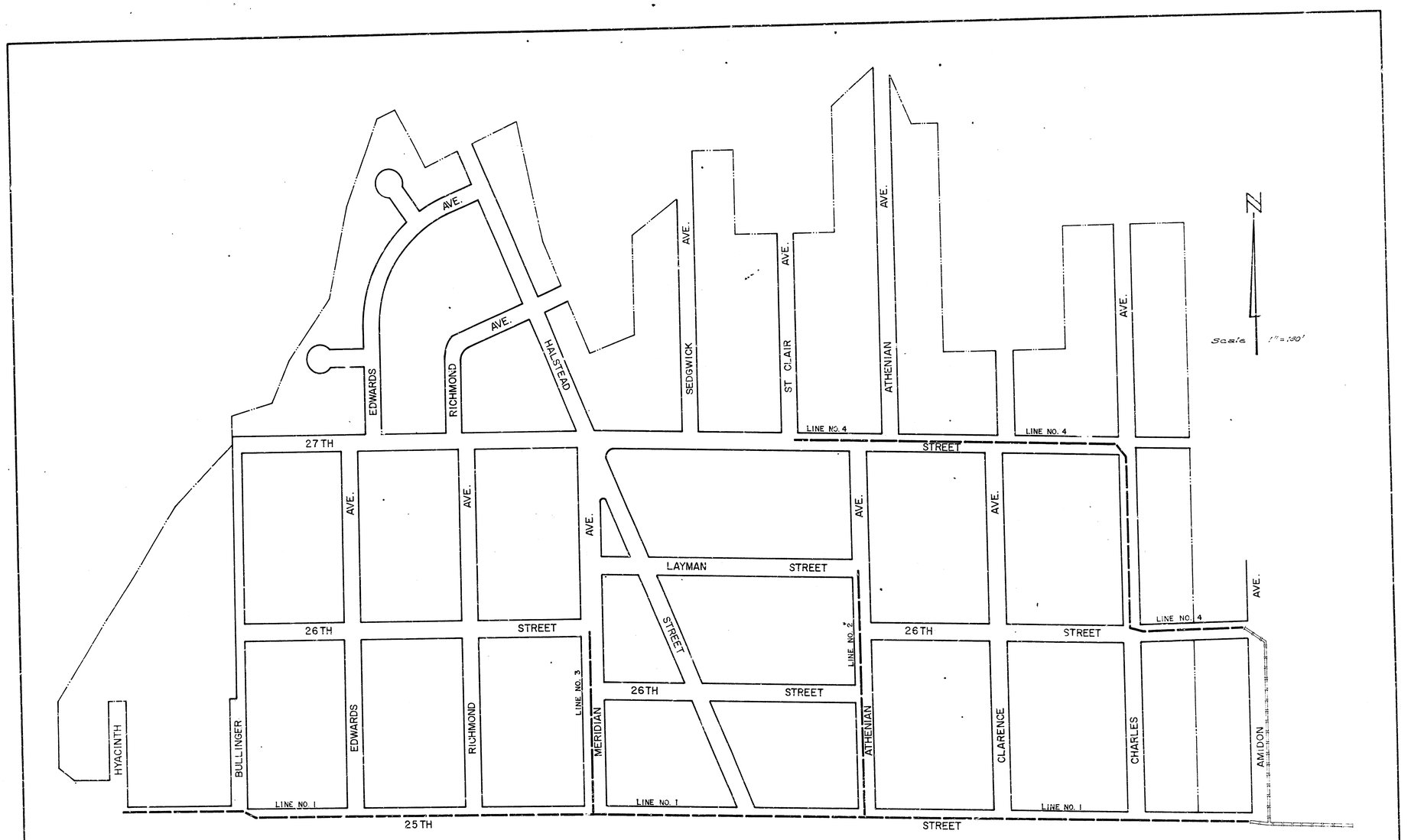
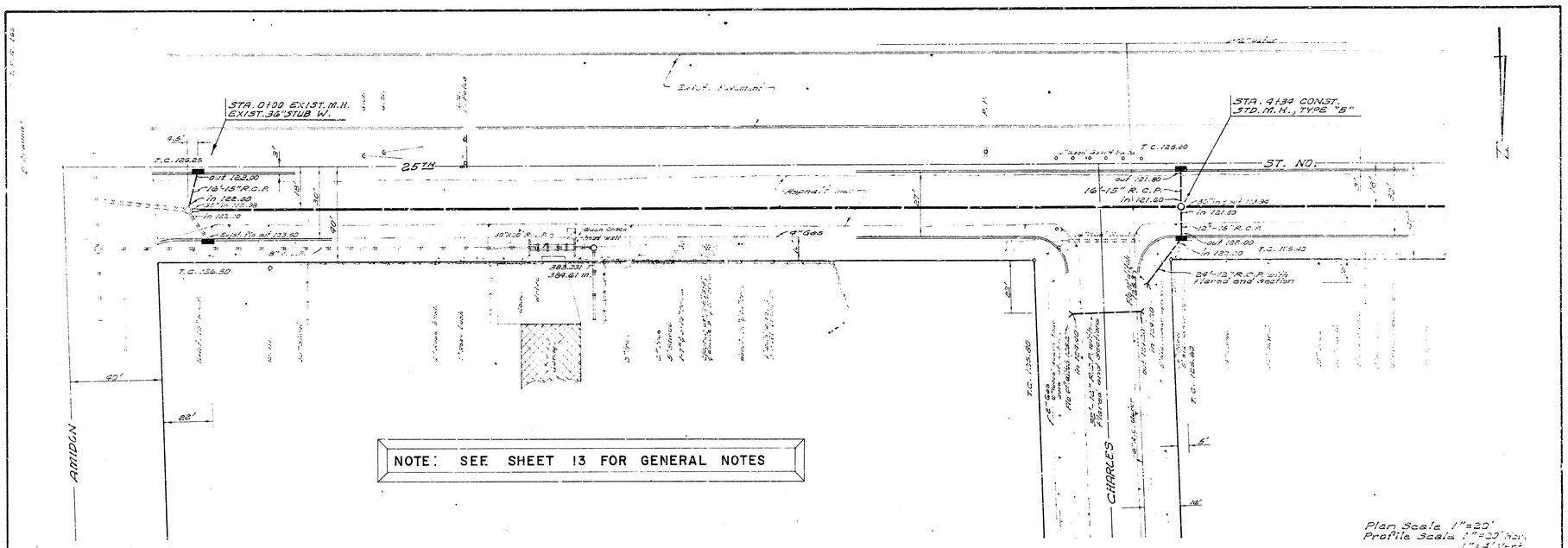


