENDALE
53 RD
ST. N.W.
RD. N.W.
GARDENS ADD. NO.2
128-b Map 39
RINCON
57111
58112
GLENDALE GARDENS ADD. NO.2
EVENSDALE
EVENSDALE RD. N.W.
SUBDIV.
ARENAL CANAL
T-3
LINE A-1
450'-RCP-12"
S=.0012
LINE A-2
225'-RCP-12"
S=.0012
LINE A2-b
575'-RCP-12"
S=.0012
4960
4950
4940
0 1 2 3 4 5 6 7 8 9 20 21 22 23 24 25 26 27 0 1 2 3 4 5 6 7 8
UTE DR. N.W.
GLENDALE GARDENS
SUBDIV. OF TR. #5 GLENDALE GARDENS NO. 2
47TH ST. N.W.
49TH ST. N.W.
ADDITION NO.1
MAP 39
CANAL
ARENAL
128 b MAP 39
GLENDALE GARDENS
51 ST. N.W.
53 RD ST. N.W.
ADDITION NO.2
RINCON RD. N.W.
51 ST
ARENAL CANAL
LINE A-2
1805'-RCP-24"
S=.0012
LINE A-2a
300'-RCP-12"
S=.0012
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 0 1 2 3 4
PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK
NO.
PROFILE
GRADES CHECKED
STRUCTURE NOTATIONS CHECK

STORM SEWER FOR AREAS 1&8
PLAN & PROFILE SHEET NO 4

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

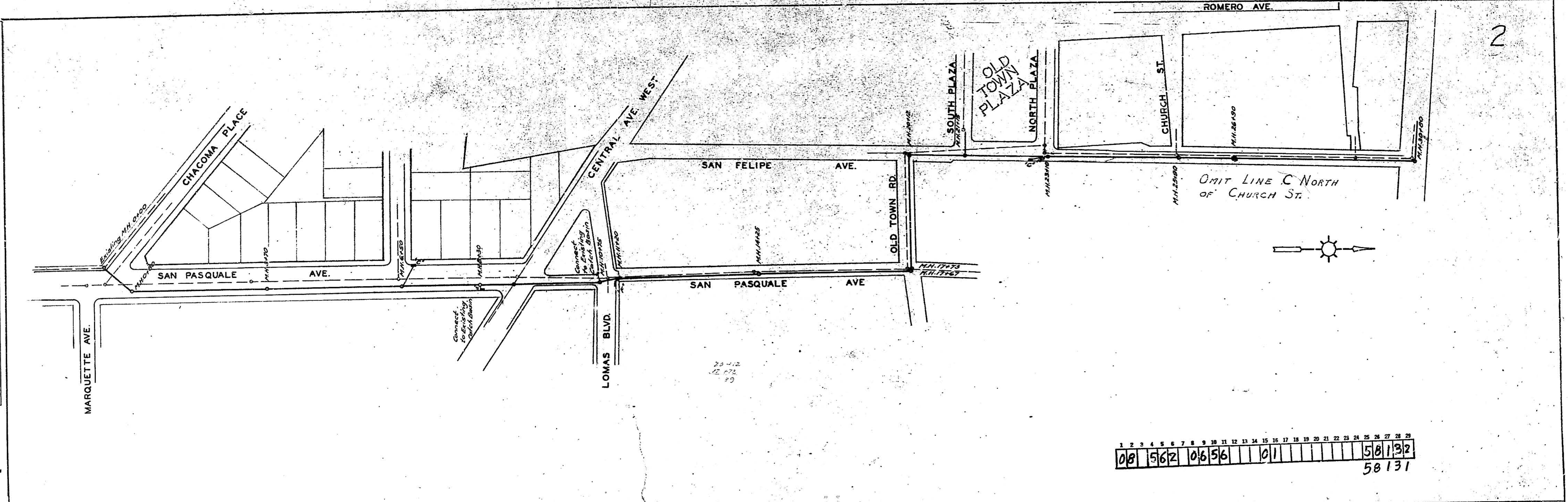
2
GLENDALE GARDENS
THE PALISADES ADD.
PAT HURLEY PARK
RINCON RD. N.W.
RINCON CRT.
53RD ST
51ST ST
ARENAL
WEST ALBUQUERQUE ADDITION
WEST CENTRAL AVE.
50TH
LOMBARDY RD N.W.
MERSMAN ADDITION
UTE ADD
UTE DR. N.W.
MAP 39
OMIT
370'-RCP-12"
S=.002
50'-RCP-36"
S=.0012
595'-RCP-21"
S=.0012
LINE B
4960
4950
4940
GLENDALE RD. N.W.
GLENDALE GARDENS ADDITION NO. 1
CANAL
UTE DR. N.W.
"UTE" ADDITION
MERSMAN ADDITION
MAP 39
47TH ST
50TH ST
WEST ALBUQUERQUE ADD.
LOMBARDY RD. N.W.
MERSMAN ADD.
M.R.G.C.D. MAP 39
350'-RCP-12"
S=.0012
325'-RCP-12"
S=.0012
320'-RCP-12"
S=.0012
8" San. 44.30
LINE B
LINE B-2
LINE B-1
57111
57121
08 562 0556 01 57111
PLAN
PROFILE

STORM SEWER FOR AREAS 1&8
PLAN & PROFILE SHEET NO 5

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

2

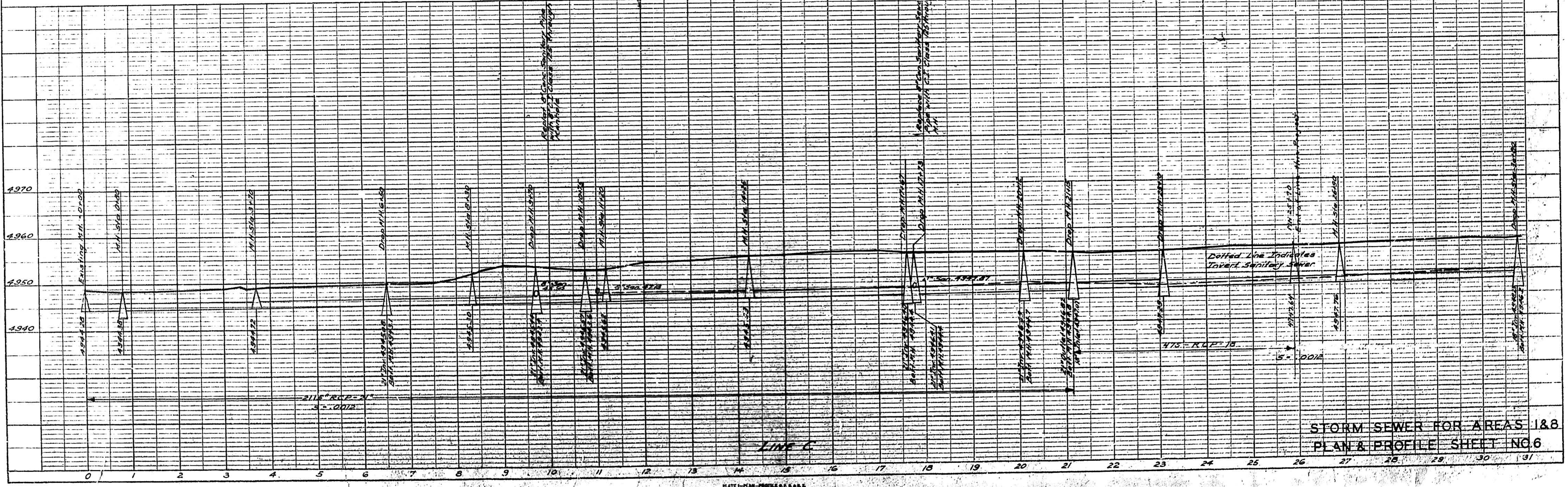
PLAN		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	ALIGNMENT CHECKED		
	RT O. WAY CHECKED		


ROMERO AVE.
CHACOMA PLACE
Existing M.H. 0+00
M.H. 0+80
M.H. 3+70
SAN PASQUALE AVE.
M.H. 6+50
M.H. 8+30
Connect to Existing Catch Basin
MARQUETTE AVE.
CENTRAL AVE. WEST
Connect to Existing Catch Basin
M.H. 10+75
M.H. 11+20
LOMAS BLVD.
SAN FELIPE AVE.
M.H. 14+25
SAN PASQUALE AVE
OLD TOWN RD.
M.H. 17+73
M.H. 17+67
M.H. 20+12
SOUTH PLAZA
M.H. 21+15
OLD TOWN PLAZA
NORTH PLAZA
"C"
M.H. 23+10
CHURCH ST.
M.H. 25+90
M.H. 26+90
M.H. 30+80
OMIT LINE C NORTH OF CHURCH ST.

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	6	2		0	6	5	6				0	1									5	8	1	3	2

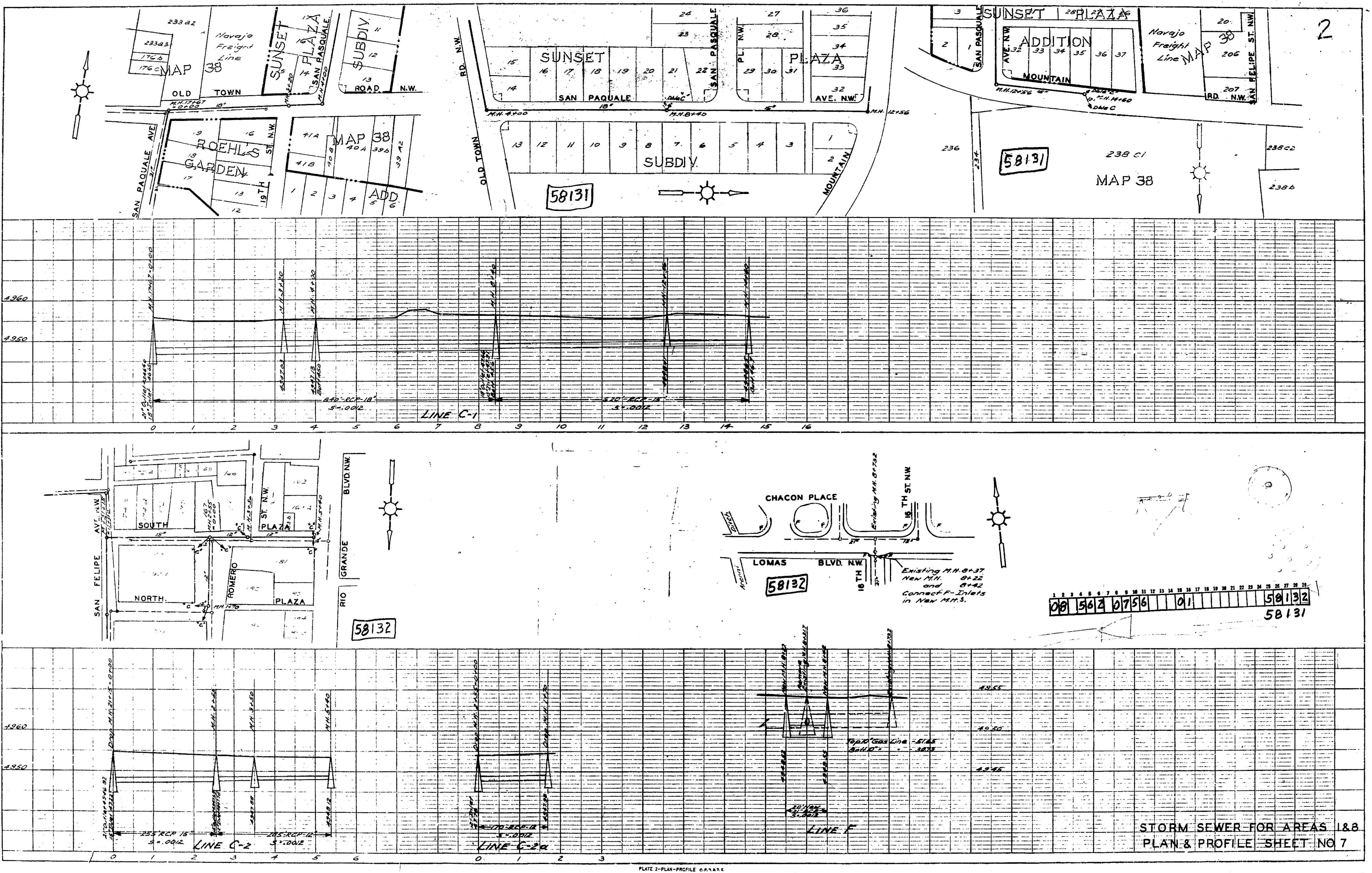
58131

PROFILE		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	GRADES CHECKED		
	B. M.'s NOTED		
	STRUCTURE NOTATIONS CH'CK.		


4970
4960
4950
4940
Existing M.H. 0+00
4944.28
M.H. Sta. 0+80
4944.38
M.H. Sta. 3+70
4944.72
Drop M.H. 6+50
21" Inv. 4945.08
Bott. M.H. 4943.1
M.H. Sta. 8+30
4945.30
Drop M.H. 9+70
Drop M.H. 10+75
M.H. Sta. 11+20
8" San. 4948
M.H. Sta. 14+25
4945.53
Drop M.H. 17+67
Drop M.H. 17+73
8" San. 4947.87
Drop M.H. 20+12
Drop M.H. 21+15
21" Outlet 4946.82
Drop M.H. 23+10
4947.29
MH 25+70
4947.64
M.H. Sta. 26+90
4947.76
Drop M.H. Sta. 30+80
Dotted Line Indicates Invert Sanitary Sewer
2115' RCP-21"
S=.0012
475 - RCP - 18
S=.0012
LINE C
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

STORM SEWER FOR AREAS 1&8
PLAN & PROFILE SHEET NO. 6

CHARLES BRUNING COMPANY INC.


2
MAP 38
Navajo Freight Line
SUNSET PLAZA
SUBDIV.
OLD TOWN ROAD N.W.
SAN PASQUALE
ROEHL'S GARDEN
19TH ST. N.W.
ADD.
M.H. 17+67 =0+00
M.H. 3+20
M.H. 4+00
SAN PAQUALE AVE. NW
M.H. 4+00
M.H. 8+40
M.H. 12+56
OLD TOWN RD. N.W.
MOUNTAIN
58131
SUNSET PLAZA ADDITION
M.H. 14+60
RD. N.W.
SAN FELIPE ST. N.W.
4960
4950
840'-RCP-18"
S=.0012
520'-RCP-15"
S=.0012
LINE C-1
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
SAN FELIPE AVE N.W.
SOUTH
NORTH
ROMERO
ST. N.W.
PLAZA
RIO GRANDE BLVD. N.W.
58132
CHACON PLACE
Existing M.H. 8+73.2
16TH ST. N.W.
LOMAS BLVD. N.W.
Arenal
Ditch
Existing M.H. 8+37
New M.H. 8+22
and 8+42
Connect F-Inlets
in New M.H.S.
08 562 0756 01 58132
58131
Drop M.H. 21+5 =0+00
M.H. 2+55
M.H. 3+50
M.H. 5+40
Drop M.H. =0+00
Drop M.H. 1+70
255'-RCP 15"
S=.0012
285'-RCP-12"
S=.0012
LINE C-2
170'-RCP-12"
S=.0012
LINE C-2a
Top 10" Gas Line
LINE F
4955
4950
4945
0 1 2 3 4 5 6
0 1 2 3
PLAN
PROFILE

STORM SEWER FOR AREAS 1&8
PLAN & PROFILE SHEET NO 7

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

2

PLAN
J. ROMERO ADD. NO. 2
TRACTION PARK ADD.
MAP 38
M.R.G.C.D.
MERRITT AVE. N.W.
Milne & Shuffelbarger AVE.
HOLLYWOOD AVE. N.W.
DORA A. WILLIAMS ADDITION
FIRST DR. N.W.
DORA
JAKE BACA ADD.
OLD TOWN GARDENS ADD.
J.M. MOORE REALTY CO. ADD. NO. 3
MAIN ST. N.W.
MOUNTAIN RD. N.W.
PUEBLO BONITO ADDITION
PUEBLO BONITO DR. N.W.
CARSON ROAD N.W.
J. R. Simpson
ZEARING AVE. N.W.
RIO GRANDE BLVD. N.W.
24" Storm Swr.
18" San. Swr.
Existing 24" Storm Swr.
WEST CENTRAL
ST. N.W.
ROMERO ST. N.W.
PLAZA
Plaza
San Felipe de Neri Church
CHARLEVOIX
238b
238a
239 A R. F. Peffley
Blysher & Roehl
Map 35 Tr. 340-B The Morey Merc. Co.
R.F.E.F. Ry.
Map 35 Tr. 340 A2 Santa Fe Land & Imp. Co.
Map 35 Tr. 340A1 Wm. Volker & Co.
MAP 35

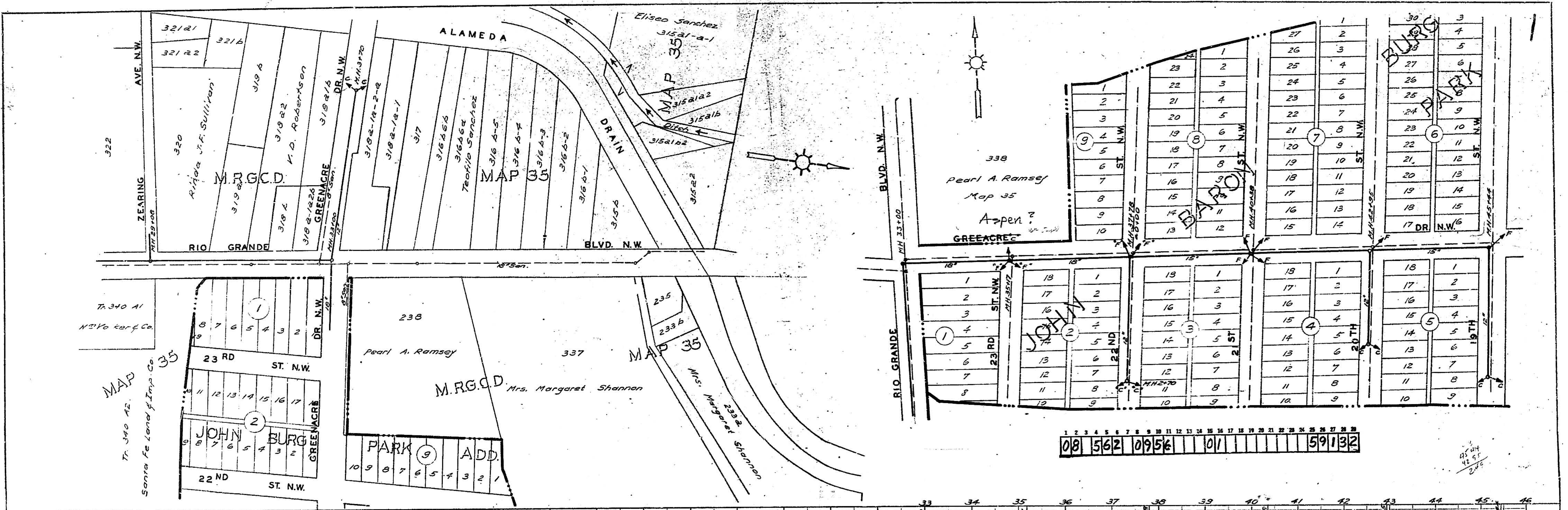
Note: Replace 8" San. Sewer
with 8" C.I. Class 125 Pipe
through M.H. Sta. 20+78
and provide 2' drop under Sanitary.

