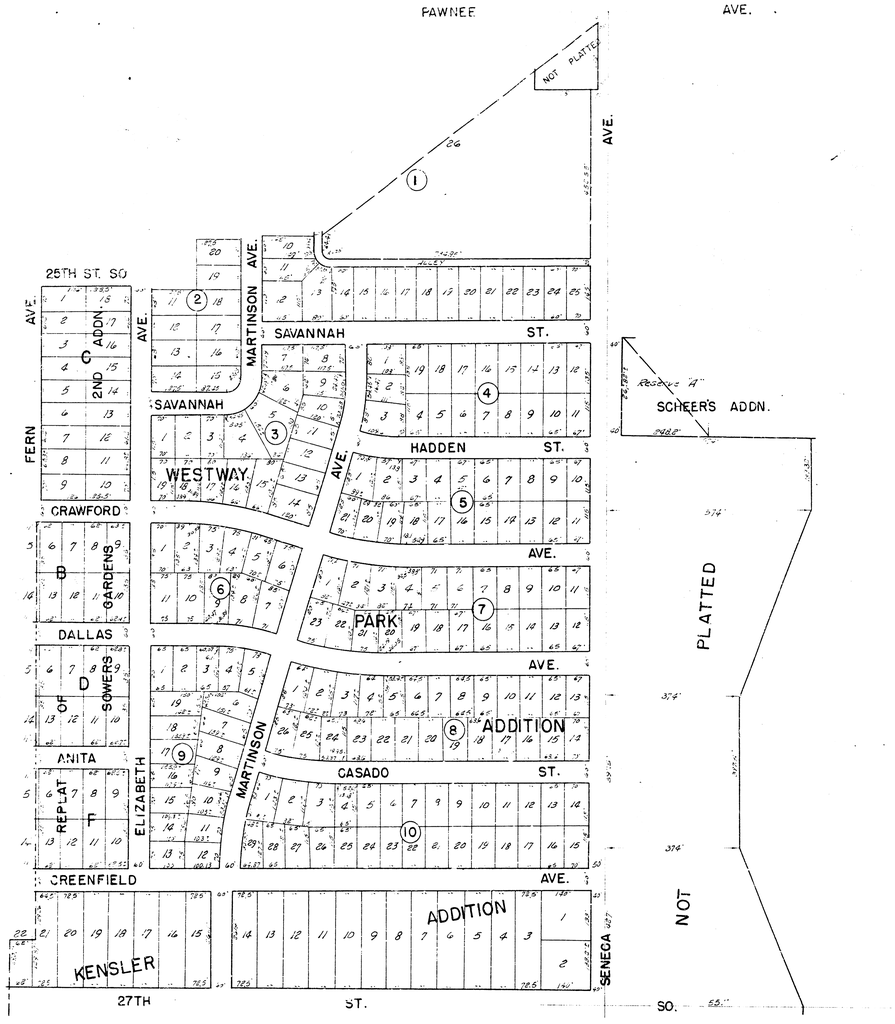


N

1" = 150'

BENEFIT DISTRICT MAP

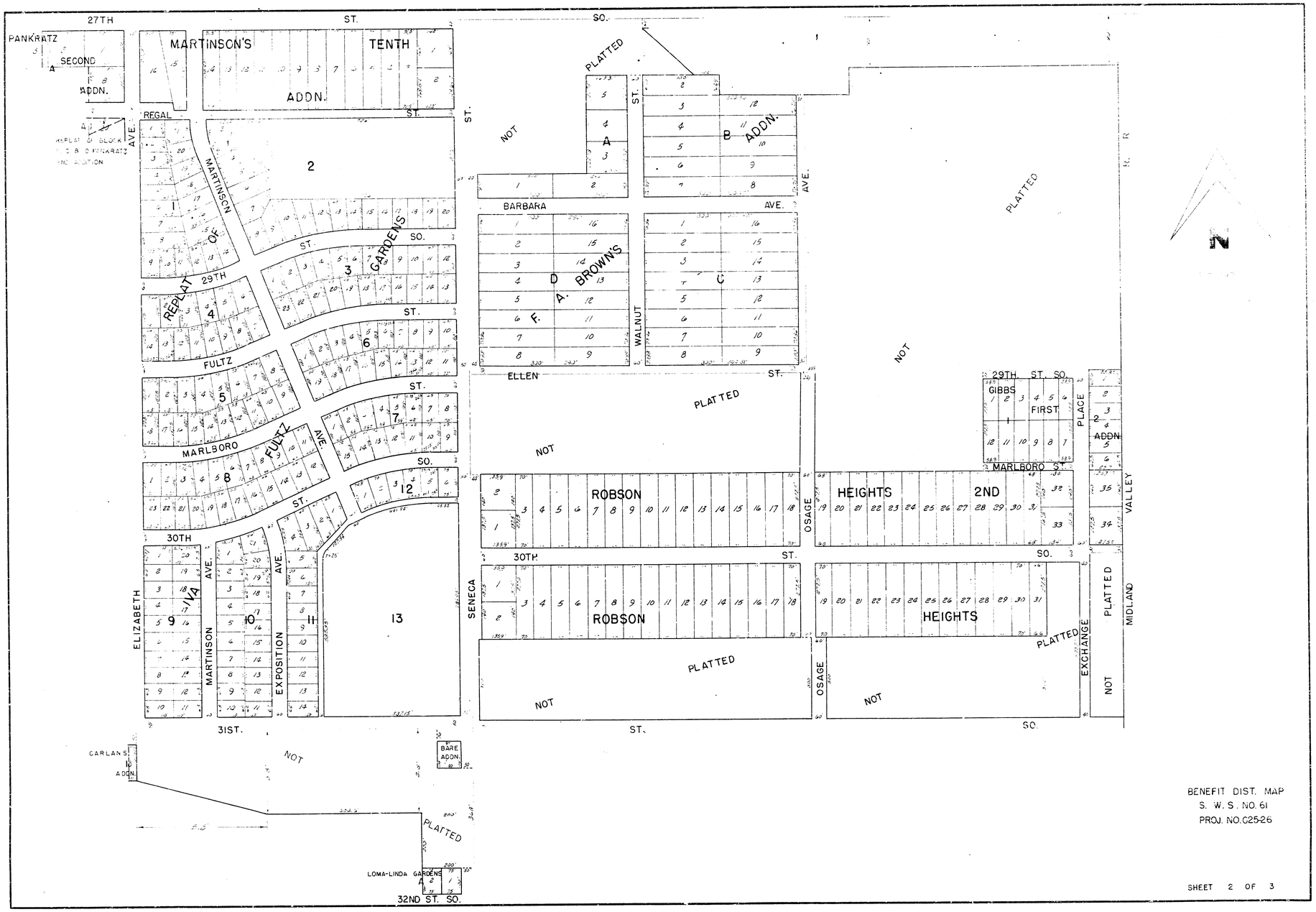
STORM WATER SEWER NO. 61

CITY OF WICHITA, KANS.

