CITY OF

ALBUQUERQUE—NEW MEXICO

WILSON PLACE
STORM SEWER SYSTEM

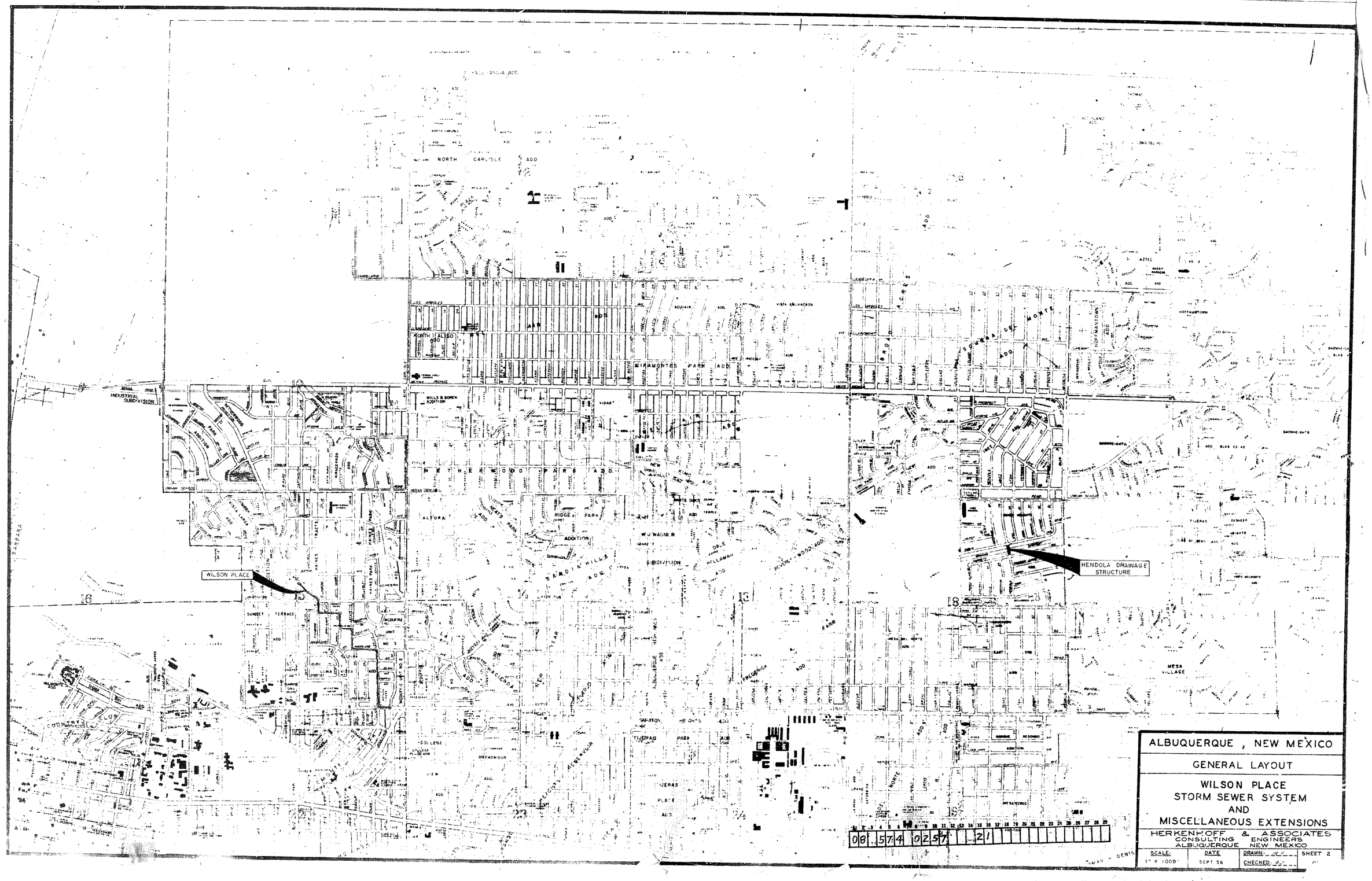
AND

MISCELLANEOUS EXTENSIONS

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	0		5	7	4		0	1	5	7					2	0												

GORDON HERKENHOFF AND ASSOCIATES INC. CONSULTING ENGINEERS

SHEET 1 OF 22



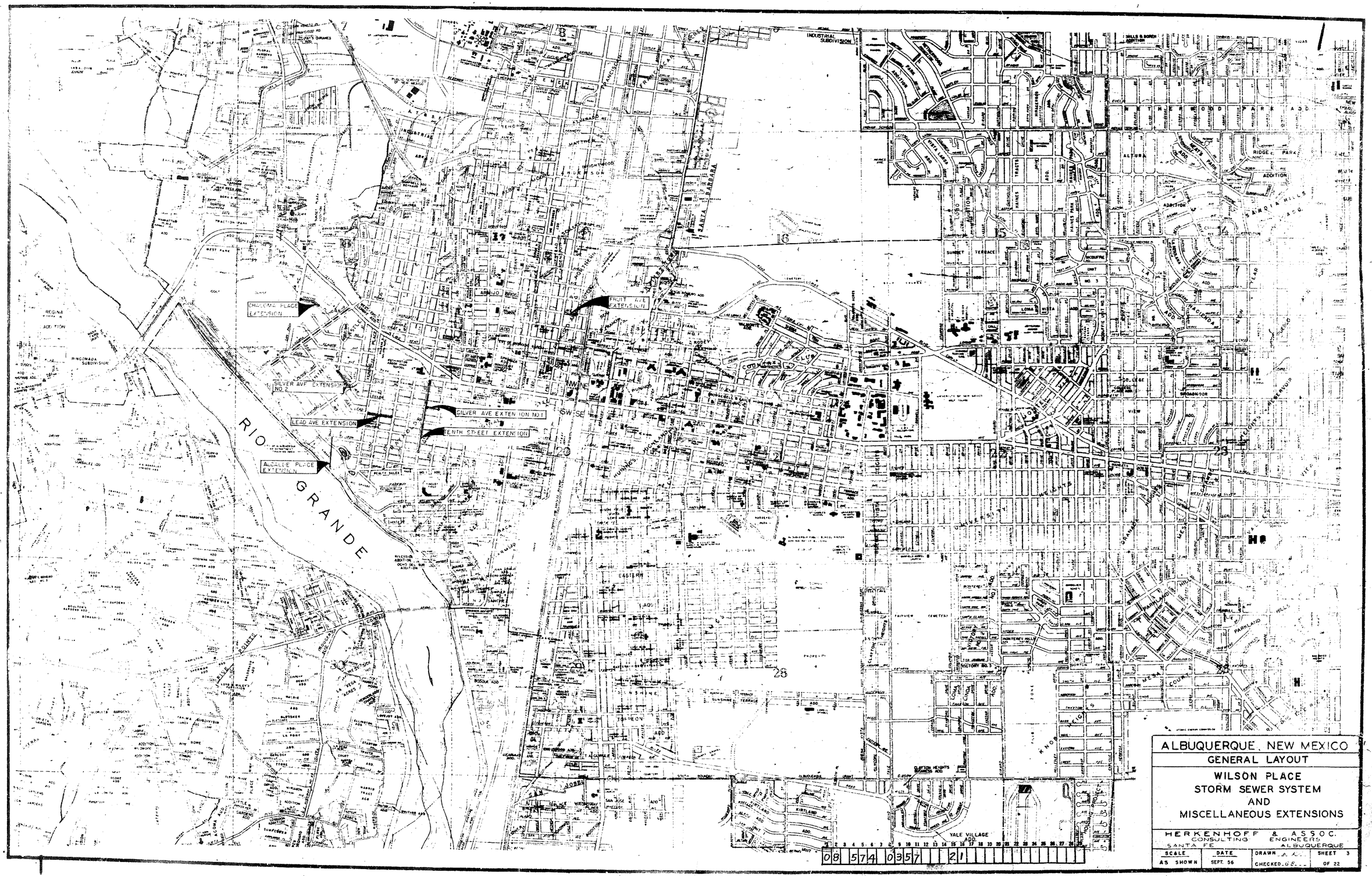
ALBUQUERQUE , NEW MEXICO

GENERAL LAYOUT

WILSON PLACE
STORM SEWER SYSTEM
AND
MISCELLANEOUS EXTENSIONS

HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO

SCALE:	DATE	DRAWN:	SHEET 2
1" = 1000'	SEPT 56	CHECKED:	



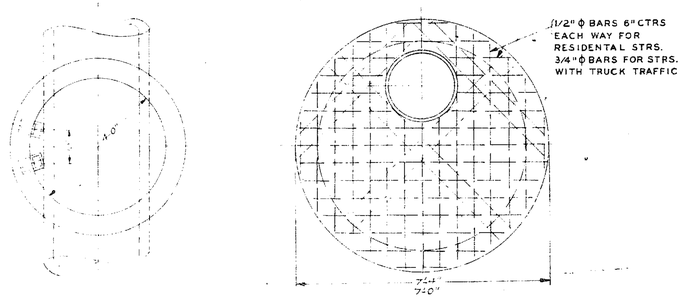
ALBUQUERQUE, NEW MEXICO

GENERAL LAYOUT

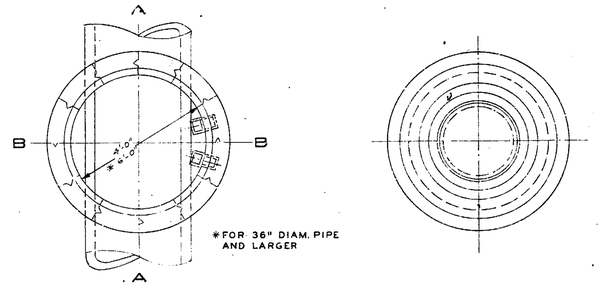
WILSON PLACE
STORM SEWER SYSTEM
AND
MISCELLANEOUS EXTENSIONS

HERKENHOFF & ASSOC.
CONSULTING ENGINEERS
SANTA FE ALBUQUERQUE

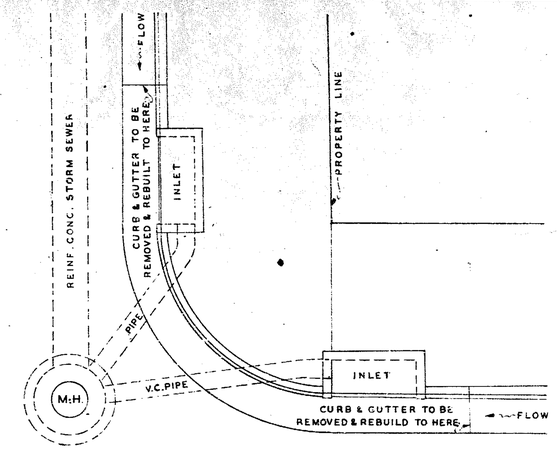
SCALE	DATE	DRAWN	SHEET 3
AS SHOWN	SEPT. 56	CHECKED	OF 22



PRECAST CONC. COVER

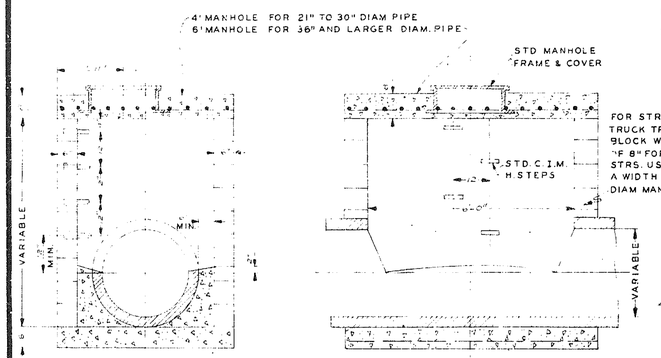


SECTION PLAN



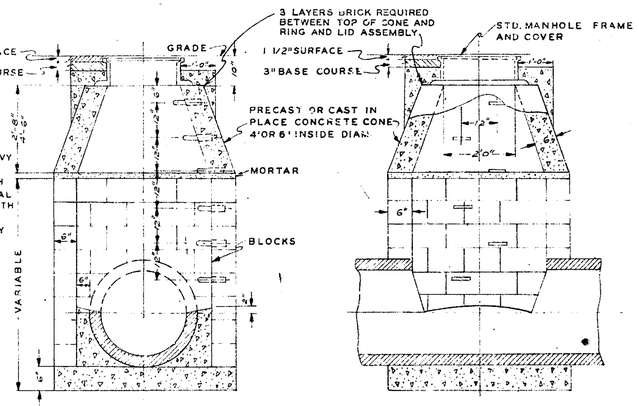
LOCATION OF INLETS IN STREET TYPE "A"

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



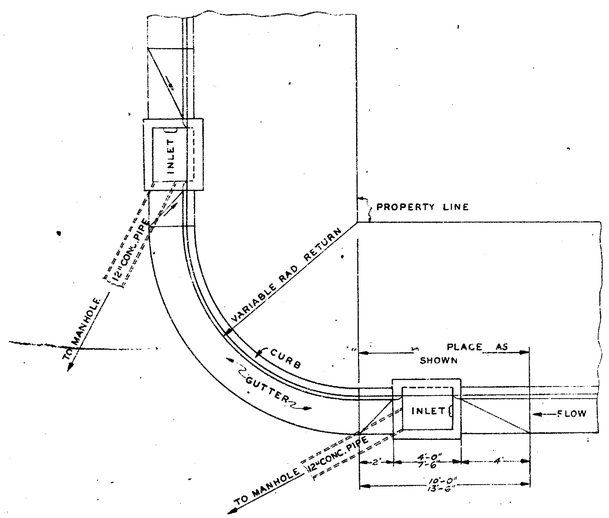
SECT. 4 FOOT M.H. SECT. 6 FOOT M.H.