STORM WATER SEWER NO. 83

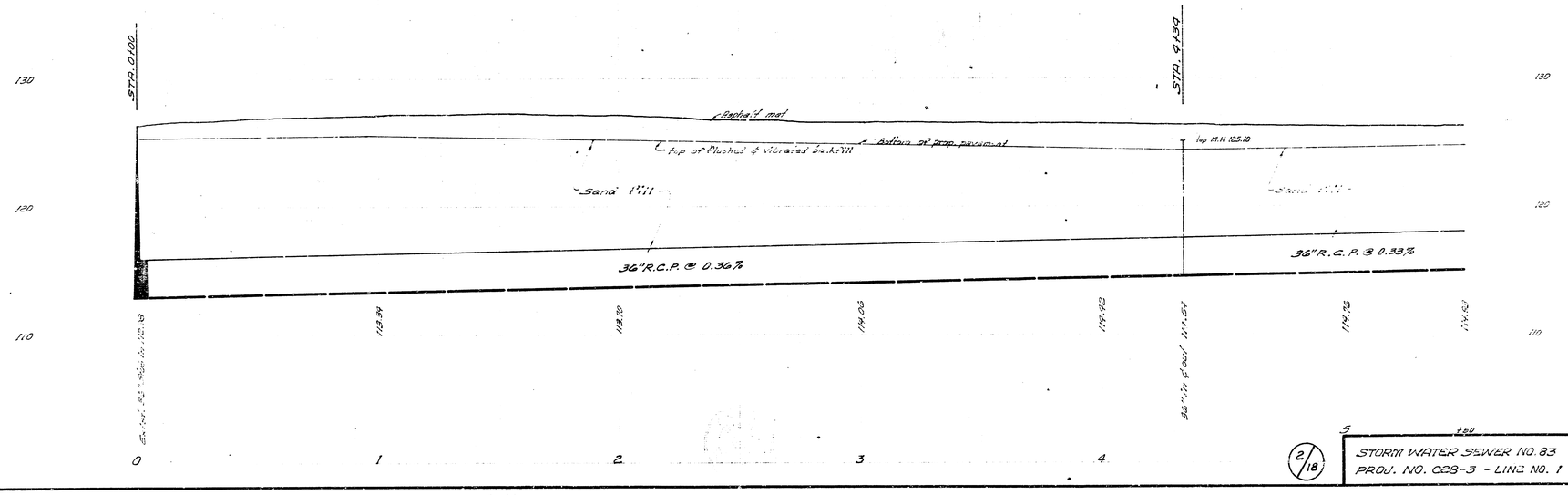
CITY OF WICHITA, KANSAS - B.E. SMITH, CITY ENGINEER

PROJECT NO. C28-3 DATE:

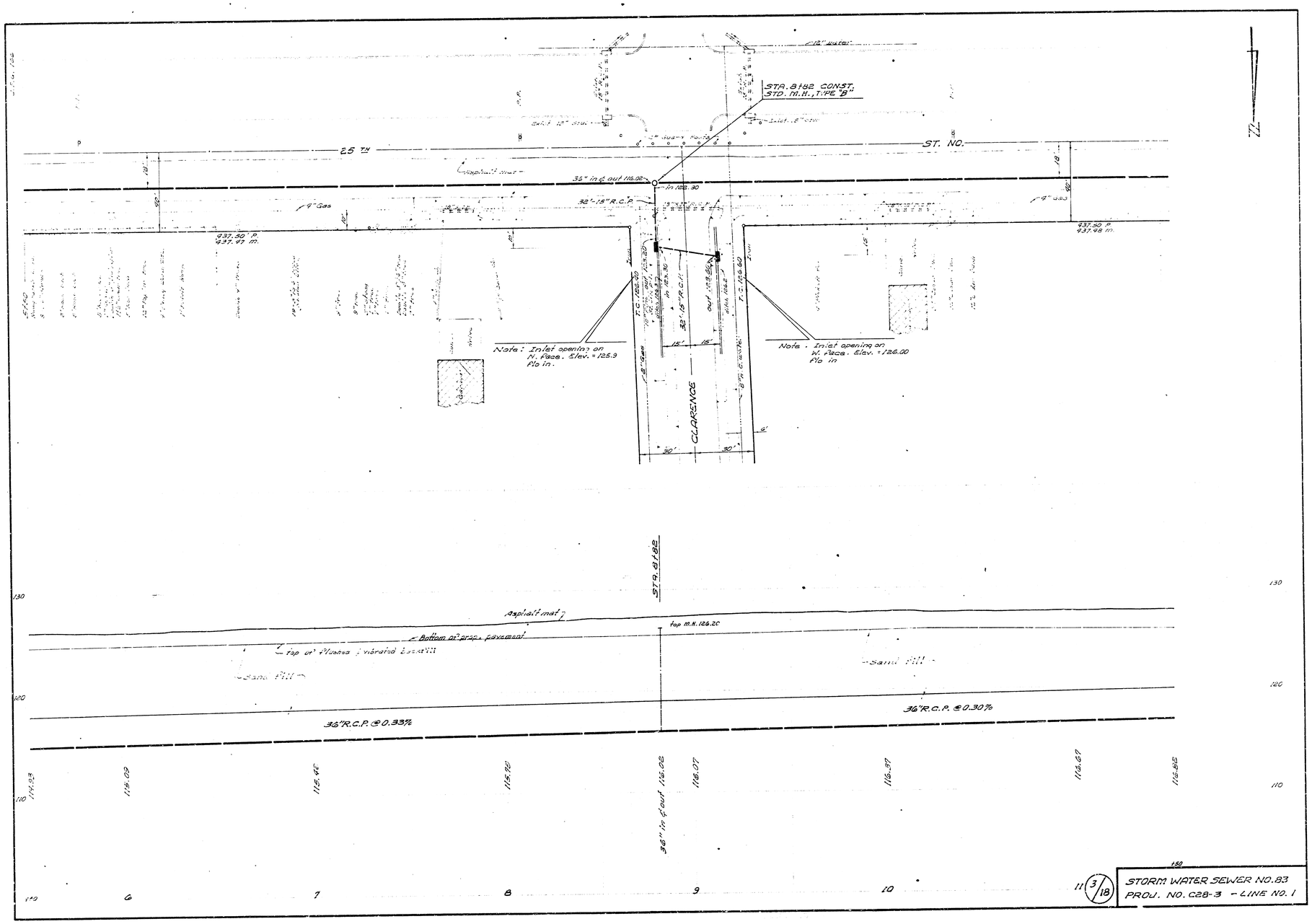
1/18



B.M. 126.37 City Std. 6' W. of W. L. Amidon & 2' W. of N. cb. of part. on S. ½ 25th

