1

CITY OF

ALBUQUERQUE—NEW MEXICO

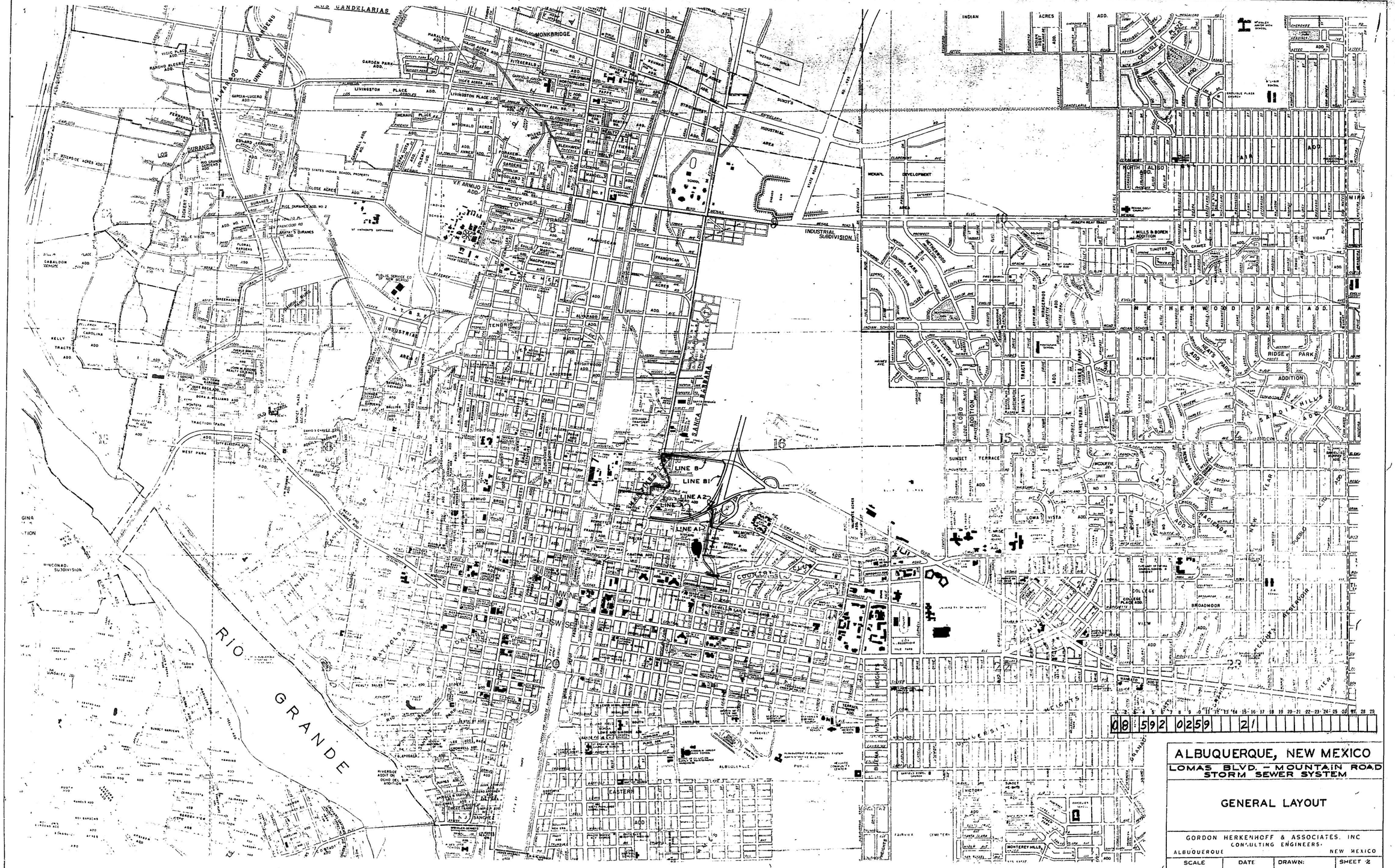
PLANS
FOR CONSTRUCTION
OF

LOMAS BLVD — MOUNTAIN ROAD

STORM SEWER SYSTEM

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 5 9 2 0 1 5 9 2 0

GORDON HERKENHOFF AND ASSOCIATES INC. CONSULTING ENGINEERS



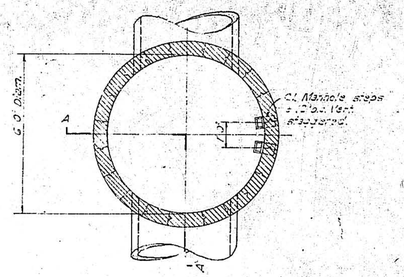
ALBUQUERQUE, NEW MEXICO

LOMAS BLVD. – MOUNTAIN ROAD STORM SEWER SYSTEM

GENERAL LAYOUT

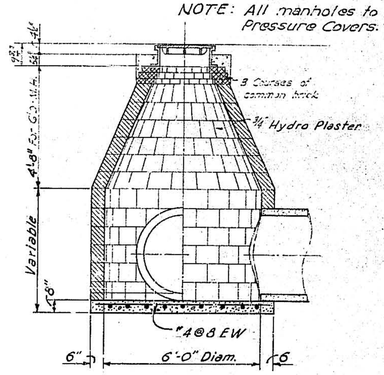
GORDON HERKENHOFF & ASSOCIATES, INC
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO

SCALE	DATE	DRAWN:	SHEET 2
1" = 1000'	SEPT., 1958	CHECKED: G.A.J.	OF 10

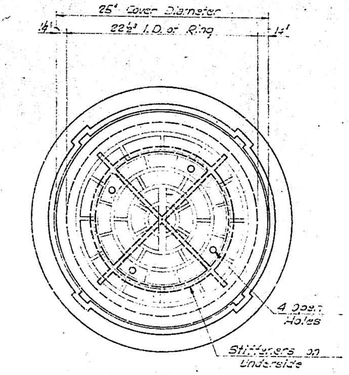


SECTION PLAN OF TYPE B MANHOLE

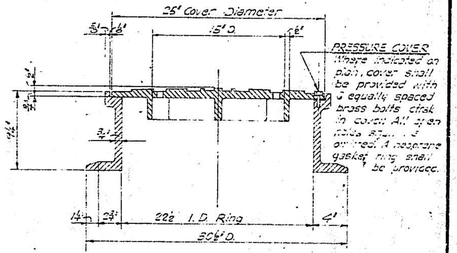
NOTE: All manholes to have Pressure Covers.