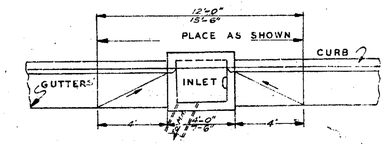
STANDARD STORM SEWER MANHOLE TYPE "A"



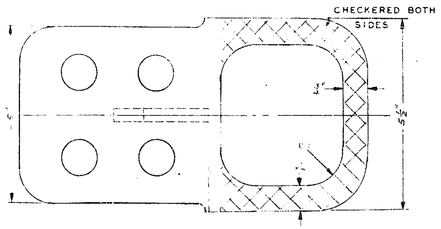
SECTION B-B SECTION A-A

STANDARD STORM SEWER MANHOLE TYPE "B"

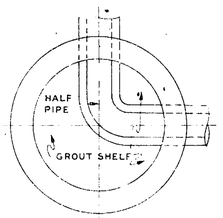




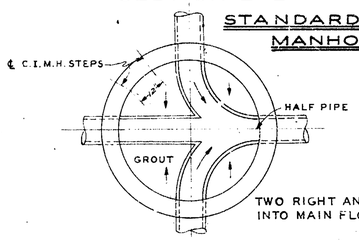
LOCATION OF TYPE "C" & "C-1" INLET IN STREET TANGENT



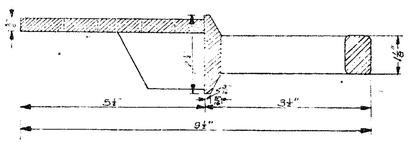
STANDARD MANHOLE STEP

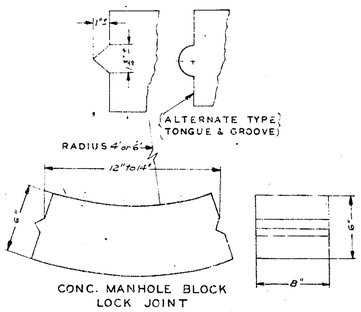


RIGHT ANGLE ENTRY AND EXIT TYPE "B" MANHOLE



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





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-8½"-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.

08 574 0457 10

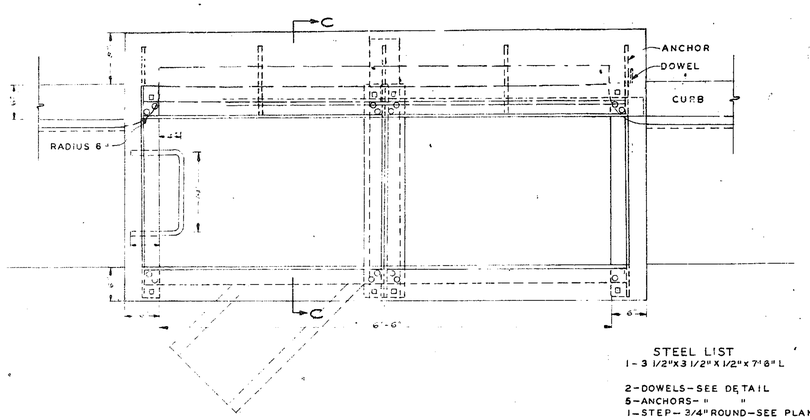
ALBUQUERQUE, NEW MEXICO

STORM SEWER STANDARDS

MANHOLE DETAILS

HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
SANTA FE ALBUQUERQUE

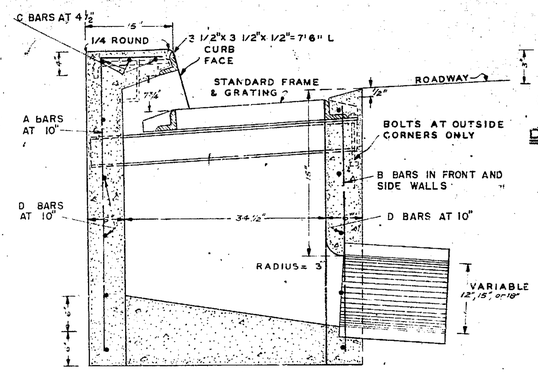
SCALE	DATE	DRAWN	SHEET 4
AS SHOWN	SEPT. 56	CHECKED	OF 22



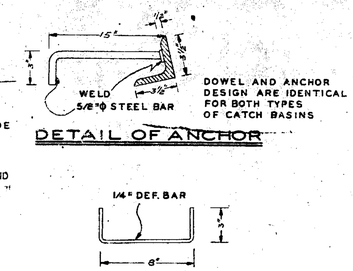
STEEL LIST
1 - 3 1/2"x3 1/2"x 1/2"x 7'8" L

2-DOWELS-SEE DETAIL
5-ANCHORS- " "
1-STEP- 3/4" ROUND-SEE PLAN

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

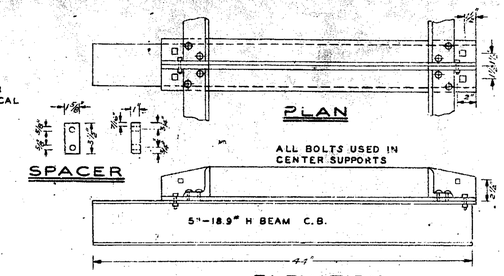


SECTION C-C
[TYPE C]

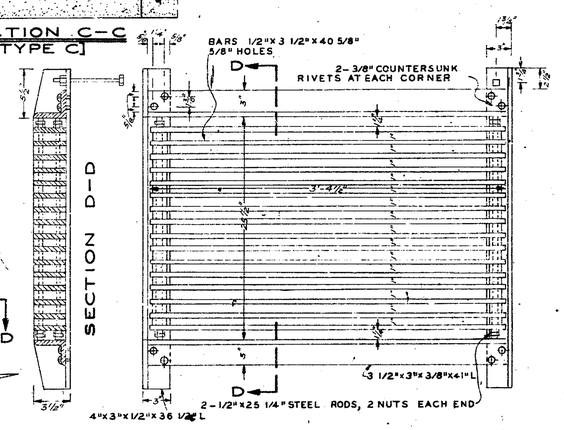


DETAIL OF ANCHOR

DETAIL OF DOWEL
TO BE USED WHEN TOP IS POURED SEPARATE

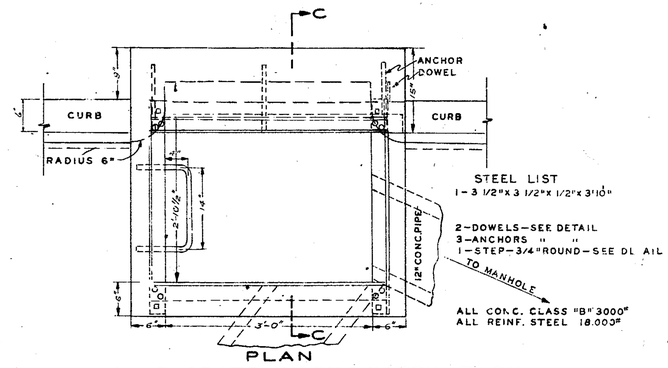


ELEVATION
CENTER SUPPORT ASSEMBLY



SECTION D-D

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

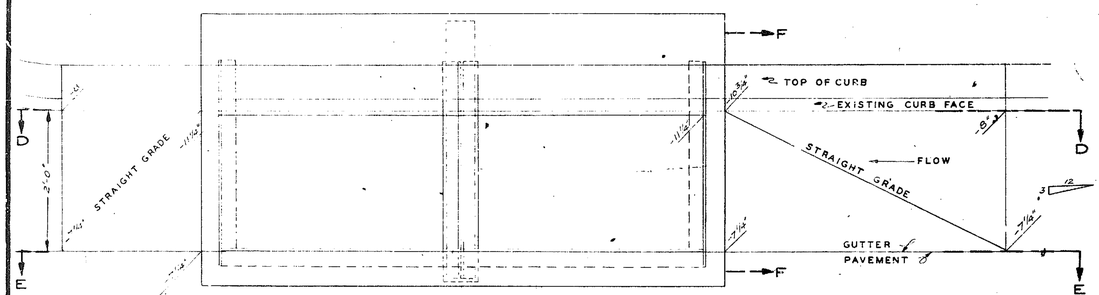


STEEL LIST
1 - 3 1/2"x 3 1/2"x 1/2"x 3'10"

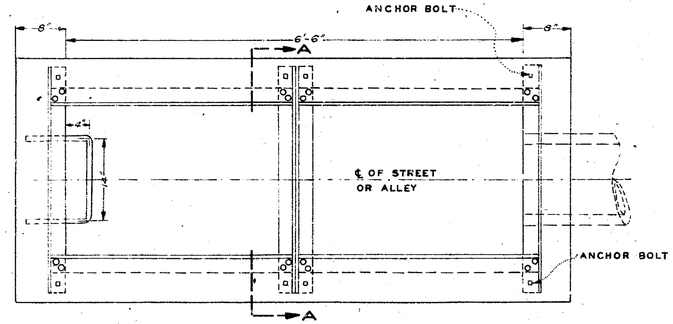
2-DOWELS-SEE DETAIL
3-ANCHORS " "
1-STEP-3/4" ROUND-SEE DETAIL

ALL CONC. CLASS "B" 3000#
ALL REINF. STEEL 18,000#

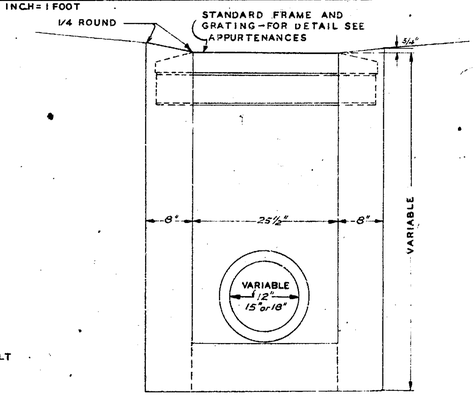
PLAN
SINGLE GRATE INLET & CATCH BASIN-TYPE "C"-ONE HALF STANDARD SIZE
SCALE: 1 INCH=1 FOOT