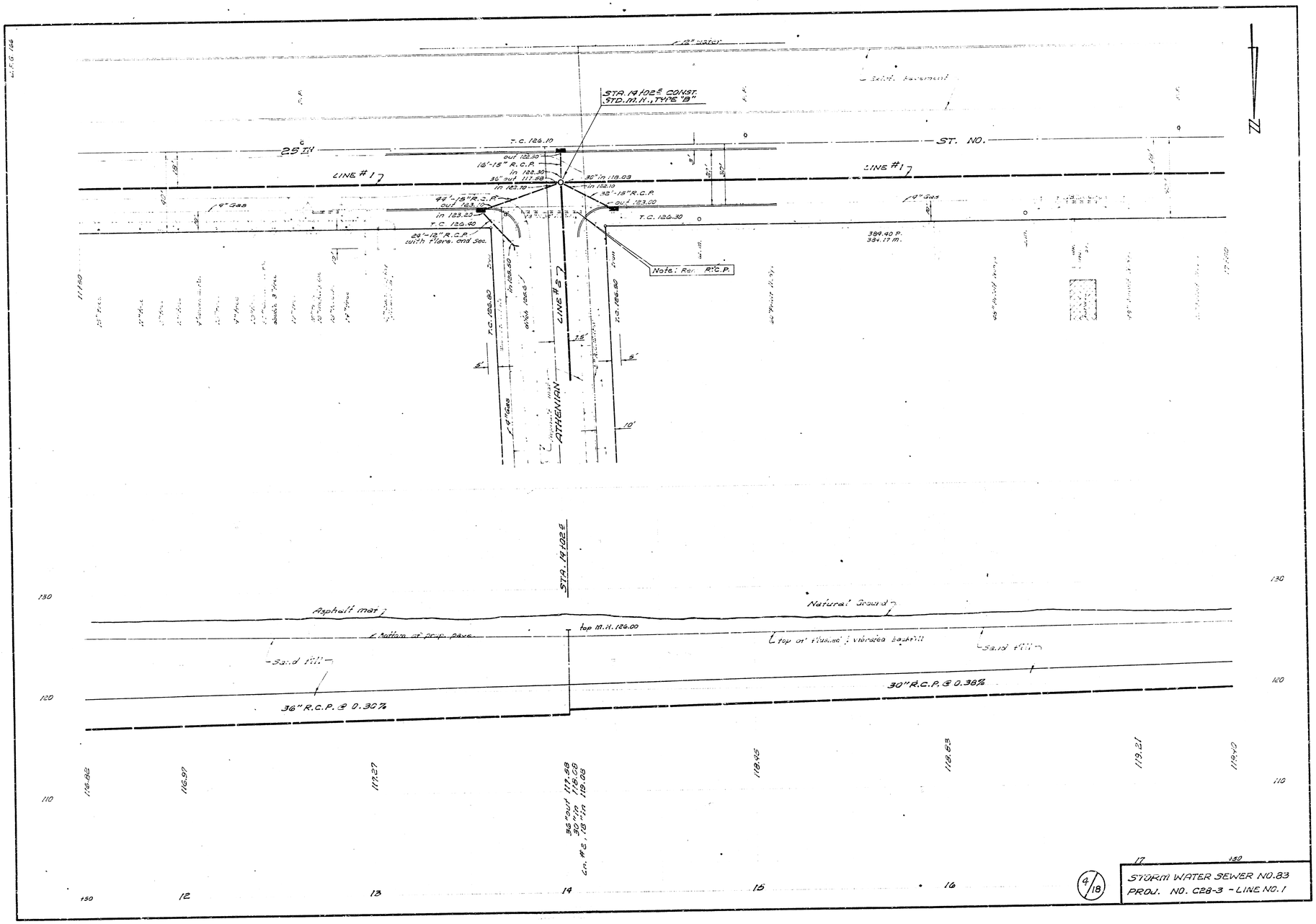


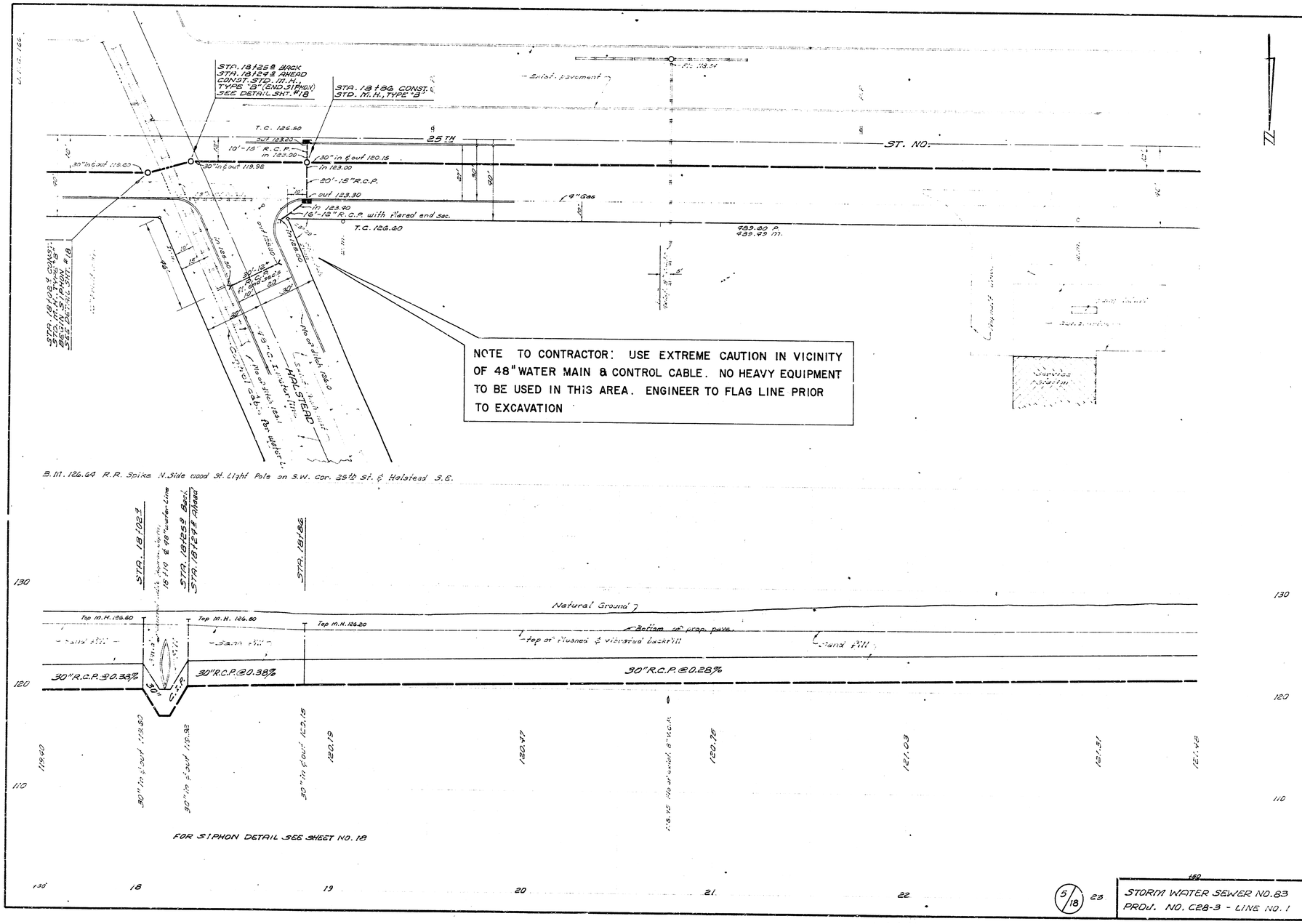
STORM WATER SEWER NO. 83
PROJ. NO. C28-3 - LINE NO. 1



11 (3/18)