SECTION A-A TYPE B MANHOLE



PLAN

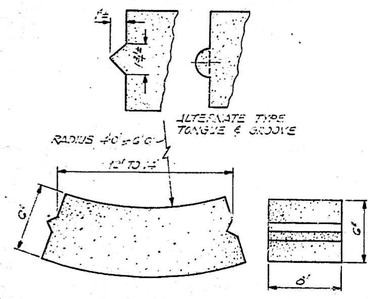


SECTION

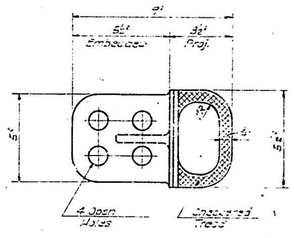
NOTE: Manhole ring and cover shall be cast the same.

DETAILS OF CAST IRON MANHOLE RING AND COVER

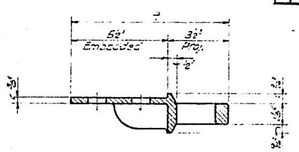
SCALE 3/4"=1'0"



TYPICAL DETAIL OF CONCRETE BLOCK



PLAN



SECTION

TYPICAL DETAILS OF STANDARD MANHOLE STEPS

SCALE 3"=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 24 25 26 27 28 29

0 8 5 9 2 0 3 5 9 1 0

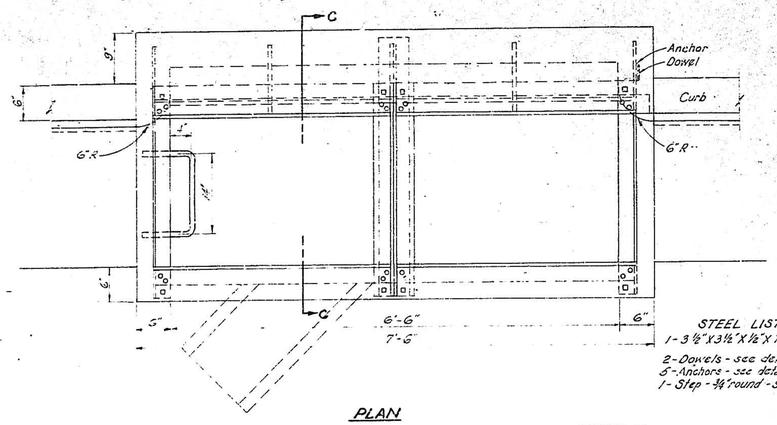
ALBUQUERQUE, NEW MEXICO

STORM SEWER STANDARDS

MANHOLE DETAILS

HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO

SCALE	DATE	DRAWN Y.F.R.	SHEET 3
AS SHOWN	SEPT, 1958	CHECKED G.A.T.	OF 10

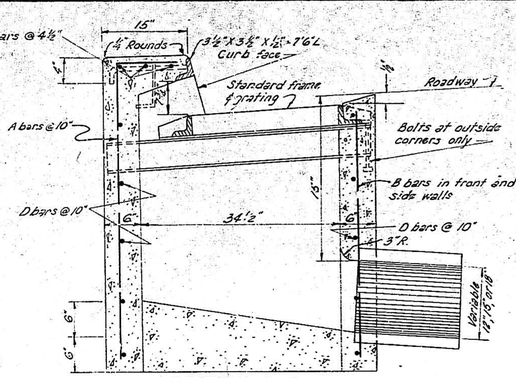


STEEL LIST
1-3½"X3½"X½"X7'6"L
2-Dowels - see detail
5-Anchors - see detail
1-Step - ¾" round - see plan

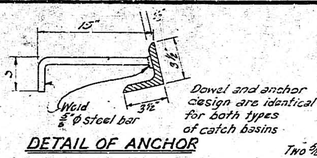
PLAN

DOUBLE GRATES STANDARD CATCH BASIN - TYPE C

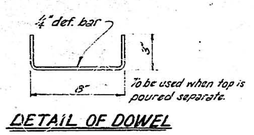
SCALE 1"-1'-0"



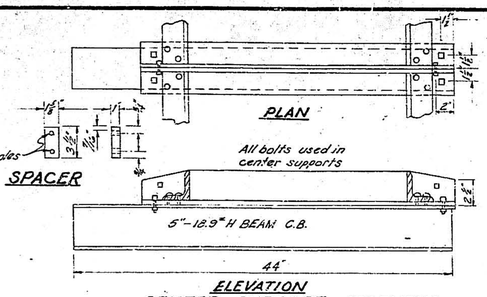
SECTION C-C
TYPE C



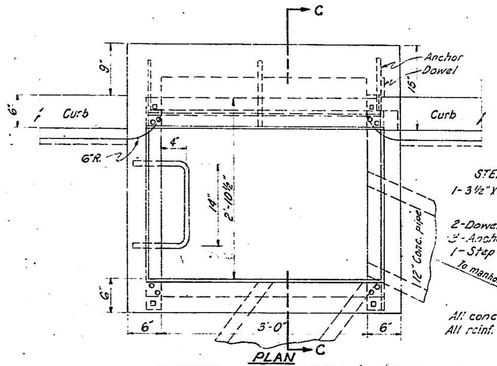
DETAIL OF ANCHOR



DETAIL OF DOWEL



ELEVATION
CENTER SUPPORT ASSEMBLY

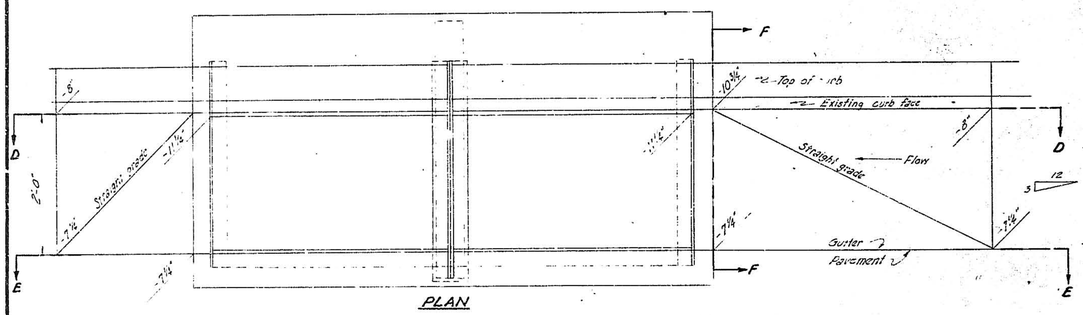


STEEL LIST
1-3½"X3½"X½"X5'10"
2-Dowels - See detail
3-Anchors - See detail
1-Step - ¾" Round - See detail
To manhole
All conc. class "B" 3000#
All reinf. steel 18,000#