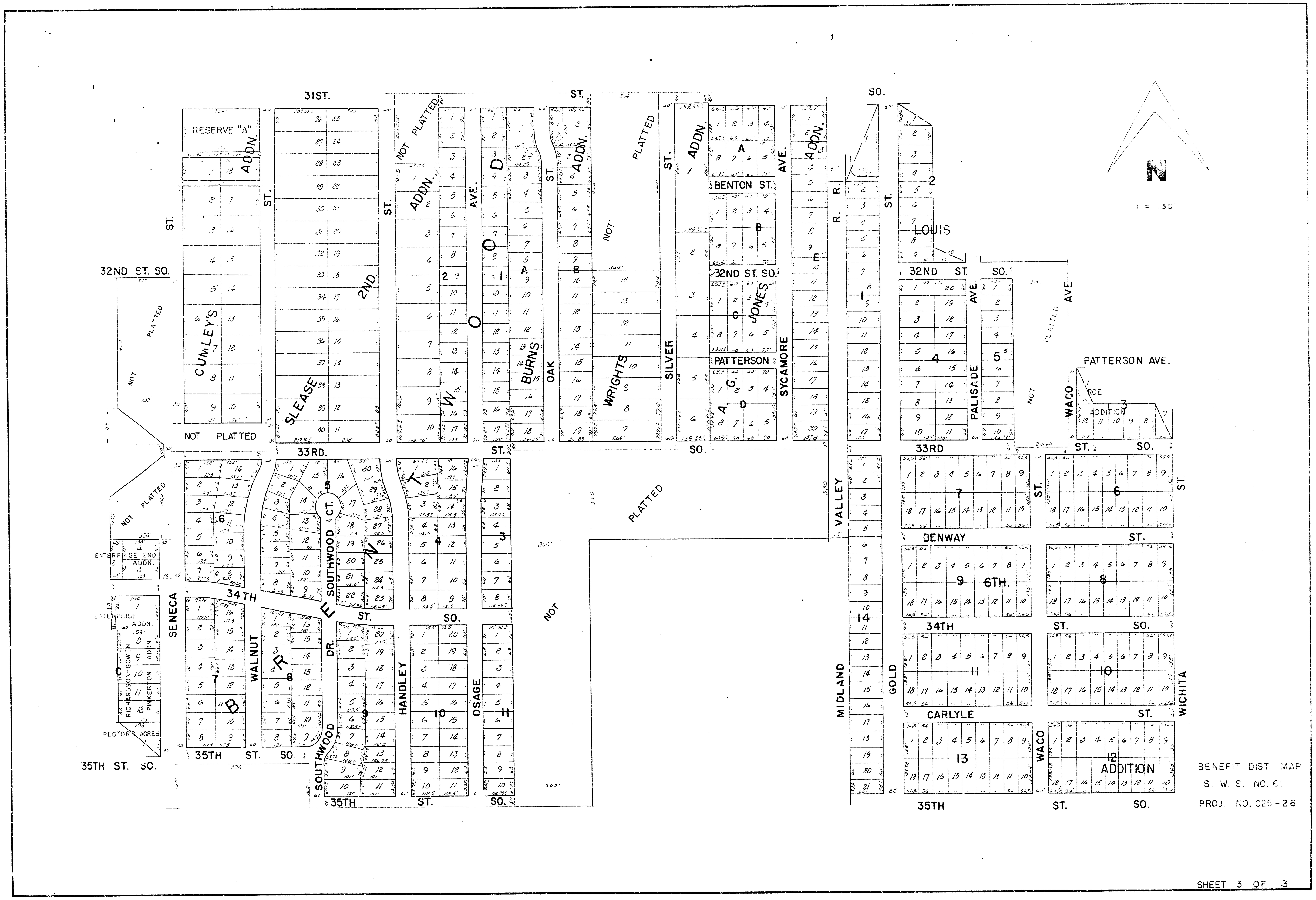
B. E. SMITH — CITY ENGINEER

PROJECT NO. C 25-26

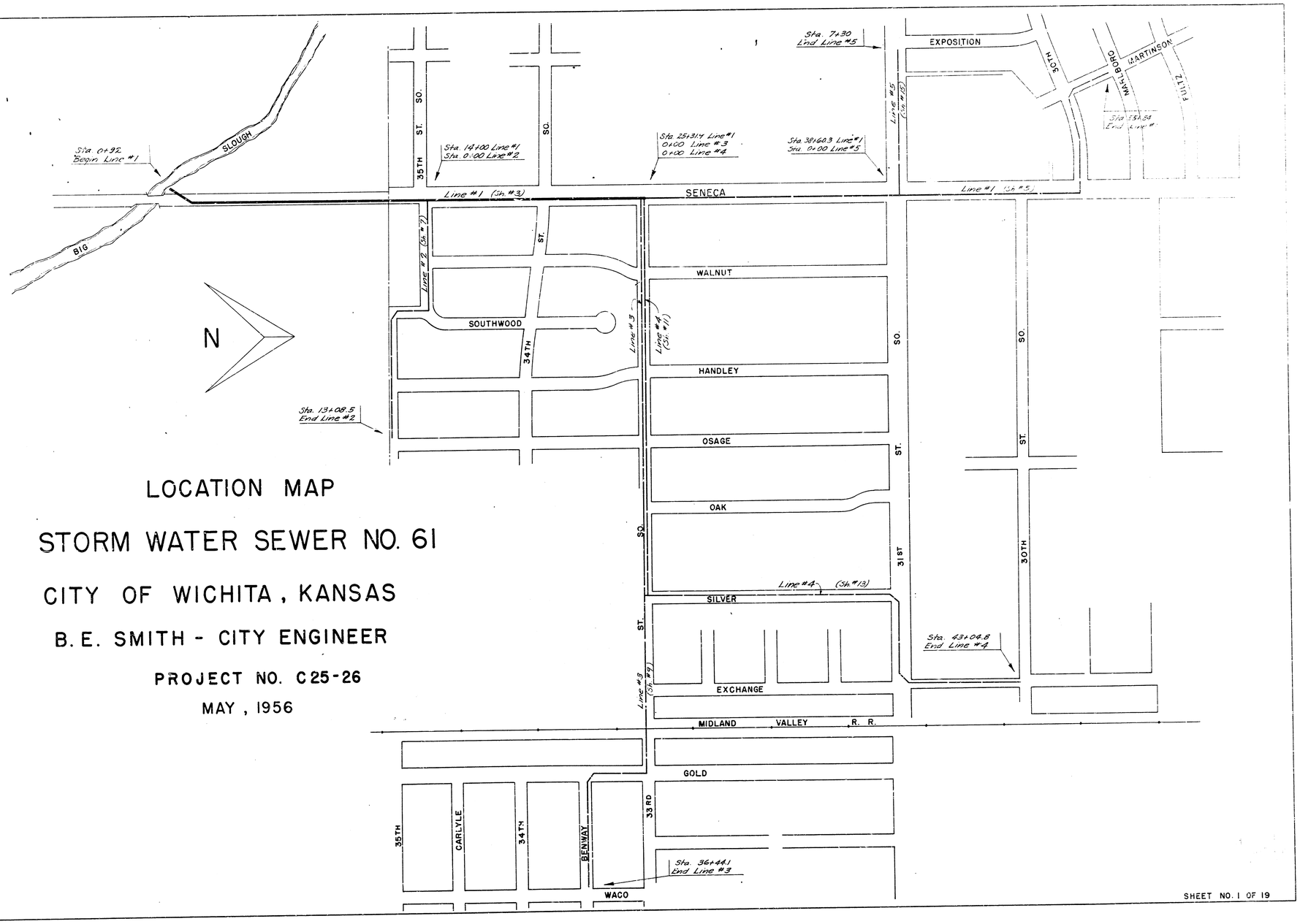
MARCH 1956



BENEFIT DIST. MAP
S. W. S. NO. 61
PROJ. NO. C25-26



31ST.
ST.
SO.
RESERVE "A"
CUMLEY'S ADDN.
SLEASE 2ND ADDN.
NOT PLATTED
BRENTWOOD
BURNS
OAK
AVE.
WRIGHTS ADDN.
SILVER
A. G. JONES ADDN.
BENTON ST.
32ND ST. SO.
PATTERSON
SYCAMORE
R. R.
LOUIS
32ND ST. SO.
PALISADE AVE.
PLATTED AVE.
PATTERSON AVE.
WACO
ROE ADDITION
33RD ST. SO.
33RD ST. SO.
NOT PLATTED
SOUTHWOOD CT.
ENTERPRISE 2ND ADDN.
ENTERPRISE ADDN.
RICHARDSON-GOWEN ADDN.
PINKERTON
RECTOR'S ACRES
SENECA
34TH ST. SO.
WALNUT
SOUTHWOOD DR.
HANDLEY
OSAGE
35TH ST. SO.
MIDLAND VALLEY
GOLD
DENWAY ST.
6TH.
34TH ST. SO.
CARLYLE ST.
WICHITA
WACO ADDITION
35TH ST. SO.
N
BENEFIT DIST. MAP
S. W. S. NO. 61
PROJ. NO. 025-26
SHEET 3 OF 3



LOCATION MAP

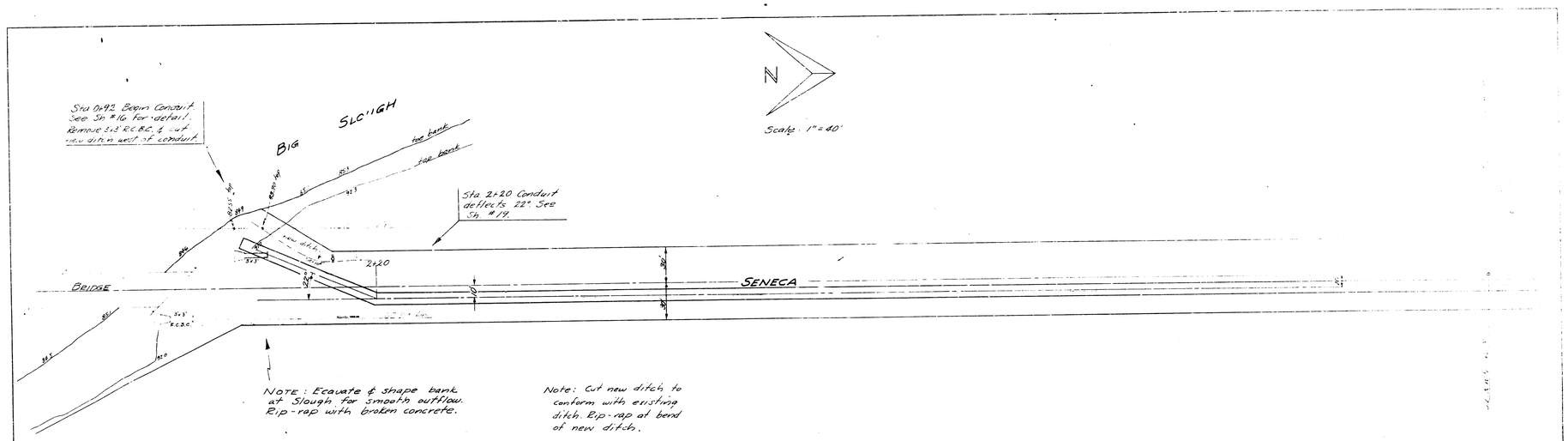
STORM WATER SEWER NO. 61

CITY OF WICHITA, KANSAS

B. E. SMITH - CITY ENGINEER

PROJECT NO. C25-26

MAY, 1956

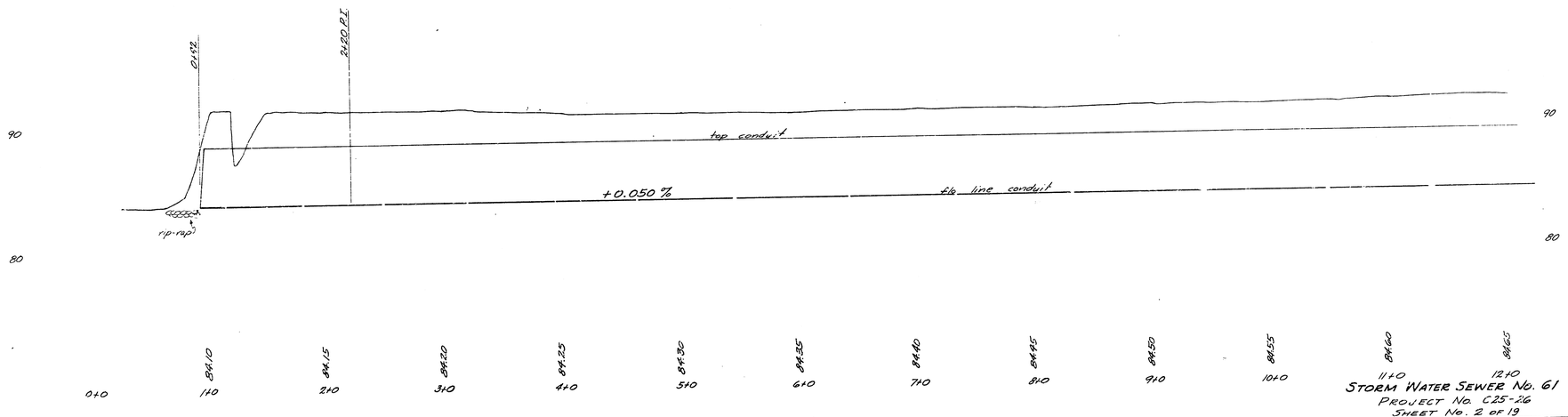


NOTE: Sand fill is to be used where excavated material is unsuitable for backfill. Bid price of sand fill is to include cost of flushing ditch where sand fill is used. Lin ft. of flushing will be paid where excavated material is used & flushed.

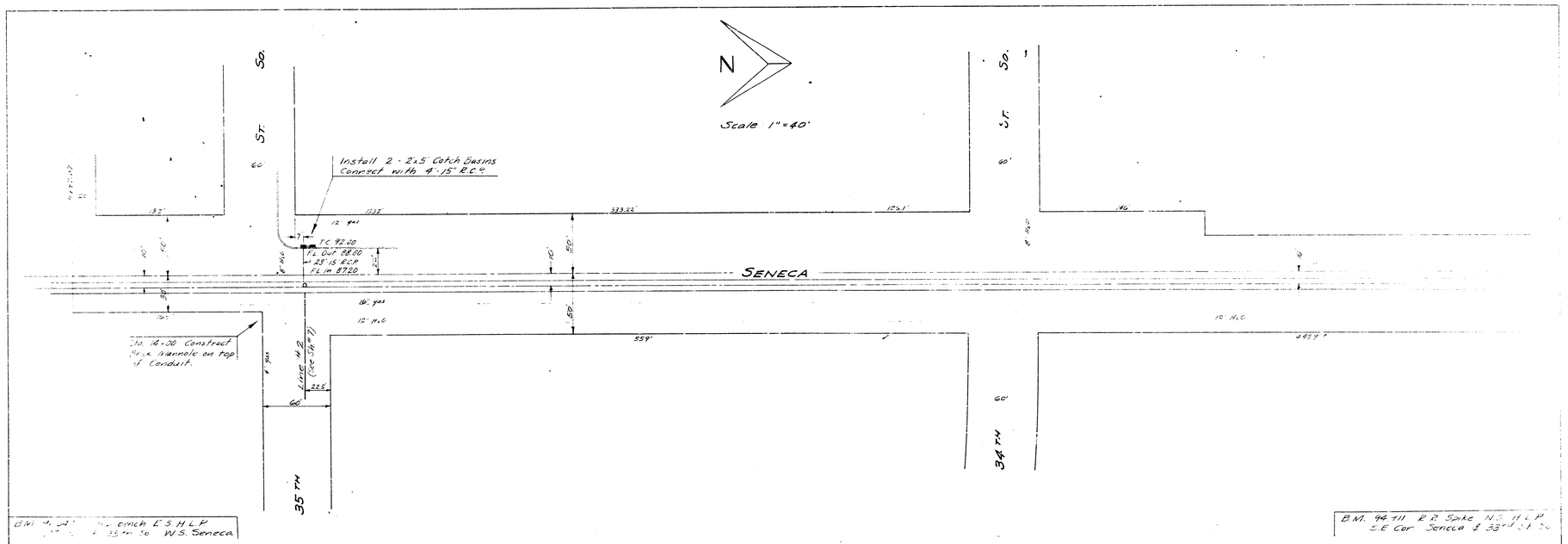
Note to Field Engr:
Measure and record all removal on job.
Take ties to all monuments and irons which may be disturbed and replace same.