PROFILE
Existing M.H. 0+00
Drop M.H. 1+10
M.H. 3+12
Drop M.H. 4+92
M.H. 9+35
Drop M.H. 12+50
M.H. 13+30
Drop M.H. 15+15
M.H. 17+85
M.H. 20+50
Drop M.H. 20+78
M.H. 23+20
M.H. 26+10
8" San. 45.39
8" San. 50.36
8" San. 49.10
4960
4950
4940
1515'-RCP-24" S=.00128
805'-RCP-24" S=.0018
588'-RCP-24" S=.0012
LINE D
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

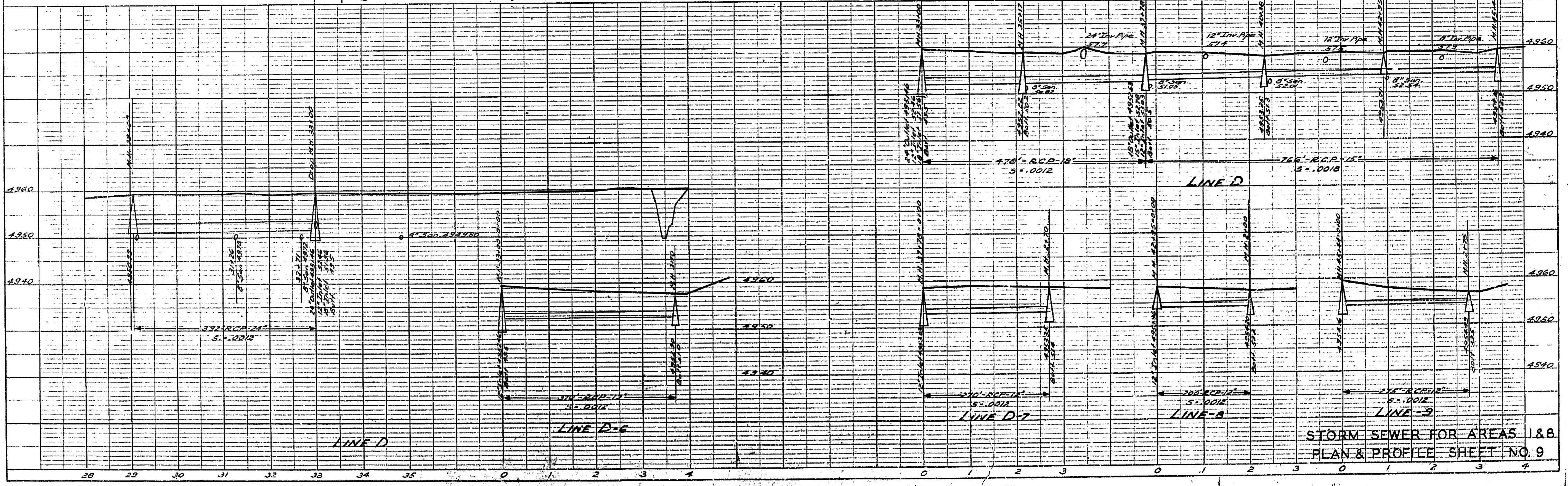
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
0	8		5	6	2		0	8	5	6				0	1									5	8	1	3	1

59132

STORM SEWER FOR AREAS 1&8
PLANS PROFILE SHEET NO. 8


ALAMEDA
Eliseo Sanchez
315a1-a-1
MAP 35
315a1a2
315a1b
Ditch
315a1a2
DRAIN
315b2
321a1
321b
321a2
322
320
Ainda J.F. Sullivan
319b
318a2
V. D. Robertson
318a1b
318a1a2b
318b
319a
M.R.G.C.D.
MAP 35
318a-1a-2-a
318a-1a-1
317
316bb
316b6a
Teofilo Sanchez
316b-5
316b-4
316b-3
316b-2
316b-1
315b
ZEARING
AVE. N.W.
GREENACRE
DR. N.W.
MH 33+00
MH 37+70
RIO GRANDE
BLVD. N.W.
MH 29+08
18" San.
Tr. 340 A1
N.M. Vokar & Co.
MAP 35
Tr. 340 A2
Santa Fe Land & Imp. Co.
23 RD
ST. N.W.
22 ND
ST. N.W.
JOHN
BURG
PARK
ADD.
GREENACRE
DR. N.W.
238
Pearl A. Ramsey
M.R.G.C.D.
337
Mrs. Margaret Shannon
MAP 35
235
233b
233a
Mrs. Margaret Shannon
338
Pearl A. Ramsey
Map 35
Aspen?
GREEACRE
BLVD. N.W.
RIO GRANDE
MH 33+00
MH 35+17
MH 37+78
MH 40+40
MH 42+95
MH 45+44
MH 2+70
23 RD
ST. N.W.
22 ND
21 ST
20 TH
19 TH
ST. N.W.
DR. N.W.
JOHN
BARO
BURG
PARK
18"
15"
12"
F
C

08 562 0956 01 59132

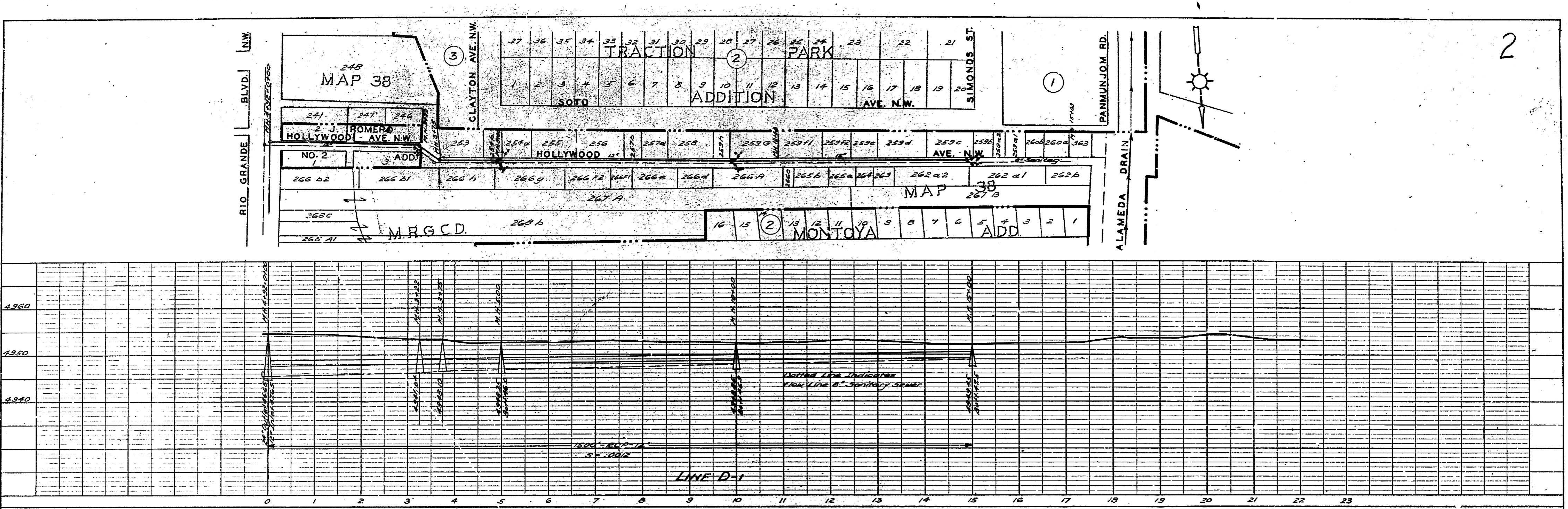

4960
4950
4940
28
29
30
31
32
33
34
35
0
1
2
3
4
M.H. 29+08
Drop M.H. 33+00
8" San. 4949.80
392'-RCP-24"
S=.0012
LINE D
M.H. 33+00=0+00
M.H. 3+70
370'-RCP-12"
S=.0012
LINE D-6
33
34
35
36
37
38
39
40
41
42
43
44
45
46
M.H. 33+00
M.H. 35+17
M.H. 37+78
M.H. 40+40
M.H. 42+95
M.H. 45+44
24" Irr. Pipe
12" Irr. Pipe
12" Irr. Pipe
8" Irr. Pipe
8" San.
478'-RCP-18"
S=.0012
766'-RCP-15"
S=.0018
LINE D
M.H. 37+78=0+00
M.H. 2+70
270'-RCP-12"
S=.0012
LINE D-7
M.H. 40+40=0+00
M.H. 2+00
200'-RCP-12"
S=.0012
LINE-8
M.H. 45+44=0+00
M.H. 2+75
275'-RCP-12"
S=.0012
LINE-9

STORM SEWER FOR AREAS 1&8
PLAN & PROFILE SHEET NO. 9

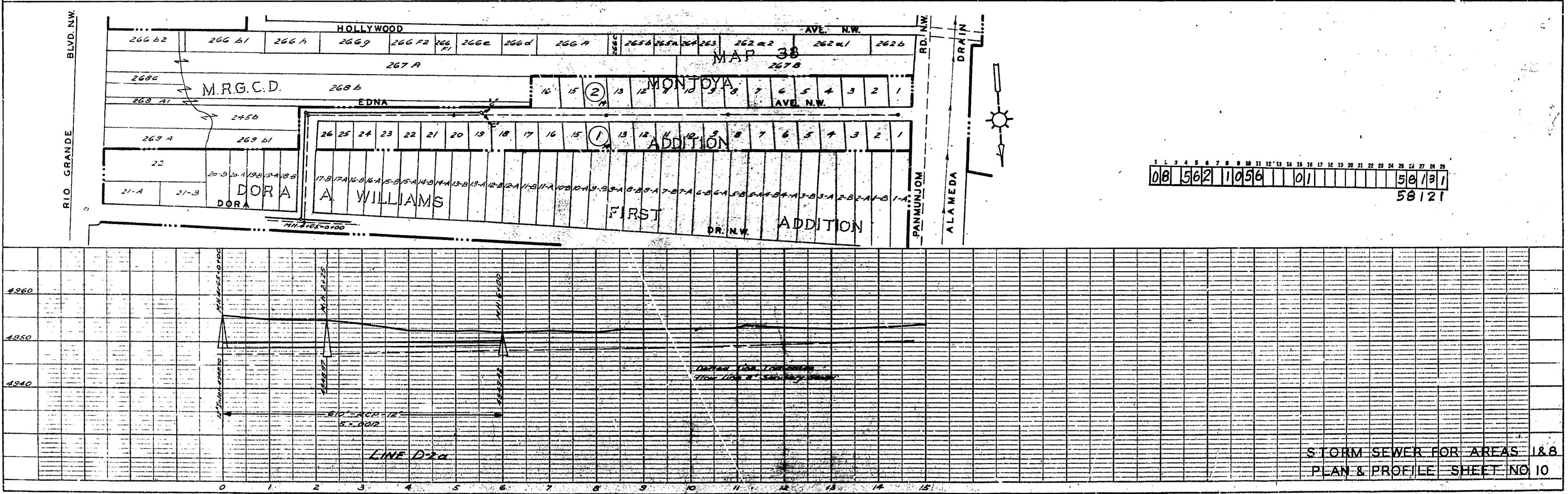
PLATE 1—PLAN—PROFILE
CHARLES BRUNING COMPANY, INC.

2

PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE


RIO GRANDE BLVD. N.W.
MAP 38
248
241
247
246
2 J. ROMERO
HOLLYWOOD AVE. N.W.
NO. 2
ADD.
CLAYTON AVE. N.W.
TRACTION ③ ② PARK ADDITION
SOTO AVE. N.W.
SIMONDS ST.
PANMUNJOM RD.
ALAMEDA DRAIN
M.R.G.C.D.
② MONTOYA ADD.
266 b2
266 b1
266 h
266 g
266 F2
266 e
266 d
266 A
265 b
265 a
264
263
262 a2
262 a1
262 b
267 A
267 B
268 c
268 b
269 A1
4960
4950
4940
M.H. 4+92=0+00
M.H. 3+22
M.H. 3+75
M.H. 5+00
M.H. 10+00
M.H. 15+00
24" Outlet 4946.5
12" Inlet 4947.65
4947.04
4948.10
4946.25
4949.45
Dotted Line Indicates
Flow Line 8" Sanitary Sewer
1500'-RCP-12"
S=.0012
LINE D-1
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'S NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE


RIO GRANDE BLVD. N.W.
HOLLYWOOD AVE. N.W.
MAP 38
M.R.G.C.D.
② MONTOYA
EDNA AVE. N.W.
① ADDITION
DORA A. WILLIAMS FIRST ADDITION
DORA DR. N.W.
PANMUNJOM RD. N.W.
ALAMEDA DRAIN
M.H. 4+65=0+00
266 b2
266 b1
266 h
266 g
266 F2
266 e
266 d
266 A
265 b
265 a
264
263
262 a2
262 a1
262 b
267 A
267 B
268 c
268 b
269 A1
245 b
269 A
269 b1
22
21-A
21-B
4960
4950
4940
M.H. 4+65=0+00
M.H. 2+25
M.H. 6+00
12" Inlet 4947.70
4948.57
4949.12
Dotted Line Indicates
Flow Line 8" Sanitary Sewer
610'-RCP-12"
S=.0012
LINE D-2a
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
PLATE - 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
08	562	1056		01		58131

58121

STORM SEWER FOR AREAS 1&8
PLAN & PROFILE SHEET NO 10

2

OLD TOWN GARDENS
CONSUELO DR. N.W.
ADDITION
CHARLEVOIX ST. N.W.
SAN FELIPE ST. N.W.
MAP 38
J.M. MOORE
ELISEO SANCHEZ SUBDIV.
MOUNTAIN RD. N.W.
DRAIN
Bluehar & Roehl
M.R.G.C.D.
RIO GRANDE BLVD.
MAIN ST.
CONSUELO PL. N.W.
REALTY CO. ADDITION
TOHATCHI ADDITION
TOHATCHI TRAIL
ALAMEDA
A
B
C
4960
4950
4940
M.H. 13 30+0+00
24" Outlet 4949.23
15" Inlet 4949.23
47.75
M.H. 4+35
4949.75
Prop. M.H. 6+10
Bott. 49.0
M.H. 10+60
4950.30
Prop. M.H. 15+10
Bott. 49.0
610' - RCP - 15"
S = .0012
900' - RCP - 12"
S = .0012
Dotted Line Indicates Flow Line of Sanitary Sewer.
LINE D-3
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
PLAN

MAP 38
DORA A. WILLIAMS FIRST ADDITION
DORA DRIVE N.W.
RIO GRANDE BLVD N.W.
JAKE BACA ADD.
OLD TOWN GARDENS
CONSUELO DR. N.W.
ADD.
M.R.G.C.D.
ELISEO
SAÑCHEZ SUBDIV.
DRAIN
ALAMEDA
4960
4950
4940
M.H. 9135+0+00
15" Inlet 4948.14
24" Outlet 4947.39
M.H. 4+65
8" San. 47.06
15" Outlet 4940.75
12" Inlet 4949.25
Bott. 47.1
M.H. 7+80
47.86
4949.33
Bott. 49.3
M.H. 11+00
48.43
4949.71
Bott. 47.7
465' RCP - 15"
S = .0012
635' RCP - 12"
S = .0012
Dotted Line indicates Flow Line 8" Sanitary Sewer
LINE D-2
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
PROFILE

08 562 1156 01 58131
58121

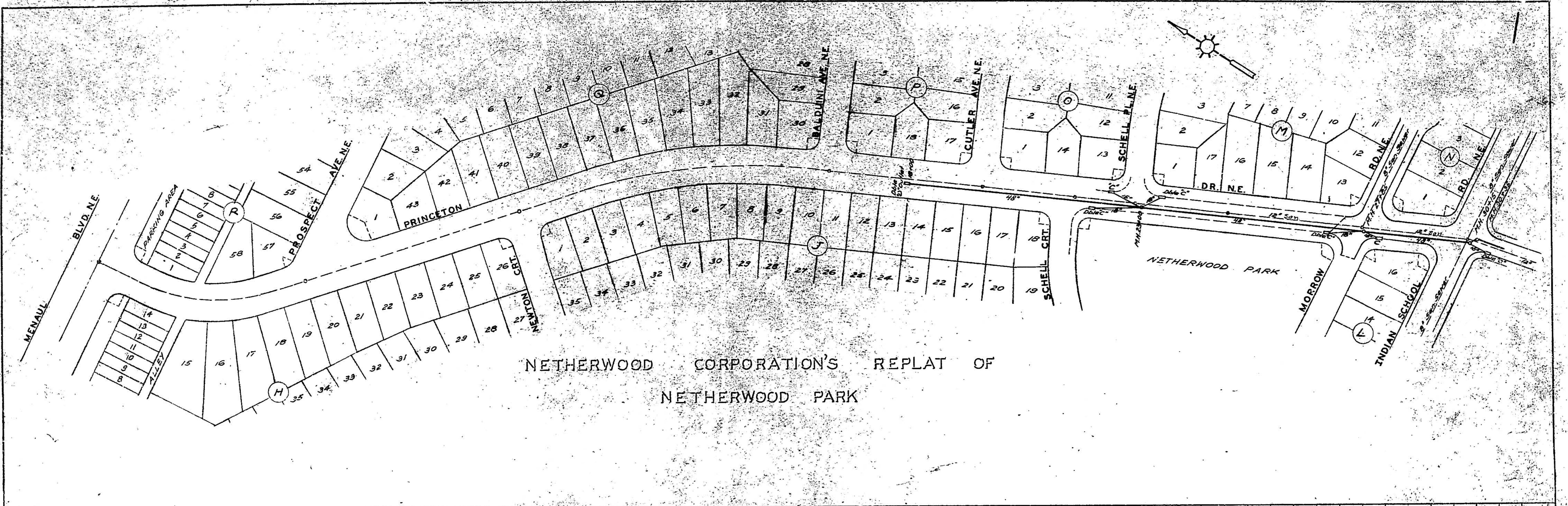
STORM SEWER FOR AREAS 1&8
PLAN & PROFILE SHEET NO. 11

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

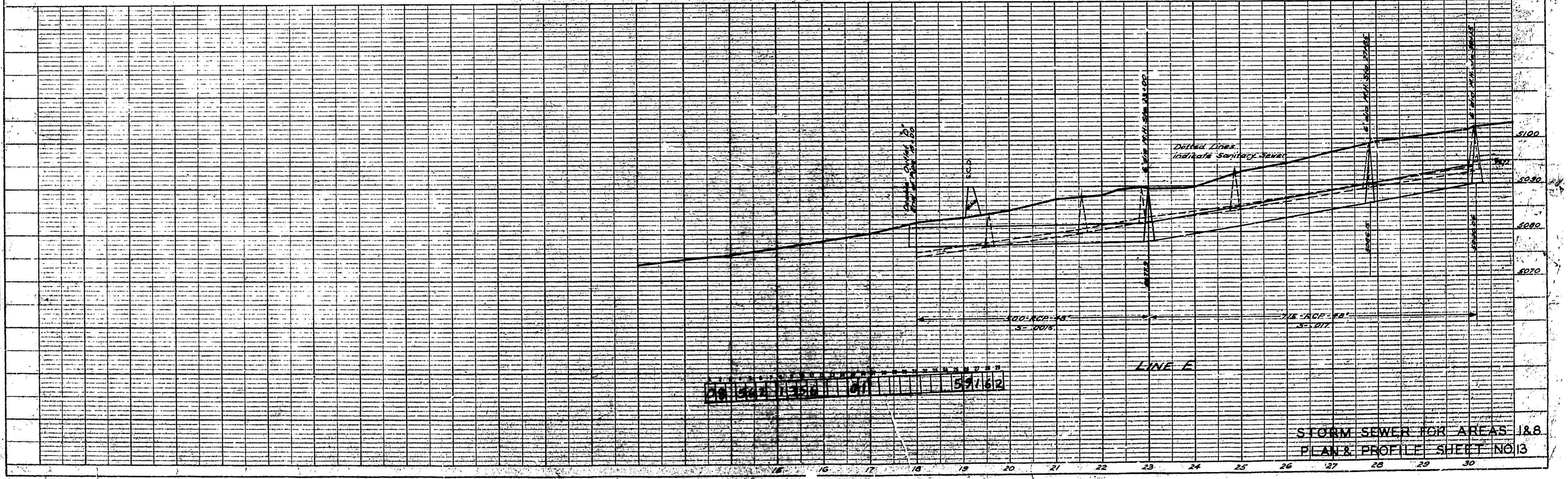
4
YUCCA
DR. N.W.
LAVALAND ADD
MEZCAL CIRCLE
ESPERANZA DR.N.W.
57111
ROSS
CARDENAS
DR.
SCHOOL BOARD OF EDUCATION
WOODROW WILSON JUNIOR HIGH SCHOOL SITE
15
16
23
24
56182
SAN PEDRO
DR. S.E.
AVE. ~~N.E.~~ S.E.
Remove Ant. & Gutter Line
Remove Co. Returns
60 New Cb. & Gutter
Dble C Inlet
Note: Line H not indicated on Layout Sheet
GREEN ACRE SUBD.
ZEARING AVE. N.W.
ZEARING PL. N.W.
GREENACRE DR. N.W.
M.H. 13+00
Replat of Tract "A"
Connect to Existing M.H. 18+00
59132
5040
5030
5020
5310
5300
5290
4960
4950
110'-RCP-18"
S=.0012
LINE G
630'-RCP-18"
S=.013
LINE H
500'-RCP-12"
S=.0012
LINE D-5
0 1 2 3
7 6 5 4 3 2 1 0
13 14 15 16 17 18 19
MAP 35
322
320
323
Ringo T. F. Sullivan
S. Phillipps
F. D. Robertson Sr.
289 B
M.R.G.C.D. Map 38
M.R.G.C.D. Map 35
RIO GRANDE BLVD. N.W.
ZEARING AVE. N.W.
ALAMEDA DRAIN
PLUM ST. N.W.
ZEARING PL. N.W.
GREEN ACRE SUBD.
Replat of Tract "A"
59132
M.H. 13+00
BUEBLO BONITO DR. N.W.
Storm Sewer behind Curb
Replace Shrubbery, Walks & Drives
M.H. 20+50 = 0+00 Line D-4
Existing M.H. 6+58
M.H. 3+20
12"
58131
4960
4950
4940
575'-RCP-15"
S=.0012
80' C.M.C.
18" Dia. Pay Item
12 Ga. See Spec.
645'-RCP-15"
S=.0012
LINE D-5
658'-RCP-12"
S=.0012
LINE D-4
0 1 2 3 4 5 6 7 8 9 10 11 12 13
7 6 5 4 3 2 1 0
57111
56182
59132
58131
PLAN
PROFILE
NOTE BOOK
SURVEYED
PLOTTED
CHECKED