STORM WATER SEWER NO. 83
PROJ. NO. C28-3 - LINE NO. 1


STA. 14+02.5 CONST. STD. M.H., TYPE "B"
T.C. 126.10
25°11'
ST. NO.
LINE #1
LINE #1
out 102.30
18'-15" R.C.P.
in 122.30
36" out 117.58
36" in 118.03
in 122.10
in 122.10
32'-18" R.C.P.
out 123.00
40'-15" R.C.P.
out 123.10
in 123.20
T.C. 126.40
T.C. 126.30
24'-12" R.C.P. with Flare end Sec.
9" Gas
9" Gas
12" Water
Note: Rem R.C.P.
384.40 P.
384.17 m.
LINE #2
ATHENIAN
T.C. 126.80
T.C. 126.80
5'
5'
7.5'
10'
STA. 14+02.5
Asphalt mat'l
Natural Ground
top M.H. 126.00
Bottom of prop. pave.
top of "Vibrated" Vibrated Earth fill
Sand fill
53.13' fill
36" R.C.P. @ 0.30%
30" R.C.P. @ 0.38%
130
120
110
116.82
116.97
117.27
36" out 117.58
30" in 118.03
Cl. "B", Type "A"
119.09
118.45
118.63
119.21
119.40
130
12
13
14
15
16
17
130
4/18
STORM WATER SEWER NO. 83
PROJ. NO. C28-3 - LINE NO. 1


STA. 18+125 ± BACK
STA. 18+23 ± AHEAD
CONST. STD. M.H. TYPE "B" (END 31 FT.W)
SEE DETAIL SHT. #18
STA. 18+96 CONST. ℄
STD. M.H. TYPE "B"
T.C. 126.50
25TH
ST. NO.
10'-15" R.C.P. in 121.00
30" in ℄ out 112.60
30" in ℄ out 119.98
30" in ℄ out 120.15
in 123.00
20'-15" R.C.P.
out 123.30
9" Gas
in 123.90
16'-13" R.C.P. with flared end sec.
T.C. 126.60
489.80 ℄
439.93 m.
in 125.60
out 125.80
in 128.90
30"-18" R.C.P. Reducer
10'-30" R.C.P.
4'-9" C.I. Inlet
No. on pitch 128.0
Sewer Pitch 1.0%
CONTROL CABLE for water
48" WATER MAIN
NOTE TO CONTRACTOR: USE EXTREME CAUTION IN VICINITY OF 48" WATER MAIN & CONTROL CABLE. NO HEAVY EQUIPMENT TO BE USED IN THIS AREA. ENGINEER TO FLAG LINE PRIOR TO EXCAVATION
B.M. No. 1 ELEV. 128.64
B.M. No. 2 ELEV. 128.64
B.M. No. 3 ELEV. 128.64
B.M. No. 4 ELEV. 128.64
B.M. No. 5 ELEV. 128.64
B.M. No. 6 ELEV. 128.64
B.M. No. 7 ELEV. 128.64
B.M. No. 8 ELEV. 128.64
B.M. No.

STA. 27+11.8 CONST.
STD. M.H., TYPE "B"

STA. 28+19 CONST.
STD. M.H., TYPE "B"

STA. 28+68 CONST.
STD. M.H., TYPE "B"

25TH ST. NO.

LINE NO. 1

LINE NO. 3

MERIDIAN

RICHMOND

30" in & out 131.68

30" in & out 132.19

30"-15" R.C.P.

10"-15" R.C.P.
33" out 128.38

out 129.40

out 126.20

in 123.80

in 127.30

out 127.14

9" Gas

T.C. 127.40

T.C. 127.20

42"-15" R.C.P.
in 124.10
24" in 125.50

178°53'

12" Water

8" Gas

12" Water

STA. 27+11.8

STA. 28+14

STA. 28+68

Natural Ground

top M.H. 127.10

top M.H. 127.00

top M.H. 127.00

Bottom of prop. pave.
(top of Flushed & Vibrated Backfill)