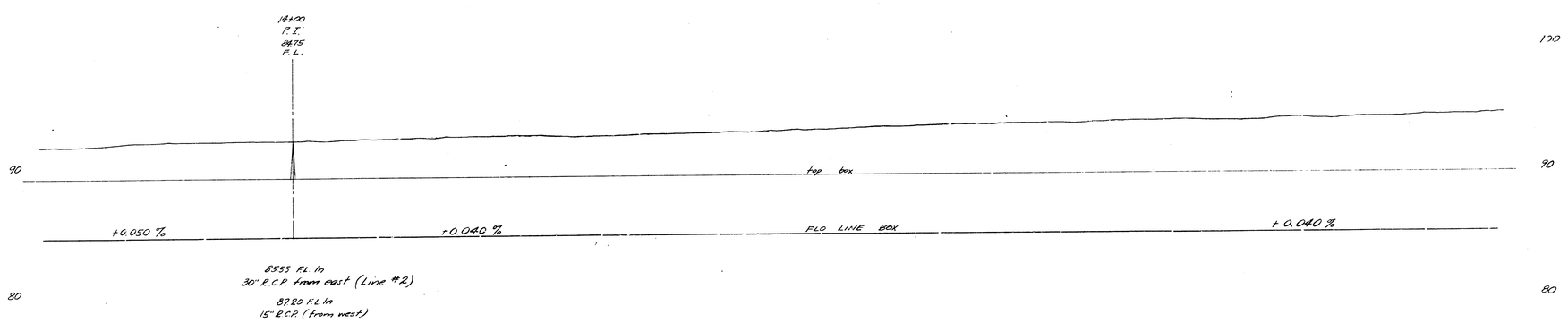
B.M. 92.669 'x' on S. Headwall Conc. Culvt N.E. Cor. Bridge & Slough & Seneca

B.M. 91.647 Step bench L.S. M.L.P. 1st N. of 35th So. W.S. Seneca

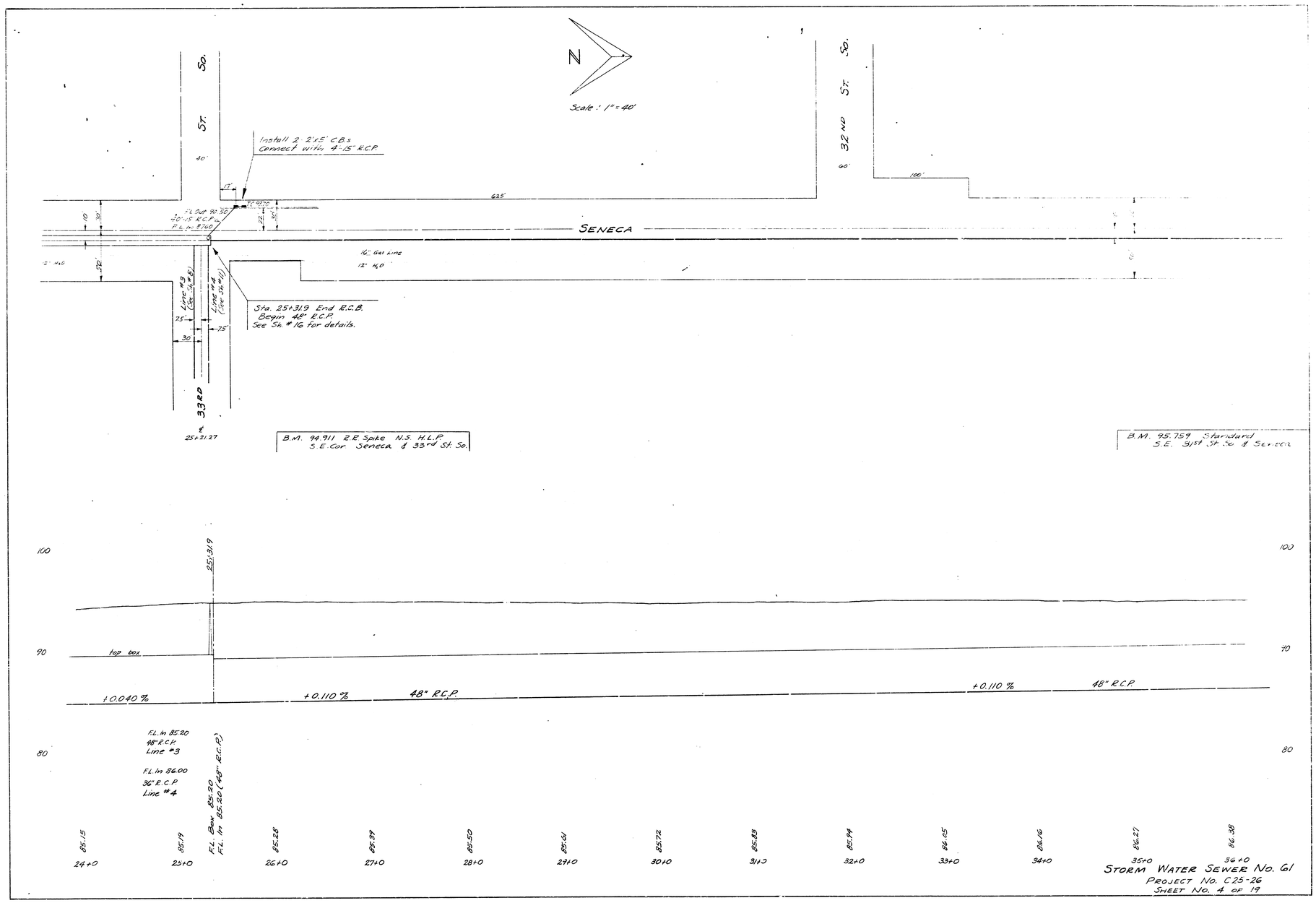


STORM WATER SEWER No. 61
PROJECT No. C25-26
SHEET No. 2 OF 19





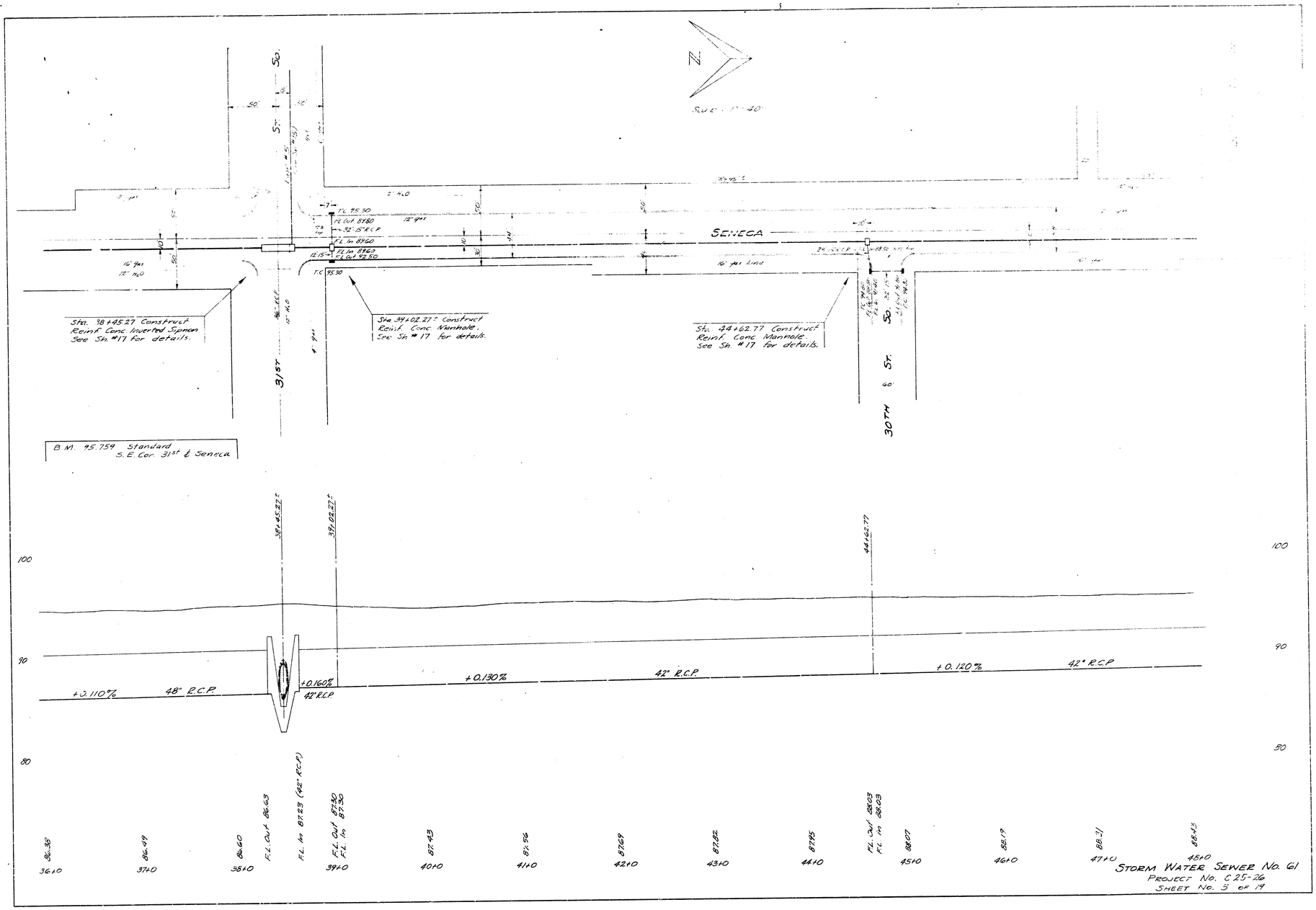
STORM WATER SEWER NO. 61
PROJECT NO. C25-26
SHEET NO. 3 OF 19