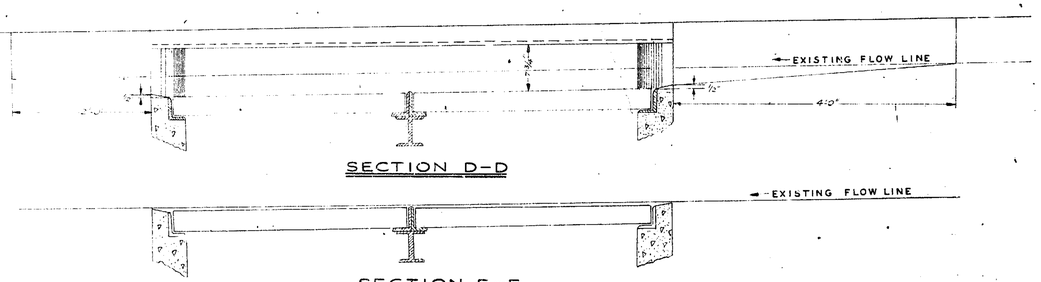
PLAN
STANDARD LOCAL DEPRESSIONS FOR CATCH BASINS
TYPES A, B AND C & C-1



PLAN
STANDARD CATCH BASIN TYPE-D

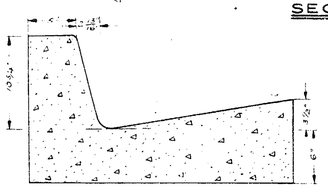


SECTION A-A
TYPE-D

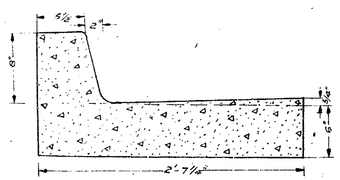


SECTION D-D

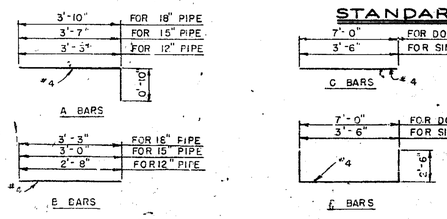
SECTION E-E



SECTION F-F



STANDARD SECTION
CURB AND GUTTER



BAR BENDING DIAGRAM

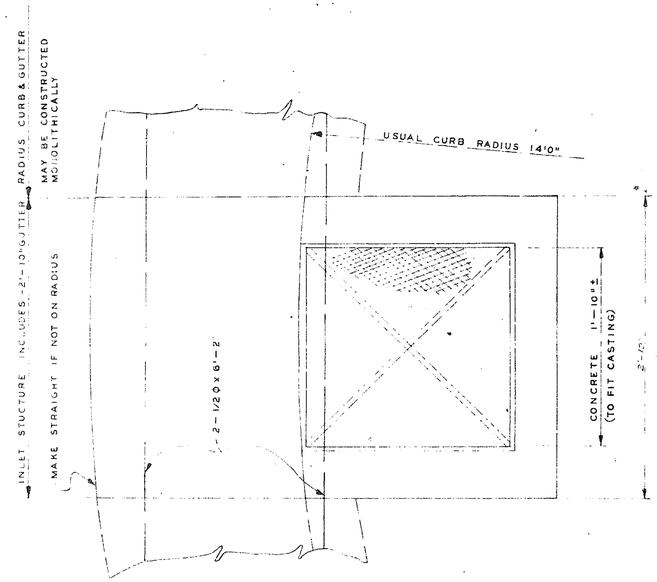
08 574 0557 10

ALBUQUERQUE, NEW MEXICO
STORM SEWER STANDARDS

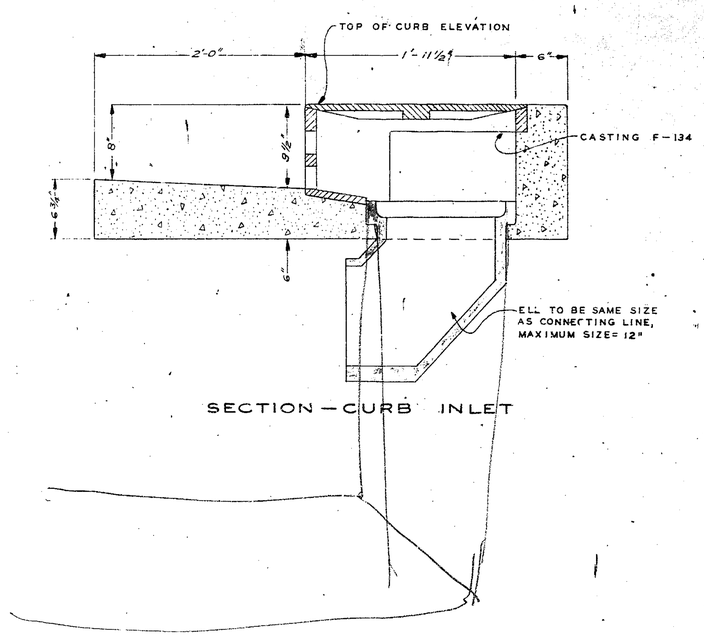
INLET DETAILS

HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
SANTA FE ALBUQUERQUE

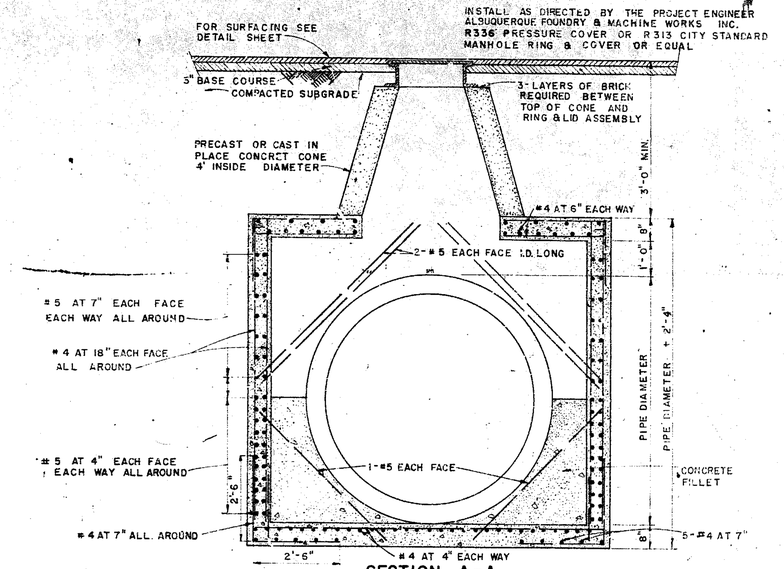
SCALE	DATE	DRAWN	SHEET 5
AS SHOWN	SEPT. 56	CHECKED	# 22



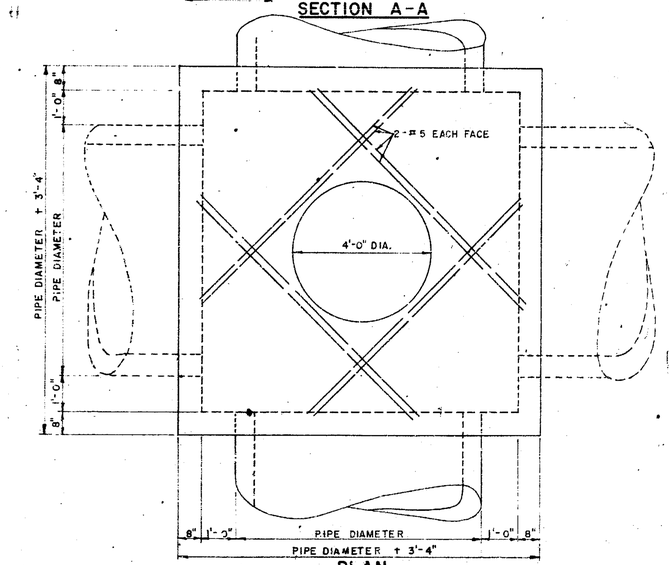
PLAN - CURB INLET [CASTING F-134]



SECTION - CURB INLET



SECTION A-A



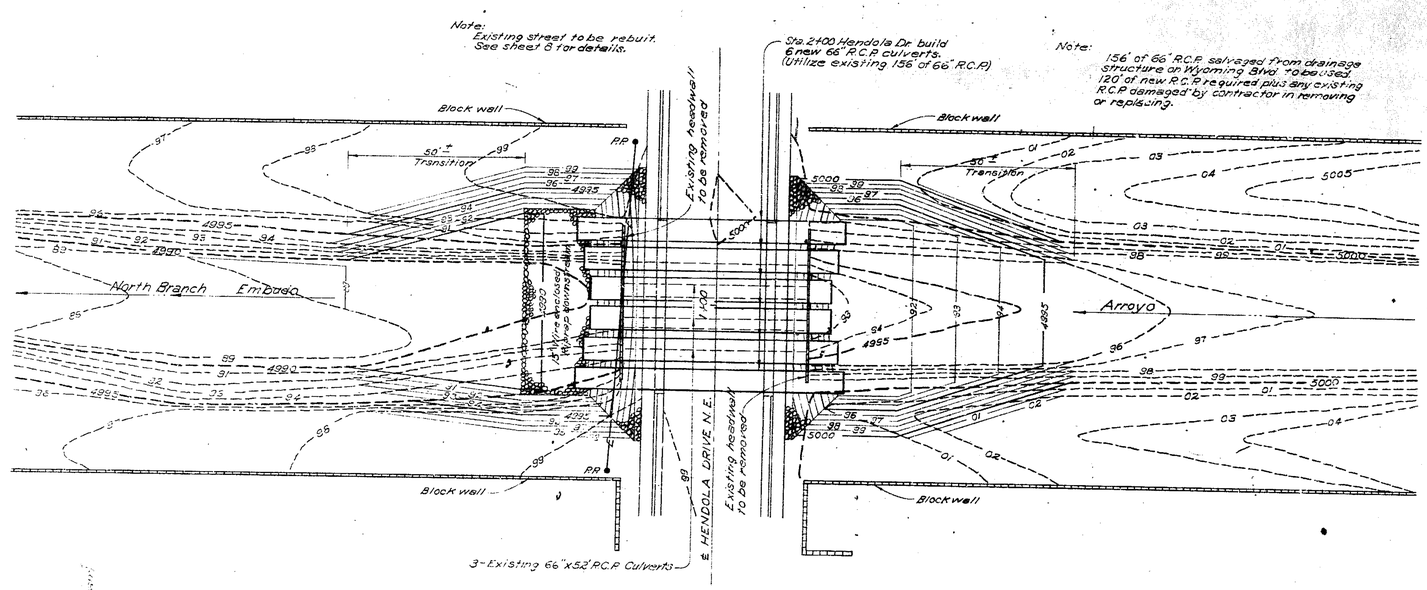
PLAN

JUNCTION BOX OR MANHOLE TYPE C

SCALE: 1/2" = 1'-0"

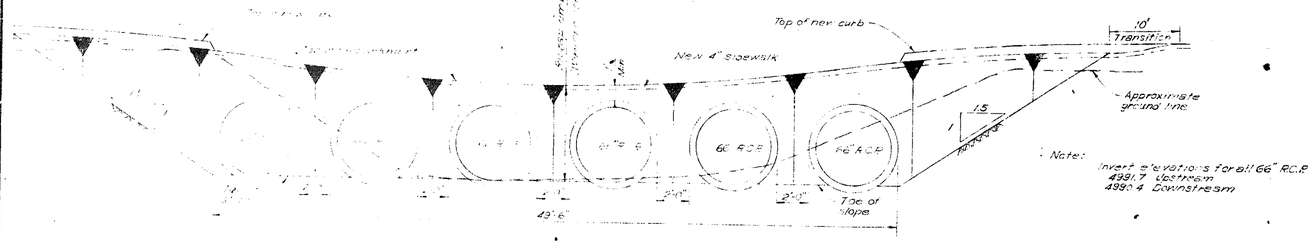
ALBUQUERQUE, NEW MEXICO	
STORM SEWER STANDARDS	
INLET TYPE F & JUNCTION BOX OR MANHOLE TYPE C	
HERKENHOFF & ASSOC. CONSULTING ENGINEERS SANTA FE ALBUQUERQUE	
SCALE AS SHOWN	DATE SEPT. 56
DRAWN	CHECKED
SHEET 6 OF 22	

08 574 0657 10



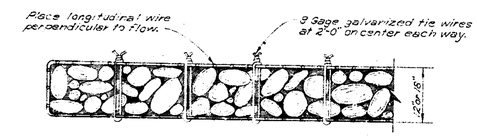
PLAN

Scale: 1" = 20'-0"



ELEVATION

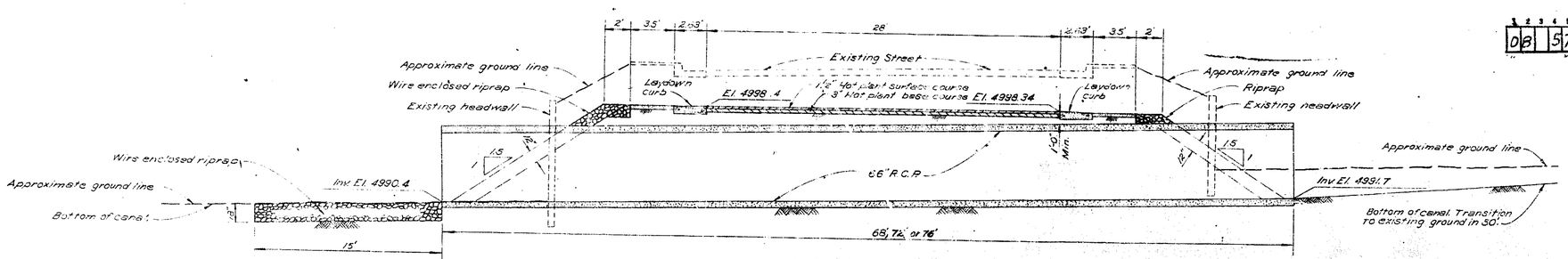
Scale: 1" = 5'-0"



Note:
Wire for wrapping rock to be specification U-3 Colorado V mesh as manufactured by "Colorado Fuel & Iron Co. or equal.