Sand Fill

Sand Fill

Sand Fill

30"R.C.P. @0.28%

30"R.C.P. @0.13%

30"R.C.P. @0.10%

24"R.C.P. @0.20%

30" in & out 131.68
Line #3 in 132.20

30" in & out 132.19

24" out 131.14
24" in 131.34

130

120

110

150

25

26

27

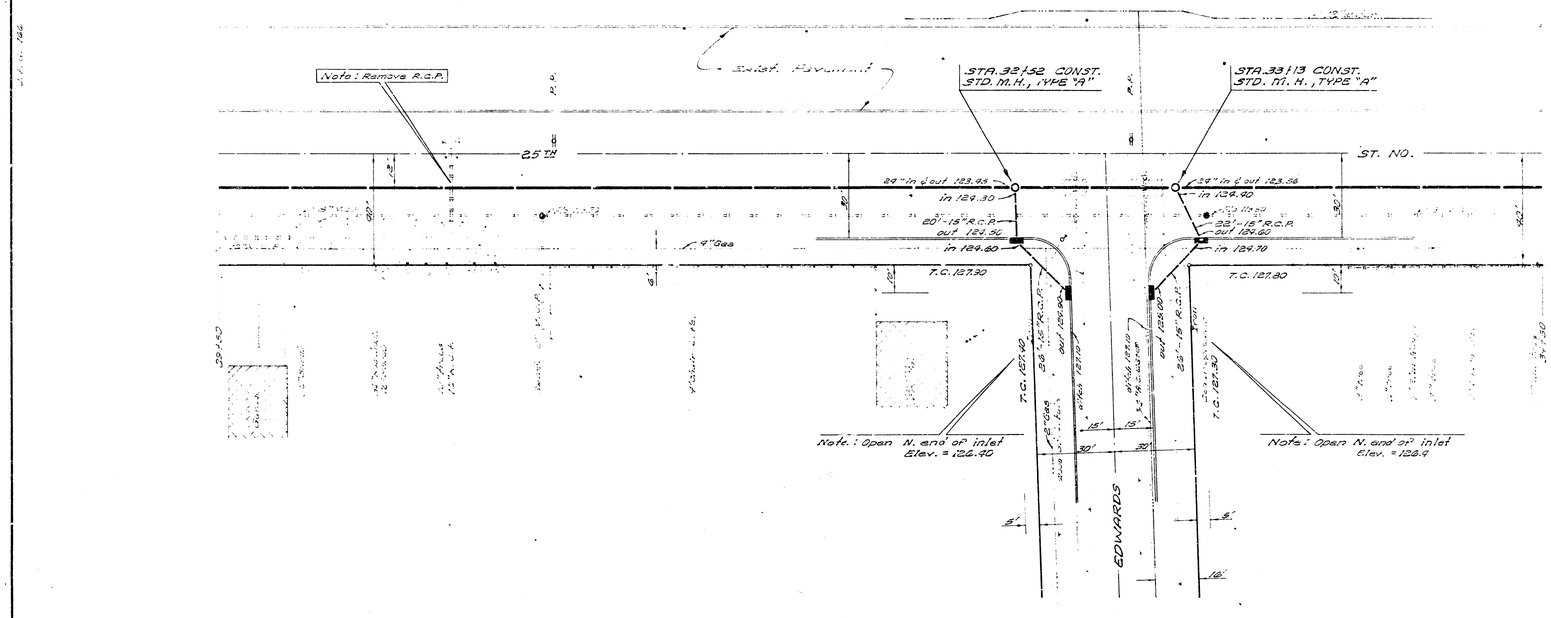
28

29

160

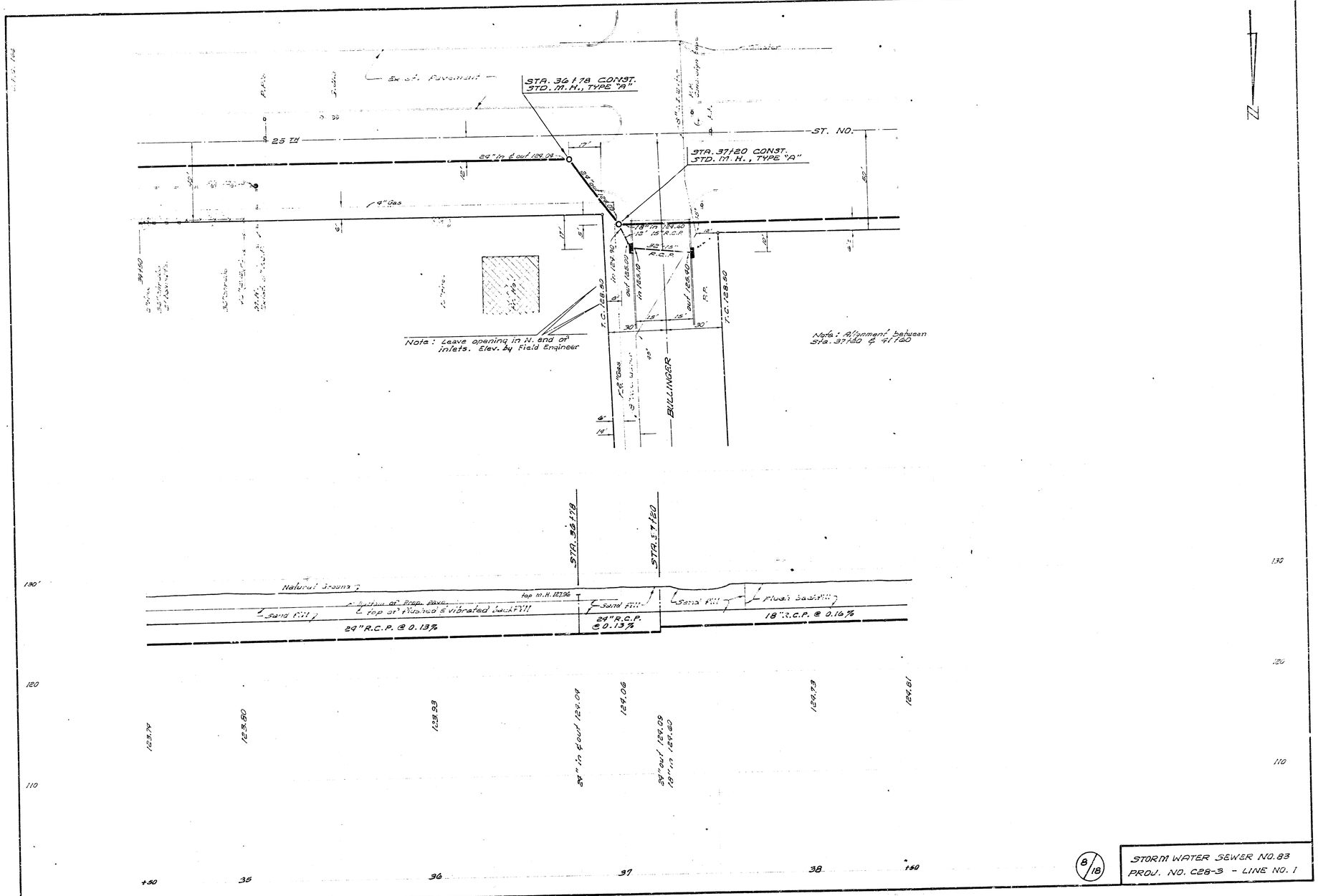
6/18

STORM WATER SEWER NO. 83
PROJ. NO. C28-3 - LINE NO. 1