Storm Water Sewer No. 61

Project No. C25-26

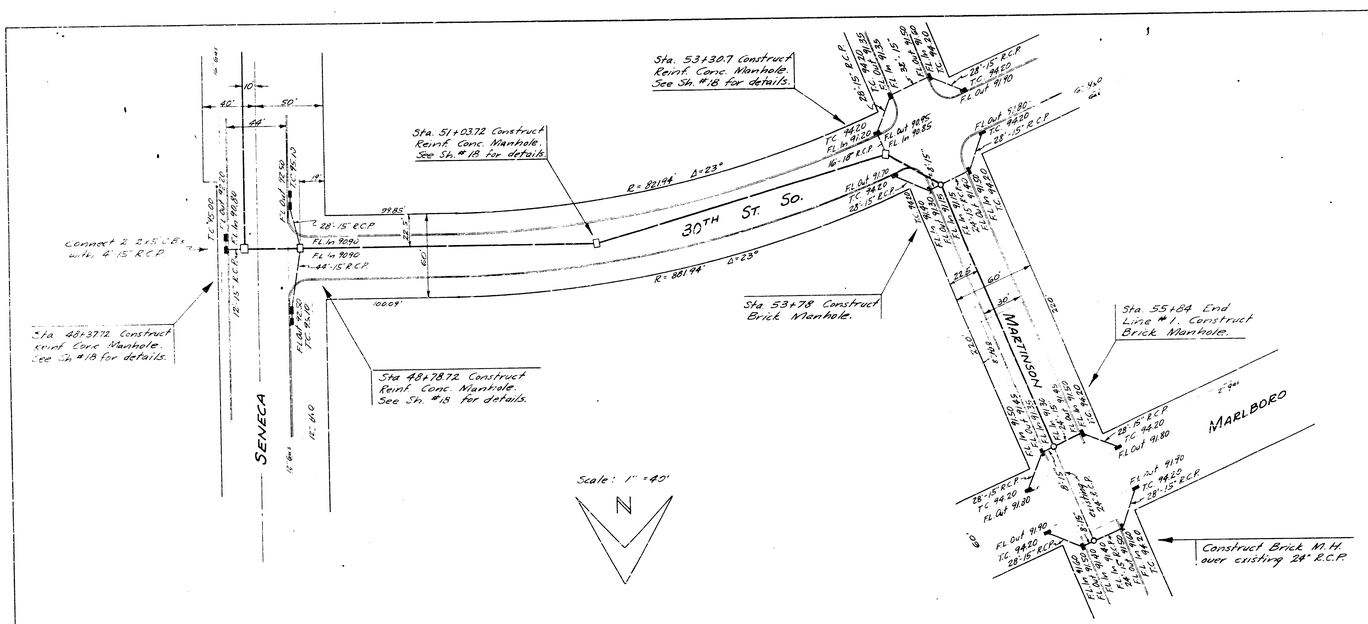
Sheet No. 4 of 19

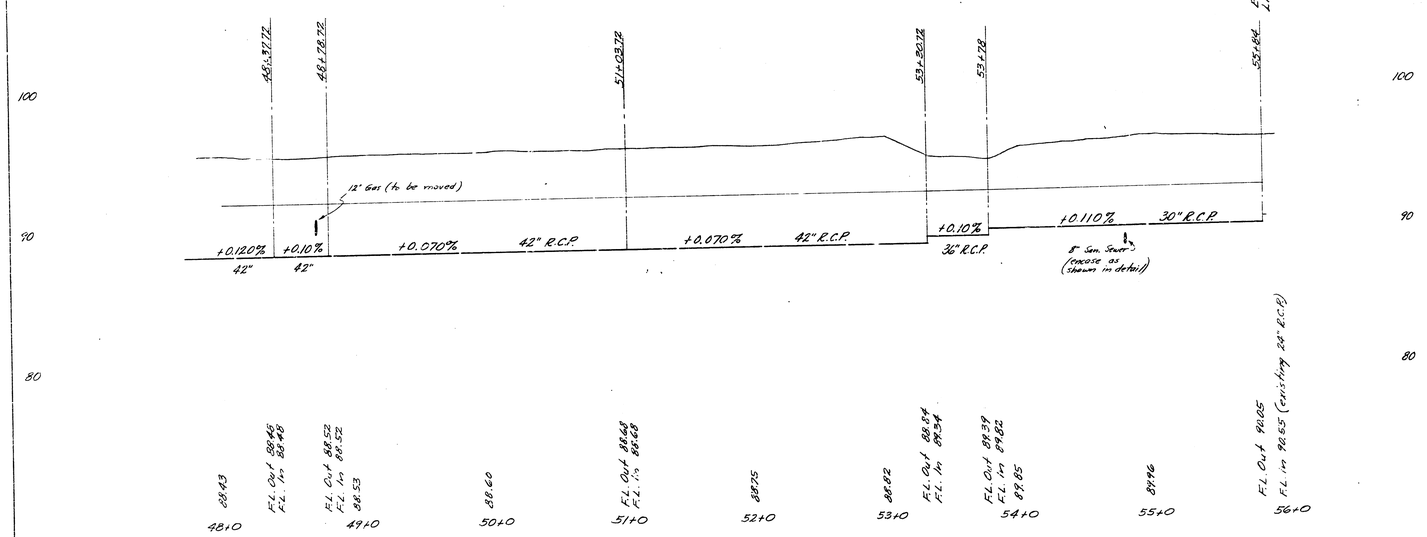


STORM WATER SEWER No. 61

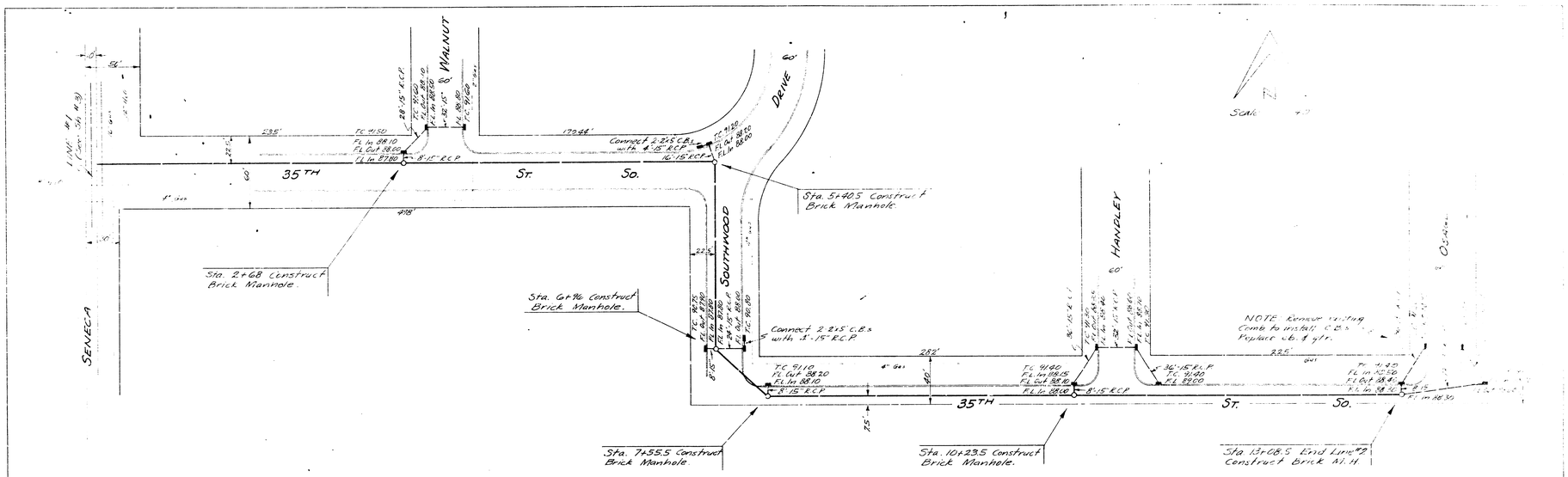
PROJECT No. C.25-26

SHEET No. 3 OF 19



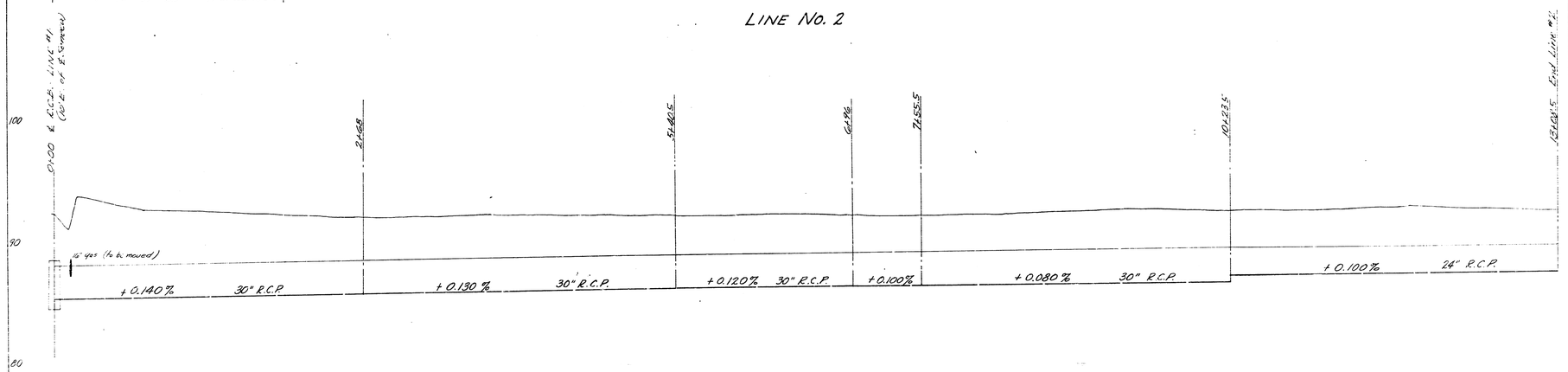


STORM WATER SEWER NO. 61
PROJECT NO. C 25-26
SHEET NO. 6 OF 19



B.M. 91.647 Step bench E.S. H.L.P. 1st N. of 35th W.S. Seneca

LINE No. 2



Storm Water Sewer No. 61

Project No. C25-26

Sheet No. 7 of 19

N

Scale: 1" = 40'

Line #4 (See Sh. # 11)

Line #3

33 RD ST. So.

60'

420.71' C

270.42'

22.5'

30'

7.5'

304'

420'

270.42'

10'

50'

SENECA

WALNUT

HANDLEY

OSAGE

Line #1 (See Sh. # 1)

B.M. 94.911 R.R. Spike N.S. H.L.P. S.E. Cor. Seneca & 33rd

B.M. 96.127 N.W. Cor. Porch Ho. # 3356 So. Handley

B.M. 94.647 R.R. Spike W.S. H.L.P. 150' W of Osage, 150' N of 33rd

LINE No. 3

Q&O & K.C.B. Line #1 (10' E of E Seneca)

100

90

80

15" Gas

+ 0.060 %

48" R.C.P.

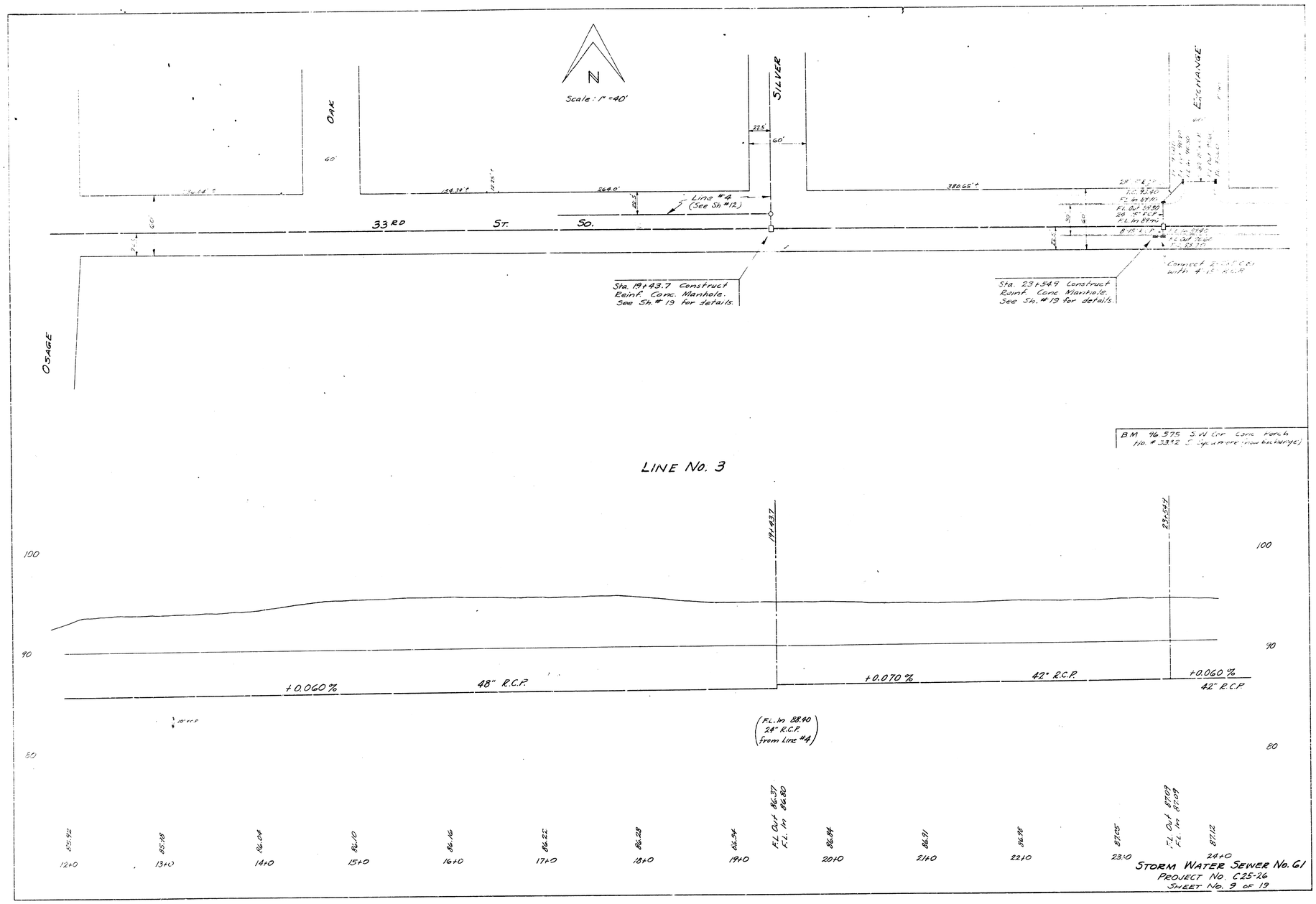
Fl. 85.20 K.C.B.
Fl. 110 85.20

0+10	1+0	2+0	3+0	4+0	5+0	6+0	7+0	8+0	9+0	10+0	11+0	12+0
	85.26	85.32	85.38	85.44	85.50	85.56	85.62	85.68	85.74	85.80	85.86	85.92