PLAN

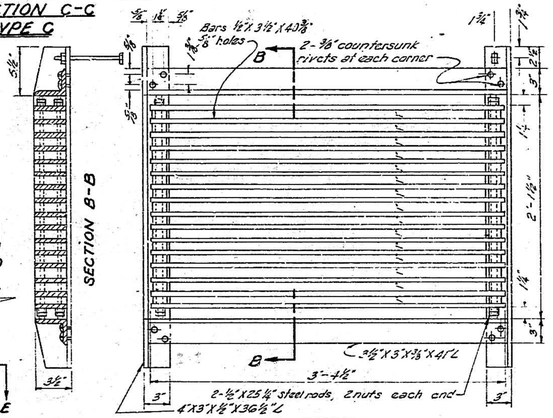
SINGLE GRATE INLET & CATCH BASIN TYPE C - ONE HALF STANDARD SIZE

Scale 1"=1'



PLAN

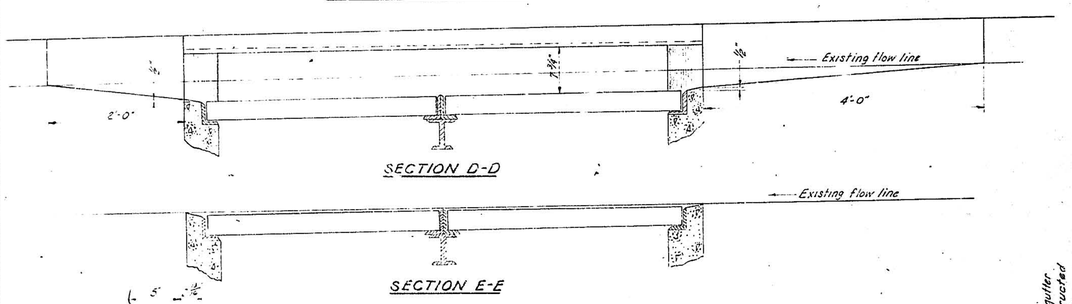
STANDARD LOCAL DEPRESSIONS FOR CATCH BASINS TYPES A, B, C, AND C-1



PLAN

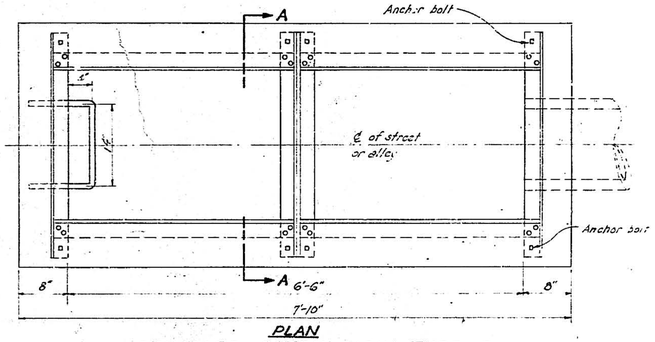
STANDARD FRAME AND GRATING

SCALE 1"-1'