WIRE ENCLOSED RIPRAP

Not To Scale



LONGITUDINAL SECTION

Scale: 1" = 5'-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	B		5	7	4		0	7	5	7					1	1									5	8	1	9	1

ALBUQUERQUE NEW MEXICO

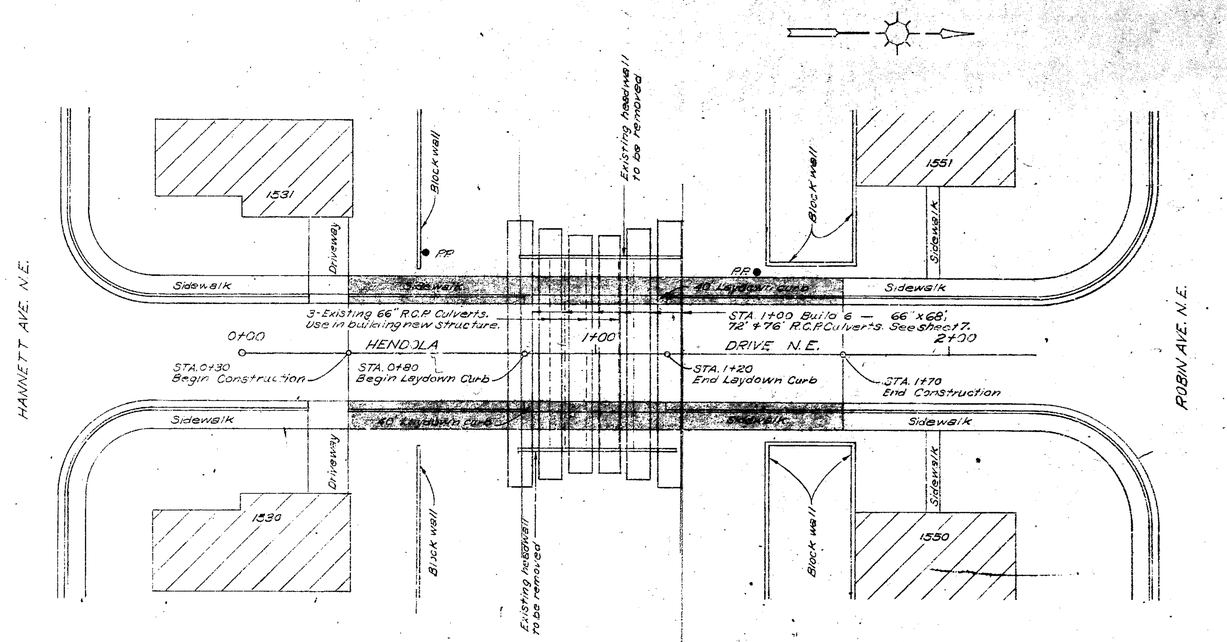
HENDOLA DRIVE N.E.

DRAINAGE STRUCTURE

STA. 1+00

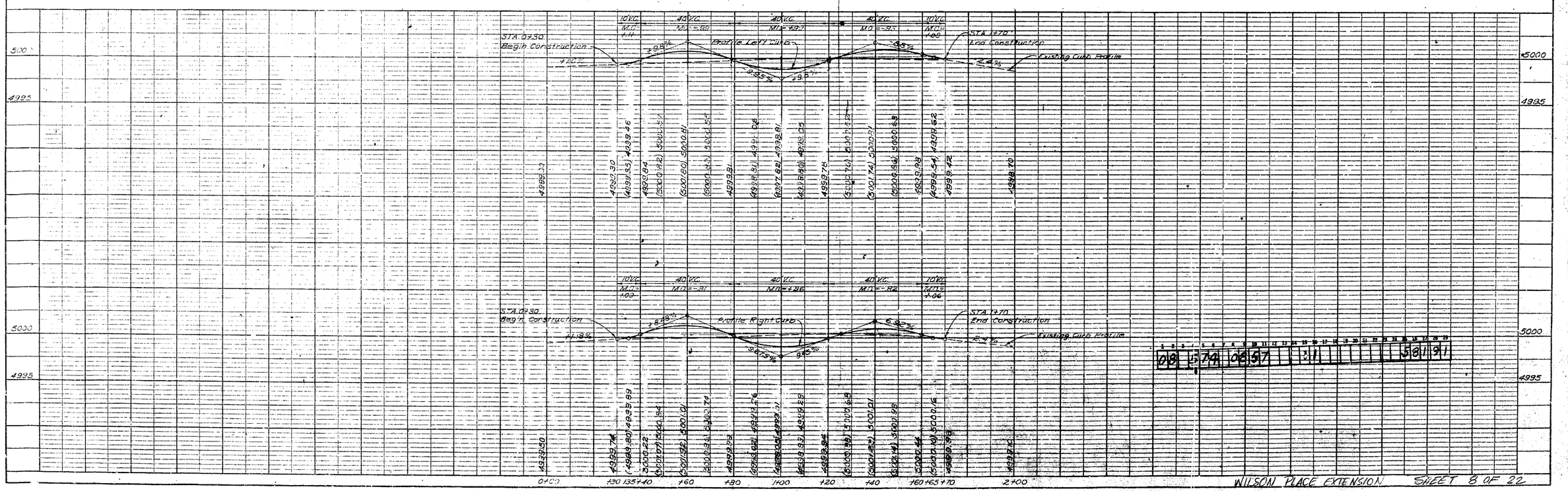
HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO

SCALE	DATE	DRAWN R.L.K.	SHEET 7
AS SHOWN	SEPT. 1956	CHECKED G.A.J.	OF 22



PLAN

Scale: 1" = 20'-0"



WILSON PLACE EXTENSION SHEET 8 OF 22

PLATE I.—PLAN—PROFILE O.P. II. & R. E.
100% RAG PAPER—MADE AND PRINTED IN U.S.A.

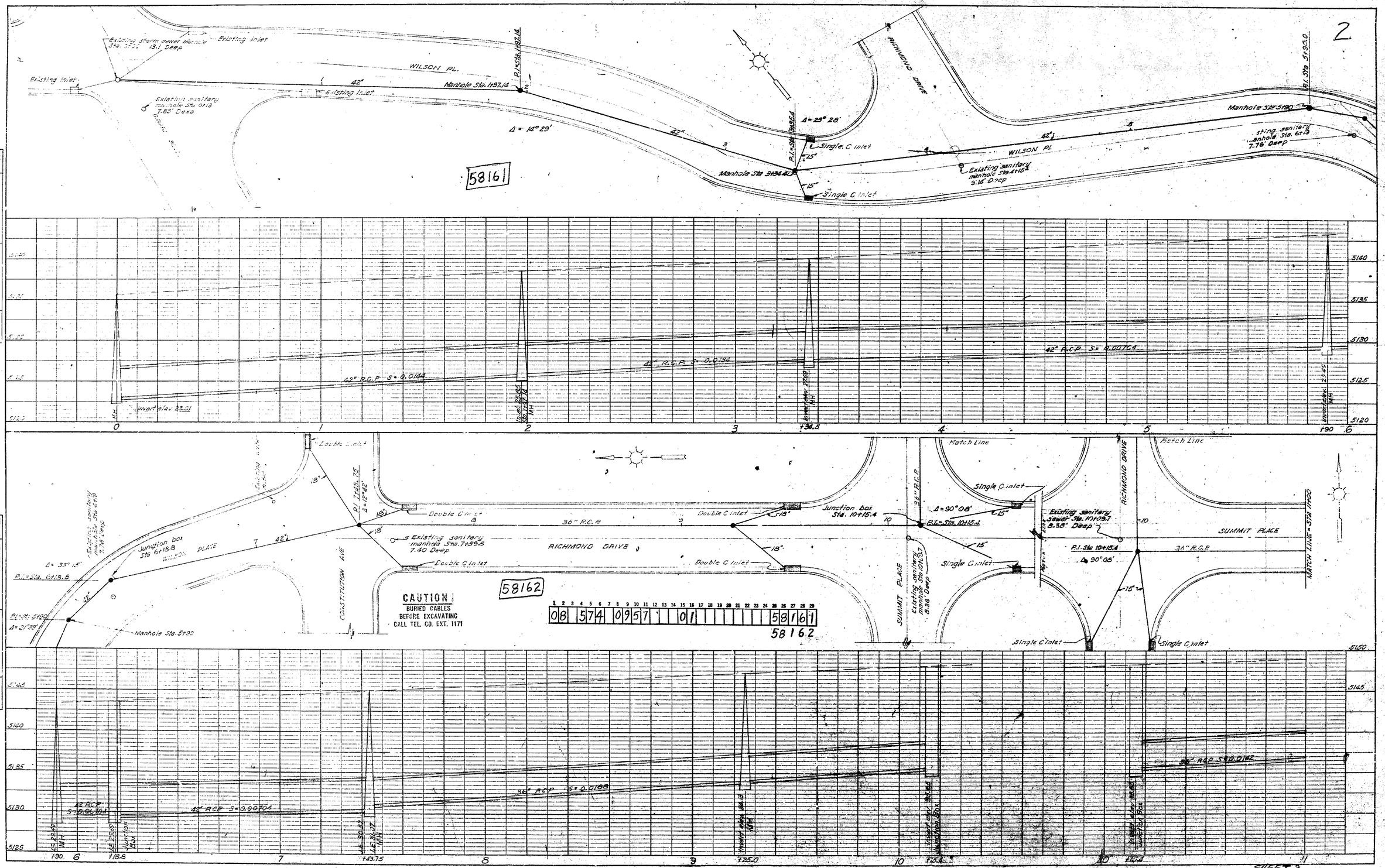


PLATE 2—PLAN-PROFILE O.P.R.R.R.E.

WILSON PLACE EXTENSION

SHEET 2 OF 22

2

58161

Existing storm sewer manhole Sta. 5+00 13.1' Deep

Existing inlet

Existing inlet

WILSON PL.

42"

Existing inlet

Existing sanitary manhole Sta. 6+13 7.83' Deep

Manhole Sta. 1+97.14

P.I. Sta. 1+97.14

Δ = 14° 29'

22"

Δ = 29° 28'

P.I. Sta. 3+54.42

Single C inlet

15"

Manhole Sta. 3+54.42

15"

Single C inlet

RICHMOND DRIVE

WILSON PL

Existing sanitary manhole Sta. 4+15 9.14' Deep

42"

Existing sanitary manhole Sta. 6+13 7.76' Deep

Manhole Sta. 5+90

P.I. Sta. 5+90.0

PLAN

SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED

NOTE BOOK NO.

DATE

42" R.C.P. S= 0.0144

Invert elev 23.01

MH

42" R.C.P. S= 0.0134

Invert elev 25.68

MH

42" R.C.P. S= 0.0076.4

Invert elev 25.25

MH

5140
5135
5130
5125
5120

0 1 2 3 +34.5 4 5 +90 6

Double C inlet

18"

P.I. 1+45.75
Δ = 12° 42'

Double C inlet

18"

Double C inlet

18"

36" R.C.P.

Junction box Sta. 10+15.4

Existing sanitary manhole Sta. 7+59.8 7.40 Deep

RICHMOND DRIVE

Double C inlet

Double C inlet

18"

Junction box Sta. 6+18.8

WILSON PLACE

42"

Δ = 33° 15'

P.I. Sta. 6+18.8

42"

P.I. Sta. 5+90
Δ = 21° 50'

Manhole Sta. 5+90

CONSTITUTION AVE

CAUTION!
BURIED CABLES
BEFORE EXCAVATING
CALL TEL. CO. EXT. 1171

58162

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 7 4 0 9 5 7 0 1 5 8 1 6 1

58162

Match Line

Match Line

Single C inlet

36" R.C.P.

Δ = 90° 08'

15"

P.I. Sta. 10+15.4

Existing sanitary sewer Sta. 10+09.7 8.38' Deep

RICHMOND DRIVE

10

SUMMIT PLACE

P.I. Sta. 10+15.4

Δ = 90° 08'

36" R.C.P.

Single C inlet

15"

Existing sanitary manhole Sta. 10+53.7 8.58' Deep

SUMMIT PLACE

15"

Single C inlet

Single C inlet

MATCH LINE - SEE PHOTO

PROFILE

SURVEYED
PLOTTED
GRADES CHECKED
STRUCTURE
STRUCTURE NOTATIONS CHECK

NOTE BOOK NO.

BY

DATE

5150
5145
5140
5135
5130
5125

42" RCP S= 0.0064

42" RCP S= 0.0070.4

36" RCP S= 0.0108

42" RCP S= 0.0142

Junction box

Junction box

+90 6 +18.8 7 +49.75 8 9 +75.0 10 +115.4 10 +154 11

PLATE 2—PLAN—PROFILE O.P.R.&R.E.