STORM WATER SEWER No. 61

PROJECT No. C.25-26

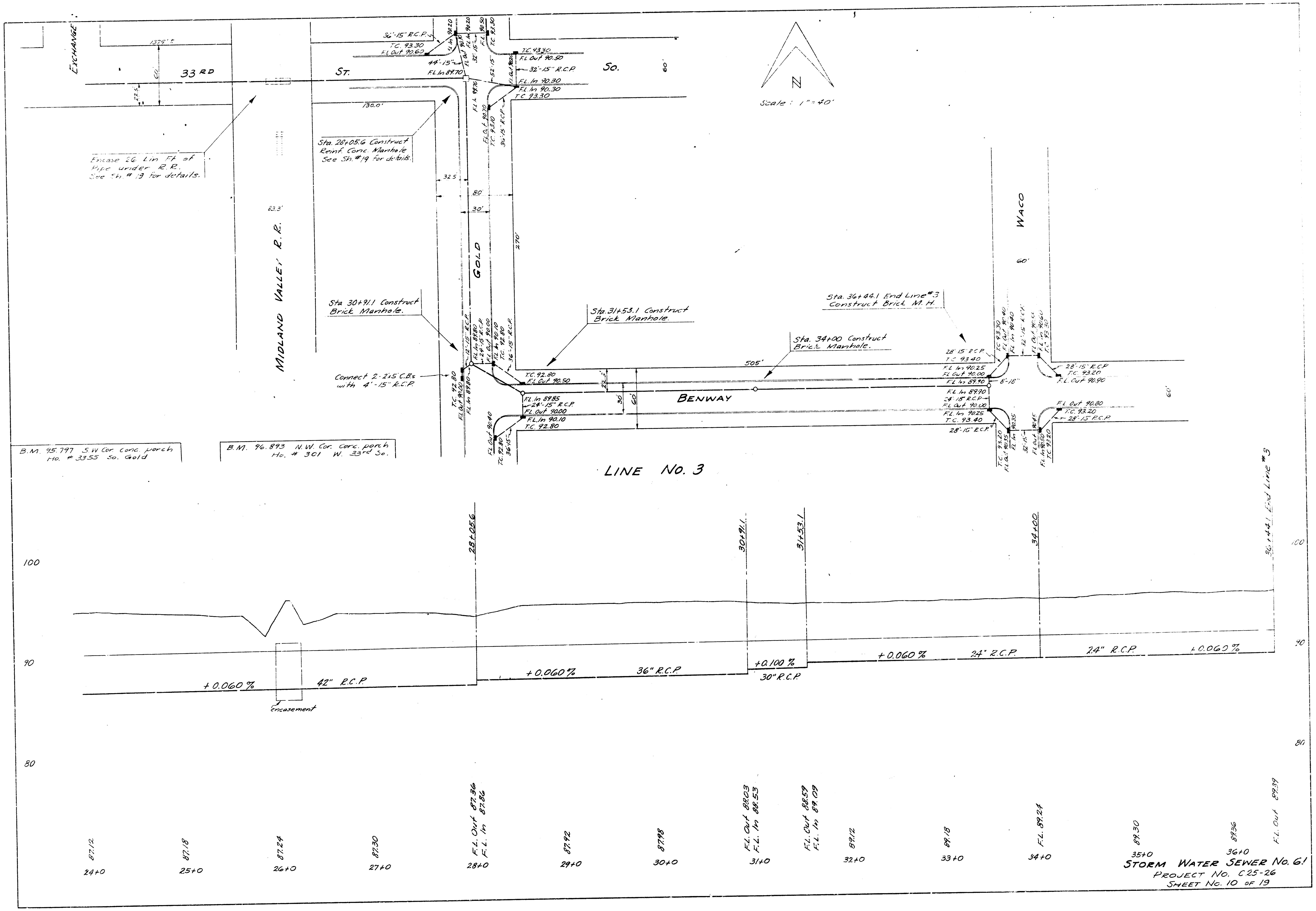
SHEET No. 8 OF 19



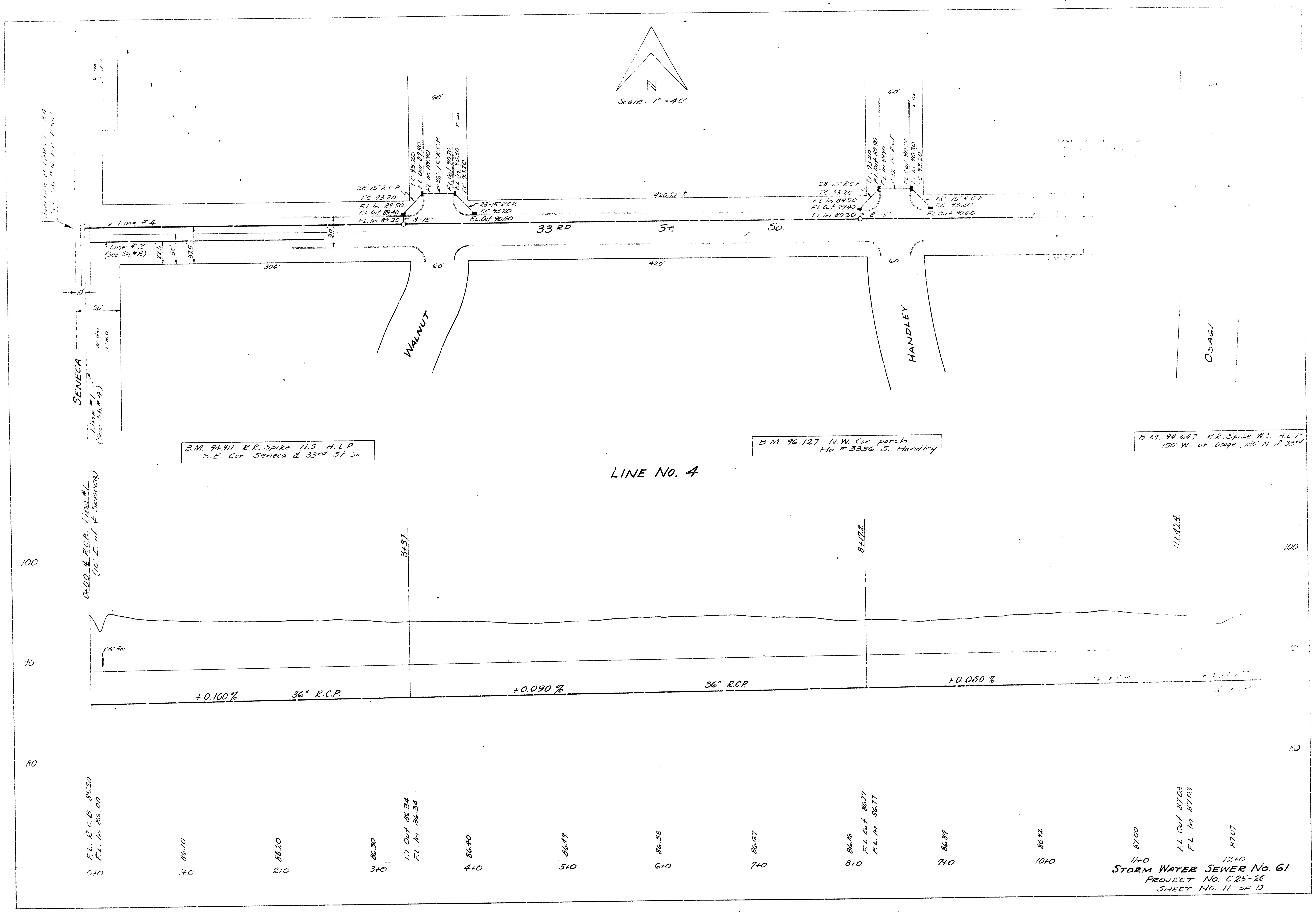
STORM WATER SEWER No. G1

PROJECT No. C25-26

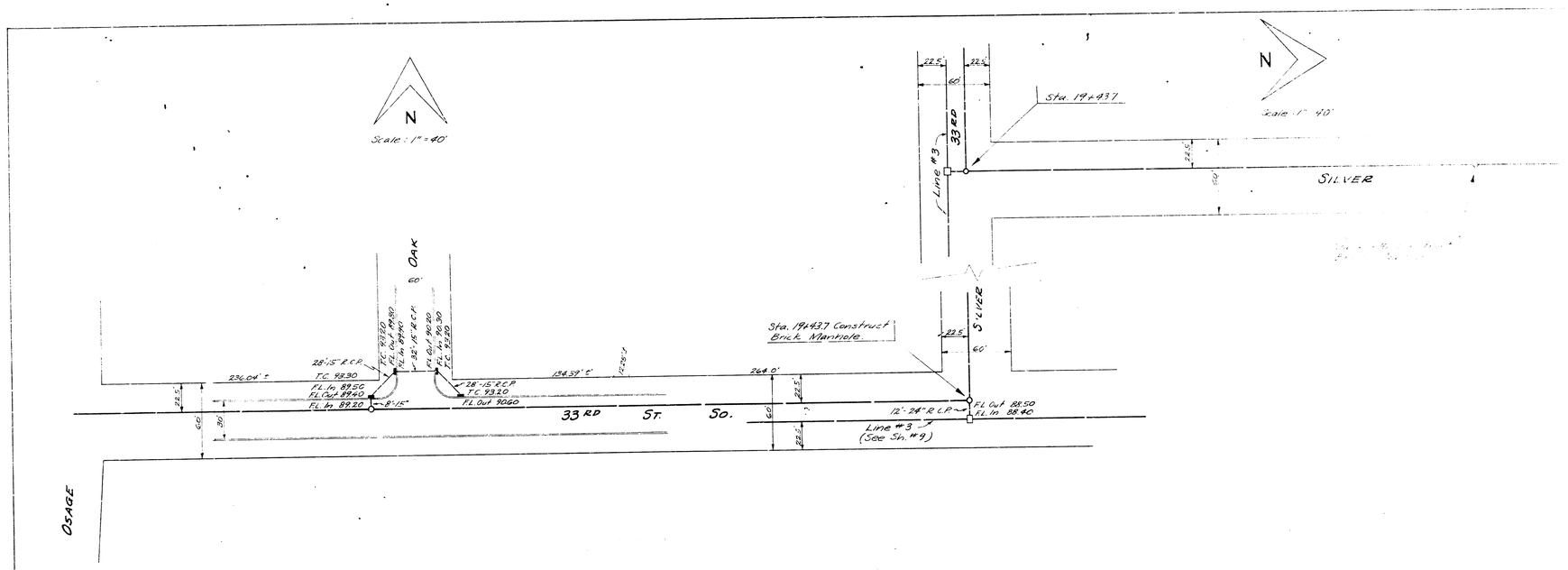
SHEET No. 9 OF 19



EXCHANGE
33RD ST. SO.
Scale: 1" = 40'
Encase 26 Lin. Ft. of Pipe under R.R. See Sh. #19 for details.
Sta. 28+05.6 Construct Reinf. Conc. Manhole See Sh. #19 for details.
MIDLAND VALLEY R.R.
GOLD
WACO
BENWAY
Sta. 30+91.1 Construct Brick Manhole.
Sta. 31+53.1 Construct Brick Manhole.
Sta. 34+00 Construct Brick Manhole.
Sta. 36+44.1 End Line #3 Construct Brick M.H.
Connect 2-2x5 C.Bs with 4'-15" R.C.P.
505'
B.M. 95.797 S.W. Cor. conc. porch No. # 3355 So. Gold
B.M. 96.893 N.W. Cor. conc. porch No. # 301 W. 33rd So.
LINE No. 3
+0.060% 42" R.C.P.
Encasement
+0.060% 36" R.C.P.
+0.100% 30" R.C.P.
+0.060% 24" R.C.P.
24" R.C.P. +0.060%
100
90
80
24+0
25+0
26+0
27+0
28+0
29+0
30+0
31+0
32+0
33+0
34+0
35+0
36+0
F.L. Out 87.36 F.L. In 87.86
F.L. Out 88.03 F.L. In 88.53
F.L. Out 88.59 F.L. In 89.09
F.L. 89.24
F.L. Out 89.39
STORM WATER SEWER No. 61
PROJECT No. C25-26
SHEET No. 10 of 19