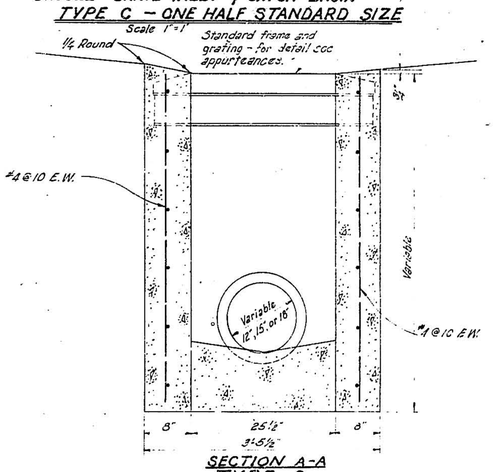
SECTION F-F

BAR BENDING DIAGRAM

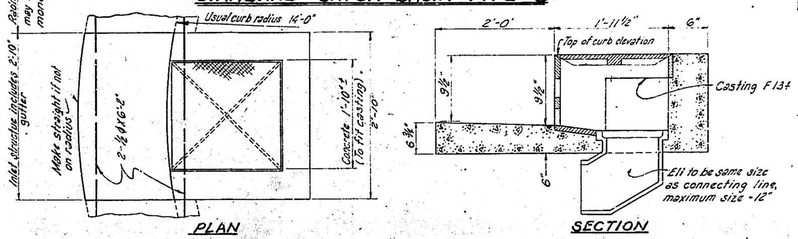


PLAN

STANDARD CATCH BASIN TYPE - D



SECTION A-A
TYPE-D



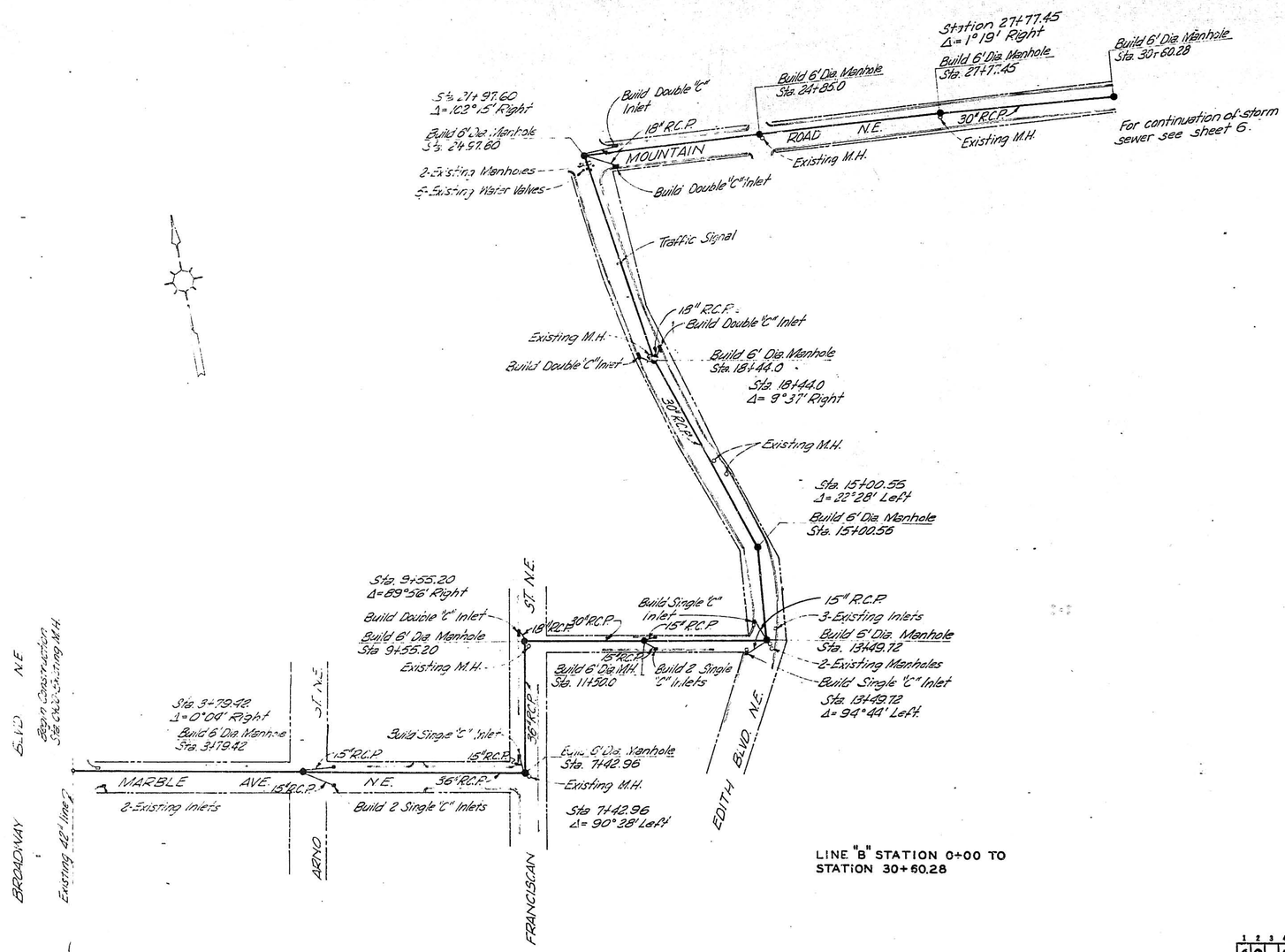
PLAN

SECTION

TYPE F INLET

0 8 5 9 2 0 4 5 9 1 0

ALBUQUERQUE, NEW MEXICO			
STORM SEWER STANDARDS			
INLET DETAILS			
HERKENHOFF & ASSOCIATES CONSULTING ENGINEERS SANTA FE ALBUQUERQUE			
SCALE AS SHOWN	DATE SEPT., 1958	DRAWN R.G.T. CHECKED G.A.J.	SHEET 4 OF 10



LINE "B" STATION 0+00 TO STATION 30+60.28

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 B 5 9 2 0 5 5 9 0 1 5 8 1 4 2

58152

NOTES:

1. All manholes to have pressure covers.
2. For profile of storm sewer see sheets 3 and 9.

LEGEND

	This Contract	By Others	Existing
Sewer Line (R.C.P.)	———	None	———
Inlets	▪	None	▫
Manholes	●	None	○
Water Valves	None	None	•
Curb and Gutter	None	None	———
Right of way	None	None	———

ALBUQUERQUE, NEW MEXICO

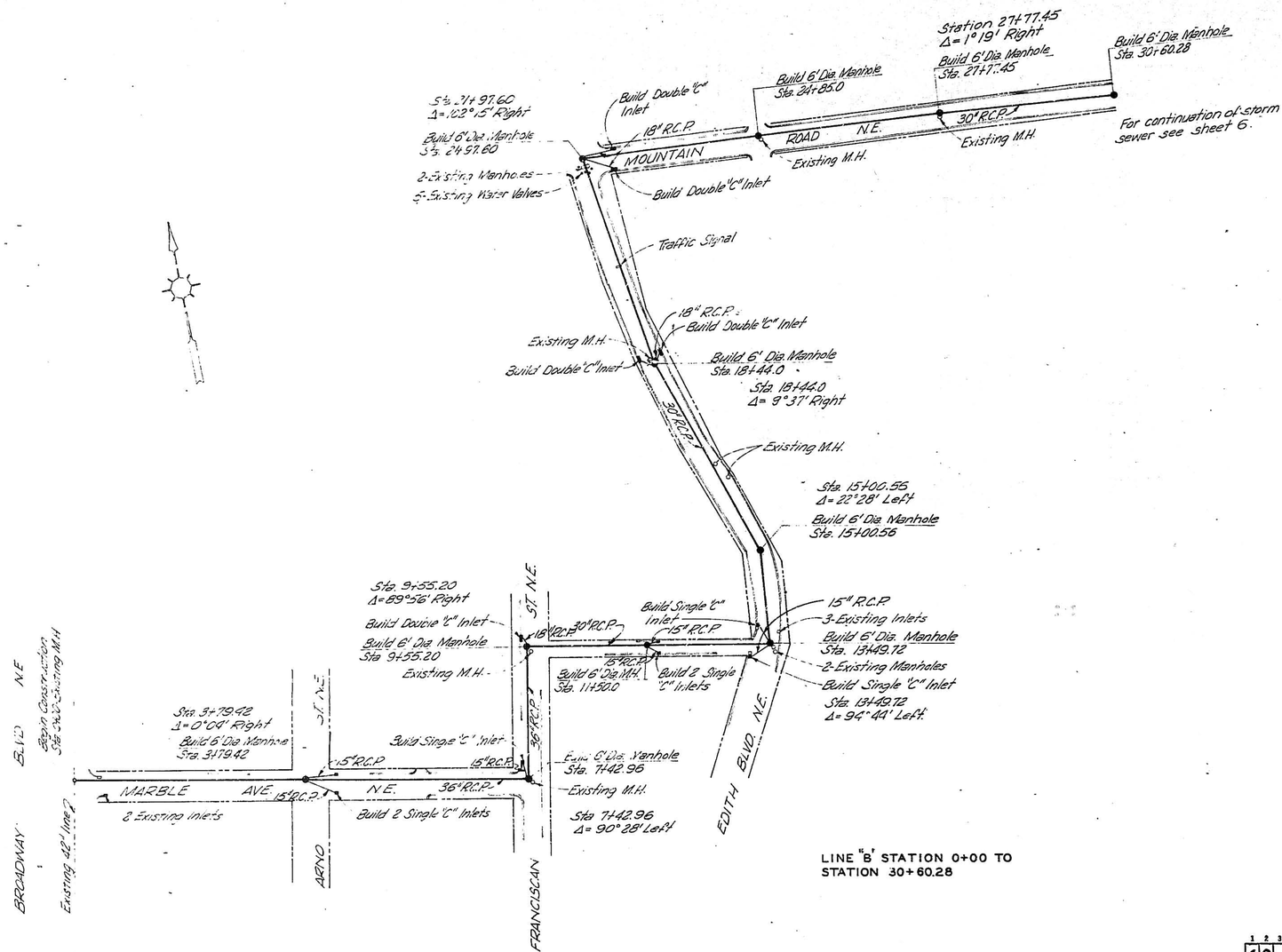
LOMAS BLVD. – MOUNTAIN ROAD STORM SEWER SYSTEM