WILSON PLACE EXTENSION

SHEET 2 OF 22

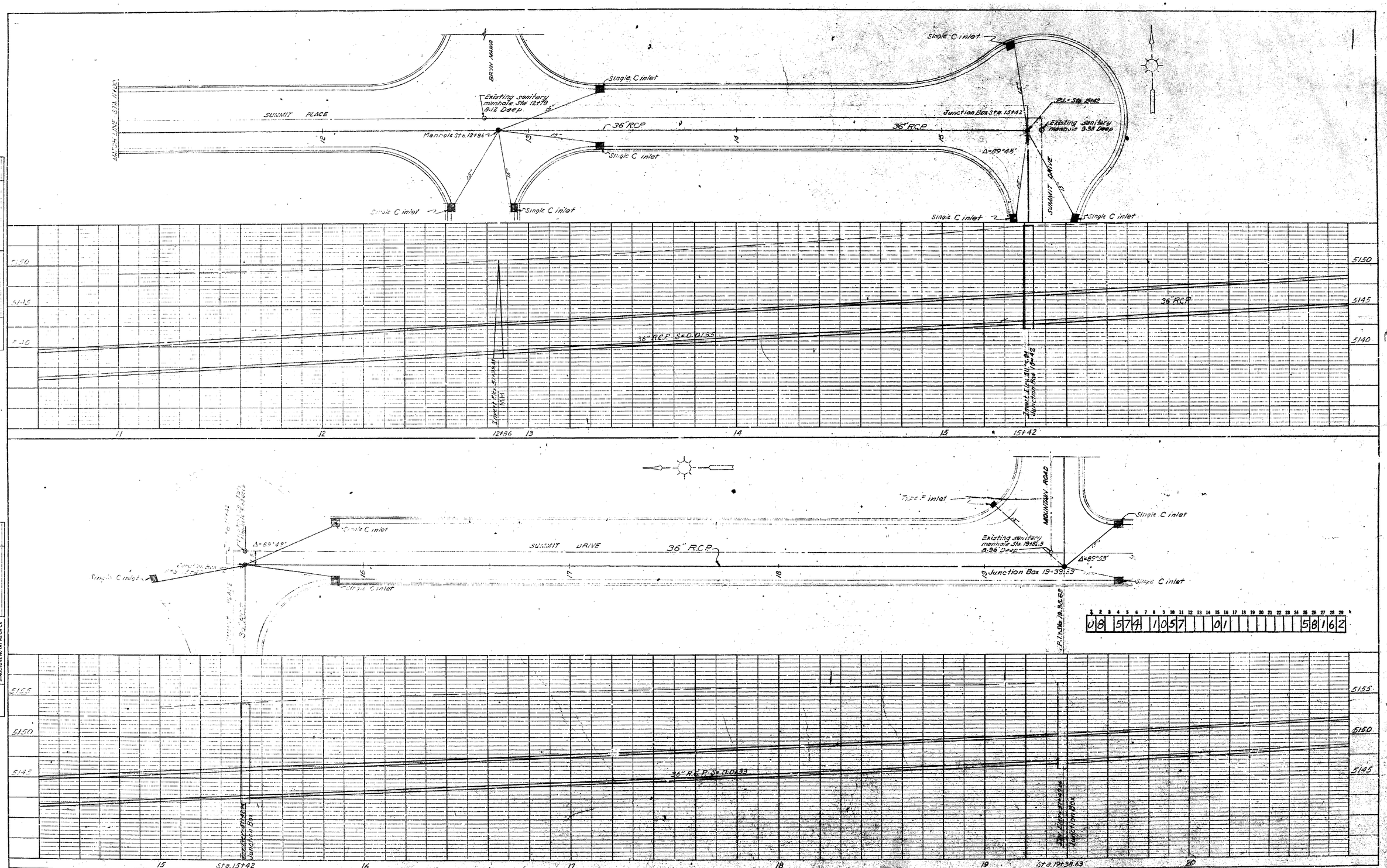


PLATE 2-PLAN-PROFILE, O.P.R.&P.E.
CHARLES BRUNING COMPANY, INC.

08 574 1057 01 58162

WILSON PLACE EXTENSION SHEET 10 OF 22

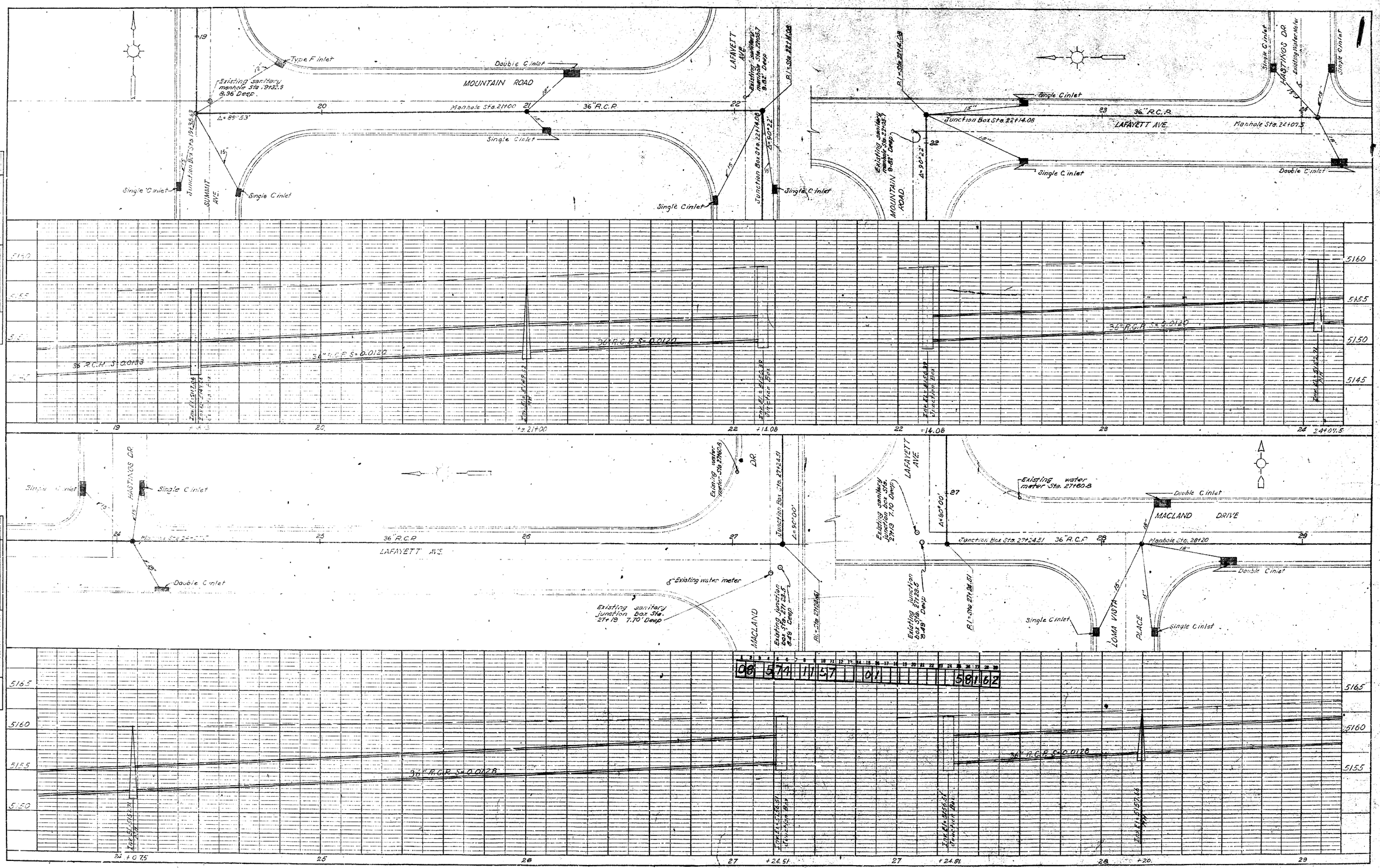


PLATE 2-PLAN-PROFILE D.P.R. & R.E.

CHARLES BRUNING COMPANY, INC.

WILSON PLACE EXTENSION SHEET 11 OF 22

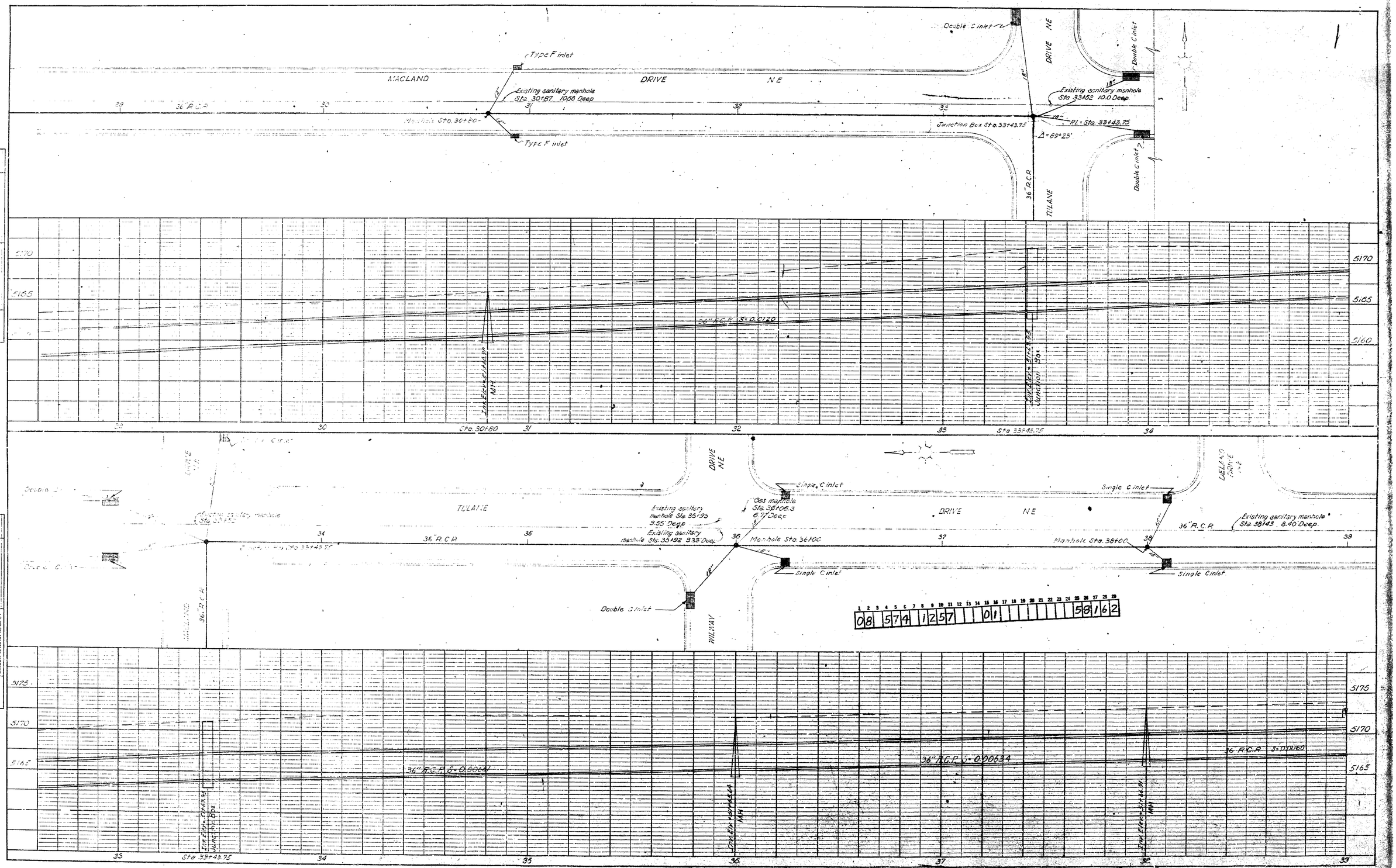
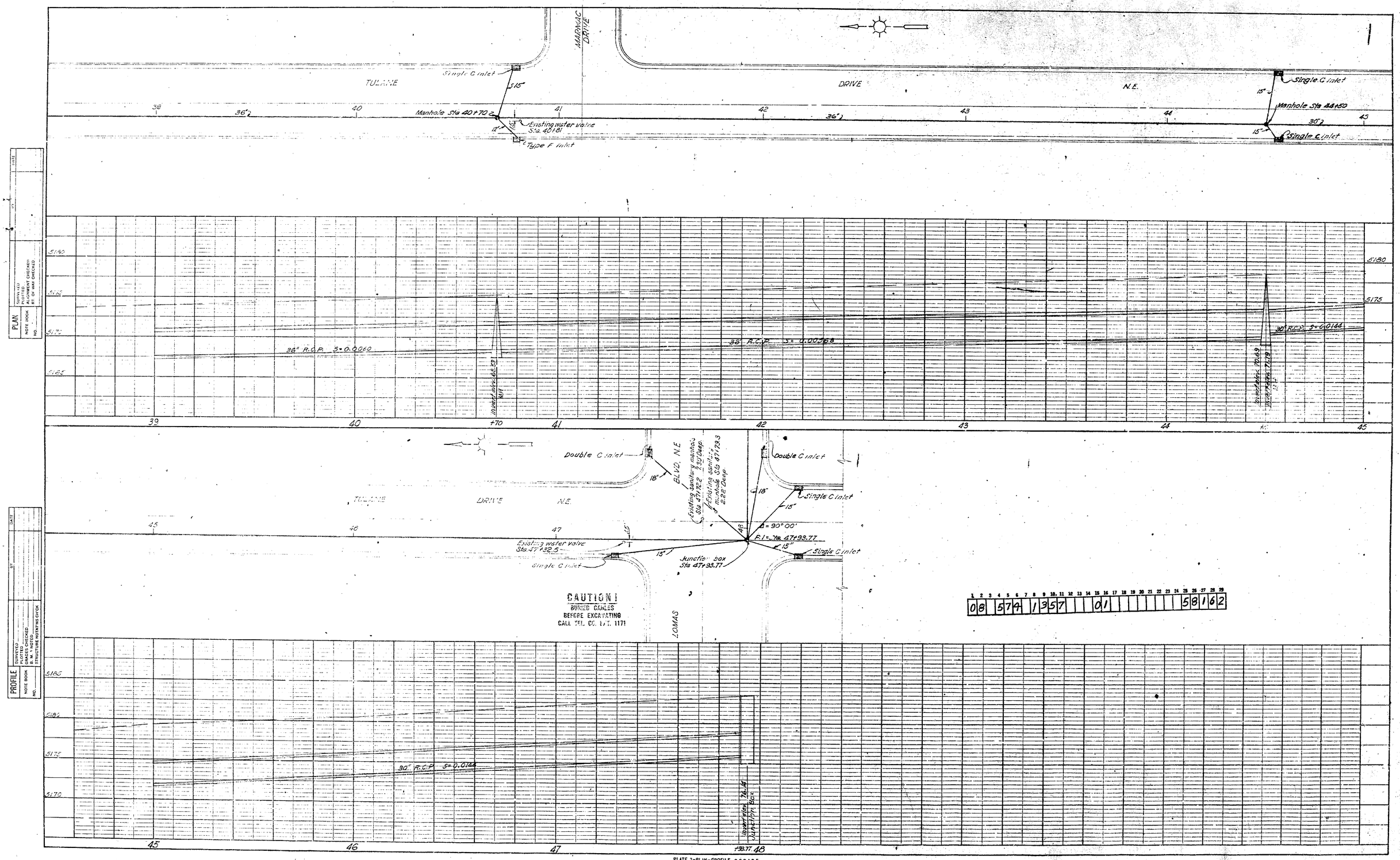