STORM SEWER FOR AREAS 1&8
PLAN & PROFILE SHEET NO. 12

PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE


NETHERWOOD CORPORATION'S REPLAT OF NETHERWOOD PARK
MENAUL BLVD. N.E.
PARKING AREA
PROSPECT AVE. N.E.
PRINCETON
ALLEY
NEWTON CRT.
BALDUINI AVE. N.E.
CUTLER AVE. N.E.
SCHELL PL. N.E.
SCHELL CRT.
DR. N.E.
RD. N.E.
NETHERWOOD PARK
MORROW
INDIAN SCHOOL
R
Q
P
O
M
N
H
J
V
48"
12" San.
8" San. Sewer

PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
GRADES CHECKED
B. M. NOTED
STRUCTURE NOTATNS CH'CK
BY
DATE


Outlet "D" End of Pipe 18+00
S.C.D.
6' dia. M.H. Sta. 23+00
6' dia. M.H. Sta. 27+85
6' dia. M.H. Sta. 30+15
Dotted Lines indicate Sanitary Sewer
5077.9
5086.5
5090.06
5100
5090
5080
5070
500-RCP-48"
S=.0015
715-RCP-48"
S=.017
LINE E
59162
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30

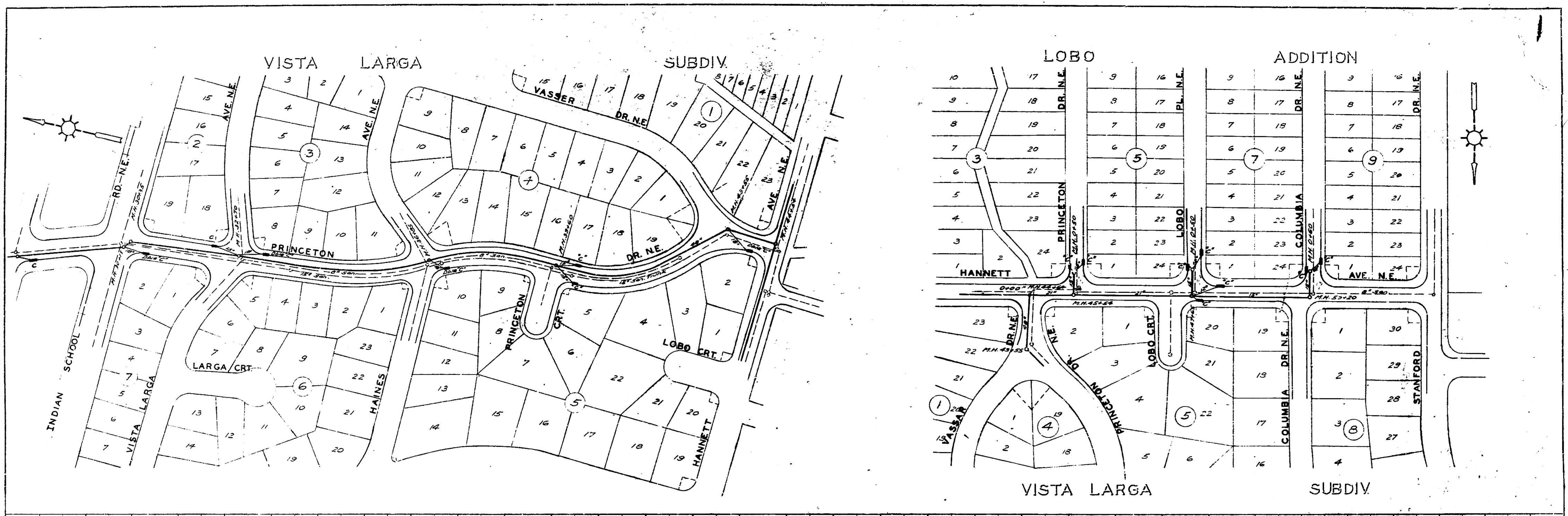
STORM SEWER FOR AREAS 1&8
PLAN & PROFILE SHEET NO.13

PLATE 1—PLAN—PROFILE
CHARLES BRUNING COMPANY, INC.

PLAN

	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT OF WAY CHECKED		

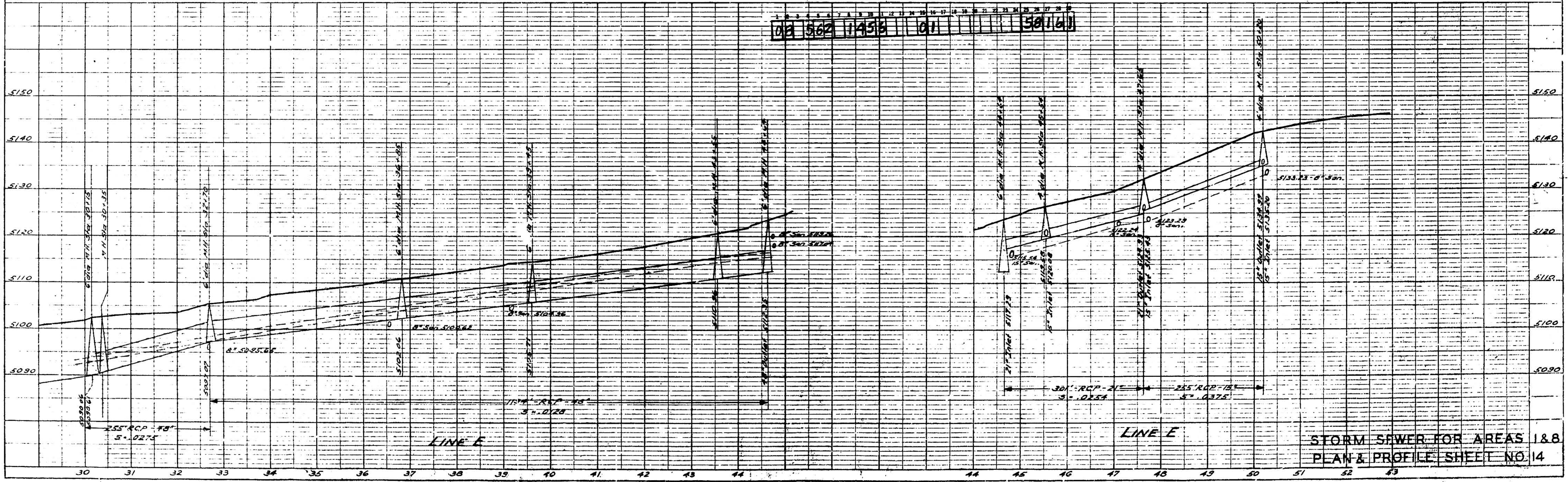
NOTE BOOK
NO


VISTA LARGA SUBDIV.
LOBO ADDITION
VISTA LARGA SUBDIV.
PRINCETON
VASSER DR. N.E.
AVE. N.E.
DR. N.E.
INDIAN SCHOOL RD. N.E.
VISTA LARGA
LARGA CRT.
HAINES
PRINCETON CRT.
LOBO CRT.
HANNETT
HANNETT AVE. N.E.
PRINCETON DR. N.E.
LOBO PL. N.E.
COLUMBIA DR. N.E.
STANFORD DR. N.E.
VASSAR DR. N.E.
PRINCETON DR. N.E.
8" San.
15" San.
18" San. Trunk
M.H. 43+55
M.H. 45+54
M.H. 50+20
0+00 = M.H. 44+66

PROFILE

NOTE BOOK	SURVEYED
NO	PLOTTED
	GRADES CHECKED
	B.M. + NOTED
	STRUCTURE NOTATIONS CHECK

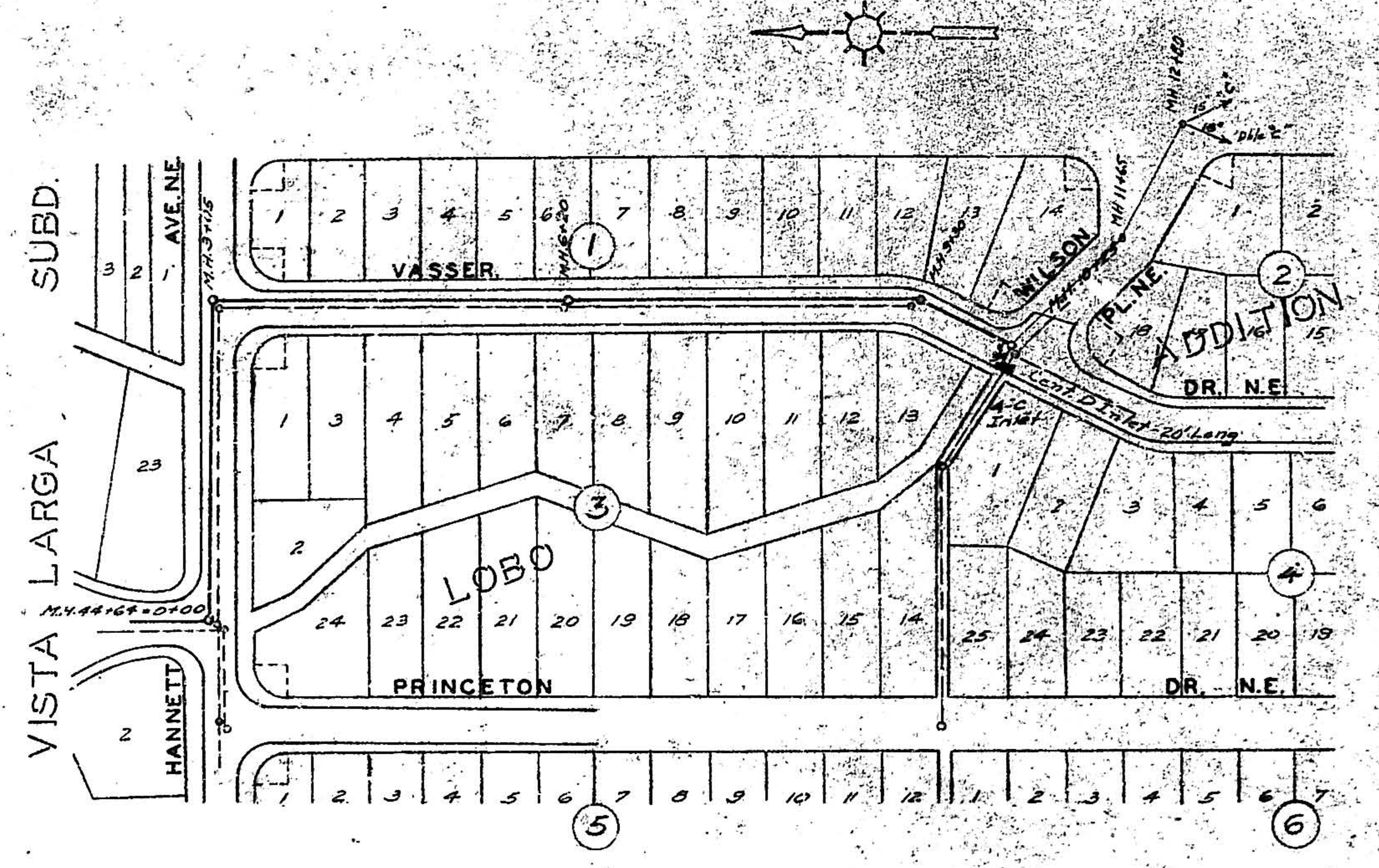
0 3 5 6 2 1 4 5 5 0 1 5 8 1 6 1


5150
5140
5130
5120
5110
5100
5090
6' dia M.H. Sta. 30+15
4' H Sta. 30+35
5090.06
5090.61
255' RCP - 48"
S = .0275
6' dia M.H. Sta. 32+70
5091.07
8" 5095.65
6' dia M.H. Sta. 36+85
5102.06
8" San. 5100.62
6' dia M.H. Sta. 39+45
5103.71
8" San. 5104.36
1174' - RCP - 48"
S = .0128
6' dia M.H. Sta. 43+55
5110.96
6' dia M.H. Sta. 44+66
48" Outlet 5112.35
8" San. 5118.26
8" San. 5117.01
LINE E
6' dia M.H. Sta. 44+66
21" Inlet 5117.29
5115.54
15" San.
4' dia M.H. Sta. 45+54
5119.58
15" Inlet 5120.08
5122.24
8" San.
5123.29
8" San.
4' dia M.H. Sta. 47+54
21" Outlet 5124.91
15" Inlet 5125.43
301' - RCP - 21"
S = .0254
255' RCP - 15"
S = .0375
4' dia M.H. Sta. 50+20
15" Outlet 5134.99
15" Inlet 5135.20
5133.23 - 8" San.
LINE E
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
44
45
46
47
48
49
50
51
52
53

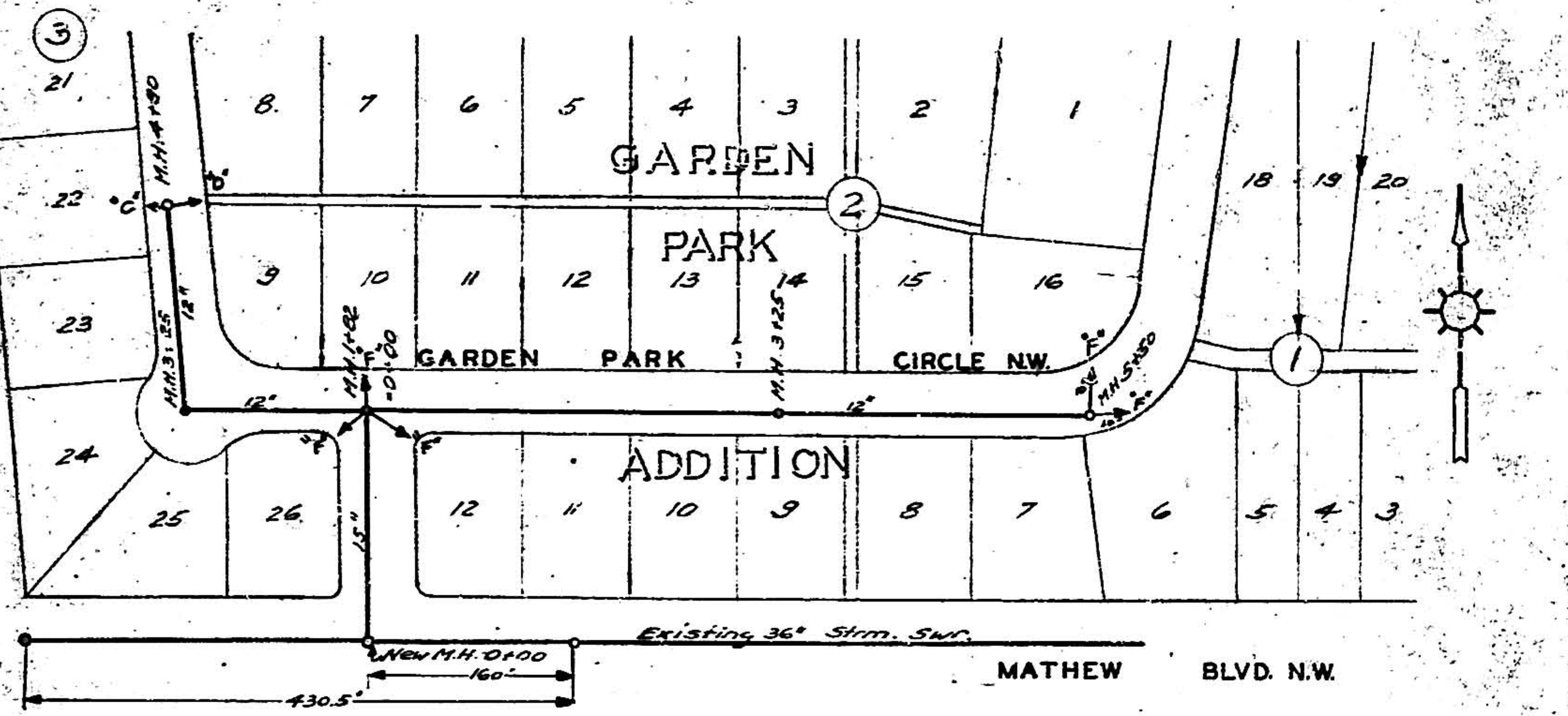
STORM SEWER FOR AREAS	1&8
PLAN & PROFILE SHEET NO.	14

PLATE 1 - PLAN-PROFILE
CHARLES BRUNING COMPANY, I

2

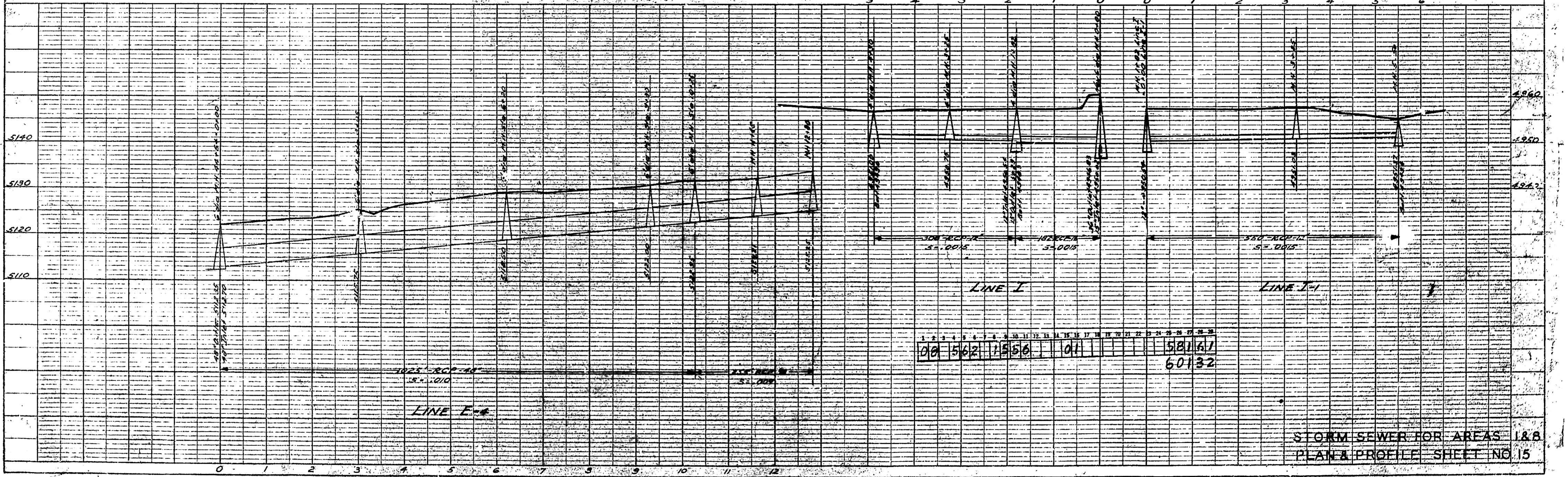

VISTA LARGA SUBD.
AVE. N.E.
HANNETT
VASSER
WILSON
PL. N.E.
ADDITION
DR. N.E.
LOBO
PRINCETON
DR. N.E.
M.H. 3+15
M.H. 6+20
M.H. 9+30
M.H. 10+73
M.H. 11+65
M.H. 12+80
M.H. 44+64 = 0+00
Cont. D Inlet-20' Long
A-C Inlet
Dble "C"
1
2
3
4
5
6

58161


GARDEN PARK ADDITION
GARDEN PARK CIRCLE N.W.
MATHEW BLVD. N.W.
Existing 36" Strm. Swr.
New M.H. 0+00
160'
430.5'
M.H. 4+90
M.H. 3+55
M.H. 1+82
M.H. 3+25
M.H. 5+50
12"
15"
1
2
3

60132

Note
Line I & I-1 Not Indicated on Layout Sheet


5140
5130
5120
5110
4960
4950
4942
1025' - RCP - 48"
S = .010
S = .009
LINE E-4
308' - RCP - 12"
S = .0015
182' RCP 12"
S = .0015
560' - RCP - 12"
S = .0015
LINE I
LINE I-1
0 1 2 3 4 5 6 7 8 9 10 11 12
5 4 3 2 1 0
0 1 2 3 4 5 6
08 562 1556 01 58161
60132

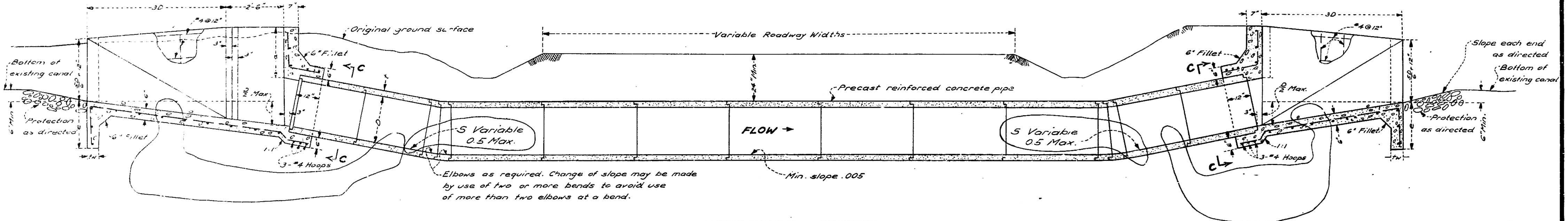
STORM SEWER FOR AREAS 1&8
PLAN & PROFILE SHEET NO 15

PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
AUTOMATIC CHECKED
RT OF WAY CHECKED
BY
DATE

PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHECK
BY
DATE

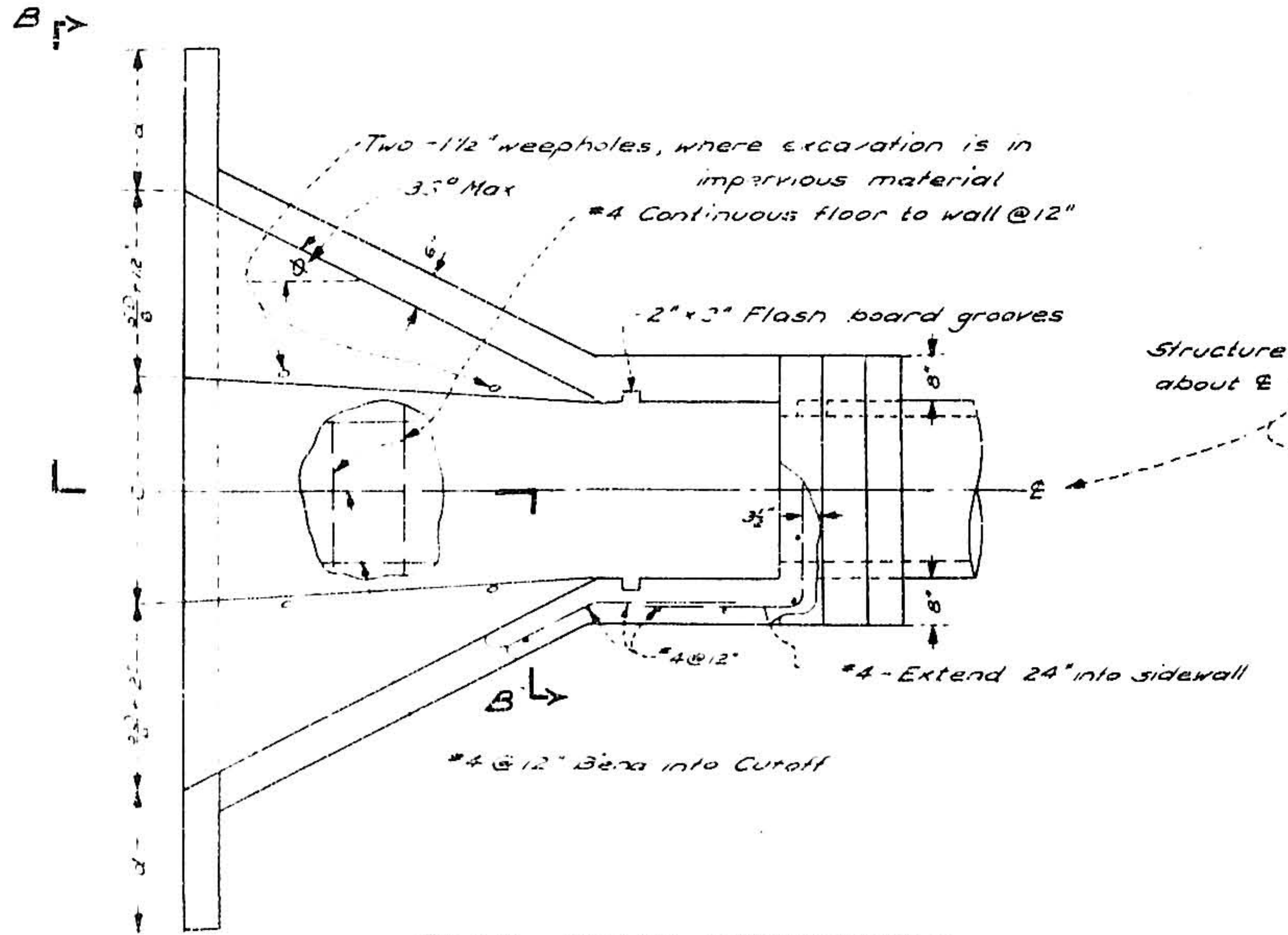
PLATE 1—PLAN—PROFILE
CHARLES BRUNING COMPANY, INC.

1

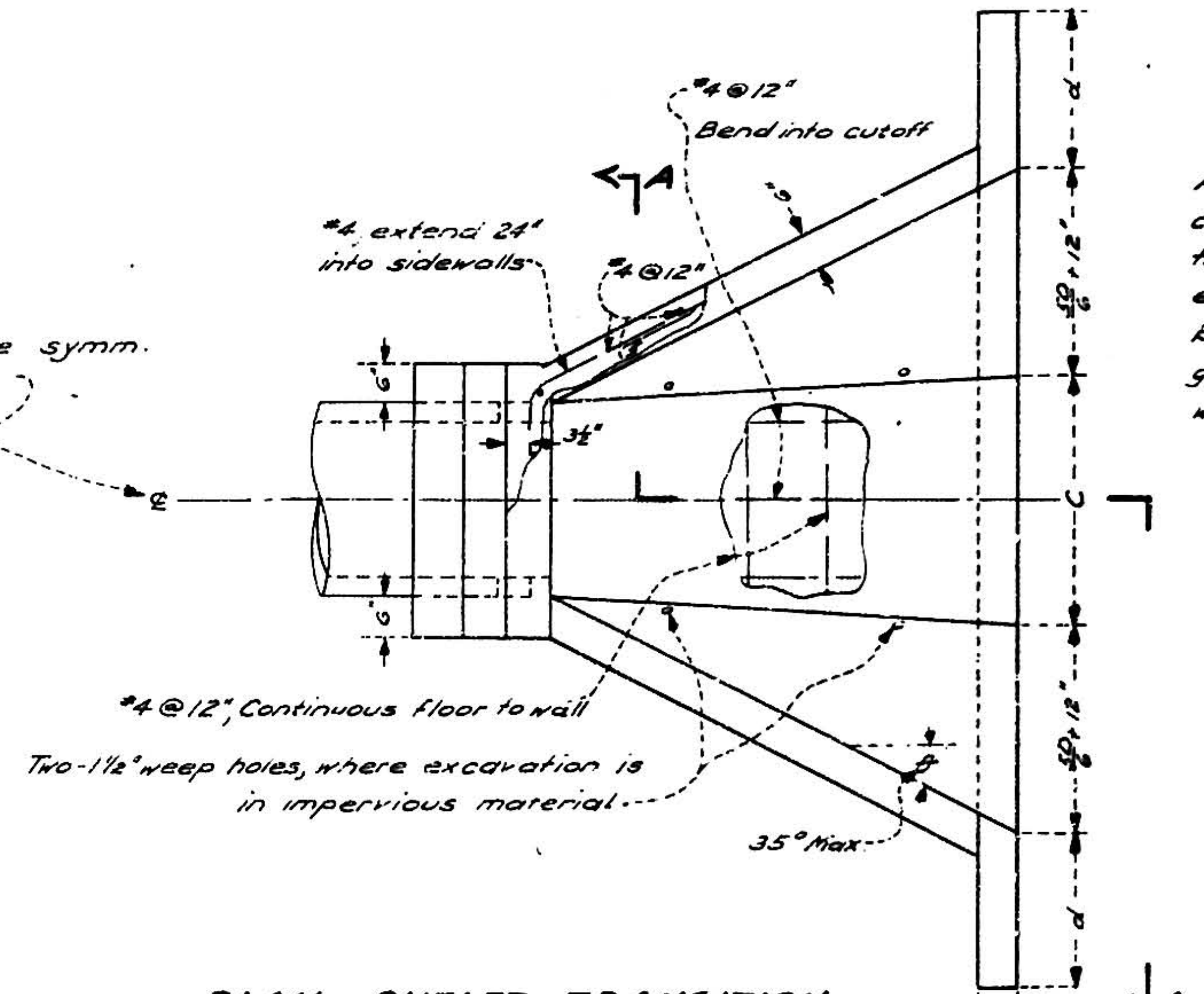

3D
2'-6"
7"
#4@12"
Original ground surface
Variable Roadway Widths
Bottom of existing canal
6" Fillet
C
3"
1/2 Max.
12"
D
Protection as directed
6" Min.
tw
1:1
3-#4 Hoops
Precast reinforced concrete pipe
24" Min.
FLOW →
S Variable 0.5 Max.
Min. slope .005
Slope each end as directed

Elbows as required. Change of slope may be made by use of two or more bends to avoid use of more than two elbows at a bend.

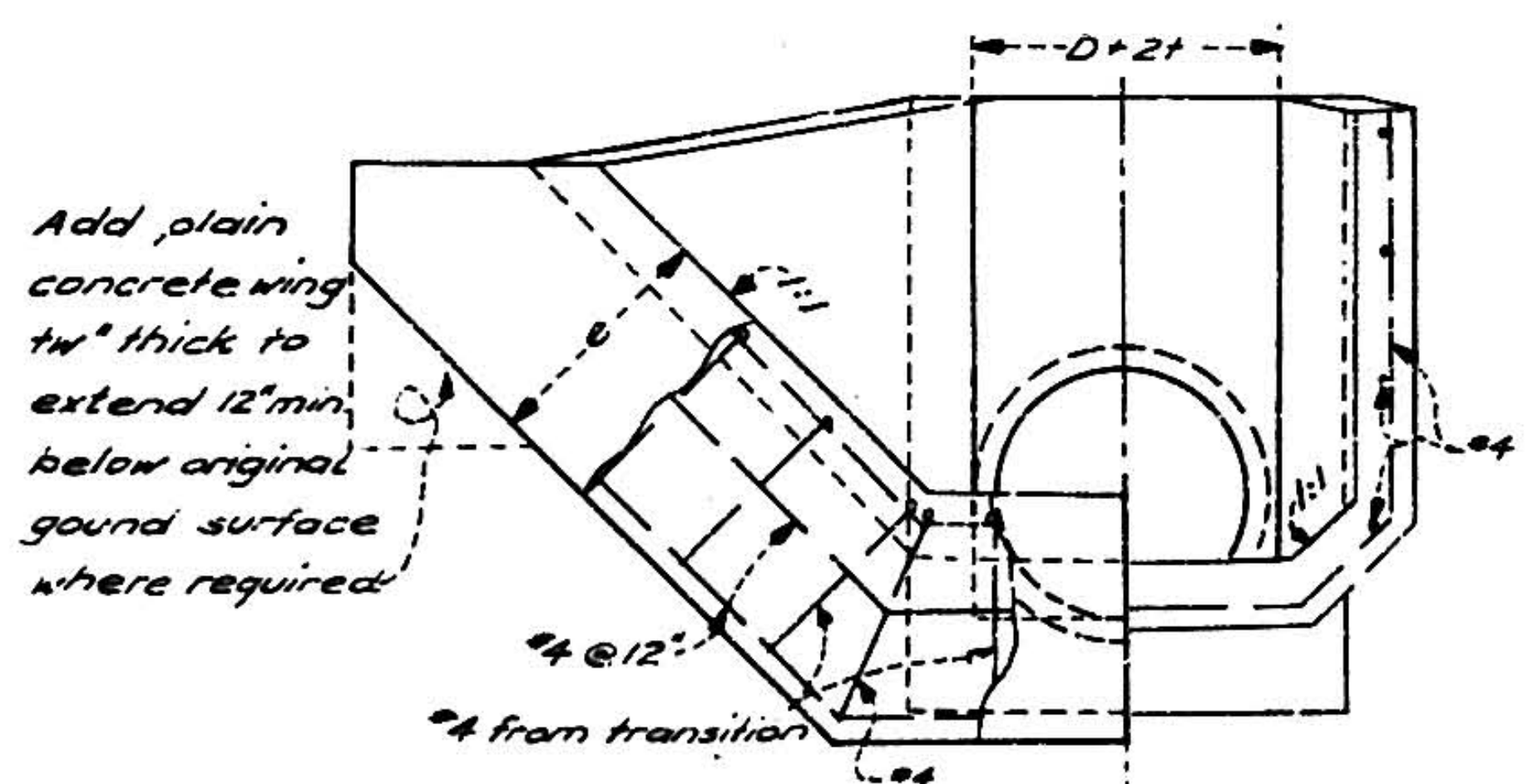
LONGITUDINAL SECTION


B
Two-1½" weepholes, where excavation is in impervious material
35° Max
#4 Continuous floor to wall @12"
2"×2" Flash board grooves
#4@12"
#4-Extend 24" into sidewall
#4@12" Bend into Cutoff
Structure symm. about ℄
tw

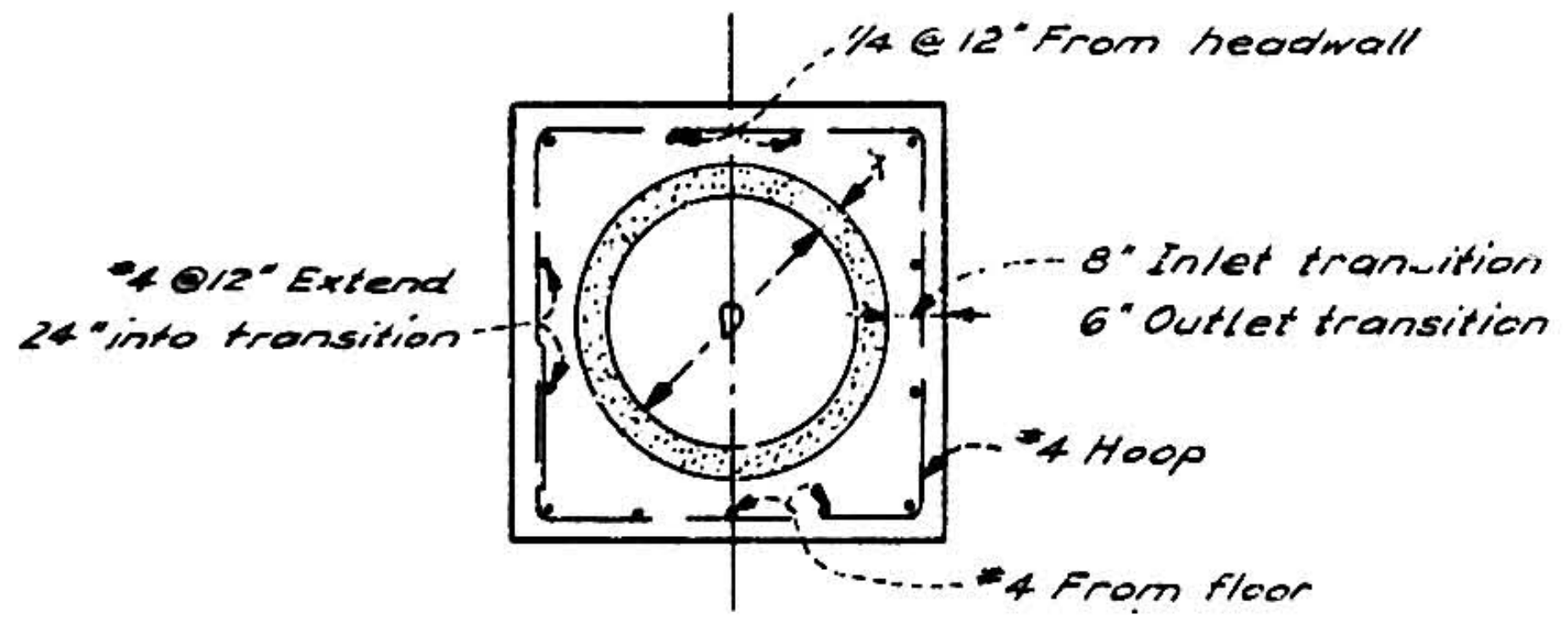
PLAN - INLET TRANSITION


#4@12" Bend into cutoff
A
#4 extend 24" into sidewalls
#4@12"
#4@12", Continuous floor to wall
Two-1½" weep holes, where excavation is in impervious material
35° Max.
tw
A

PLAN - OUTLET TRANSITION


D+2t
Add plain concrete wing tw" thick to extend 12" min. below original gound surface where required
#4@12"
#4 from transition
#4
1:1

SECTION A-A
SECTION B-B


¼ @ 12" From headwall
#4@12" Extend 24" into transition
8" Inlet transition
6" Outlet transition
#4 Hoop
#4 From floor

SECTION C-C

TABLE OF DIMENSIONS

D	DIMENSIONS					
	a	c	d	MIN. e	NOMINAL t	tw
18"	24"	2'-4"	18"	18"	2½"	6"
24"	2'-2"	3'-2"	24"	24"	3"	6"
30"	2'-6"	4'-0"	2'-6"	2'-6"	3½"	8"
36"	2'-8"	4'-10"	2'-6"	2'-6"	4"	8"
42"	2'-10"	5'-8"	2'-6"	2'-6"	4½"	8"
48"	3'-0"	6'-6"	2'-6"	2'-6"	5"	8"
54"	3'-0"	7'-4"	2'-6"	2'-6"	5½"	8"
60"	3'-0"	8'-2"	2'-6"	2'-6"	6"	8"

NOTES

All reinforcement in monolithic concrete shall be placed so that the centers of bars in the outer layer will be 2" from outer face, unless otherwise shown.

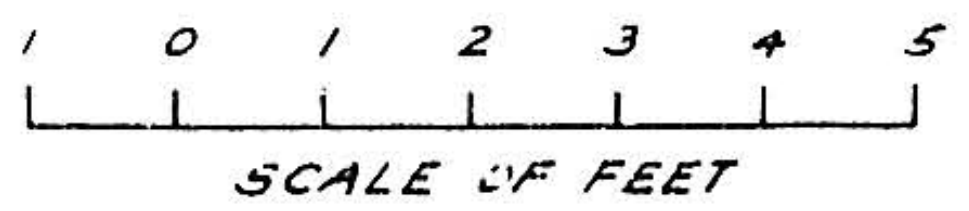
Lap all bars 20 diameters at splices.

Berms may be necessary at either or both headwalls to suit actual laying length of pipe.

Values of c as given in table of dimensions may be changed as directed if 35° max transition wall divergence is not exceeded.

The 1:1 slope on transition wall may be changed to 1½:1 as directed if 35° max. transition wall divergence is not exceeded

Chamfer all exposed corners ¾"