PLAN

LINE B STA. 0+00 – STA. 30+60.28

GORDON HERKENHOFF & ASSOCIATES. INC.
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO

SCALE	DATE	DRAWN: G.A.F.	SHEET 5
1" = 100'	SEPT., 1958	CHECKED: G.A.J.	OF 10



LINE "B" STATION 0+00 TO STATION 30+60.28

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 9 2 0 5 5 9 0 1 5 8 1 4 2

58152

NOTES:

1. All manholes to have pressure covers.
2. For profile of storm sewer see sheets 3 and 9.

LEGEND

	This Contract	By Others	Existing
Sewer Line (R.C.P.)	———	None	- - -
Inlets	▬	None	▭
Manholes	●	None	○
Water Valves	None	None	•
Curb and Gutter	None	None	———
Right of way	None	None	———

ALBUQUERQUE, NEW MEXICO

LOMAS BLVD. – MOUNTAIN ROAD STORM SEWER SYSTEM

PLAN

LINE B STA. 0+00 – STA. 30+60.28

GORDON HERKENHOFF & ASSOCIATES, INC.
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO

SCALE	DATE	DRAWN: G.A.F.	SHEET 5
1" = 100'	SEPT., 1958	CHECKED: G.A.J.	OF 10

2

For Continuation of Line "B" See Sheet 4.

Build 6' Dia. Manhole Sta. 30+60.28 Line "B"

Build 6' Dia. Manhole Sta. 32+72.55 Line "B"

Build 6' Dia. Manhole Sta. 35+72.55 Line "B"

Build 6' Dia. Manhole Sta. 0+00 Line B-1 Sta. 37+72.55 Line "B"

Build 24" R.C.P.

Build Single "C" Inlets

LINE "B"

15" R.C.P.

Build Single "C" Inlets

Build Double "C" Inlet

18" R.C.P.

Build Double "C" Inlet

24" R.C.P.

Build Manhole 6' Dia. Sta. 1+55 Line B-1

LINE "B-1A"

24" R.C.P.

E-1 Inlet and R.C.P. By Others Inv.= 5068.27

E-1 Inlet and R.C.P. By Others Inv.= 5067.69

MOUNTAIN ROAD

LINE "B-1"

29" R.C.P.

Junction Box and R.C.P. Existing

N2 - 422

M-3 Inlet and R.C.P. By Others

Build 6' Dia. Manhole Sta. 5+35 Line B-1

24" R.C.P.

E-1 Inlet and R.C.P. By Others Inv.= 5065.94

Build 6' Dia. Manhole Sta. 21+39

Build 6' Dia. Manhole Sta. 23+84 and Line A Build Double "C" Inlet

Build 30" R.C.P.

18" R.C.P.

90° R.C.P.

LOMAS BLVD.

M-2 Inlet and R.C.P. By Others Inv.= 5061.6

M-2 Inlet and R.C.P. By Others Inv.= 5054.0

Build 6' Dia. Manhole Sta. 15+19 Line A = 5+4 0+00 Line A-1

B2 Inlet and R.C.P. By Others Inv.= 5029.59

E-1 Inlet and R.C.P. By Others Inv.= 5044.0

Junction Box and M-2 Inlet By Others Inv.= 5032.0

Build 6' Dia. Manhole Sta. 17+87 Line A

Build 6' Dia. Manhole Sta. 18+64 Line A

Build Single "C" Inlet

Build 6' Dia. Manhole Sta. 20+59 Line A

18" R.C.P.

90° R.C.P.

"A"

24" R.C.P.

Double 4' Inlet and R.C.P. By Others

B2 Inlet and R.C.P. By Others Inv.= 5048.0

LINE "A-2"

A-3 Inlet and R.C.P. By Others

30" R.C.P.

LINE

24" R.C.P.

STATE ROAD

Build 6' Dia. Manhole Sta. 12+19 Line A

Build 6' Dia. Manhole Sta. 9+19 Line A

Build 6' Dia. Manhole Sta. 6+19 Line A

Build 6' Dia. Manhole Sta. 3+19 Line A

Build 6' Dia. Manhole Sta. 0+00 Line A

Build 30" R.C.P.

LINE "A"

LOMAS BLVD.

Build 6' Dia. Manhole Sta. 0+63 Line A-1

Build 6' Dia. Manhole Sta. 1+13 Line A-1

Build 6' Dia. Manhole Sta. 4+15 Line A-1

Existing 36" Storm Sewer

EDITH ST.

LINE "A-1"

Concrete Box R.C.P. By Others

E-1 Inlet By Others Inv.=4564 M-2 Inlet and R.C.P. By Others Inv.= 5039.0

Build 6' Dia. Manhole Sta. 9+30 Line "A-1" M-2 Inlet By Others Inv.= 5053.0

5065.62

5061.07

5065.56

E-1 Inlets By Others

Existing 15" R.C.P.

Build 6' Dia. Manhole Sta. 9+30 Line A-1

18" R.C.P.