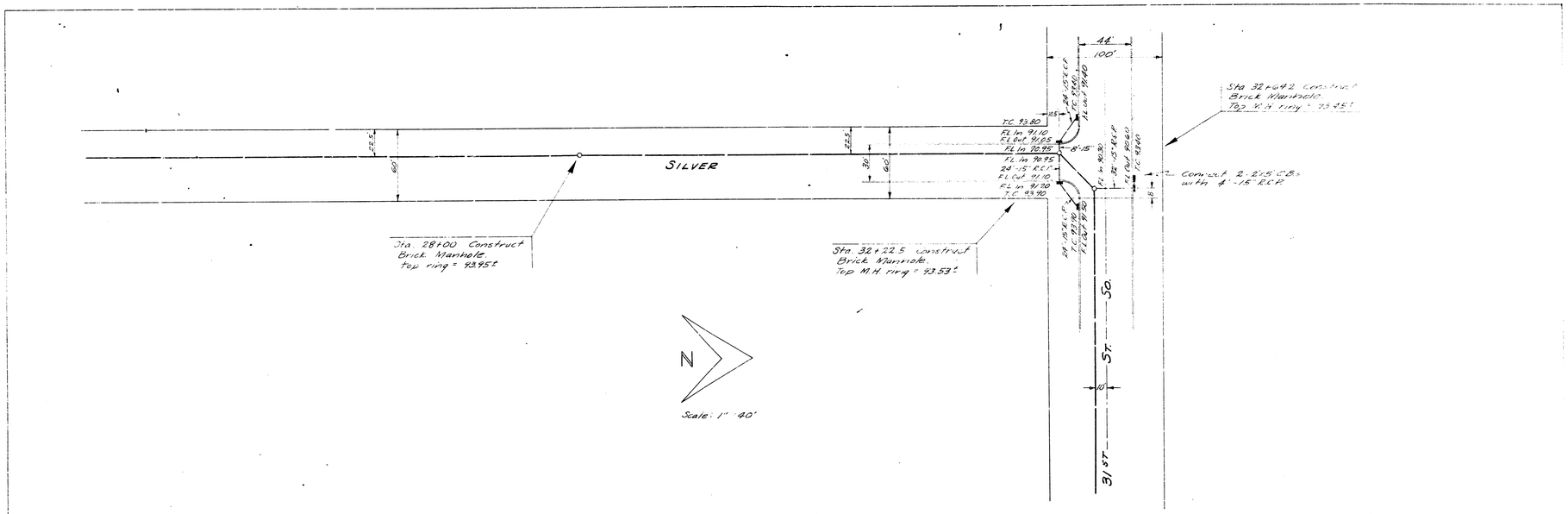
N
Scale: 1" = 40'
33 RD ST. SO.
Line #4
Line #3 (See Sh. #8)
Line #1 (See Sh. #4)
SENECA
WALNUT
HANDLEY
OSAGE
28'-15" R.C.P.
TC 93.20
F.L. In 89.50
F.L. Out 89.40
F.L. In 89.20
420.21'
420'
304'
60'
50'
B.M. 94.911 R.R. Spike H.S. H.L.P. S.E. Cor. Seneca & 33rd St. So.
B.M. 96.127 N.W. Cor. porch Ho. # 3356 S. Handley
B.M. 94.647 R.R. Spike W.S. H.L.P. 150' W. of Osage, 150' N of 33rd
LINE NO. 4
0+00 ℄ R.C.B. Line #1 (10' E of ℄ Seneca)
3+37
8+122
11+474
100
90
80
+0.100%
36" R.C.P.
+0.090%
36" R.C.P.
+0.080%
F.L. R.C.B. 85.20
F.L. In 86.00
86.10
86.20
86.30
F.L. Out 86.34
F.L. In 86.34
86.40
86.49
86.58
86.67
86.76
F.L. Out 86.77
F.L. In 86.77
86.84
86.92
87.00
F.L. Out 87.03
F.L. In 87.03
87.07
0+0
1+0
2+0
3+0
4+0
5+0
6+0
7+0
8+0
9+0
10+0
11+0
12+0
STORM WATER SEWER NO. 61
PROJECT NO. C25-26
SHEET NO. 11 OF 13