SCALE OF FEET

08 562 1656 10

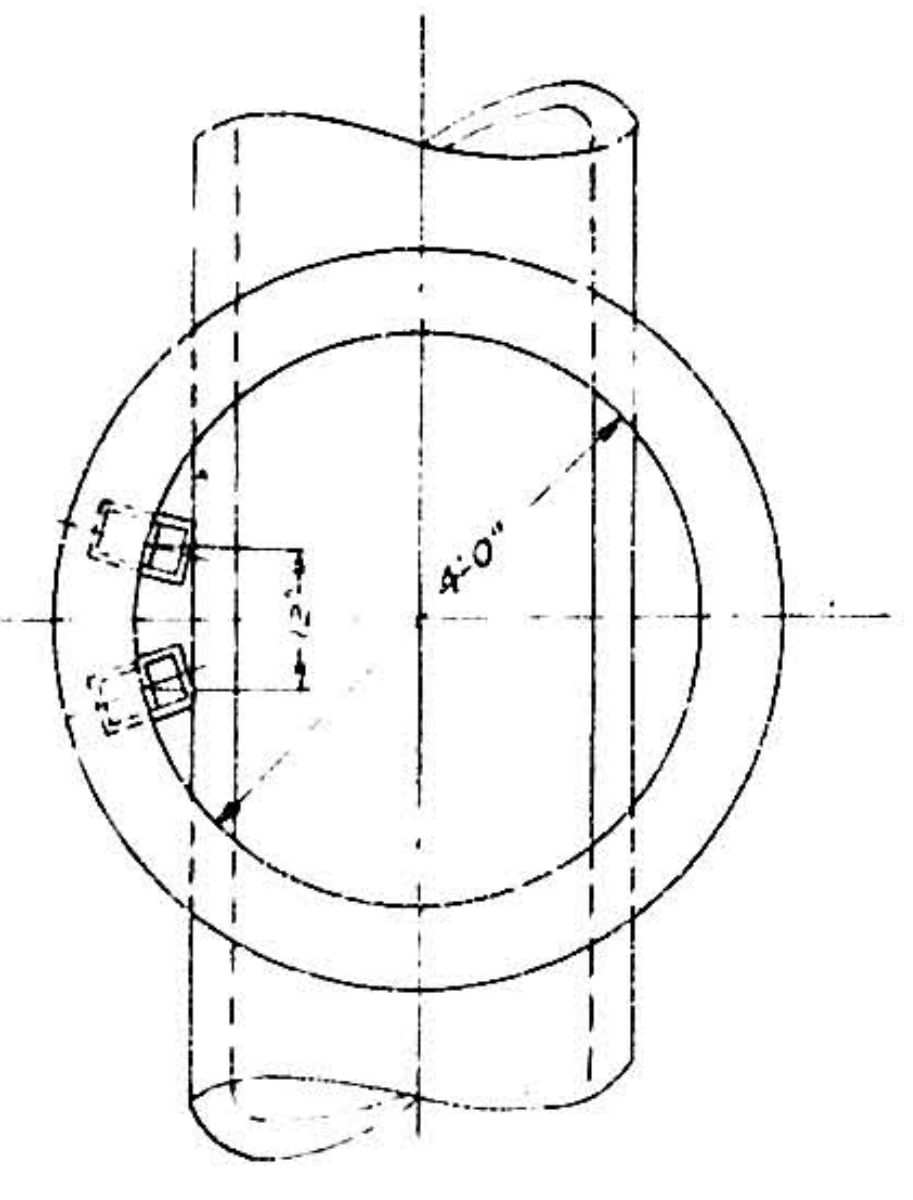
ALBUQUERQUE, NEW MEXICO

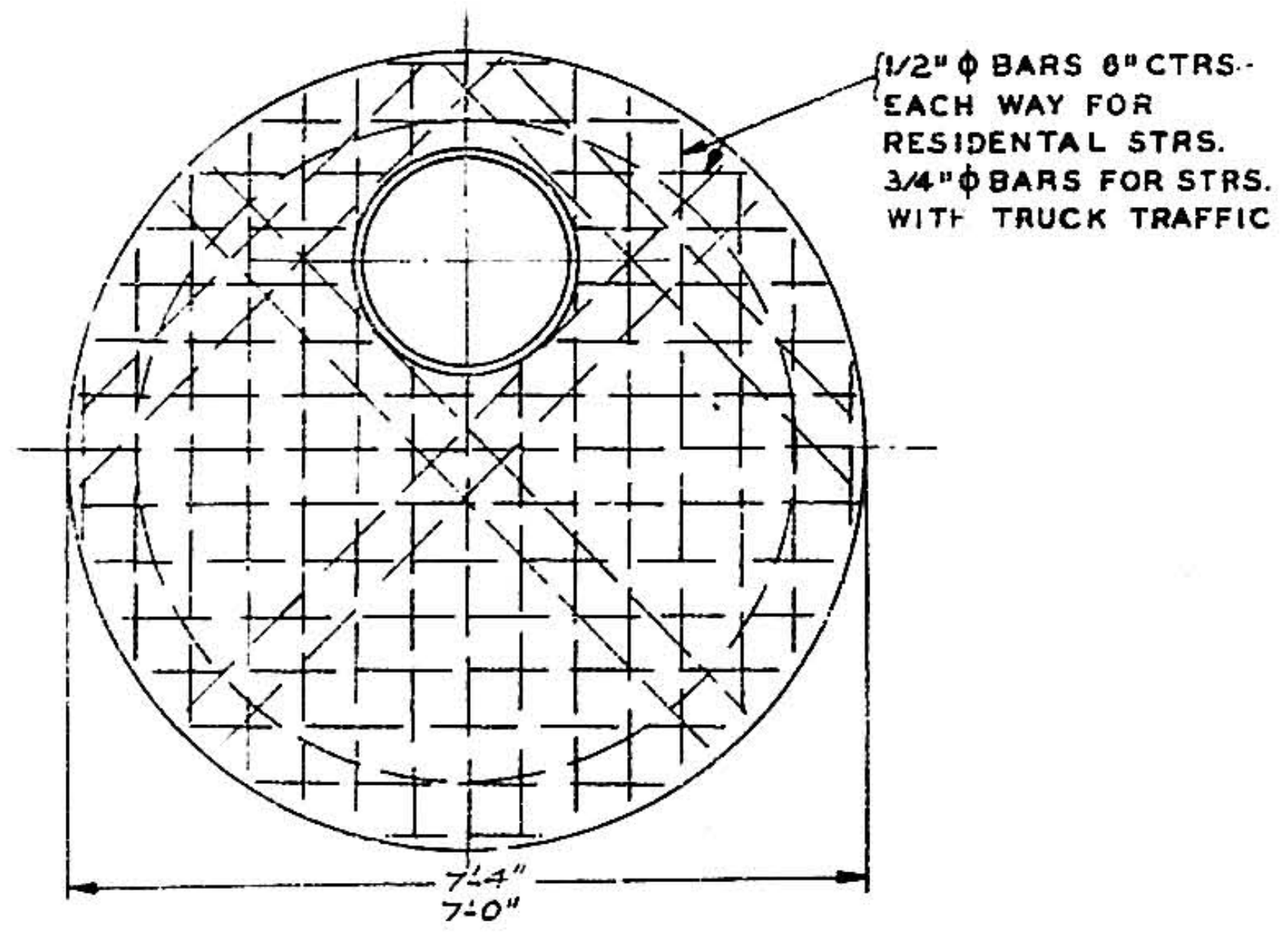
TYPICAL SIPHON
LATERAL UNDER ROADWAY
M.R.G.C.D.-STANDARD

HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO

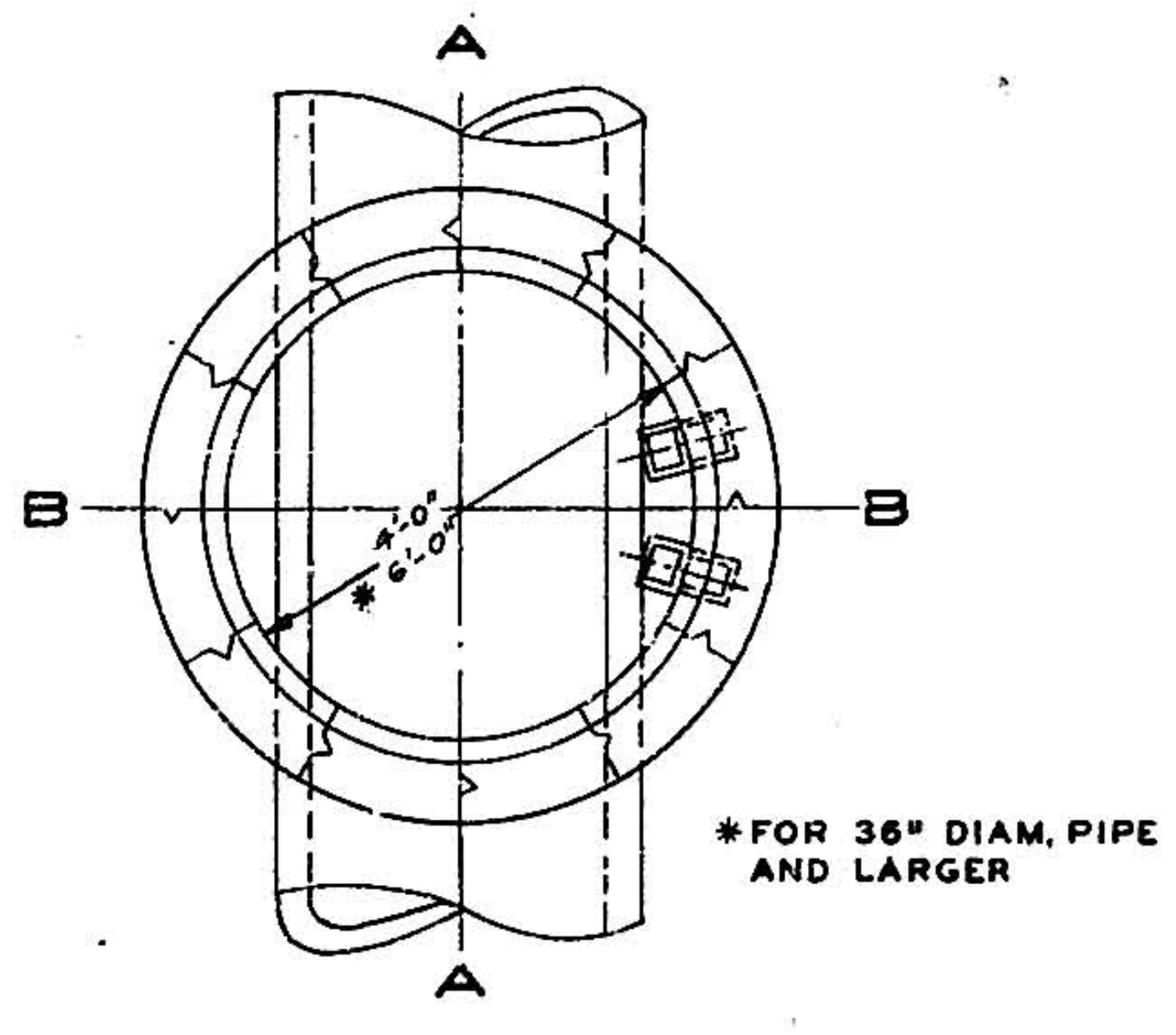
SCALE	DATE	DRAWN	SHEET 16
		CHECKED F.G.	OF

1

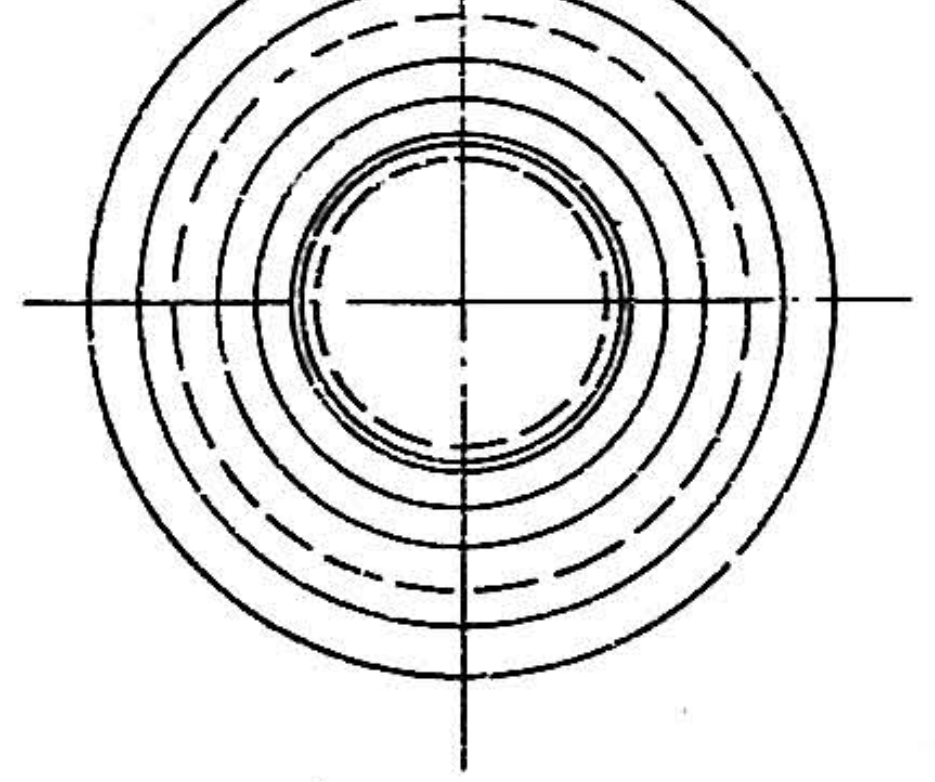


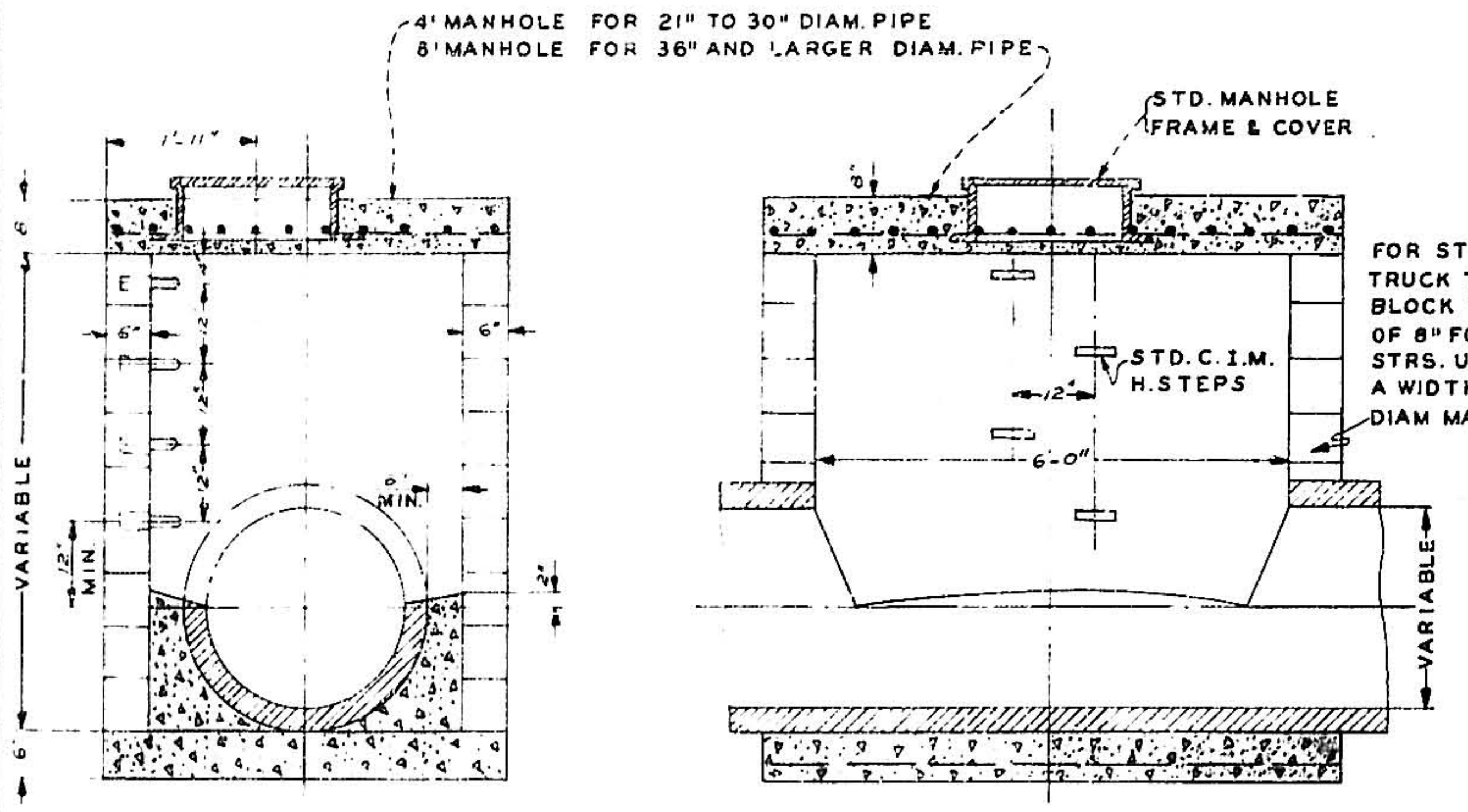

1/2" ϕ BARS 6" CTRS. EACH WAY FOR RESIDENTAL STRS.
3/4" ϕ BARS FOR STRS. WITH TRUCK TRAFFIC
7'-4"
7'-0"

PRECAST CONC. COVER


A
B
B
A
*FOR 36" DIAM. PIPE AND LARGER

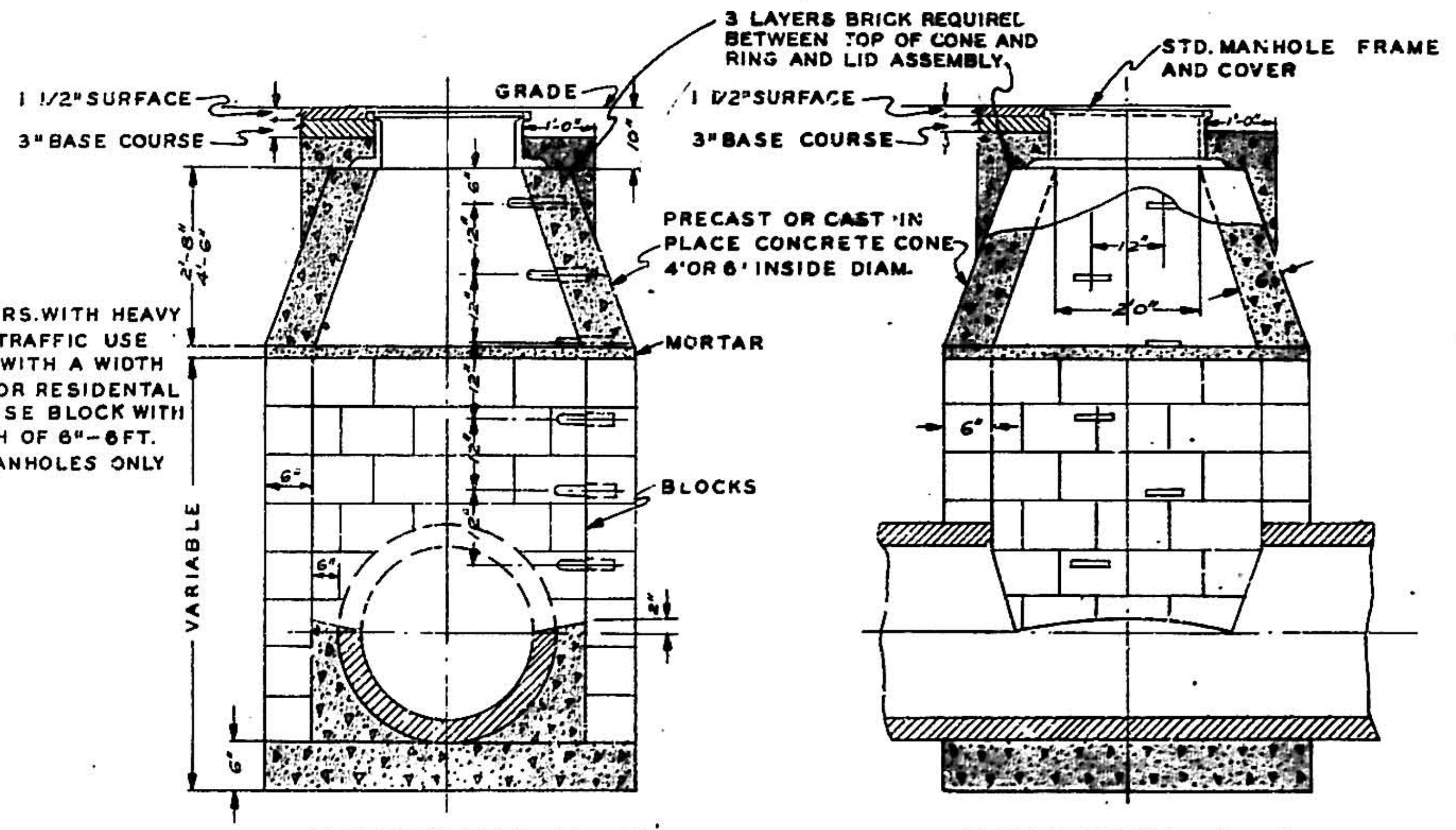
SECTION PLAN




4' MANHOLE FOR 21" TO 30" DIAM. PIPE
6' MANHOLE FOR 36" AND LARGER DIAM. PIPE
STD. MANHOLE FRAME & COVER
FOR STRS. WITH HEAVY TRUCK TRAFFIC USE BLOCK WITH A WIDTH OF 8" FOR RESIDENTAL STRS. USE BLOCK WITH A WIDTH OF 6" - 6FT. DIAM MANHOLES ONLY
STD. C.I.M. H. STEPS
12"
6'-0"
6"
6"
6" MIN
12" MIN
VARIABLE
VARIABLE

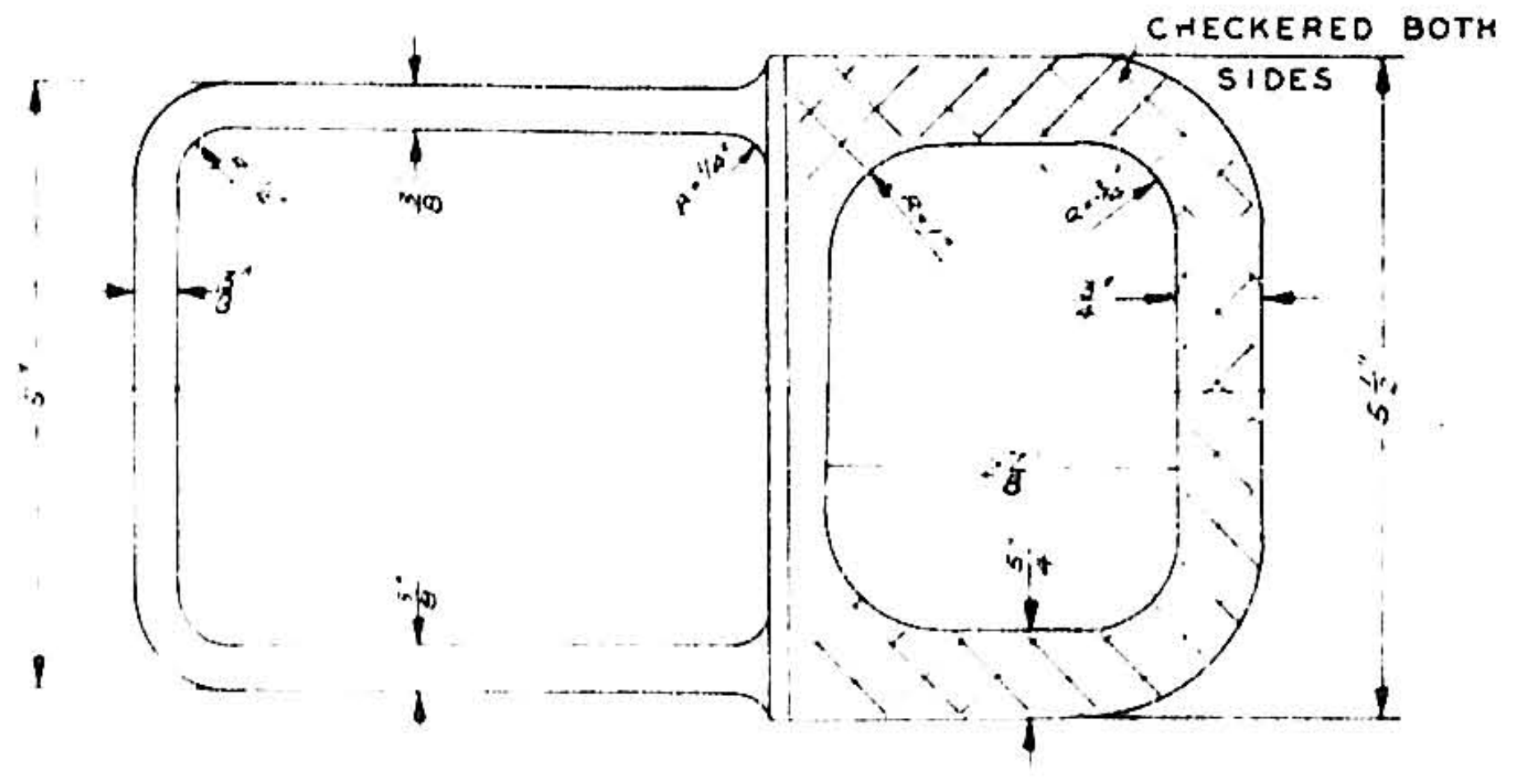
SECT. 4 FOOT M.H. SECT. 6 FOOT M.H.