Build Double "C" Inlets

Build 30" R.C.P.

LEGEND

	This Contract	By Others	Existing
Sewer Line (R.C.P.)			
Inlets	▬	═	None
Manholes	●	○	None
Junction Boxes	None	□	⊠

Notes:
1. For profile of Storm Sewer Lines See Sheets 7,8,9 and 10.
2. All Manholes to have Pressure Covers.

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 9 2 | 0 6 5 9 | | | 0 1 | | | | | 5 8 1 4 2

5815

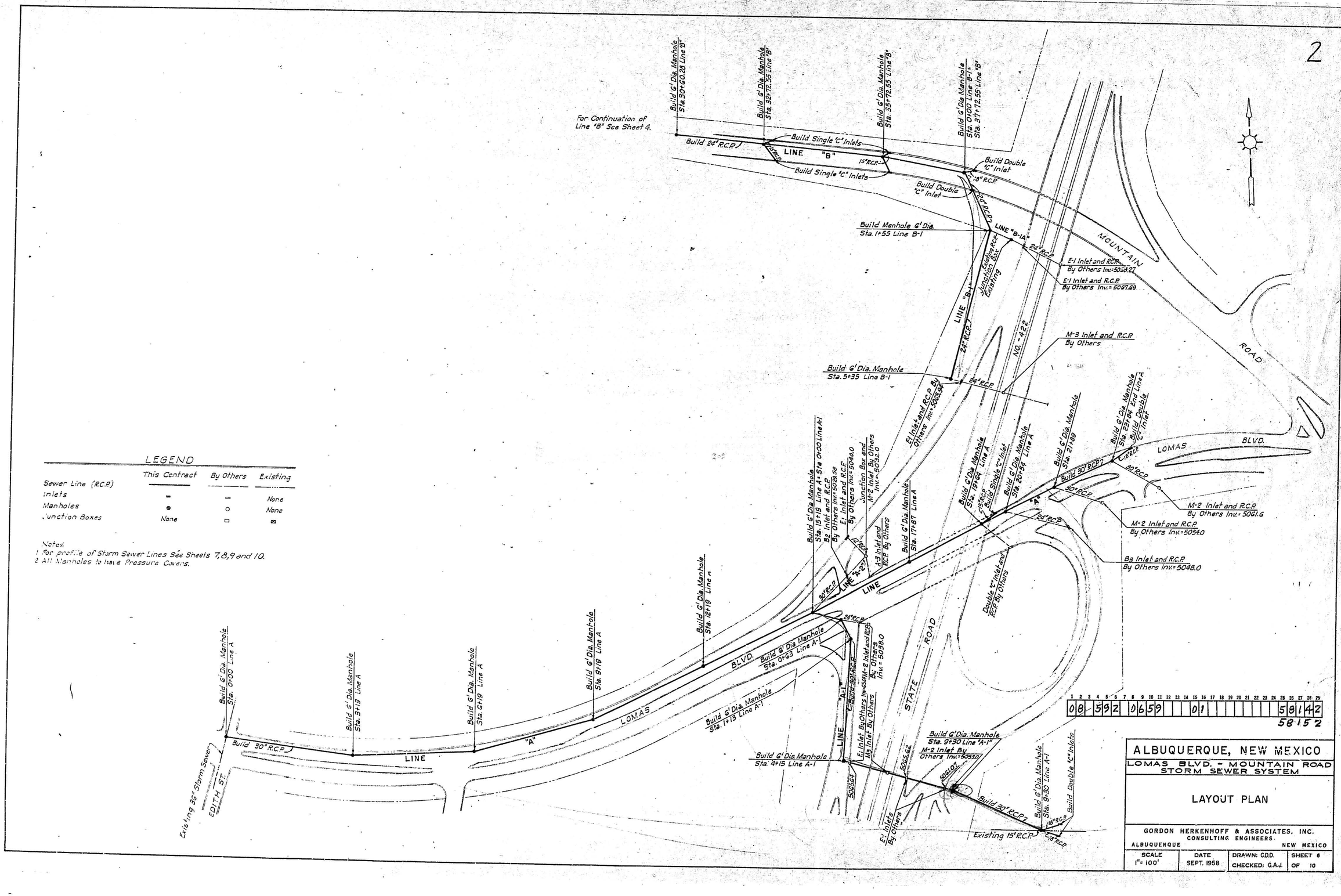
ALBUQUERQUE, NEW MEXICO

LOMAS BLVD. - MOUNTAIN ROAD STORM SEWER SYSTEM

LAYOUT PLAN

GORDON HERKENHOFF & ASSOCIATES, INC.
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO

SCALE	DATE	DRAWN: C.D.D.	SHEET 6
1" = 100'	SEPT. 1958	CHECKED: G.A.J.	OF 10



LEGEND

	This Contract	By Others	Existing
Sewer Line (R.C.P.)	———	———	
Inlets	▬	▭	None
Manholes	●	○	None
Junction Boxes	None	□	⊠

Notes:
1. For profile of Storm Sewer Lines See Sheets 7,8,9 and 10.
2. All Manholes to have Pressure Covers.

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 9 2 | 0 6 5 9 | | 0 1 | | | | | | | | | 5 8 1 4 2

58152

ALBUQUERQUE, NEW MEXICO

LOMAS BLVD. - MOUNTAIN ROAD STORM SEWER SYSTEM

LAYOUT PLAN

GORDON HERKENHOFF & ASSOCIATES, INC.
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO

SCALE	DATE	DRAWN: C.D.D.	SHEET 6
1" = 100'	SEPT. 1958	CHECKED: G.A.J.	OF 10

Scale: 1"=50' Horizontal
1"=10' Vertical

2

FINAL SURVEY — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — NOTE BOOK — NO. — BY — DATE

ORIGINAL SURVEY — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — NOTE BOOK — NO. — BY — DATE

Finish Grade Line

30"RCP S=0.0031

08 592 0759 014 5015.2

LINE "A" STA. 0+00 TO 23+54

PLATE 3 CROSS SECTION

CHARLES BRUNING COMPANY, INC.