PLATE 2—PLAN-PROFILE O.P.R.B.R.E.
CHARLES BRUNING COMPANY, INC.

WILSON PLACE EXTENSION SHEET 12 OF 22



0 8 5 7 4 1 3 5 7 0 1 5 8 1 6 2

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

WILSON PLACE EXTENSION SHEET 13 OF 22

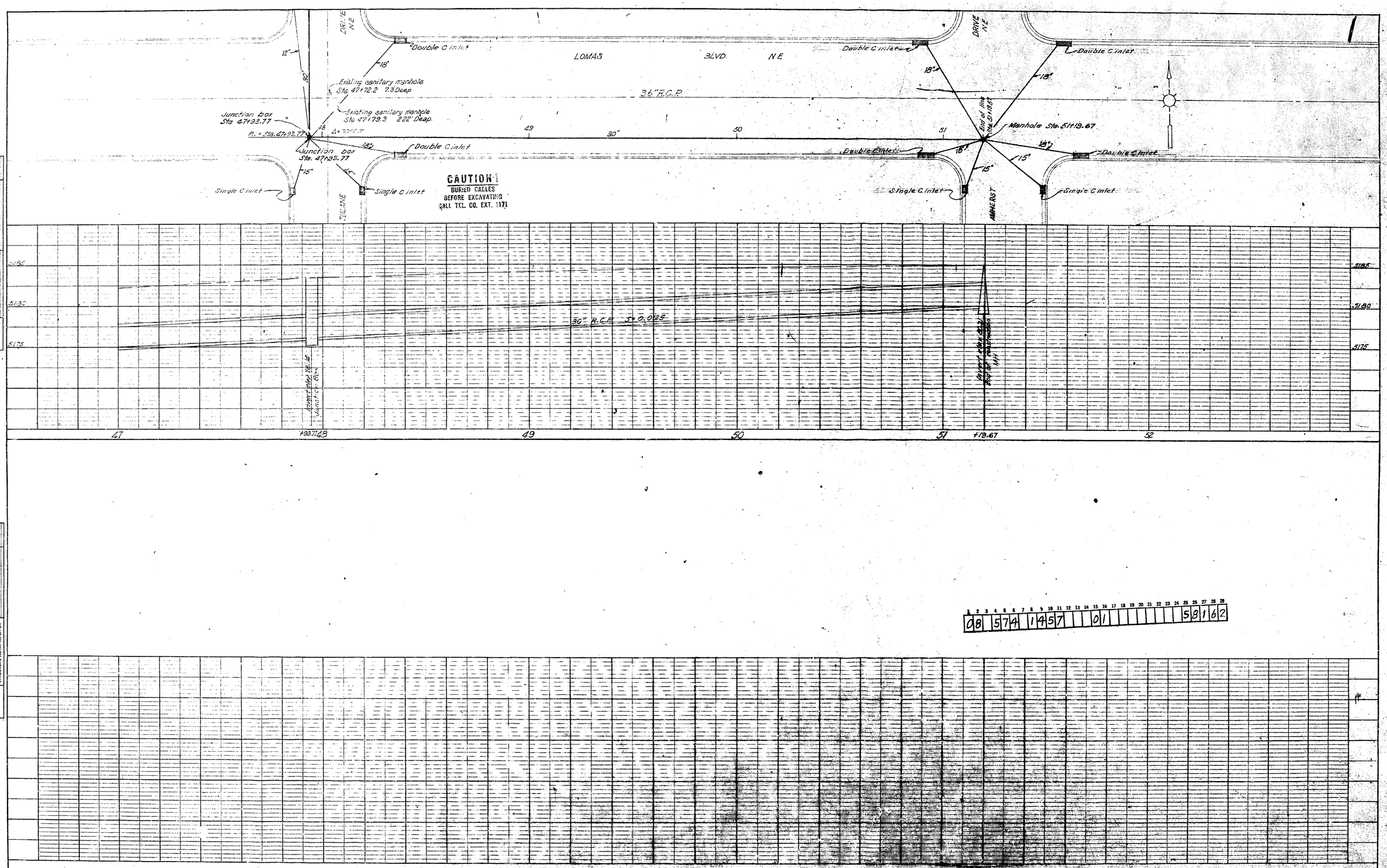


PLATE 2-PLAN-PROFILE G.P.E.D.R.E.
CHARLES BRUNNING COMPANY, INC.

WILSON PLACE EXTENSION SHEET 14 OF 22

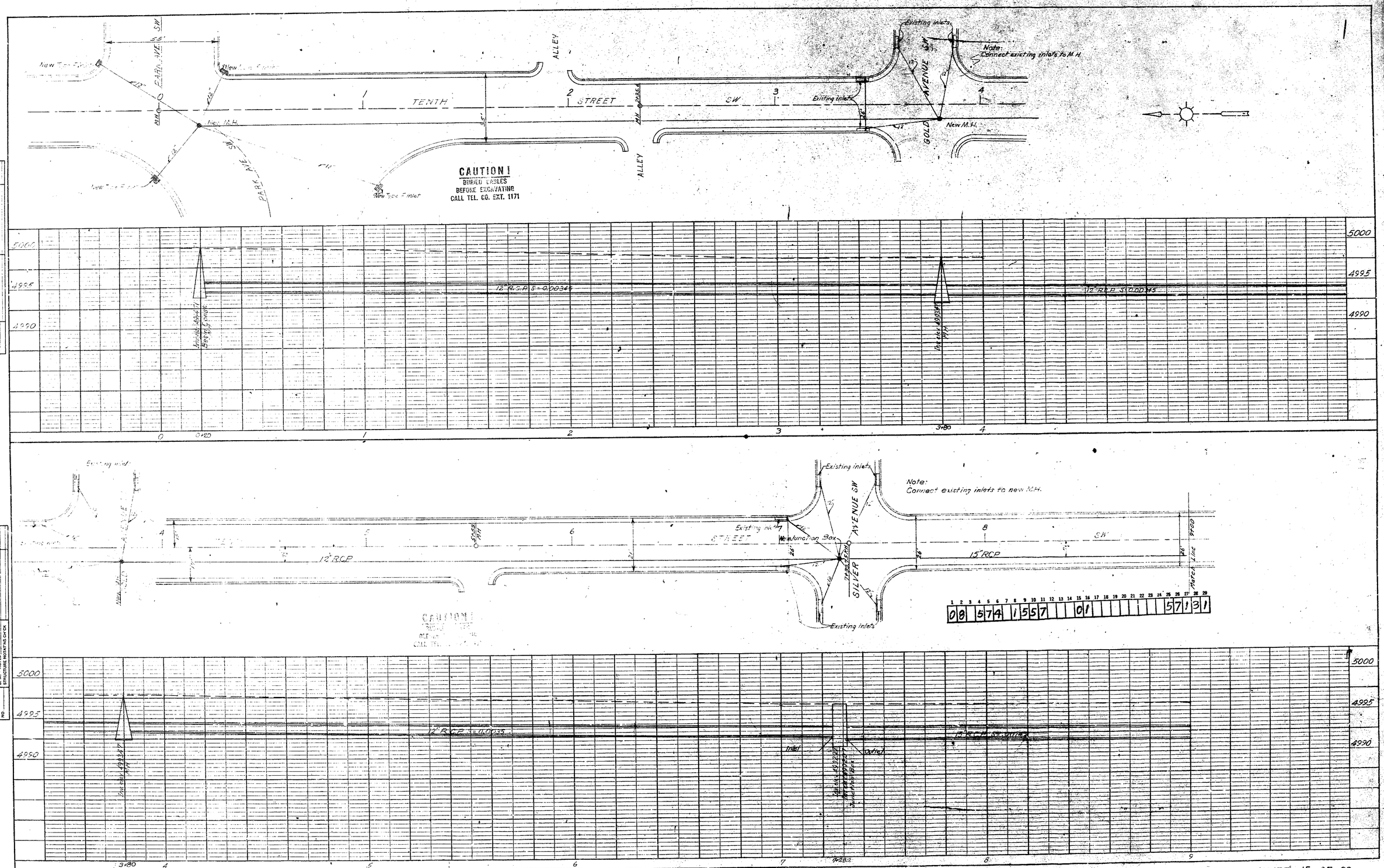
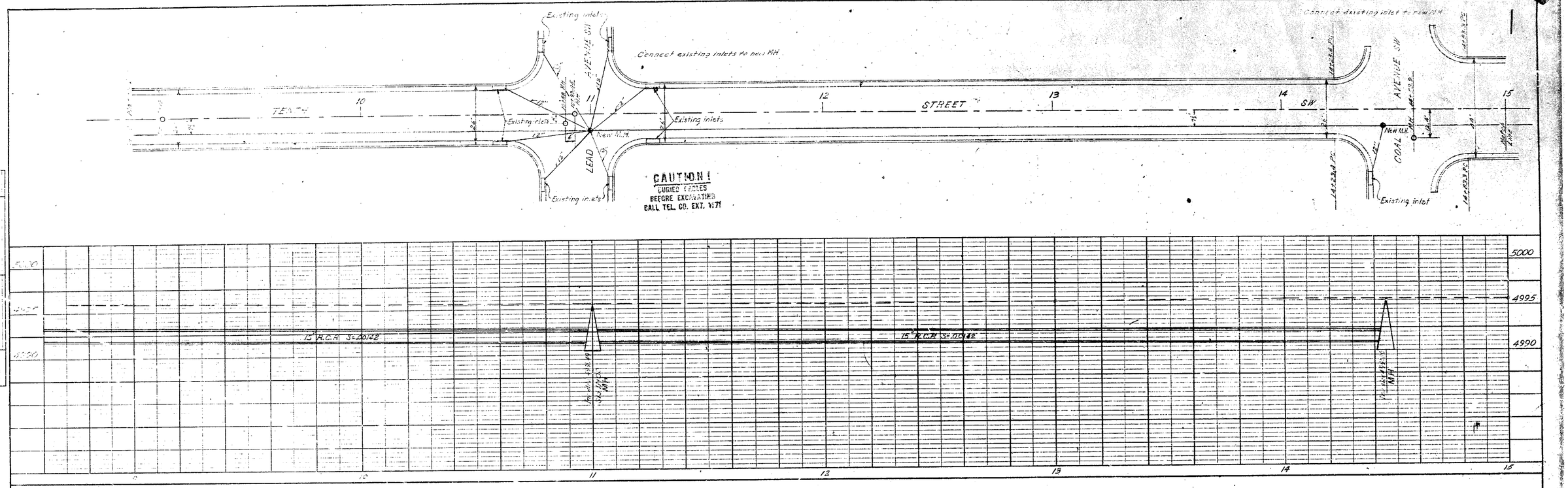
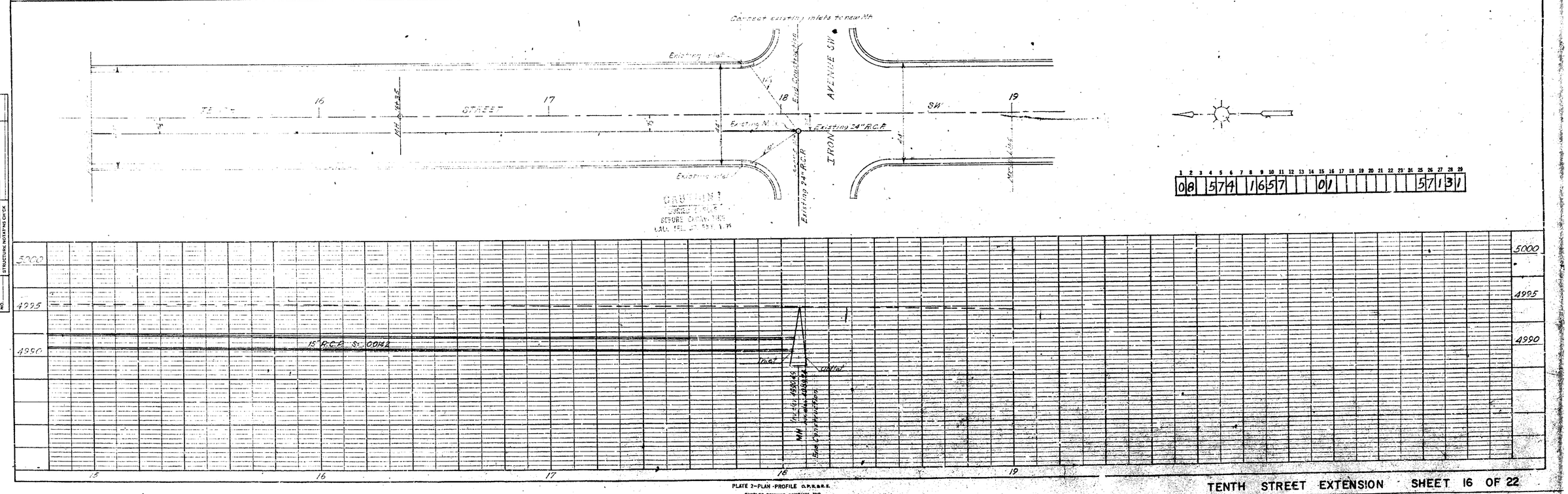