STANDARD STORM SEWER MANHOLE TYPE "A"

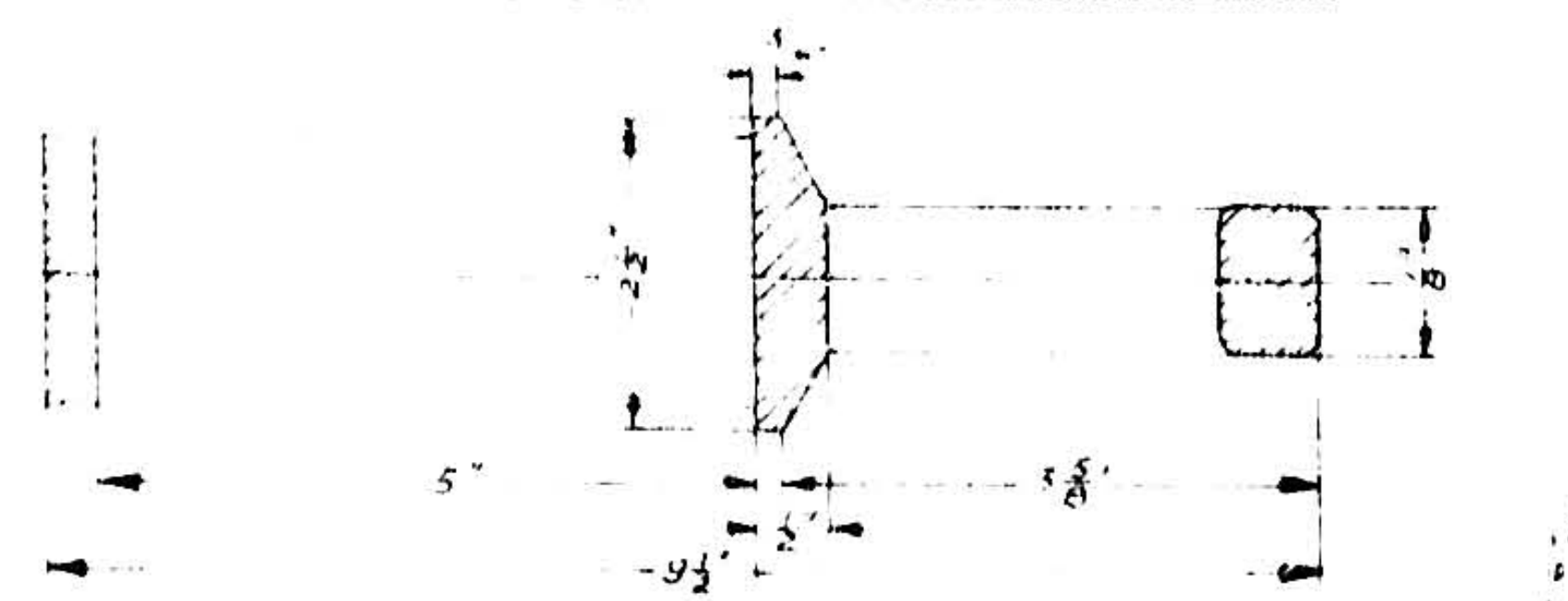

1 1/2" SURFACE
3" BASE COURSE
GRADE
3 LAYERS BRICK REQUIRED BETWEEN TOP OF CONE AND RING AND LID ASSEMBLY
1 1/2" SURFACE
3" BASE COURSE
STD. MANHOLE FRAME AND COVER
PRECAST OR CAST IN PLACE CONCRETE CONE 4' OR 6' INSIDE DIAM.
MORTAR
BLOCKS
VARIABLE
6"
12"
2'-0"

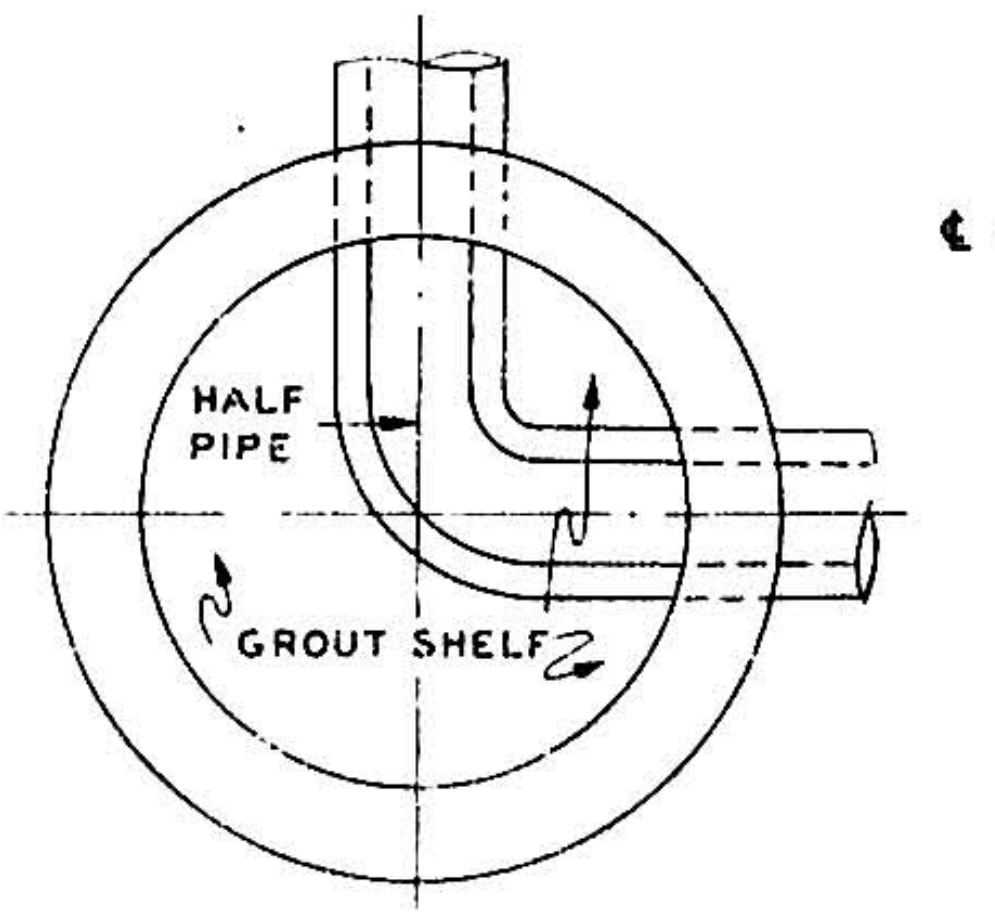
SECTION B-B SECTION A-A

STANDARD STORM SEWER MANHOLE TYPE "B"

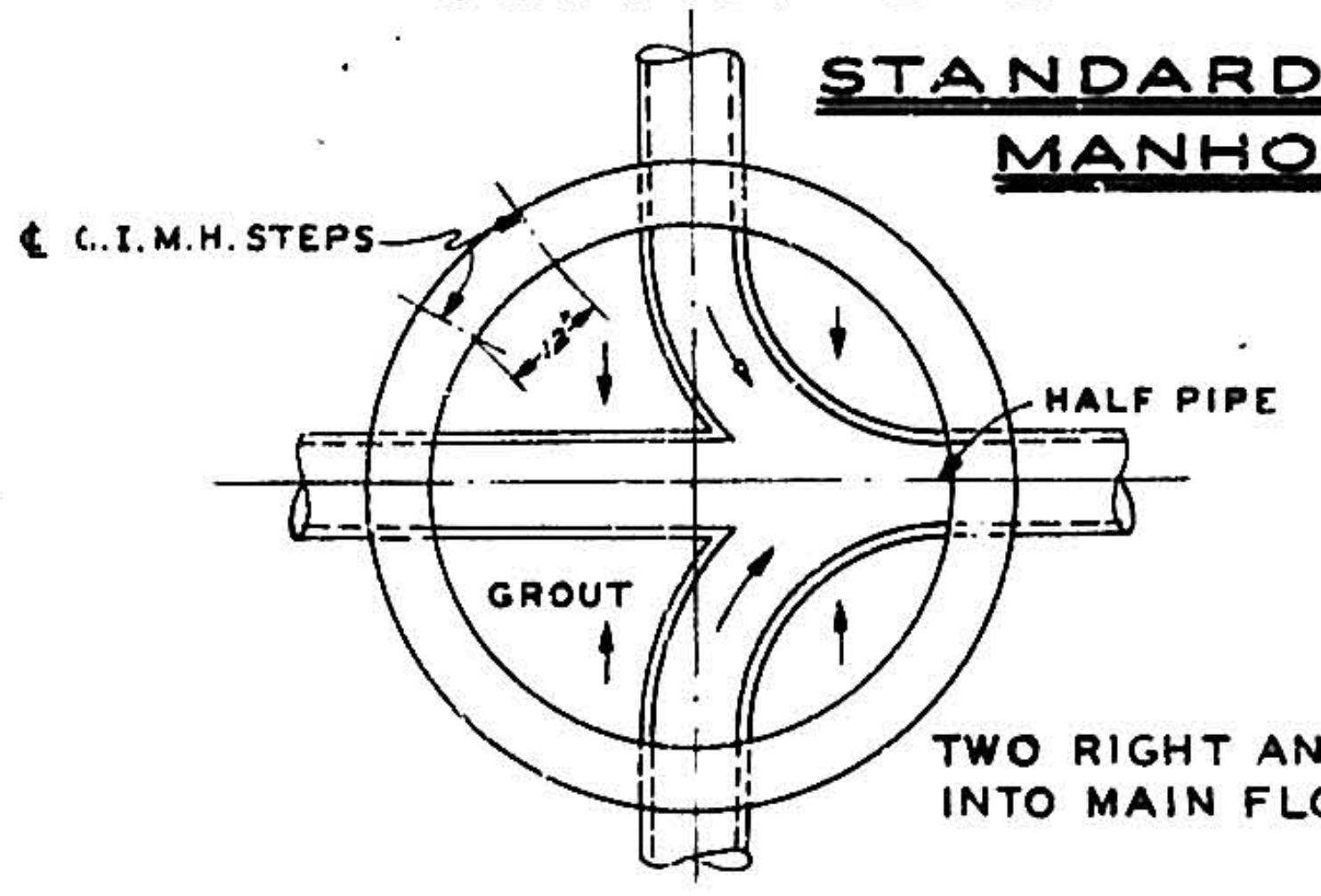

CHECKERED BOTH SIDES

STANDARD MANHOLE STEP

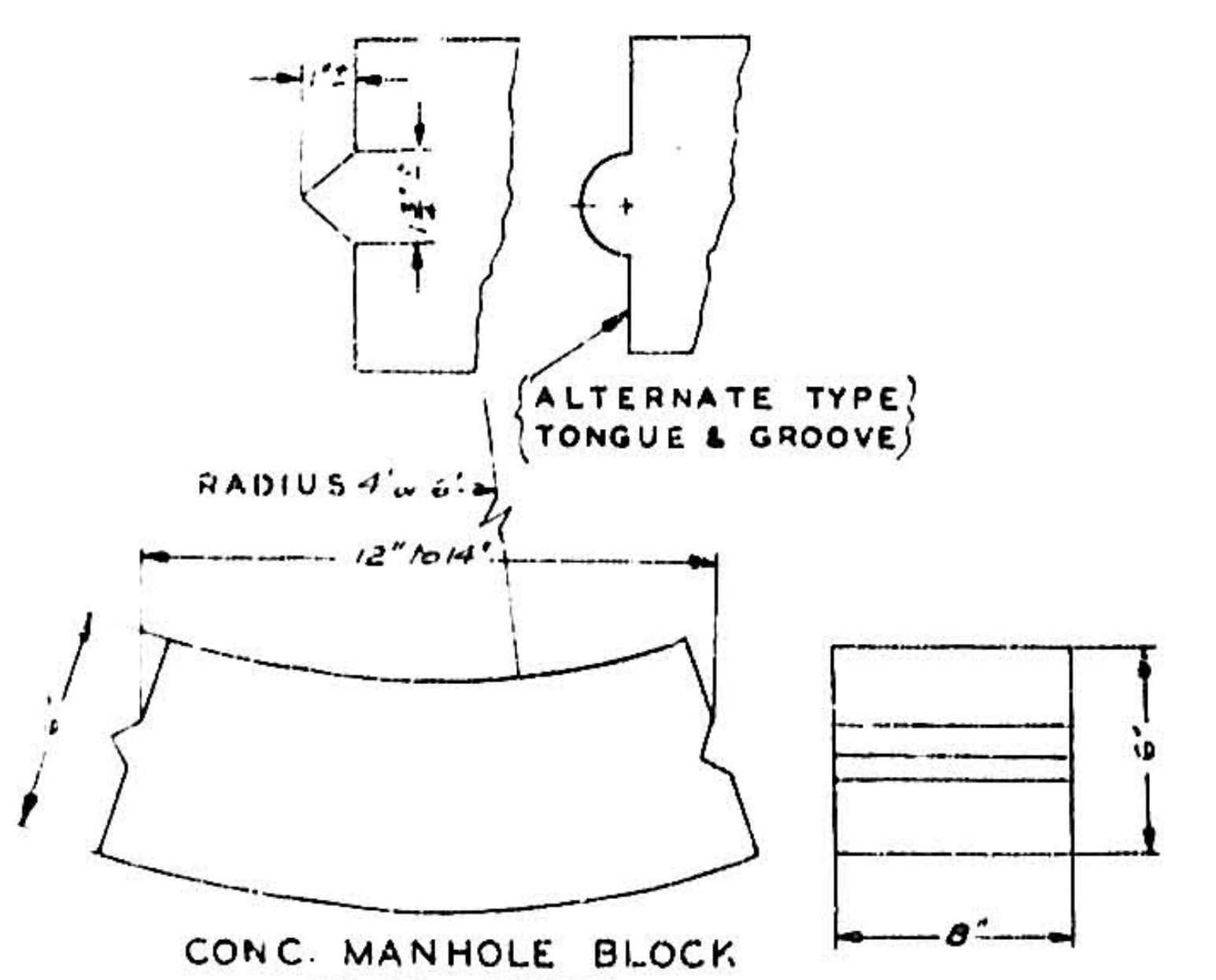



HALF PIPE
GROUT SHELF

RIGHT ANGLE ENTRY AND EXIT TYPE "B" MANHOLE


C.I.M.H. STEPS
HALF PIPE
GROUT

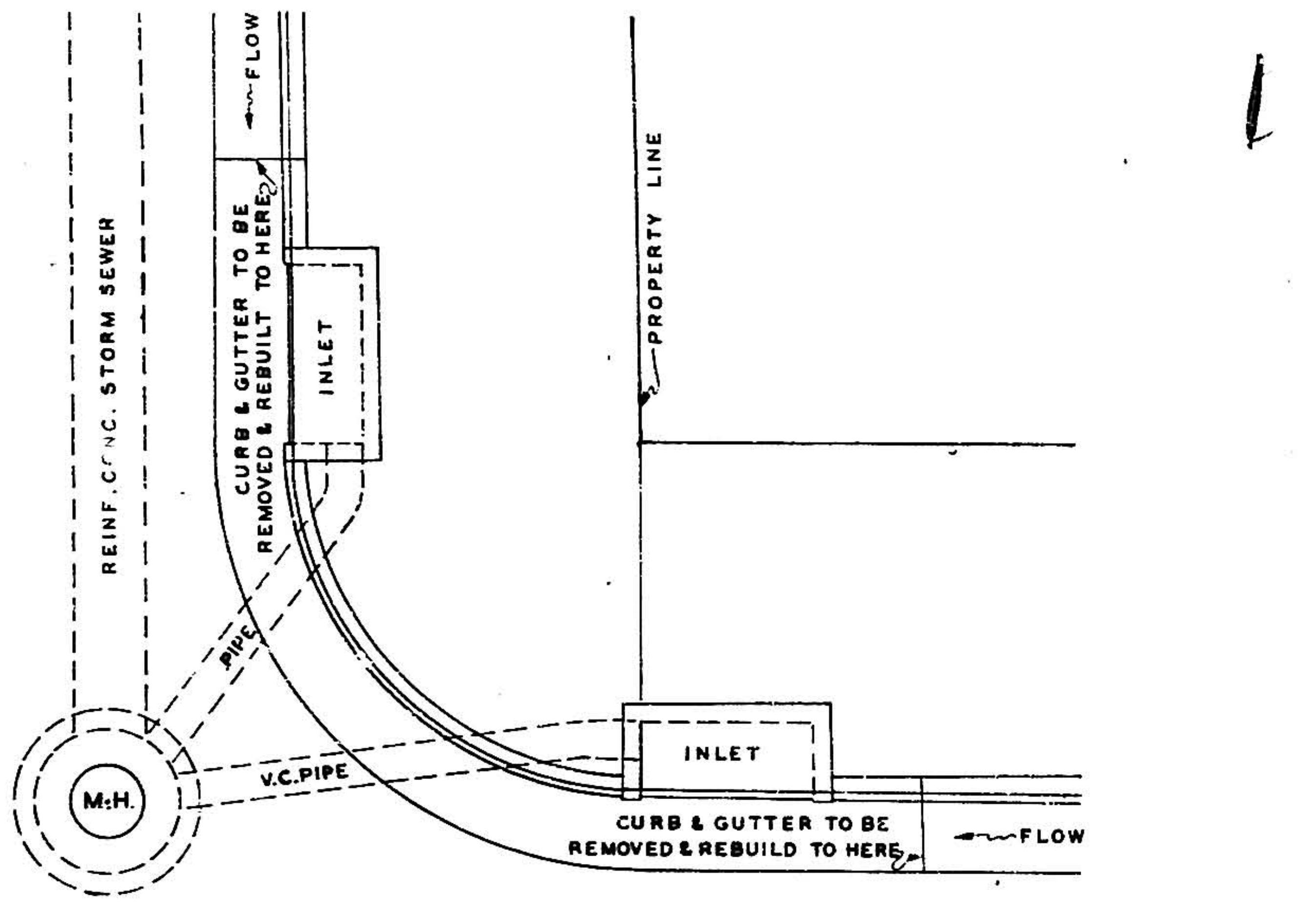
TWO RIGHT ANGLE ENTRANCES INTO MAIN FLOW TYPE "B" M.H.