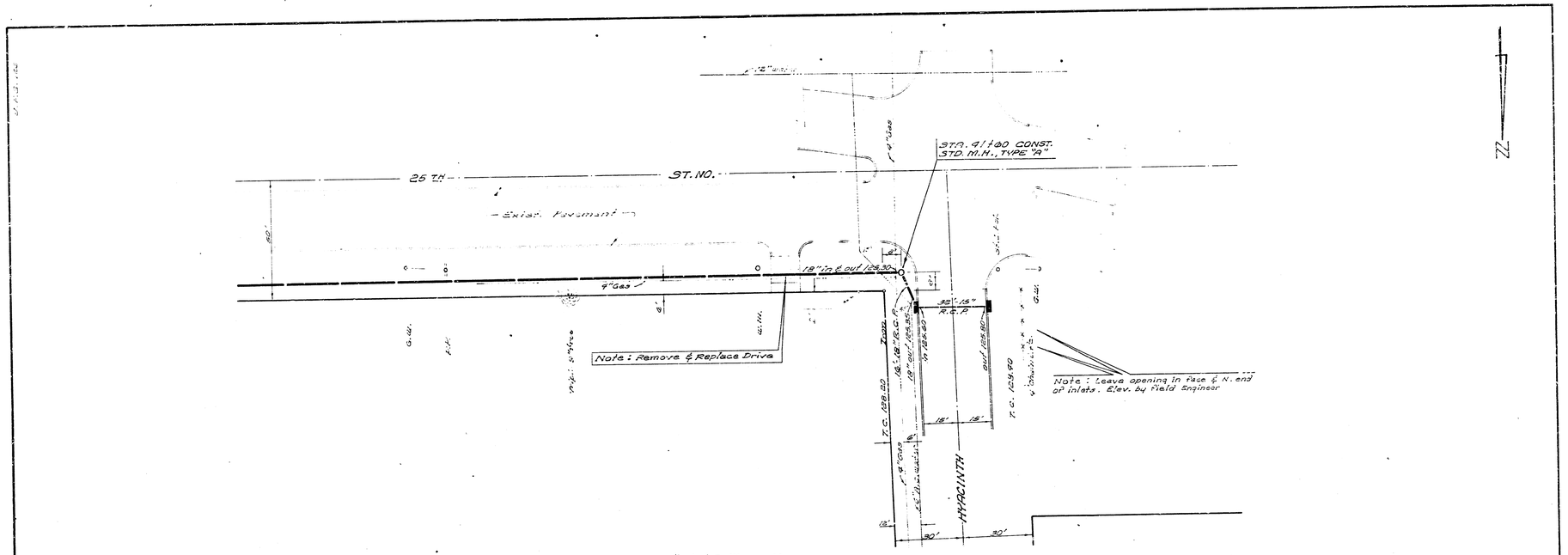
7/18

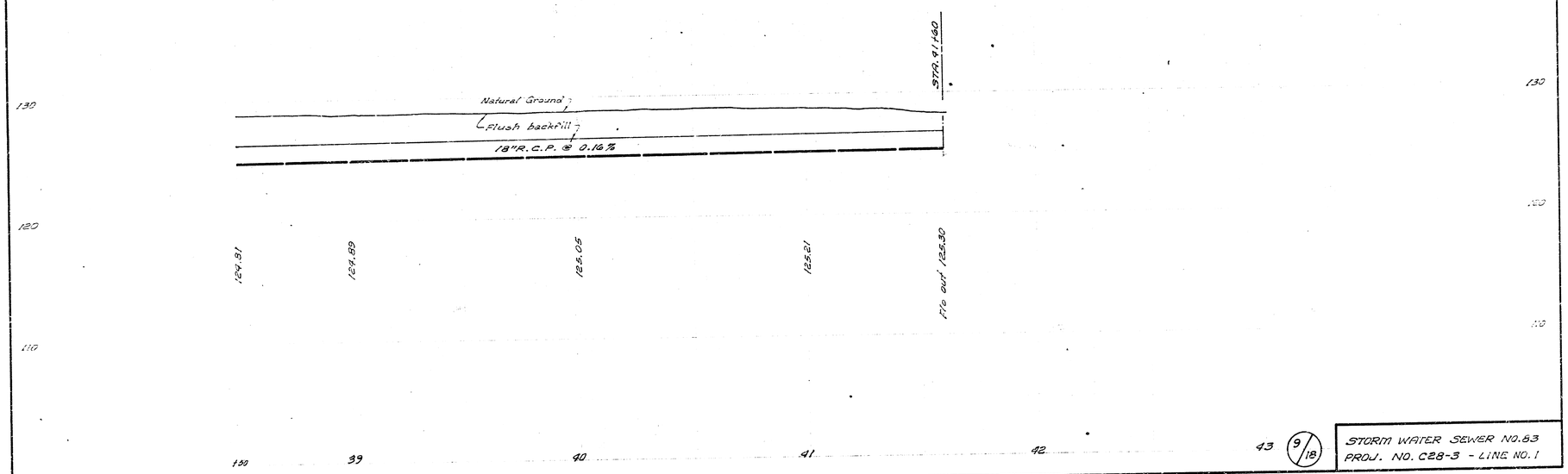
STORM WATER SEWER NO. 83
PROJ. NO. C28-3 - LINE NO. 1



8/18

STORM WATER SEWER NO. 83
PROJ. NO. C28-3 - LINE NO. 1





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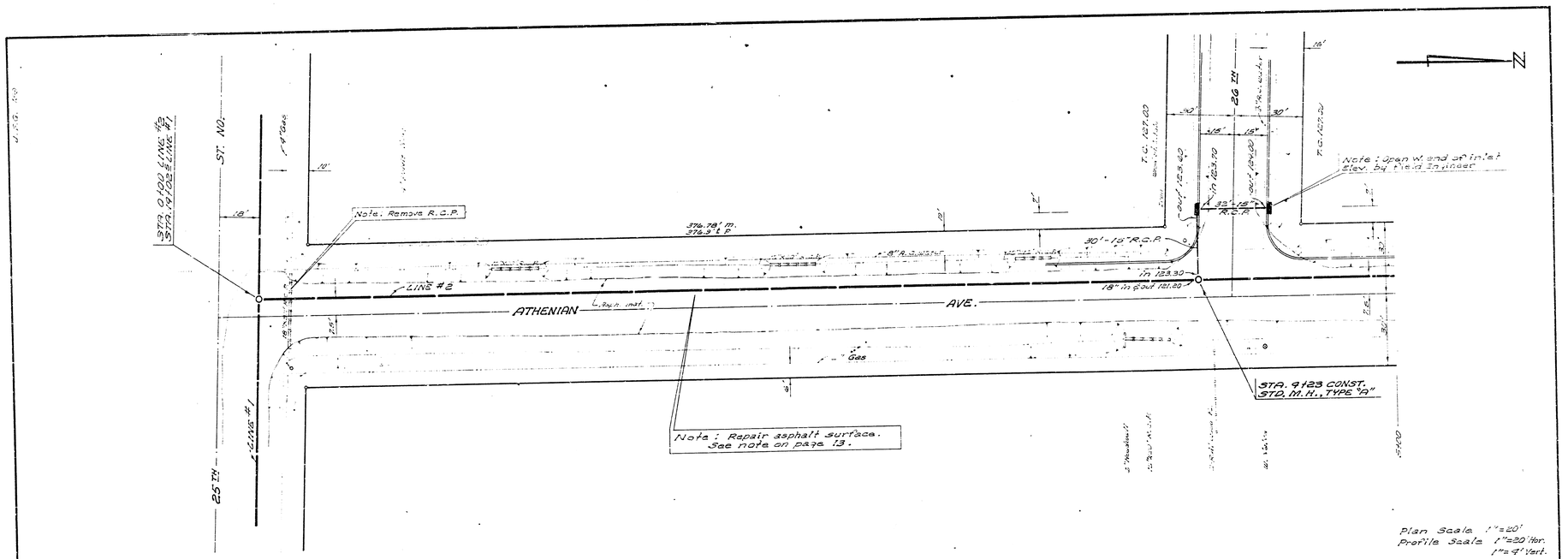
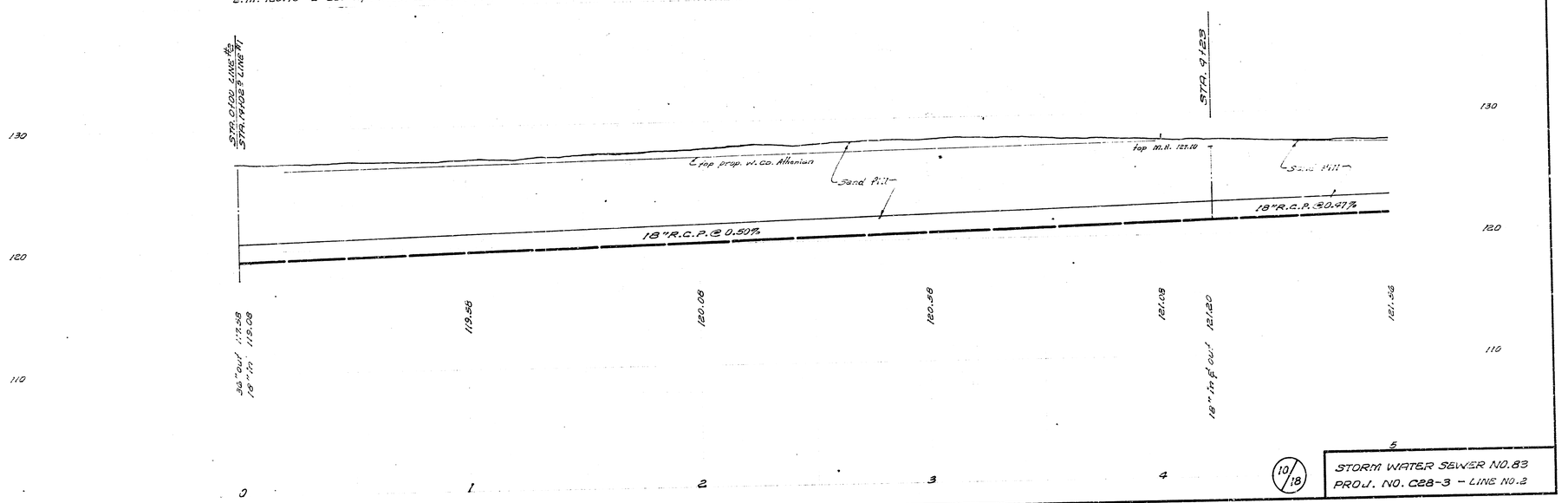
STORM WATER SEWER NO. 63
PROJ. NO. C28-3 - LINE NO. 1