LOMAS BLVD.—MOUNTAIN ROAD STORM SEWER SYSTEM SHEET 7 OF 10

Scale: 1"=50' Horizontal
1"=10' Vertical

2

Finish Grade Line

30"RCP S=0.0049

Existing 36"RCP

Existing Manhole Sta. 9+00.00 Rim El. 5026.10

Existing Manhole Sta. 13+00.00 Rim El. 5039.60

Existing Manhole Sta. 17+22.50 Rim El. 5052.50

09 5922 0759

LINE "A" STA. 0+00 TO 23+54

PLATE 3 CROSS SECTION of SEWER
100% RAG TRANSPARENTIZED TRACING PAPER MADE AND PRINTED IN U.S.A.
CHARLES BRUNING COMPANY, INC.

Scale: 1"=50' Horizontal
1"=10' Vertical

2

FINAL SURVEY — SURVEYED ____ DATE ____ BY ____ ITEM ____ PLAT ____ AREAS ____ NOTE BOOK ____ NO. ____ AREAS CHECKED ____

ORIGINAL SURVEY — SURVEYED ____ COMPLETED ____ AREAS ____ NOTE BOOK ____ ATLAS ____ ATLAS CHECKED ____

Finish Grade Line

Existing Manhole STA 0+00.00 INV.EL.4943.08

36" RCP S=0.0065

Build 6'DIA. Manhole STA 3+79.42 INV.EL.4934.55

36" RCP S=0.0058

Build 6'DIA. Manhole STA 5+74.96 INV.EL.4931.63

36" RCP S=0.0070

30" RCP

Build 6'DIA. Manhole STA 9+65.20 INV.EL.4924.18

S=0.0075

30" RCP S=0.0188

Build 6'DIA. Manhole STA 11+50.56 INV.EL.4920.58

Build 6'DIA. Manhole STA 12+85.72 INV.EL.4918.05

Finish Grade Line

30" RCP S=0.0188

30" RCP S=0.0188

Build 6'DIA. Manhole STA 15+00.56 INV.EL.4895.88

Build 6'DIA. Manhole STA 15+34.44 INV.EL.4895.24

24" RCP S=0.0339

Build 6'DIA. Manhole STA 17+60.00 INV.EL.4889.00

24" RCP S=0.0339

Build 6'DIA. Manhole STA 24+05.74 INV.EL.4871.74

Build 6'DIA. Manhole STA 27+42.30 INV.EL.4862.62

Build 6'DIA. Manhole STA 28+00.00 INV.EL.4860.00

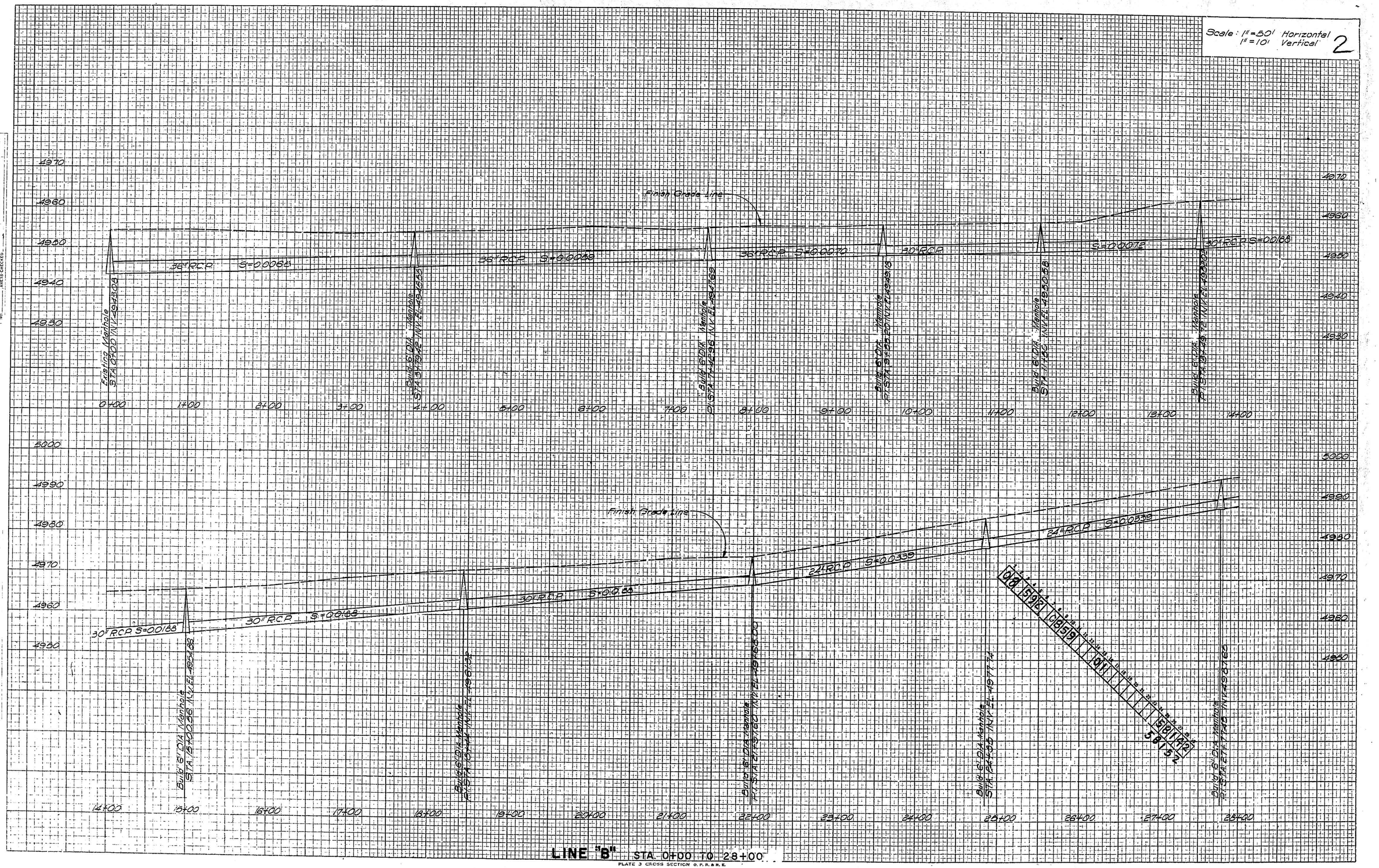
LINE "B" STA. 0+00 TO 28+00

PLATE 3 CROSS SECTION O. P. R. & R. E.

100% RAG PAPER—MADE AND PRINTED IN U.S.A.
CHARLES RO. NING COMPANY, INC.