ALTERNATE TYPE TONGUE & GROOVE
RADIUS 4' or 6'
12" to 14"
6"
8"

CONC. MANHOLE BLOCK LOCK JOINT

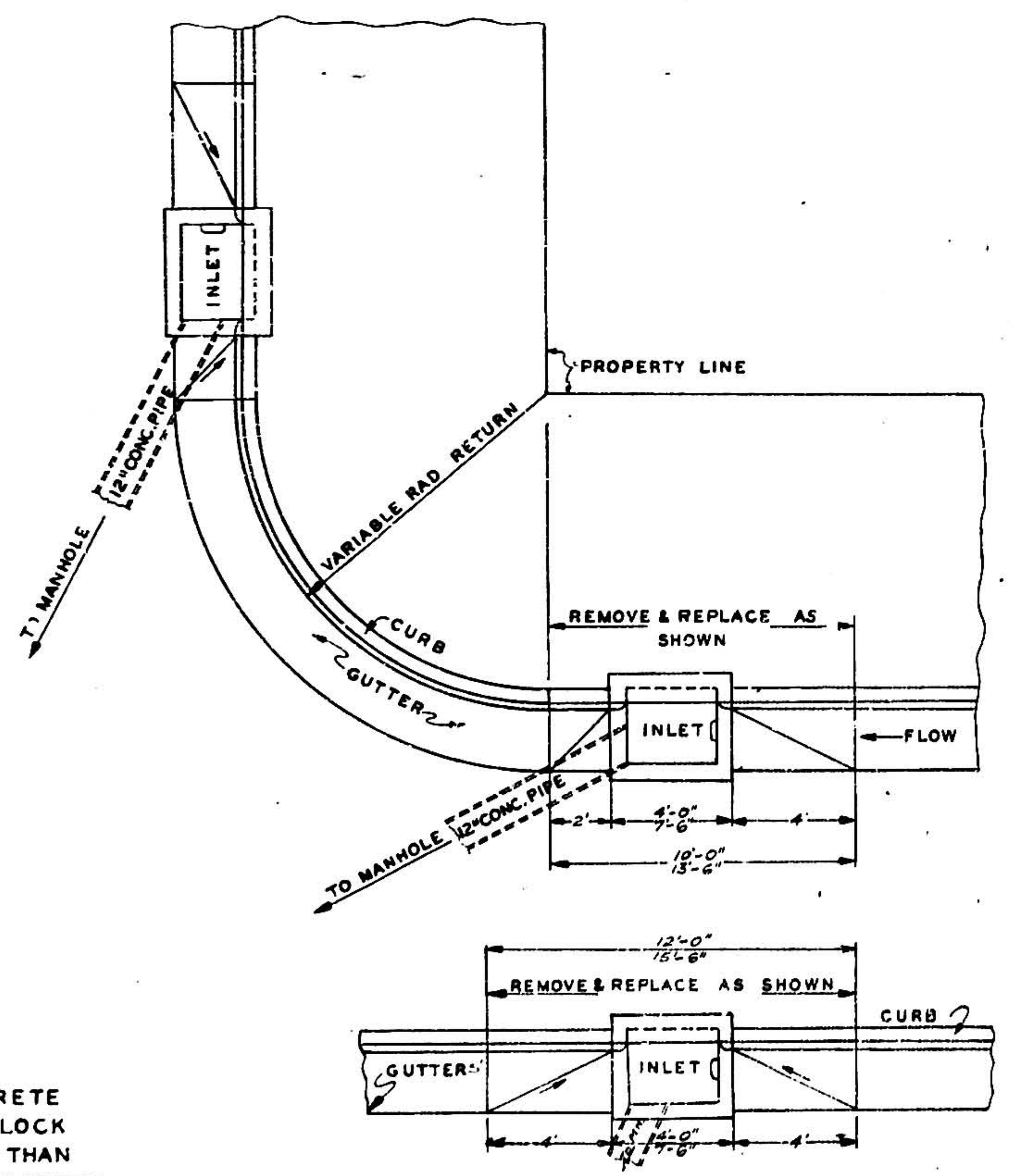
MANHOLE SPECIFICATIONS:

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 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 AT 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.


FLOW
REINF. CONC. STORM SEWER
CURB & GUTTER TO BE REMOVED & REBUILT TO HERE
INLET
PROPERTY LINE
PIPE
V.C. PIPE
M.H.
INLET
CURB & GUTTER TO BE REMOVED & REBUILD TO HERE
FLOW

LOCATION OF INLETS IN STREET TYPE "A"

SCALE: 1/4" = 1'-0"


INLET
12" CONC. PIPE
TO MANHOLE
PROPERTY LINE
VARIABLE RAD. RETURN
CURB
GUTTER
REMOVE & REPLACE AS SHOWN
INLET
FLOW
4'-0"
7'-6"
10'-0"
13'-6"
12" CONC. PIPE
TO MANHOLE
12'-0"
15'-6"
REMOVE & REPLACE AS SHOWN
CURB
GUTTER
INLET
4'
4'-0"
7'-6"
4'

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

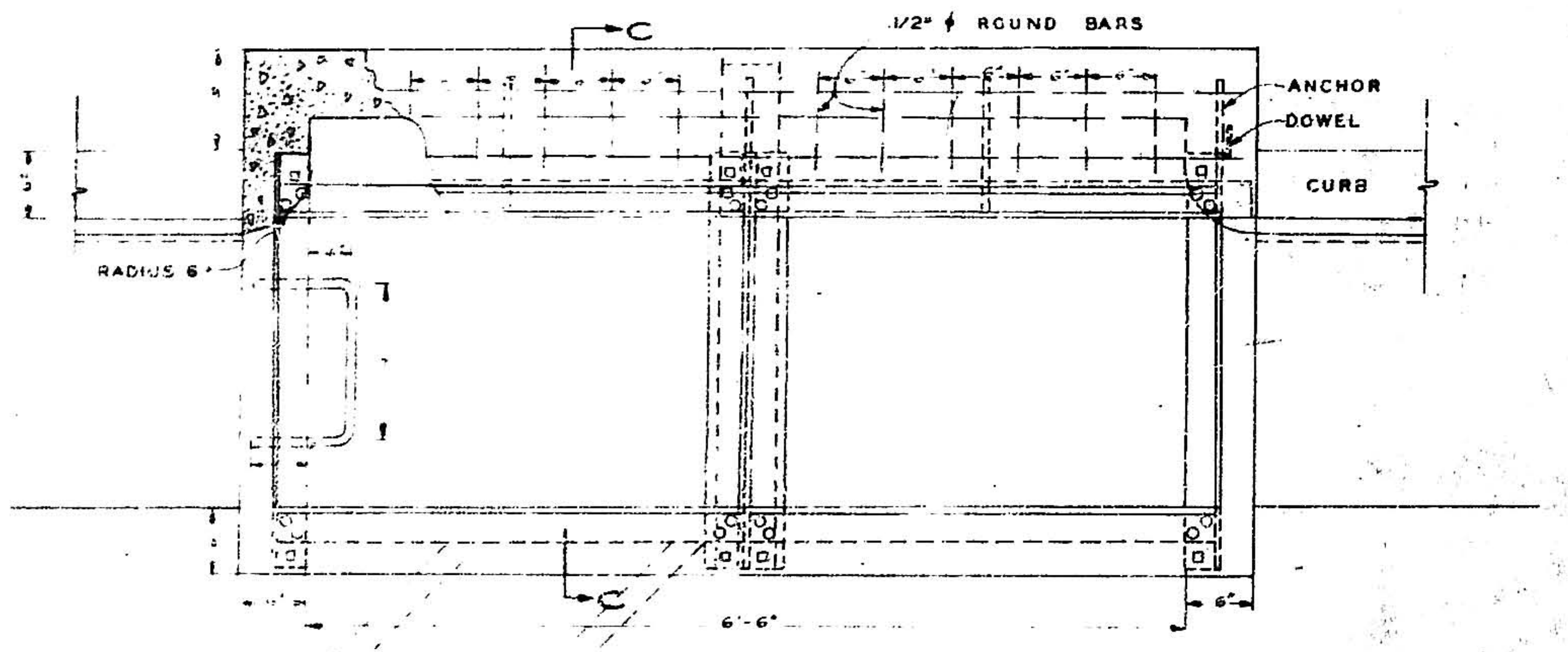
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
0	8		5	6	2		1	7	5	6			1	0														

ALBUQUERQUE, NEW MEXICO

STORM SEWER STANDARDS

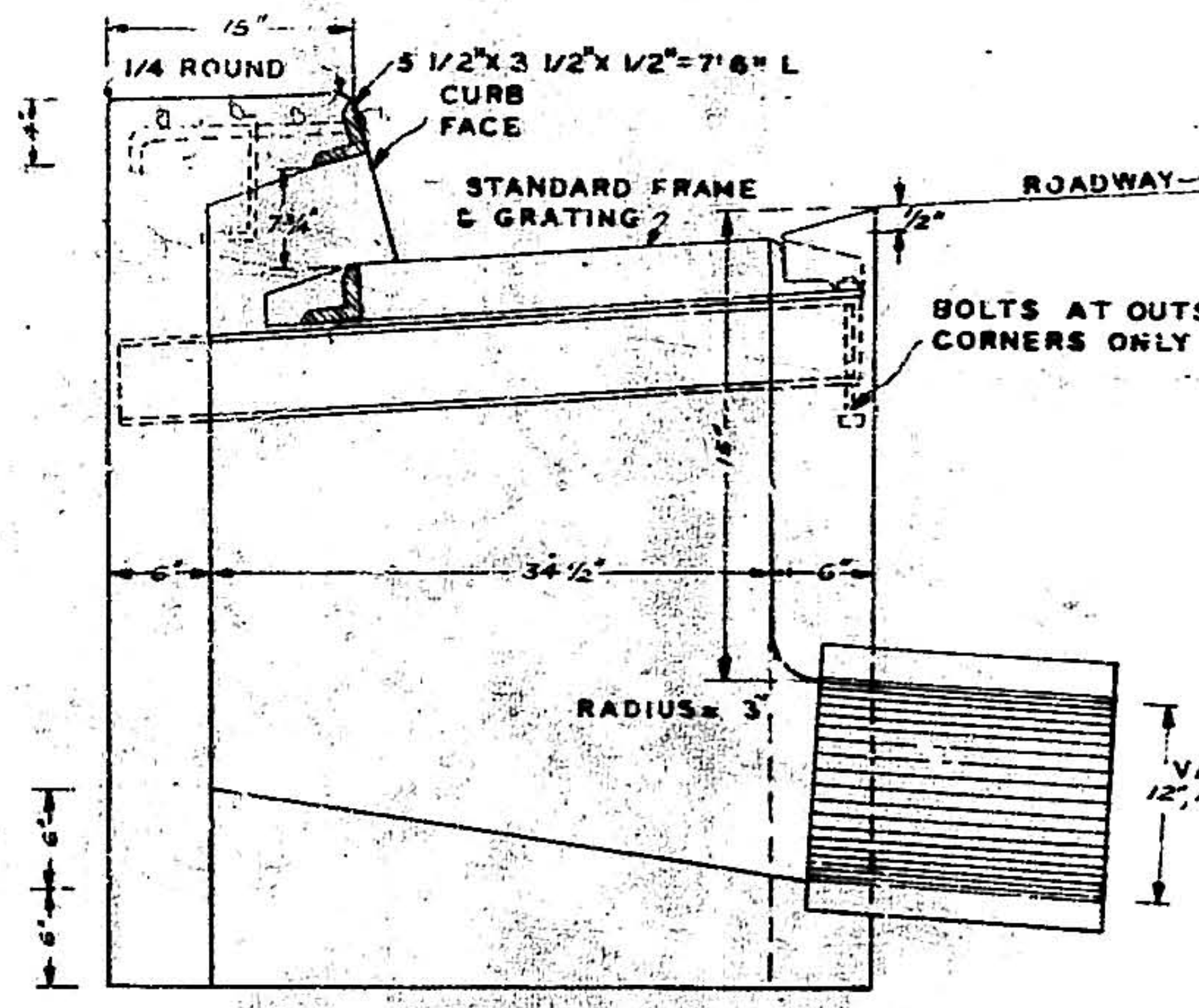
HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
SANTA FE ALBUQUERQUE

SCALE	DATE	DRAWN	SHEET 17
AS SHOWN	1955	CHECKED	OF 19

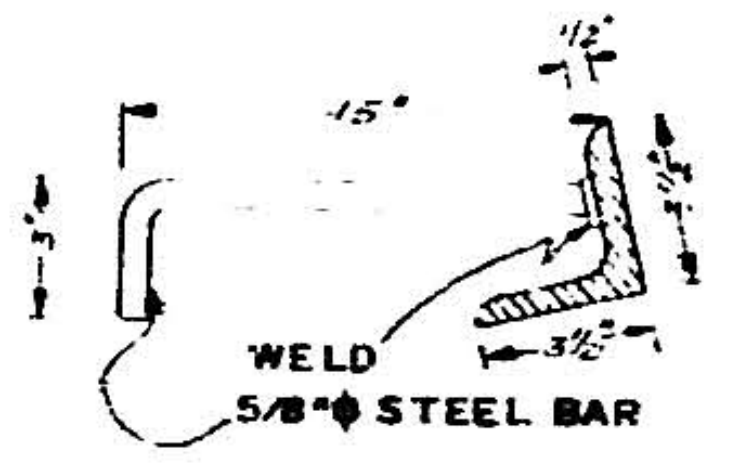

C
1/2" ϕ ROUND BARS
ANCHOR
DOWEL
CURB
RADIUS 6"
C
6'-6"
6"

STEEL LIST
1- 3 1/2"x3 1/2"x 1/2"x 7'6" L
12- 1/2"ϕ DEF. BARS 12" LONG
2-DOWELS-SEE DETAIL
5-ANCHORS- " "
1-STEP- 3/4" ROUND-SEE PLAN
3- 1/2"ϕ - 7'-0" Long

PLAN
DOUBLE GRATE STANDARD CATCH BASIN-TYPE C
SCALE 1"=12"

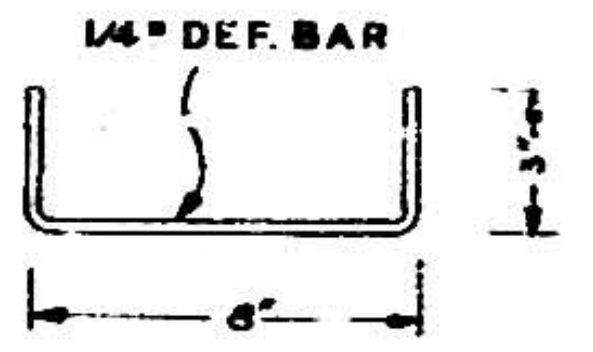

15"
1/4 ROUND
5 1/2"x 3 1/2"x 1/2"=7'6" L
CURB
FACE
STANDARD FRAME
& GRATING
7 3/4"
ROADWAY
1/2"
BOLTS AT OUTSIDE
CORNERS ONLY
18"
6"
34 1/2"
6"
RADIUS= 3"
VARIABLE
12", 15", or 18"
6"
6"

SECTION C-C
[TYPE C]

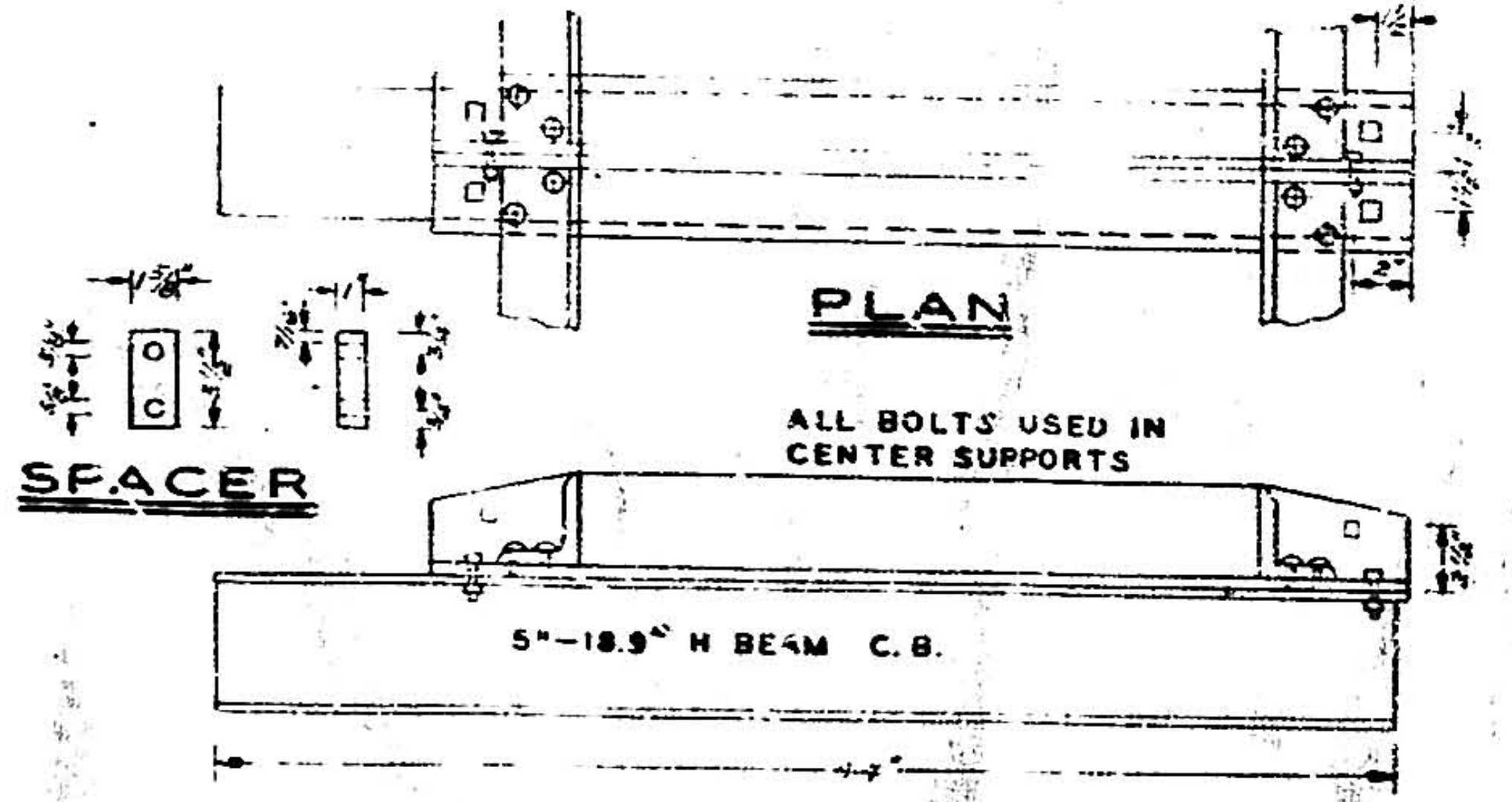

15"
1/2"
3"
WELD
3 1/2"
5/8"ϕ STEEL BAR

DOWEL AND ANCHOR DESIGN ARE IDENTICAL FOR BOTH TYPES OF CATCH BASINS

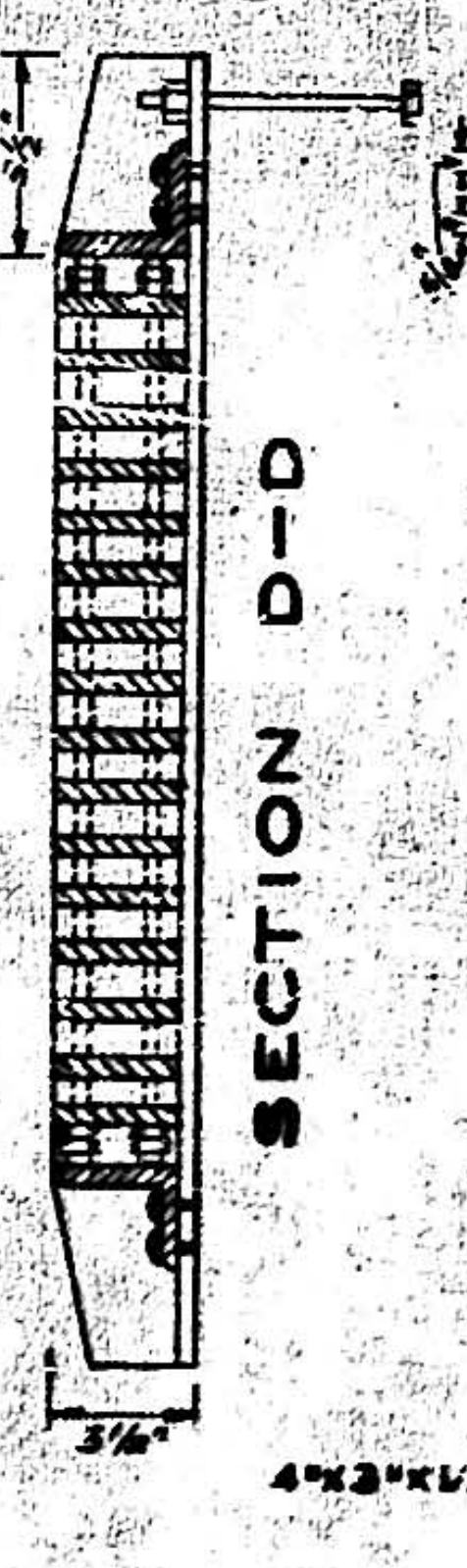
DETAIL OF ANCHOR


1/4" DEF. BAR
3"
6"