PLATE 2—PLAN—PROFILE O.S.R.&R.E.

CHARLES BRUNNER COMPANY, INC.

TENTH STREET EXTENSION SHEET 15 OF 22





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

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
GRADES CHECKED
R.R. CROSSING
NO.
STRUCTURE NOTATNS CH'CK
DATE

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

TENTH STREET EXTENSION SHEET 16 OF 22

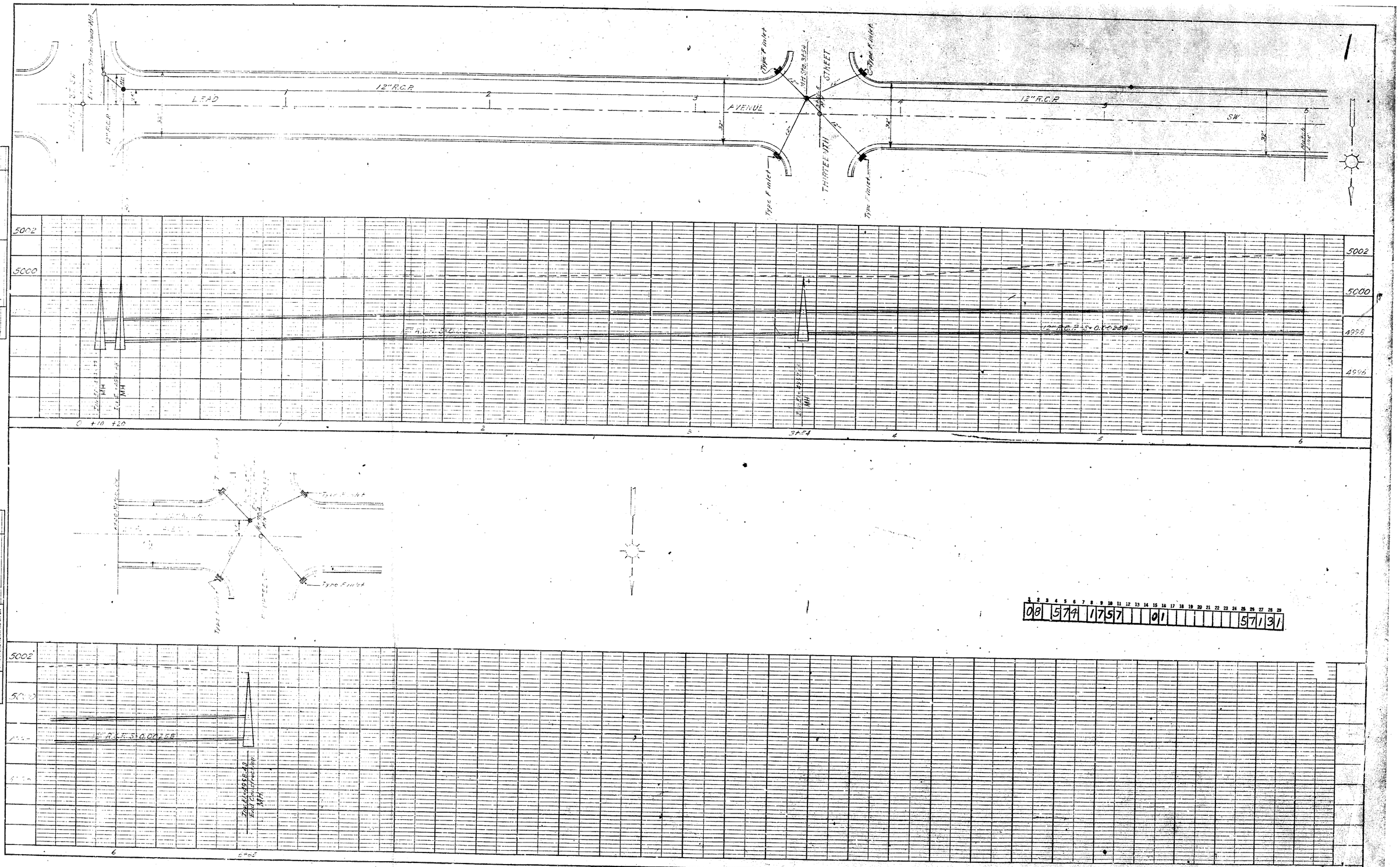
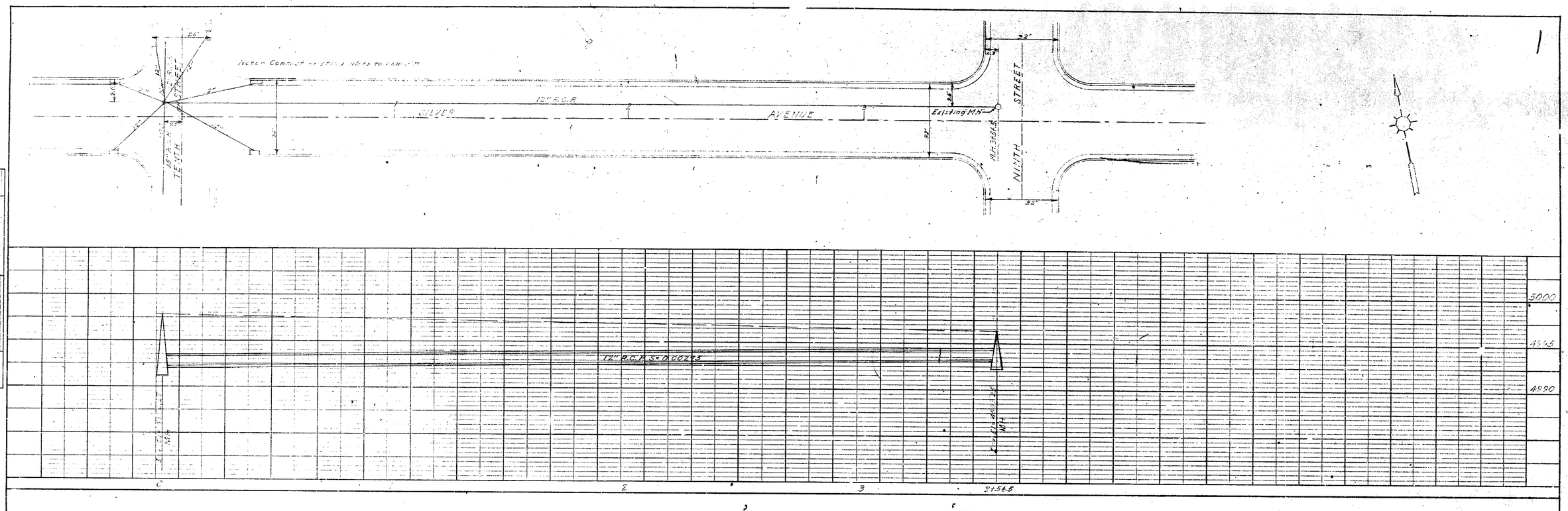


PLATE 2—PLAN—PROFILE O.P.R.&R.E.
CHARLES BRUNING COMPANY, INC.