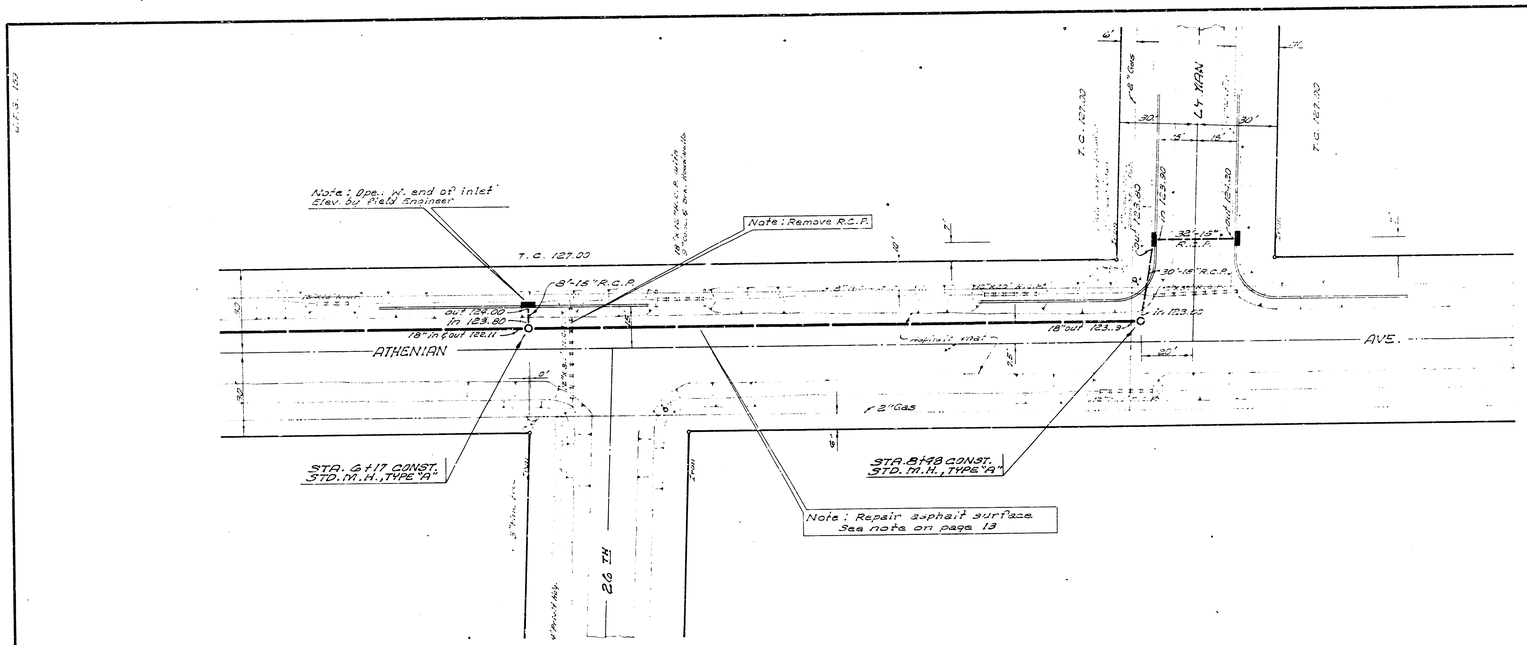
Plan Scale 1"=20'
Profile Scale 1"=20' Hor.
1"=4' Vert.

B.M. 125.93 "n" cut top. N. cb. 25th St. (3.1/2) @ E. L. Athenian N.



10/18

STORM WATER SEWER NO. 83
PROJ. NO. C28-3 – LINE NO. 2



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STORM WATER SEWER NO. 83
PROJ. NO. C28-3 - LINE NO. 2

STORM WATER SEWER NO. 83
PROJ. NO. 228-3 - LINE NO. 3

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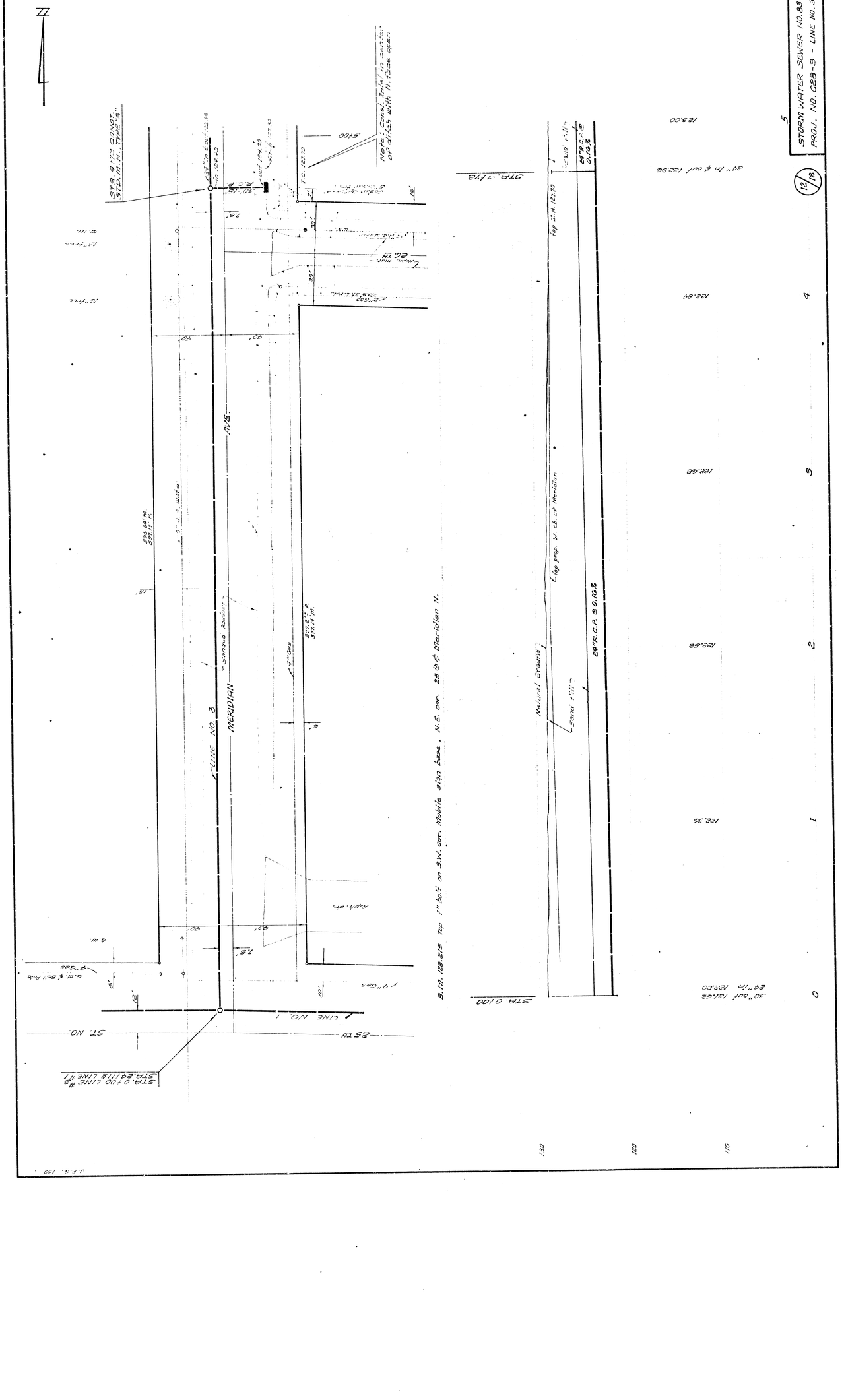