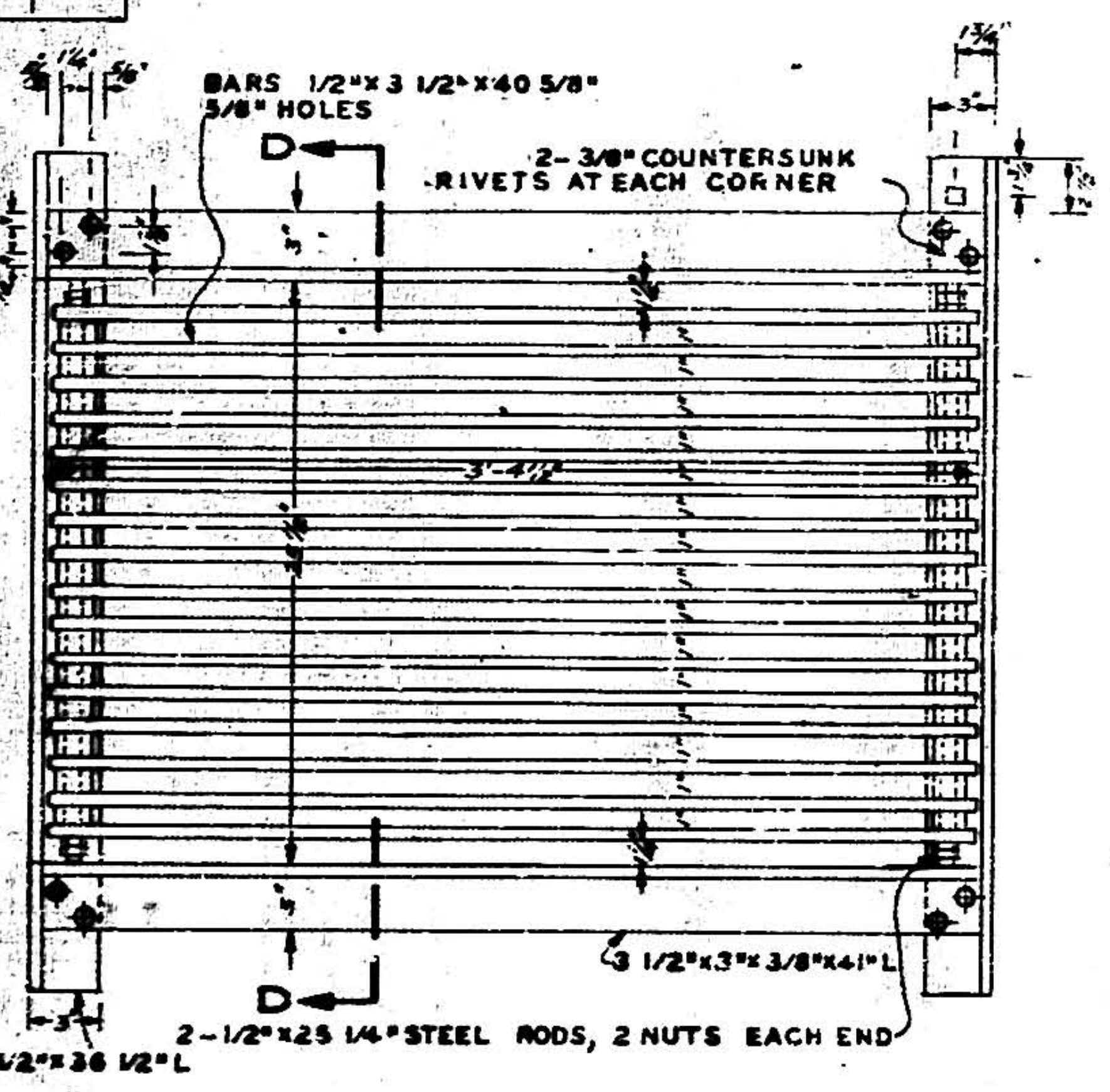
DETAIL OF DOWEL
TO BE USED WHEN TOP IS POURED SEPARATE


PLAN
SPACER
ALL BOLTS USED IN CENTER SUPPORTS
5"-18.9" H BEAM C.B.
2"

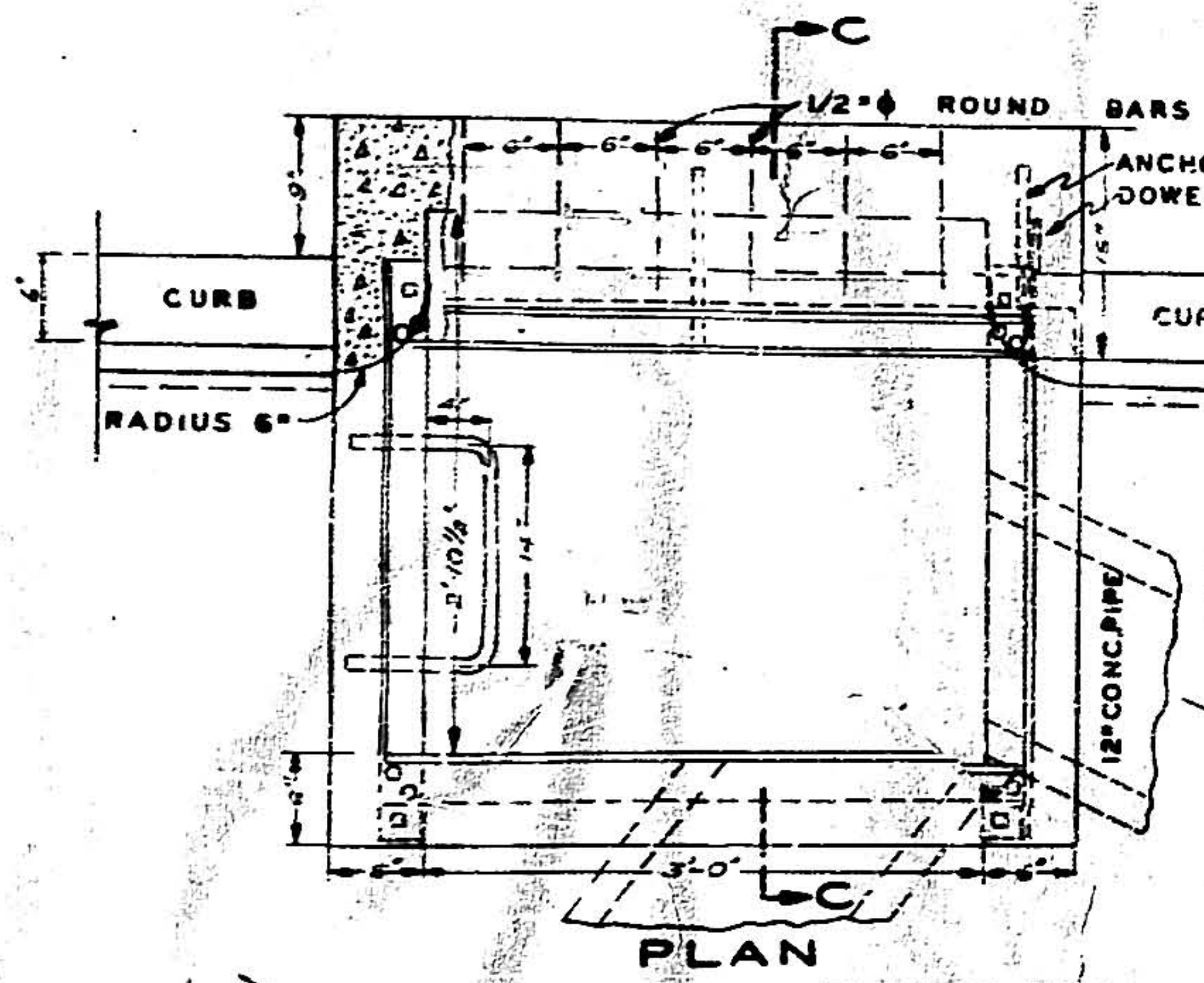
ELEVATION
CENTER SUPPORT ASSEMBLY



SECTION D-D


1 1/4"
5/8"
BARS 1/2"x 3 1/2"x 40 5/8"
5/8" HOLES
D
2- 3/8" COUNTERSUNK RIVETS AT EACH CORNER
1 3/4"
3"
3'-4 1/2"
D
3 1/2"x3"x 3/8"x41" L
3"
4"x3"x1/2"x36 1/2" L
2-1/2"x25 1/4" STEEL RODS, 2 NUTS EACH END

PLAN
STANDARD FRAME AND GRATING
SCALE 1/8"=1"

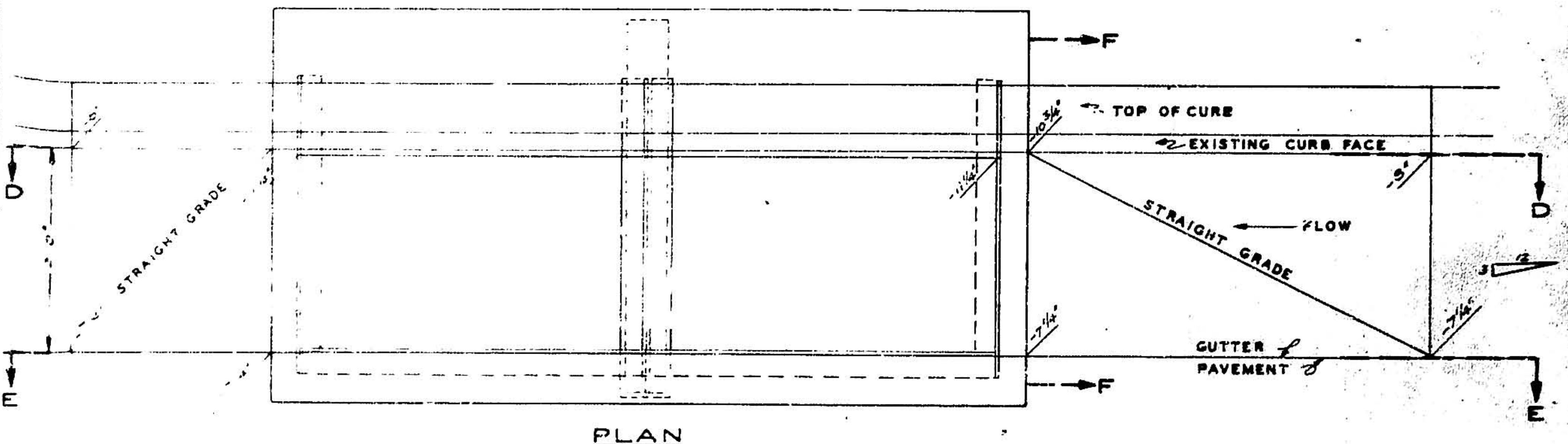

C
1/2"ϕ ROUND BARS
ANCHOR
DOWEL
6"
CURB
CURB
RADIUS 6"
12" CONC. PIPE
3'-0"
C

STEEL LIST
1- 3 1/2"x 3 1/2"x 1/2"x 3'10"
6-1/2"ϕ BARS 12" LONG
3-1/2"ϕ BARS 42" LONG
2-DOWELS-SEE DETAIL
3-ANCHORS " "
1-STEP-3/4" ROUND-SEE DETAIL

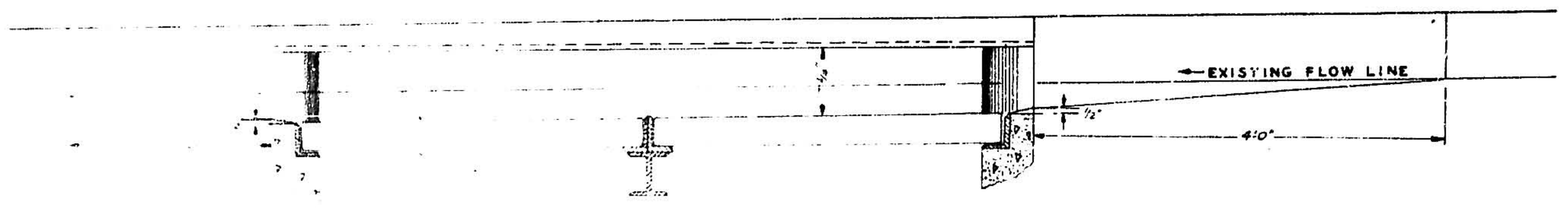
TO MANHOLE

ALL CONC. CLASS "B" 3000#
ALL REINF. STEEL 18.000#

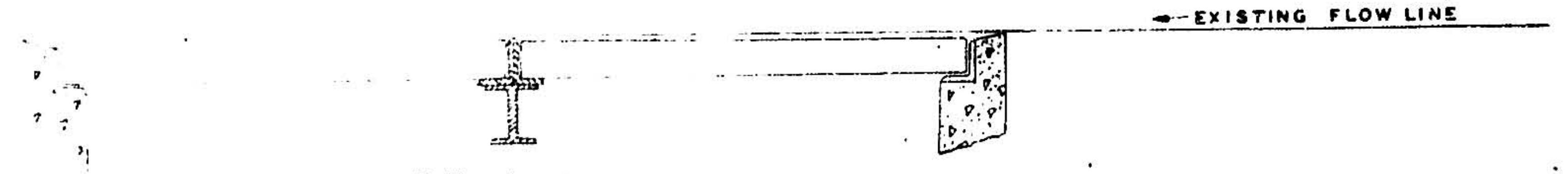
PLAN
SINGLE GRATE INLET & CATCH BASIN-TYPE "C"-ONE HALF STANDARD SIZE
SCALE: 1 INCH=1 FOOT


F
TOP OF CURB
EXISTING CURB FACE
D
D
STRAIGHT GRADE
FLOW
STRAIGHT GRADE
GUTTER ℄
PAVEMENT ℄
E
E
F

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


EXISTING FLOW LINE
4'0"

SECTION D-D


EXISTING FLOW LINE

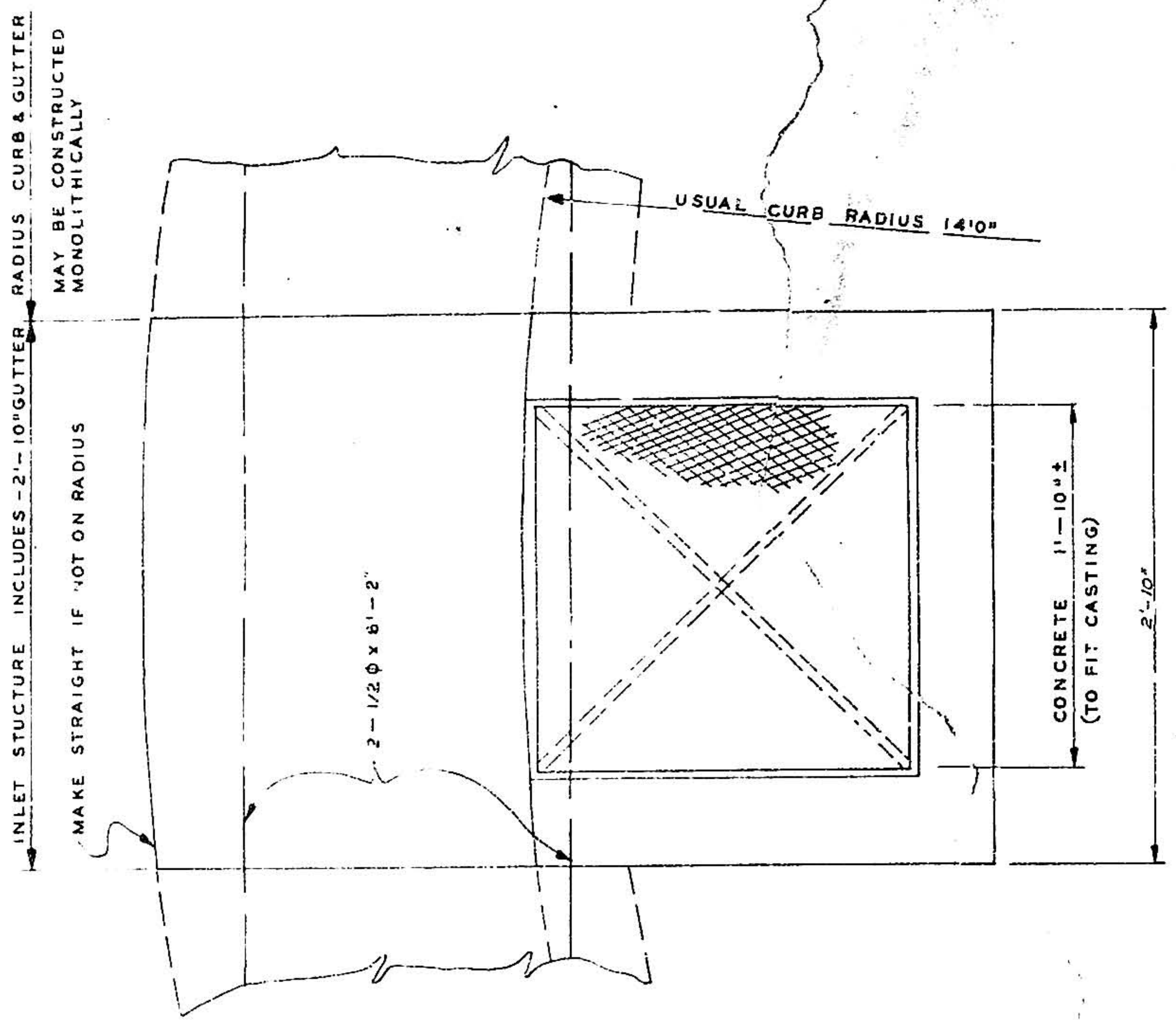
SECTION E-E

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
0	8		5	6	2		1	6	5	6			1	0															

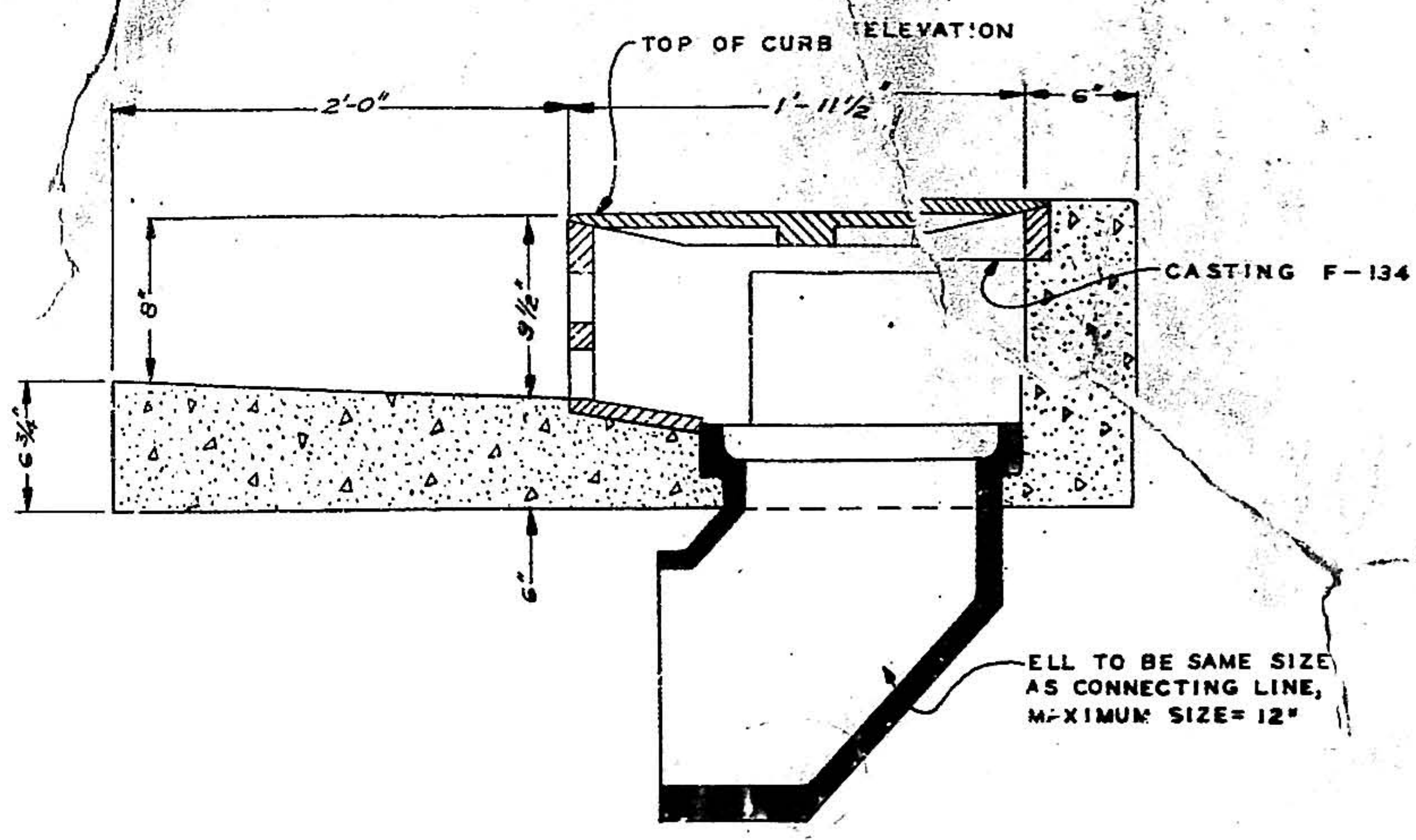
ALBUQUERQUE, NEW MEXICO
STORM SEWER STANDARDS
STANDARD DROP INLET DETAILS

HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
SANTA FE ALBUQUERQUE

SCALE	DATE	DRAWN L.R.	SHEET 15
AS SHOWN	1955	CHECKED G.W.	OF 19


INLET STUCTURE INCLUDES - 2'-10" GUTTER RADIUS CURB & GUTTER
MAY BE CONSTRUCTED MONOLITHICALLY
MAKE STRAIGHT IF NOT ON RADIUS
USUAL CURB RADIUS 14'0"
2 - 1/2 Φ x 8'-2"
CONCRETE 1'-10" ±
(TO FIT CASTING)
2'-10"

PLAN - CURB INLET [CASTING F-134]


TOP OF CURB ELEVATION
2'-0"
1'-11½"
6"
8"
9½"
6¾"
6"
CASTING F-134
ELL TO BE SAME SIZE AS CONNECTING LINE, MAXIMUM SIZE = 12"

SECTION - CURB INLET

08 562 1956 10

ALBUQUERQUE, NEW MEXICO

STORM SEWER STANDARDS

HERKENHOFF & ASSOC.
CONSULTING ENGINEERS
SANTA FE ALBUQUERQUE

SCALE	DATE	DRAWN	SHEET 19
AS SHOWN		CHECKED G.H.	OF 19