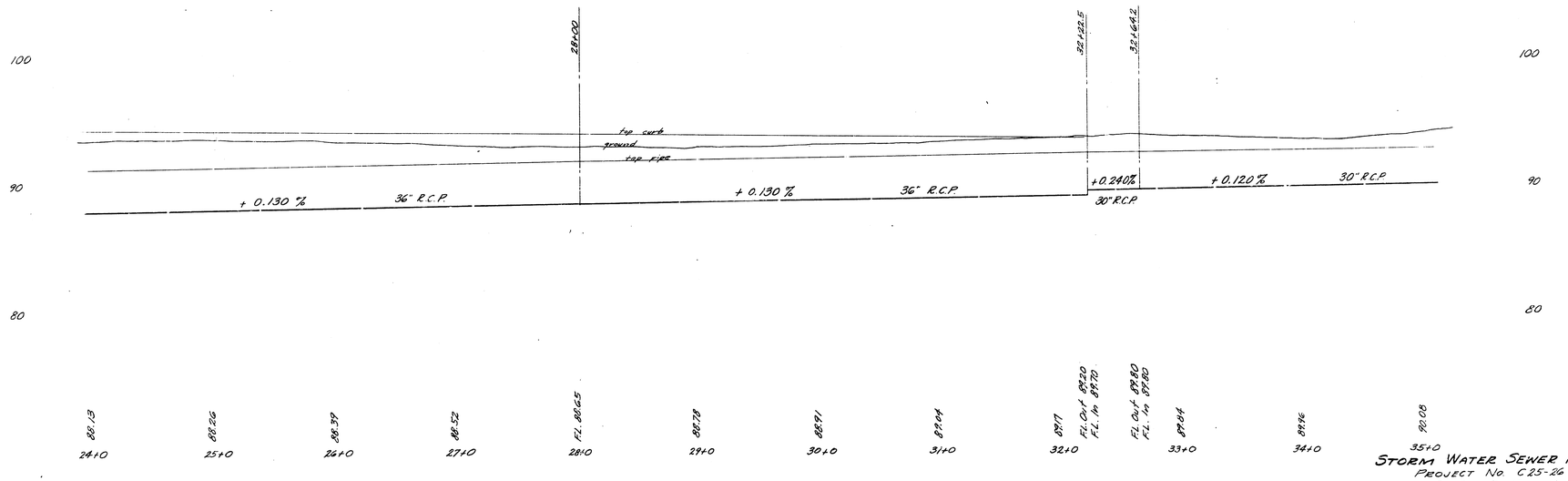
Storm Water Sewer No. 61

Project No. C25-26

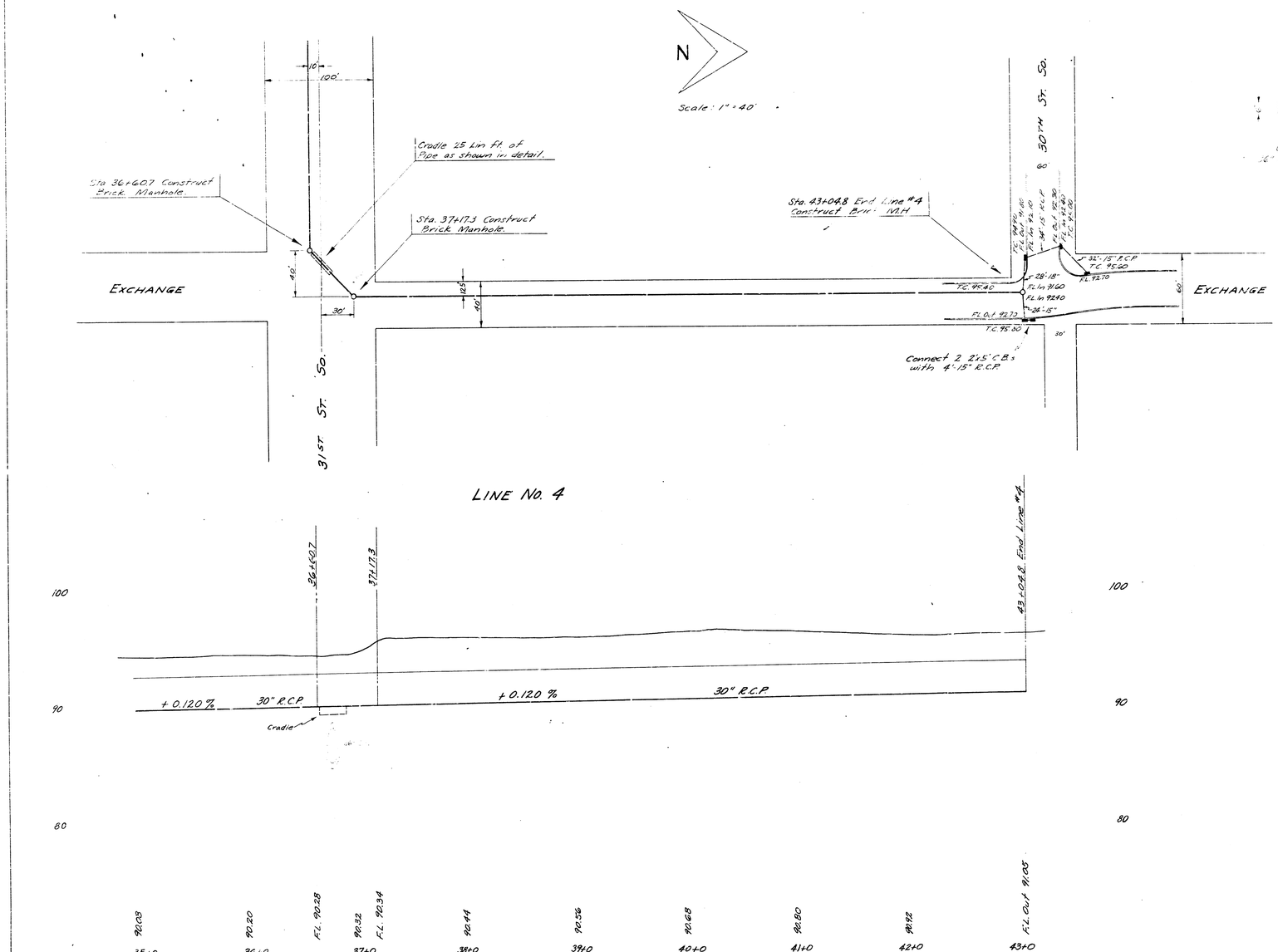
Sheet No. 12 of 17



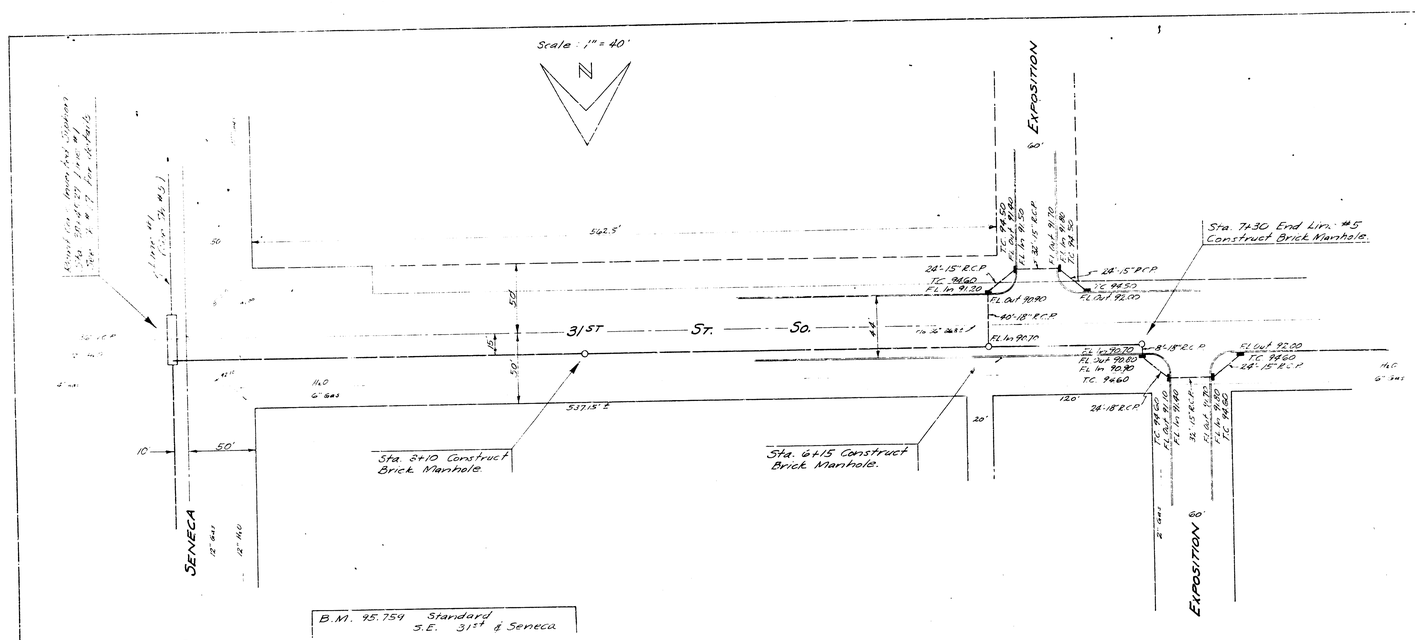
LINE No. 4



STORM WATER SEWER No. 61
PROJECT No. C25-26
SHEET No. 13 OF 19

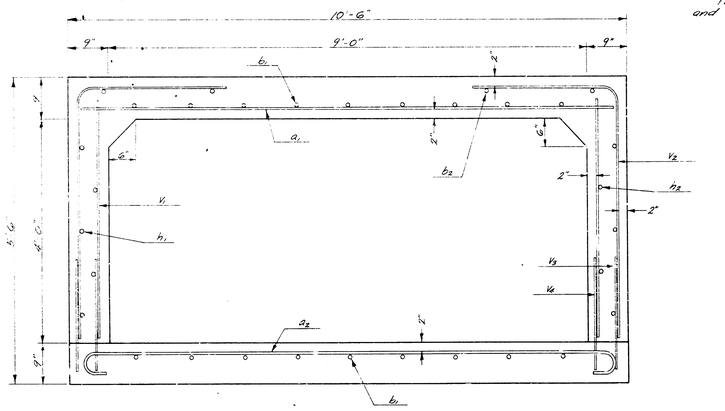


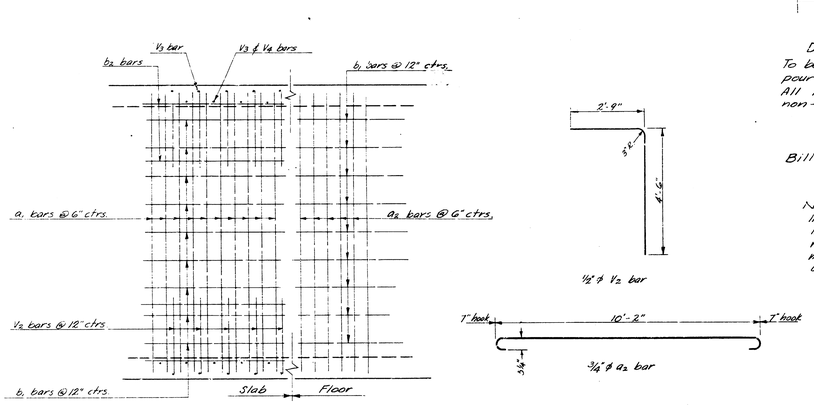
STORM WATER SEWER No. 61
PROJECT No. C25-26
SHEET No. 14 OF 19



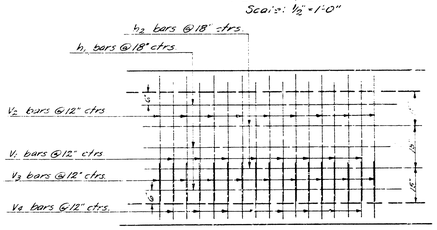
STORM WATER SEWER No. G1
PROJECT No. C25-26
SHEET No. 15 OF 19

TYPICAL SECTION
REINF. CONC. CONDUIT
Scale: 1"=1'-0"



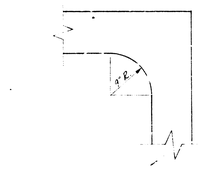


PLAN VIEW
Scale: 1/2"=1'-0"

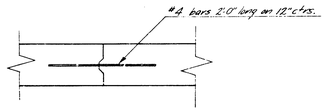


ELEVATION
Scale: 1/2"=1'-0"

Concrete for structures shall contain not less than 1.65 bbls. of cement per cu. yd. of concrete. In no event shall the total water content exceed 6.25 gals. per sack of cement. The mixture of fine and coarse aggregate shall be such to produce a maximum density of a most workable mixture. An internal vibrator shall be used for placing concrete. The floor of manholes are to be sloped for flow and drainage.



OPTIONAL FILLET
Shape of fillet & method of forming to be approved by City Engineer.



DETAIL OF KEYED JOINT
To be used at the end of each pour in the slab, floor, & walls. All longitudinal steel to be non-continuous at joints.

Bill of Material per lin. ft. of Conduit:
0.815 cu. yds. concrete
106.6 lbs. reinf. steel

Note: Conduit is to be bid as lin. ft. reinf. conc. conduit, complete in place, including excavation, concrete, reinf. steel, toe wall at outlet, brick manholes on top of conduit, and end wall at 33rd St. So.

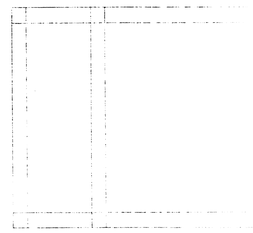
½" ϕ V2 bar

¾" ϕ a2 bar

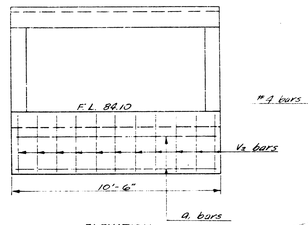
Steel Schedule				
bar	Size	Spacing	length	shape
a1	#6	6" ctrs.	10'-2"	
a2	#6	6" ctrs.	see detail	
b1	#4	12" ctrs.	continuous	
b2	#4	2'-0" ctrs.	continuous	
V1	#4	12" ctrs.	1'-3"	
V2	#4	12" ctrs.	see detail	
V3	#4	12" ctrs.	2'-0"	
V4	#4	12" ctrs.	2'-0"	
h1	#4	18" ctrs.	continuous	
h2	#4	18" ctrs.	continuous	

V3 & V4 bars to alternate as shown.
V1 bar ties to V4 bar.
V2 bar ties to V3 bar.
Splices on longitudinal bars - 15" minimum.

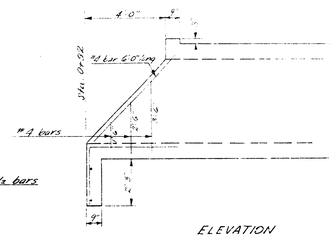
DETAIL - BEGINNING OF CONDUIT AT STA. 0+92
Extra steel required as shown
Scale: 3/8"=1'-0"



PLAN VIEW

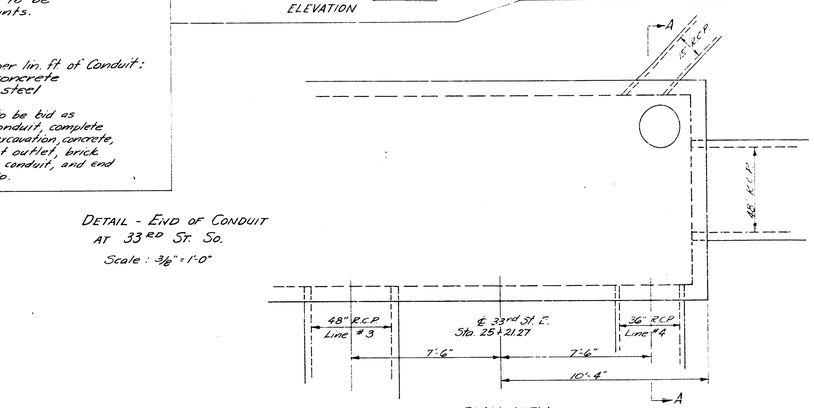


ELEVATION

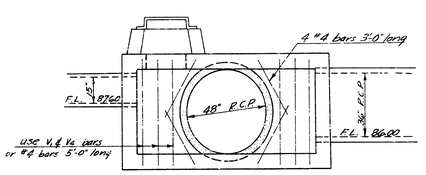


ELEVATION

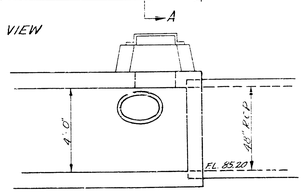
DETAIL - END OF CONDUIT AT 33RD ST. SO.
Scale: 3/16"=1'-0"



PLAN VIEW

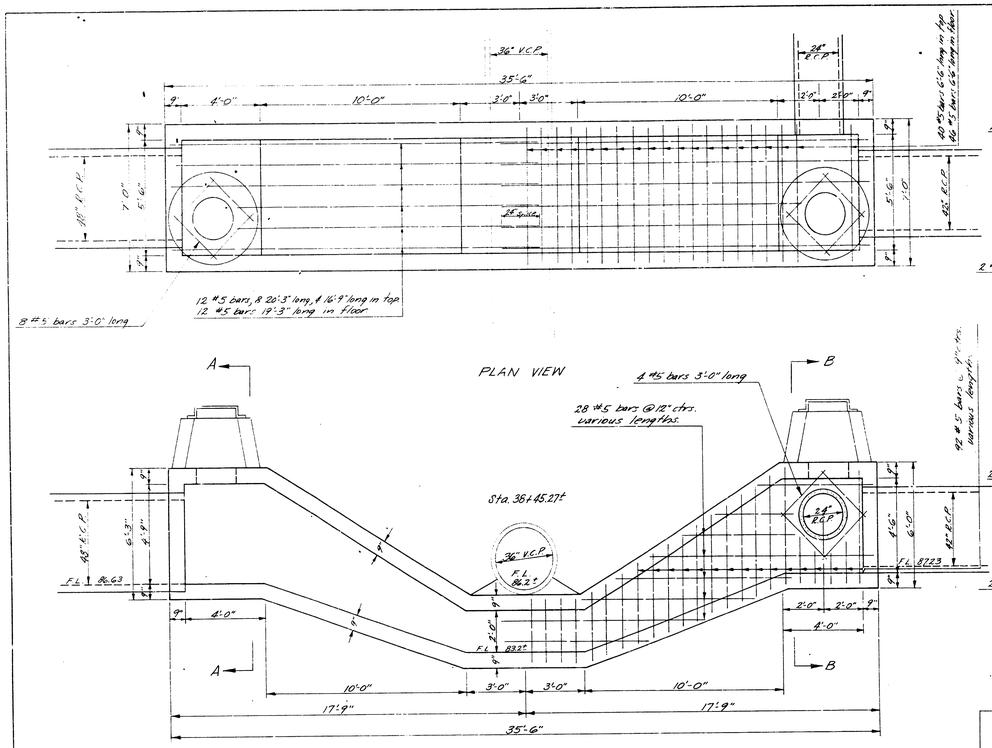


END ELEVATION
SEC. A-A

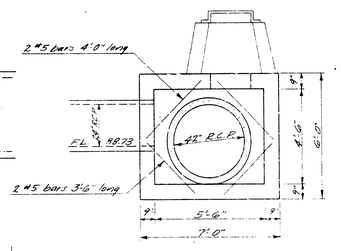


ELEVATION

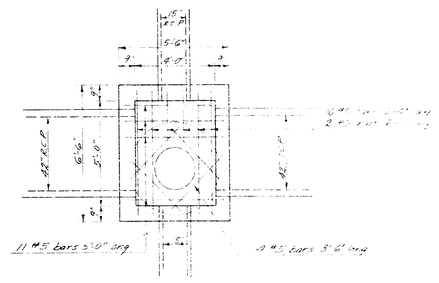
S.W.S. #61
Sheet No. 16 of 19



PLAN VIEW

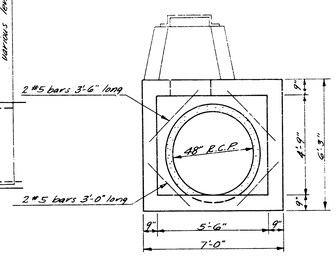


SEC. B-B



PLAN VIEW

ELEVATION

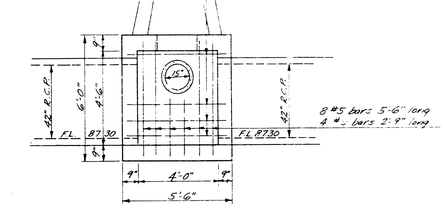


SEC. A-A

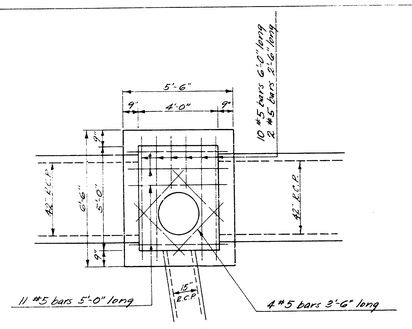
Bill of Materials:
23.5 cu. yds. concrete
1800 lbs. reinf. steel

REINF. CONC. INVERTED SIPHON - STA. 38+45.27 - LINE No. 1

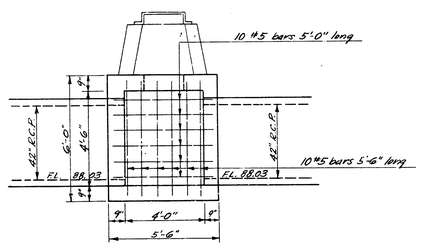
Scale : 3/8" = 1'-0"