LEAD AVE. EXTENSION SHEET 17 OF 22



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

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

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
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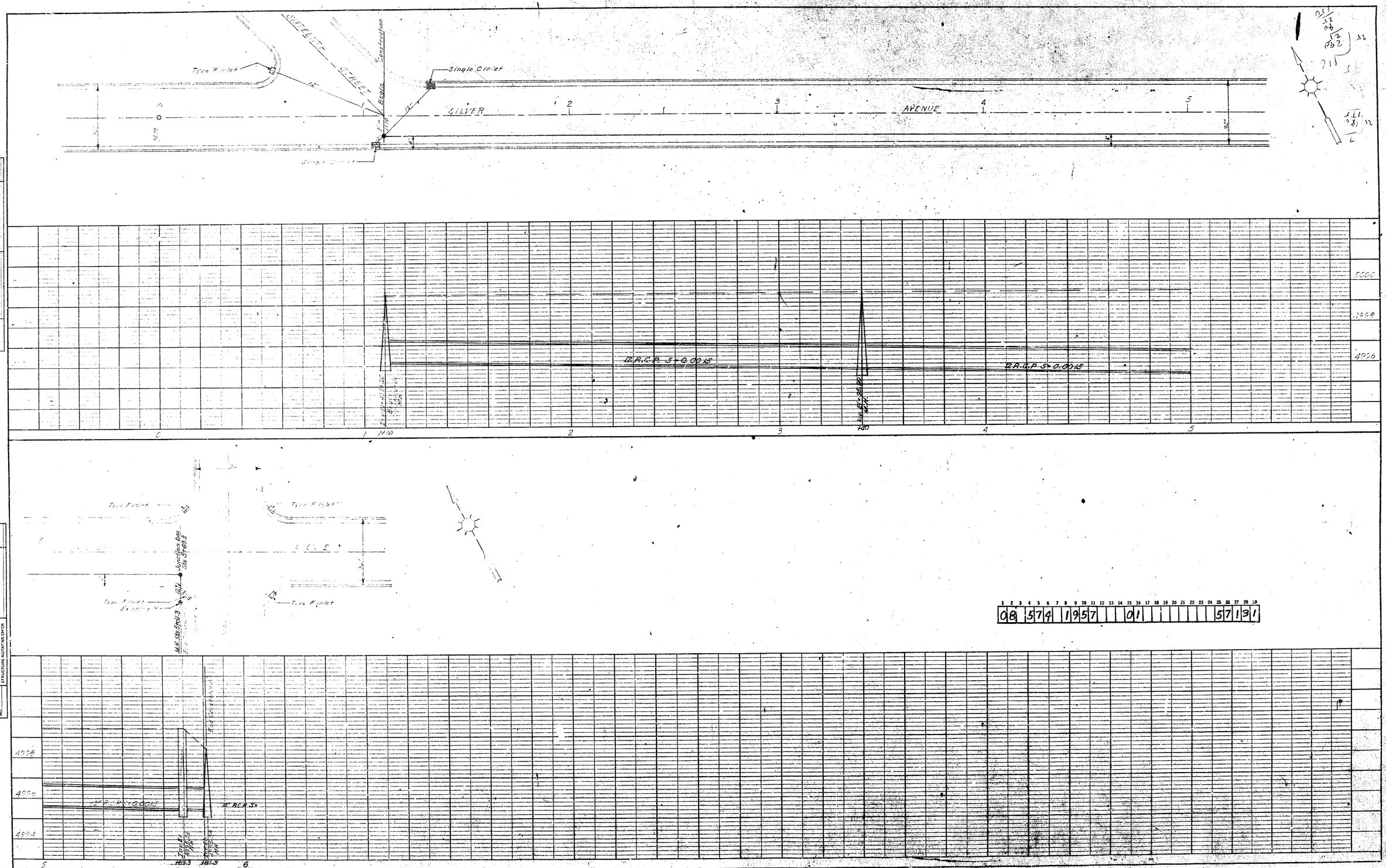
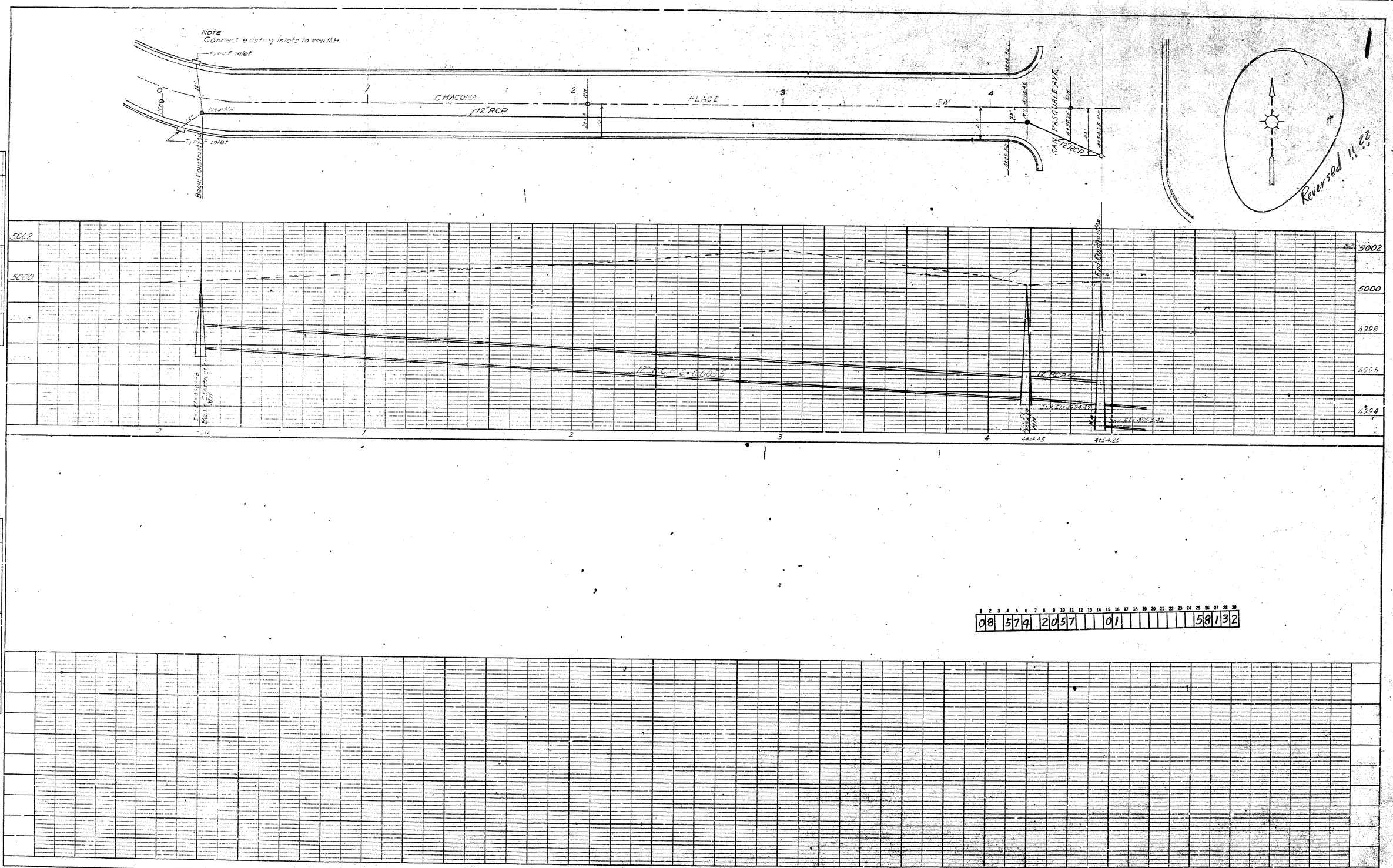


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

08 574 1957 01 57131

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

PARK AVE EXTENSION SHEET 19 OF 22



PLAN

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

PROFILE

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

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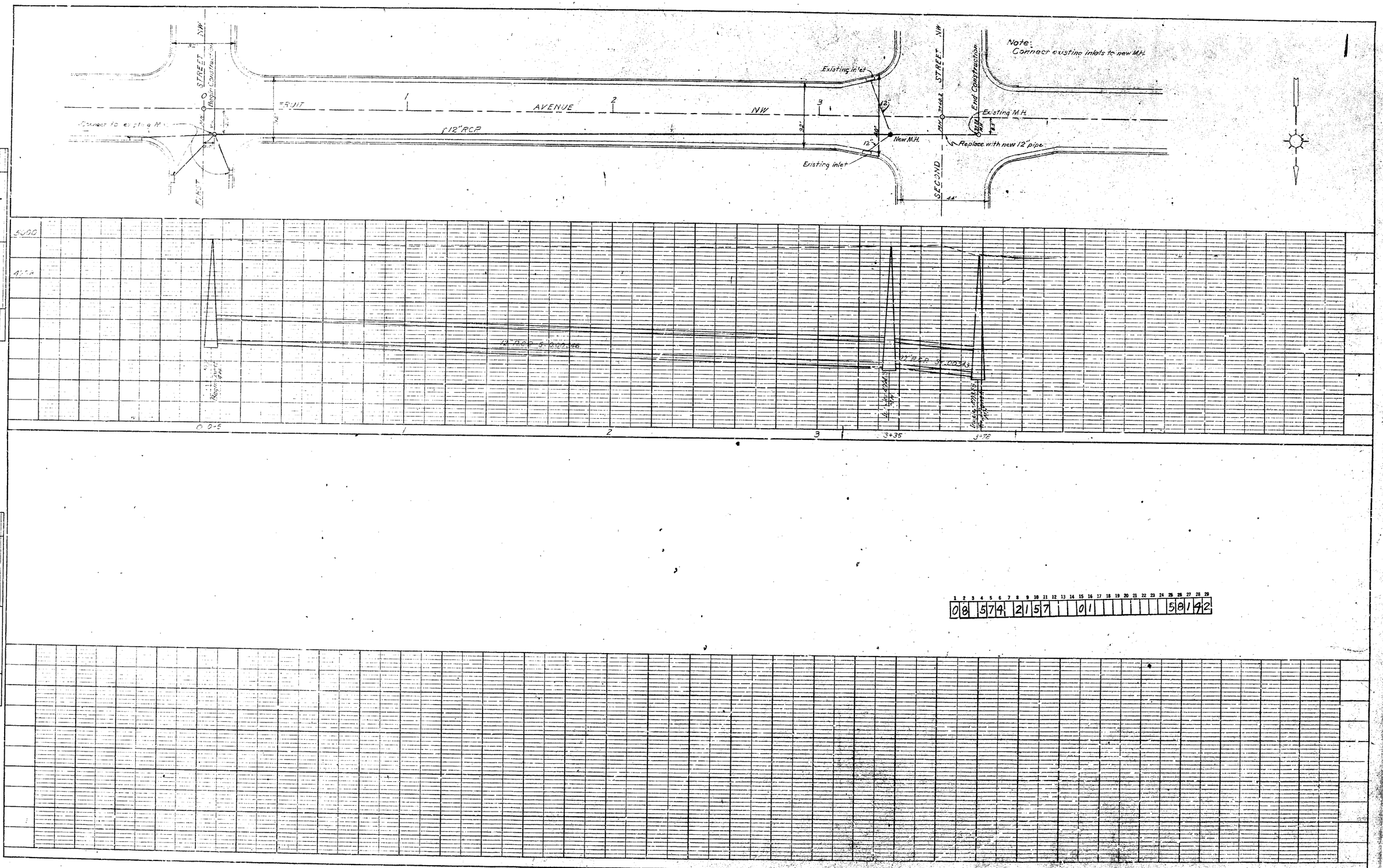
PLATE 2—PLAN-PROFILE O.P.R.&R.E.
CHARLES BRUNING COMPANY, INC.

CHACOMA PLACE EXTENSION SHEET 20 OF 22



PLAN

SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
RT OF WAY CHECKED	
NOTE BOOK	
NO.	

BY	DATE

PROFILE

SURVEYED	
PLOTTED	
GRADES CHECKED	
A.C.I. 318-63	
STRUCTURE NOTATIONS CHK'D	
NOTE BOOK	
NO.	

BY	DATE

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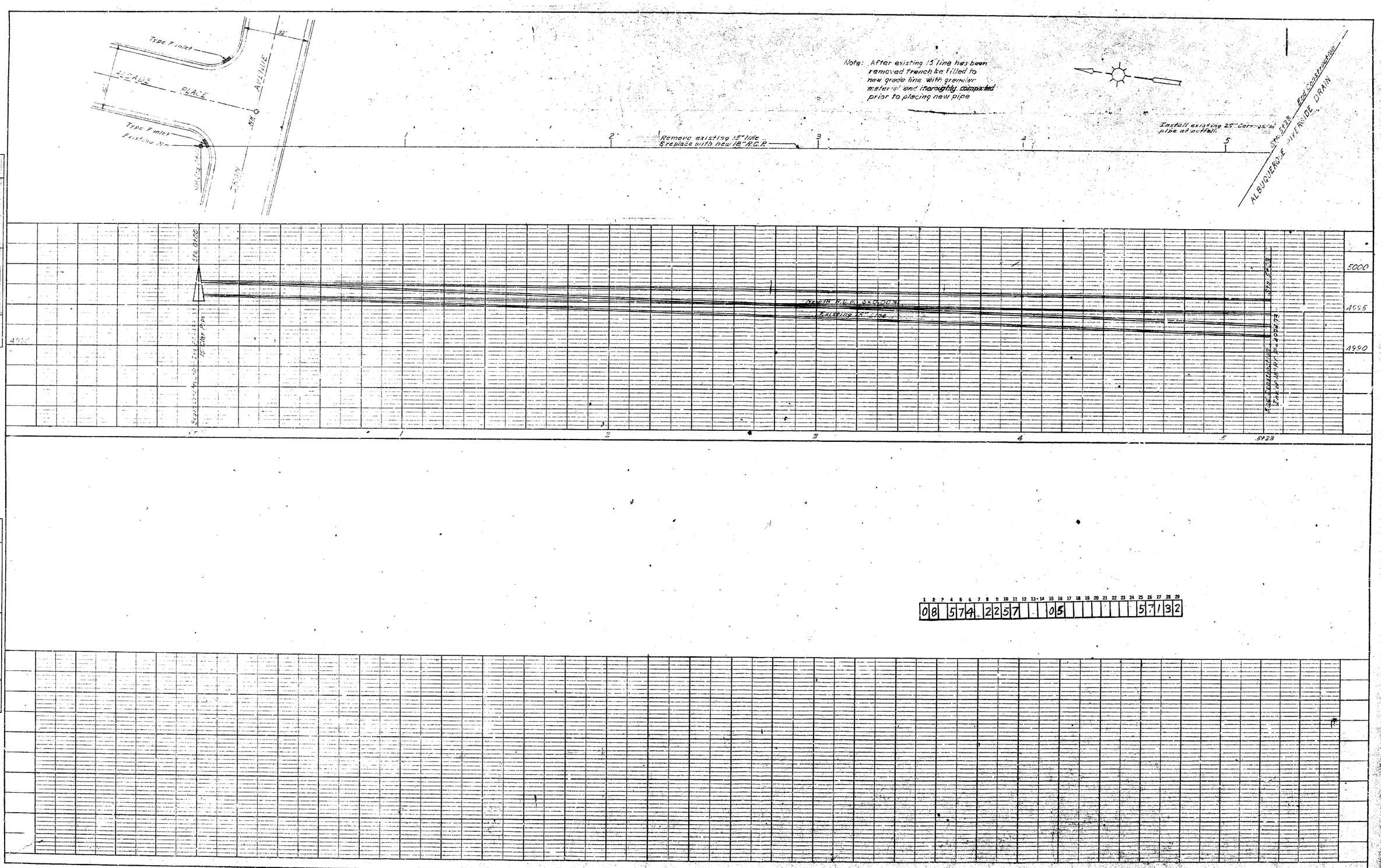
PLATE 2—PLAN—PROFILE O.P.R.&R.E.
CHARLES BRUNING COMPANY, INC.

FRUIT AVE EXTENSION SHEET 21 OF 22



08 574 2257 05 5713 2

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

ALCADE PLACE EXTENSION SHEET 22 OF 22