Scale: 1"=50' Horizontal
1"=10' Vertical

2



LINE "B" STA. 0+00 TO 28+00

PLATE 3 CROSS SECTION O.P.R. & R.E.
100% RAG PAPER-MADE AND PRINTED IN U.S.A.
CHARLES BRUNING COMPANY, INC.

Scale: 1"=50' Horizontal
1"=10' Vertical

FINAL SURVEY — LOCATED — BY — DATE — PLOTTED — CHECKED — NOTE BOOK — TRACED — AREAS — AREAS CHECKED — NO.

ORIGINAL SURVEY — RE-FIELD — BY — DATE — PLOTTED — CHECKED — NOTE BOOK — TRACED — AREAS — AREAS CHECKED — NO.

5030
5020
5010
5000
4990
4980

Finish Grade Line

24" RCP S=0.0339

24" RCP S=0.0350

24" RCP S=0.0380

Build 6'DIA Manhole
STA. 29+29.36
INV. EL. 5002.36

Build 6'DIA Manhole
STA. 29+60.23
INV. EL. 4997.30

Build 6'DIA Manhole
STA. 32+22.55
INV. EL. 5006.78
Inlet Flow Line
INV. EL. 5008.28
15" RCP

Build 6'DIA Manhole
STA. 35+72.55
INV. EL. 4996.78
Inlet Flow Line
INV. EL. 5008.28

Build 6'DIA Manhole
STA. 37+72.55
INV. EL. 5024.47
Inlet Flow Line
INV. EL. 5026.00
Build 24" RCP Stub

28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00

LINE "B" STA. 28+00 TO STA. 37+72.55

06 592 09 59 01 58 152

PLATE 3 CROSS SECTION O. P. R. & R. E.
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
CHARLES BRUNING COMPANY, INC.

Scale: 1"=50' Horizontal
1"=10' Vertical

FINAL SURVEY — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — NOTE BOOK — NO — BY — DATE

ORIGINAL SURVEY — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — NOTE BOOK — NO — BY — DATE

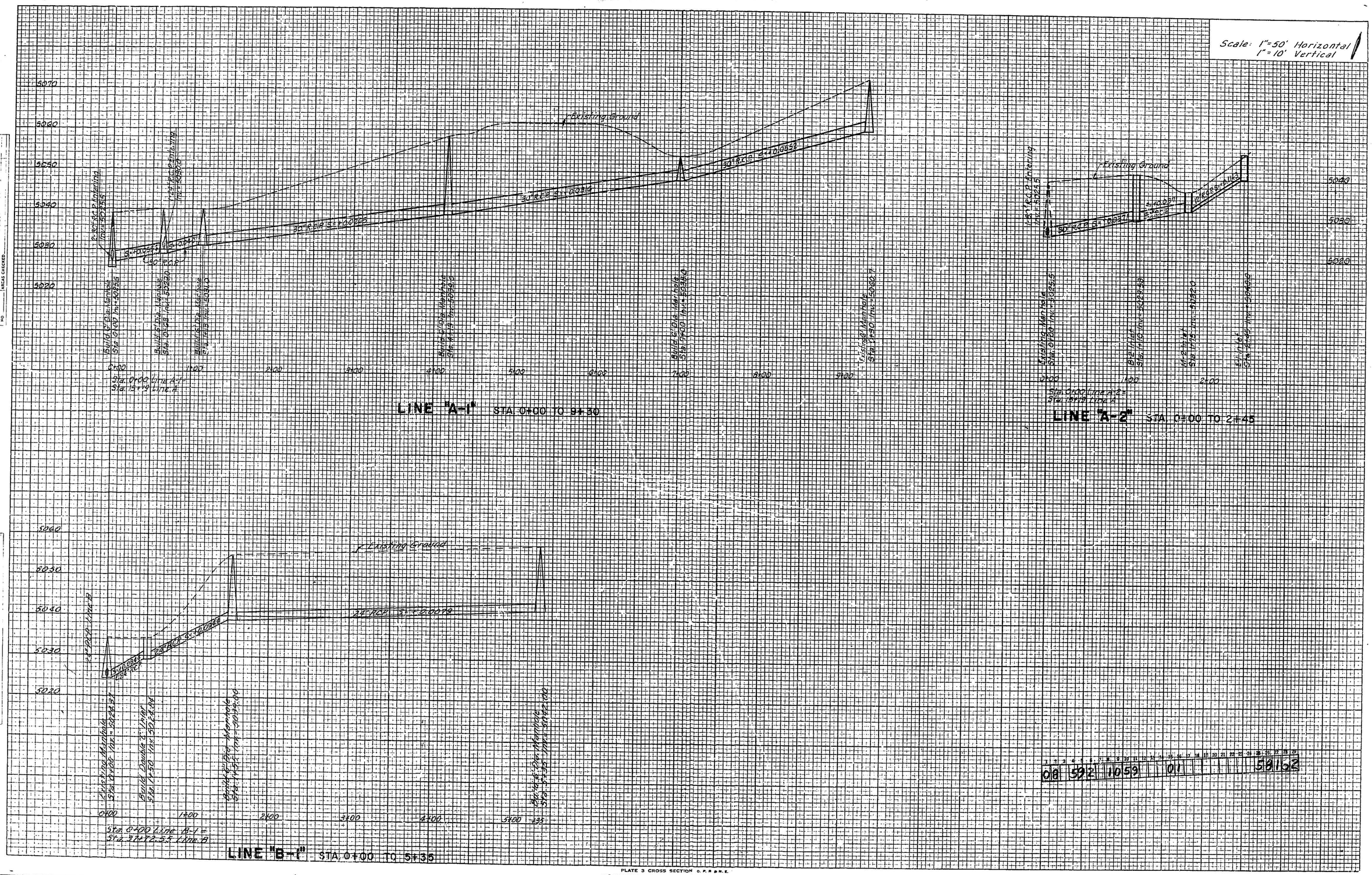


PLATE 3 CROSS SECTION O. P. R. B. N. E.
100% RAG TRANSPARENTIZED TRACING PAPER—MADE AND PRINTED IN U. S. A.
CHARLES BRUNING COMPANY, INC.

LOMAS BLVD.—MOUNTAIN ROAD STORM SEWER SYSTEM SHEET 10 OF 10

08 592 1059 01 59 1/2