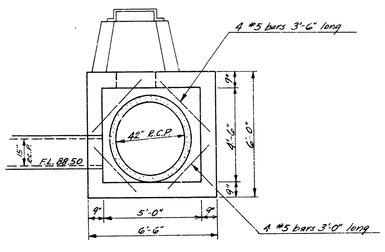
ELEVATION



PLAN VIEW



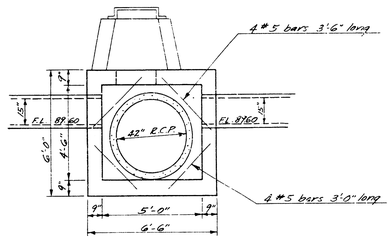
ELEVATION



ELEVATION

REINF. CONC. MANHOLE - STA. 44+62.8 - LINE No. 1

Scale : 3/8" = 1'-0"



ELEVATION

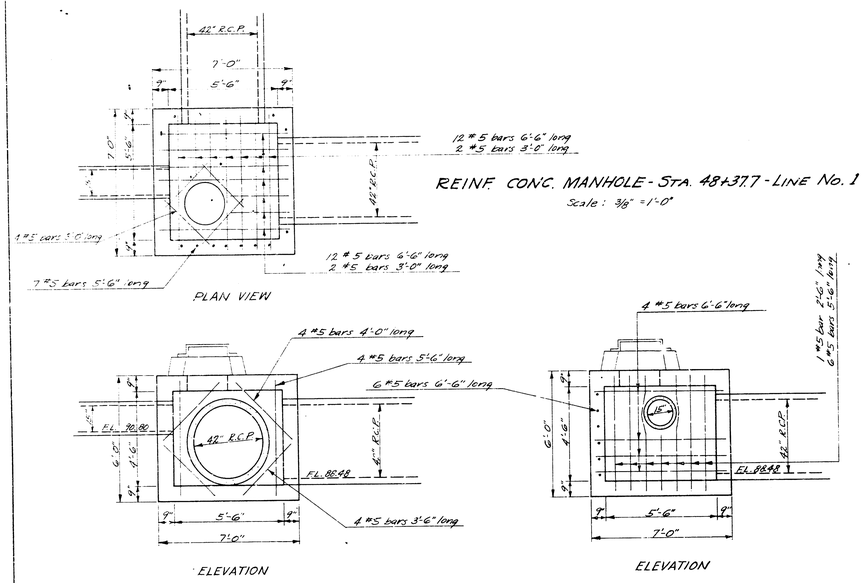
REINF. CONC. MANHOLE - STA. 39+02.3 - LINE 1

Scale : 3/8" = 1'-0"

STORM WATER SEWER No. 61

PROJECT No. C25-26

SHEET No. 17 OF 19



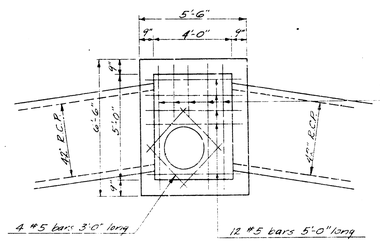
PLAN VIEW

REINF. CONC. MANHOLE - STA. 48+37.7 - LINE No. 1

Scale : 3/8" = 1'-0"

ELEVATION

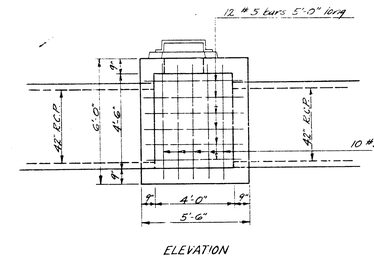
ELEVATION



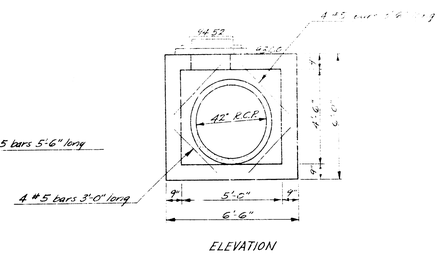
PLAN VIEW

REINF. CONC. MANHOLE - STA 51+03.7 - LINE No. 1

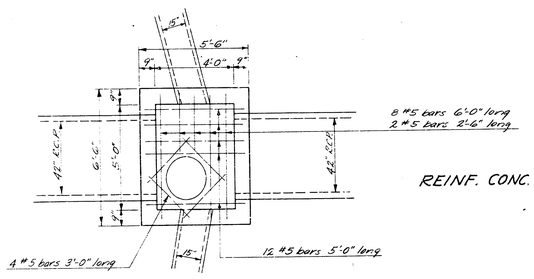
Scale : 3/8" = 1'-0"



ELEVATION



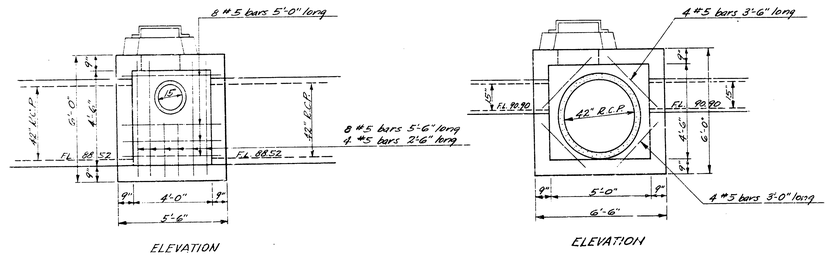
ELEVATION



PLAN VIEW

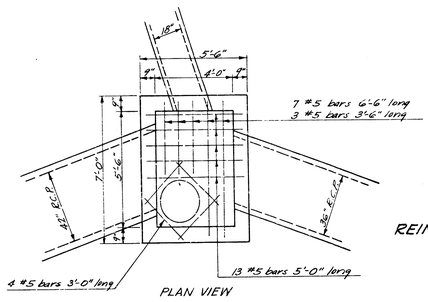
REINF. CONC. MANHOLE - STA. 48+78.7 - LINE No. 1

Scale : 3/8" = 1'-0"



ELEVATION

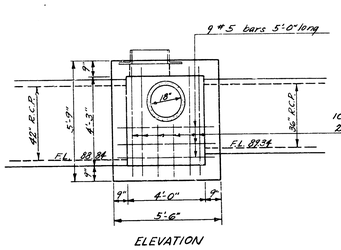
ELEVATION



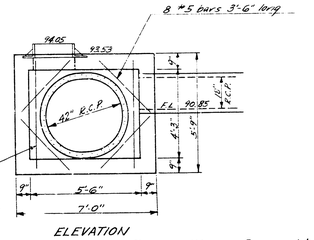
PLAN VIEW

REINF. CONC. MANHOLE - STA. 53+30.7 - LINE No. 1

Scale : 3/8" = 1'-0"

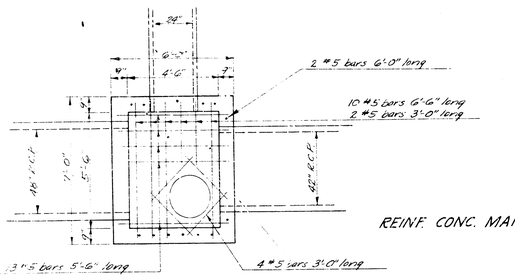


ELEVATION



ELEVATION

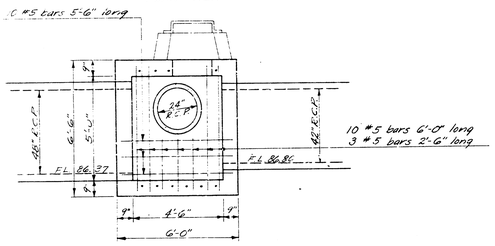
STORM WATER SEWER No. 61
PROJECT No. C25-26
SHEET No. 18 OF 19



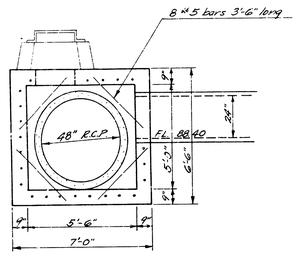
PLAN VIEW

REINF. CONC. MANHOLE - STA. 19+43.7 - LINE No. 3

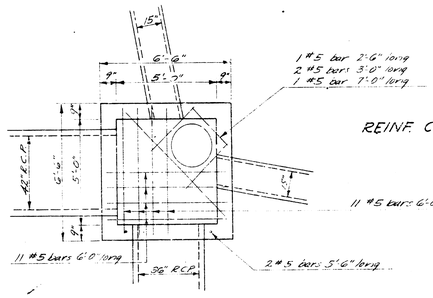
Scale: 3/8" = 1'-0"



ELEVATION



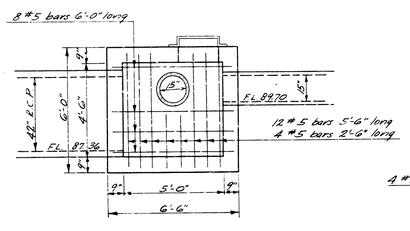
ELEVATION



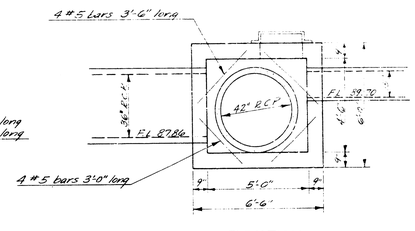
PLAN VIEW

REINF. CONC. MANHOLE - STA. 28+05.6 - LINE NO. 3

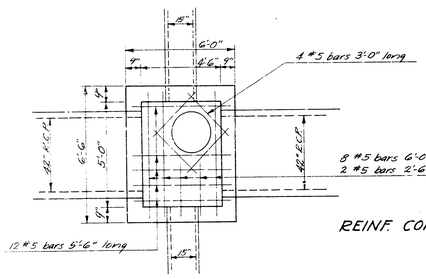
Scale: 3/8" = 1'-0"



ELEVATION



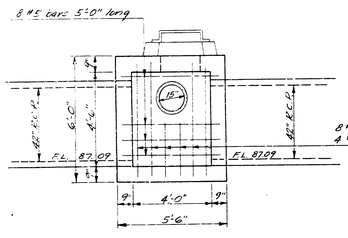
ELEVATION



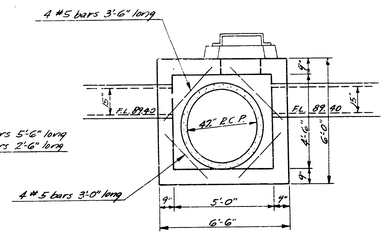
PLAN VIEW

REINF. CONC. MANHOLE - STA. 23+54.9 - LINE No. 3

Scale: 3/8" = 1'-0"



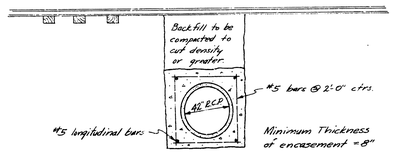
ELEVATION



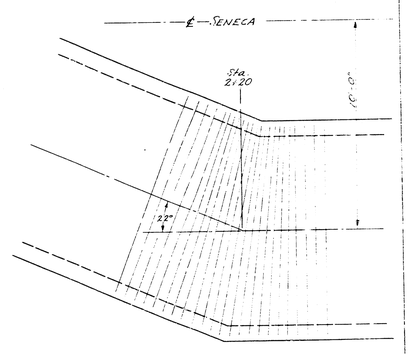
ELEVATION

Pipe is to be installed by open ditch method with tracks removed during hours which will not disrupt train traffic. The contractor shall give proper notice to the R.R. to provide flagmen, etc., while the crossing is being made. The expense of removing and replacing tracks and all other charges made by the R.R. will be paid by the contractor. R.R. charges, cost of encasement and reinf. steel, and all other extra cost of crossing shall be included in the lump sum bid of "reinf. conc. R.R. crossing".

6 sack paving mix is to be used for encasement concrete.



TYPICAL SECTION
REINF. CONC. ENCASEMENT
UNDER MIDLAND VALLEY R.R.
STA. 26+10 - LINE No. 3



maintain 6" spacing with 4 bars on long side reduce spacing on short side as shown.

PLAN VIEW - REINF. CONC. CONDUIT
STA. 2+20 - LINE 1
Scale: 3/8" = 1'-0"

STORM WATER SEWER No. 61
PROJECT No. C25-26
SHEET No. 19 OF 19