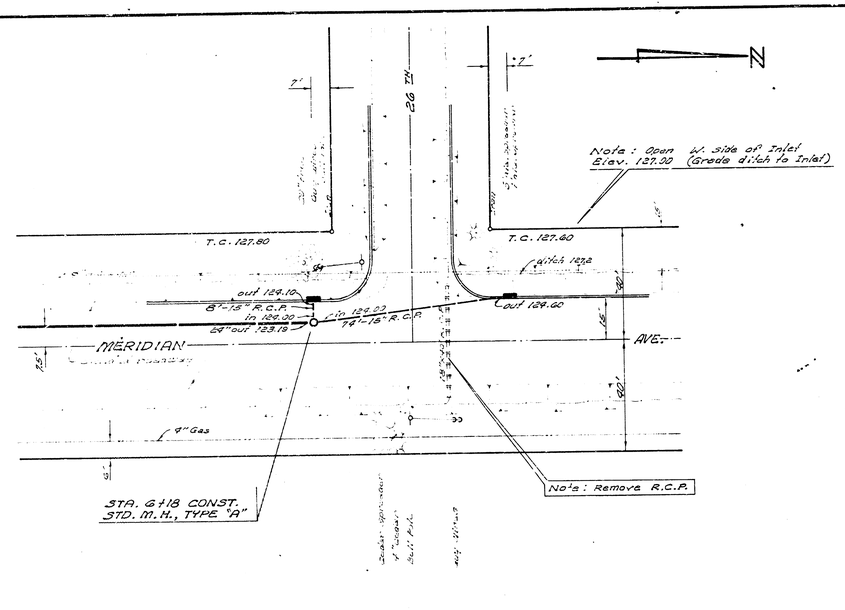

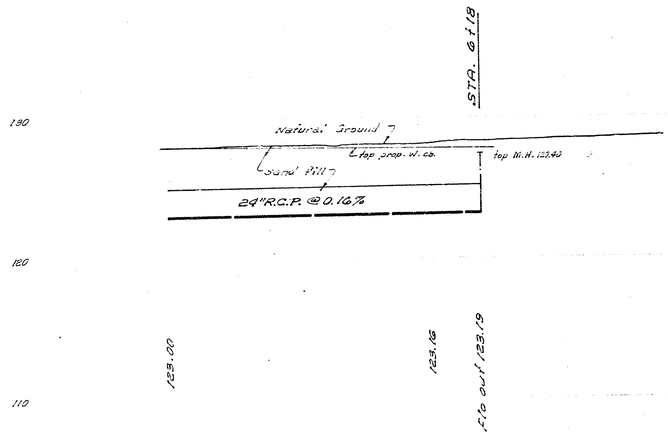

GENERAL NOTES

Flush all backfill. Cost of flushing is to be included in bid price of pipe. If excavated material is unsuitable for backfill, sand fill will be used. Compact the backfill around manholes and inlets. The cost of compacting backfill is to be included in the bid price of the structure.

The 30" siphon shall be a lump sum bid item, excluding manholes. 30" C.I.P., 30" elbows, & sack back fill, etc. shall be included in lump sum bid.

Contractor shall grade ditches to tie into inlets as directed by Field Engineer. Field Engineer is to determine location & elevation of inlet opening.

Flared end sections to be included in bid prices of pipe.

Asphalt surface streets are to be replaced with 2" thick asphaltic concrete, & 6" thick (min.) layer of earth is to be compacted on top of the sand backfill as subgrade for the 2" asphaltic surface. Cost of compacting the earth base is incidental to the project. Asphalt surface removed to be a non pay item.

Culvert pipes abandoned in place shall be plugged as directed by Field Engineer. Field Engineer shall determine replacement of culverts.

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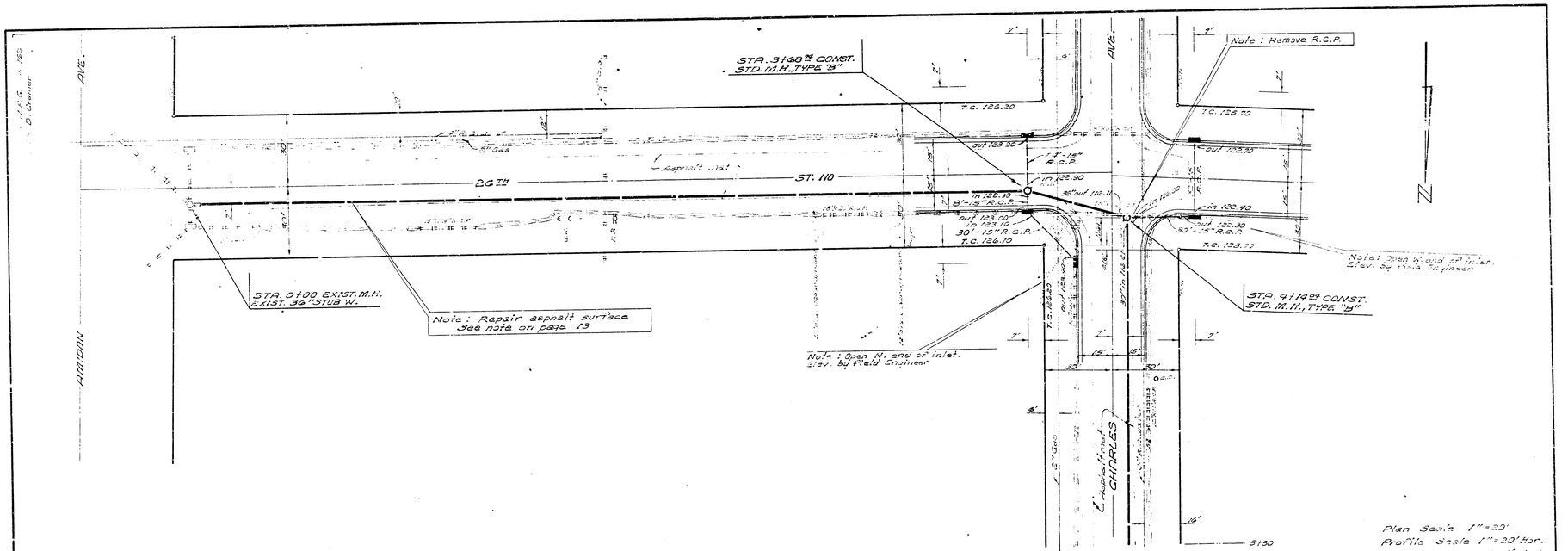
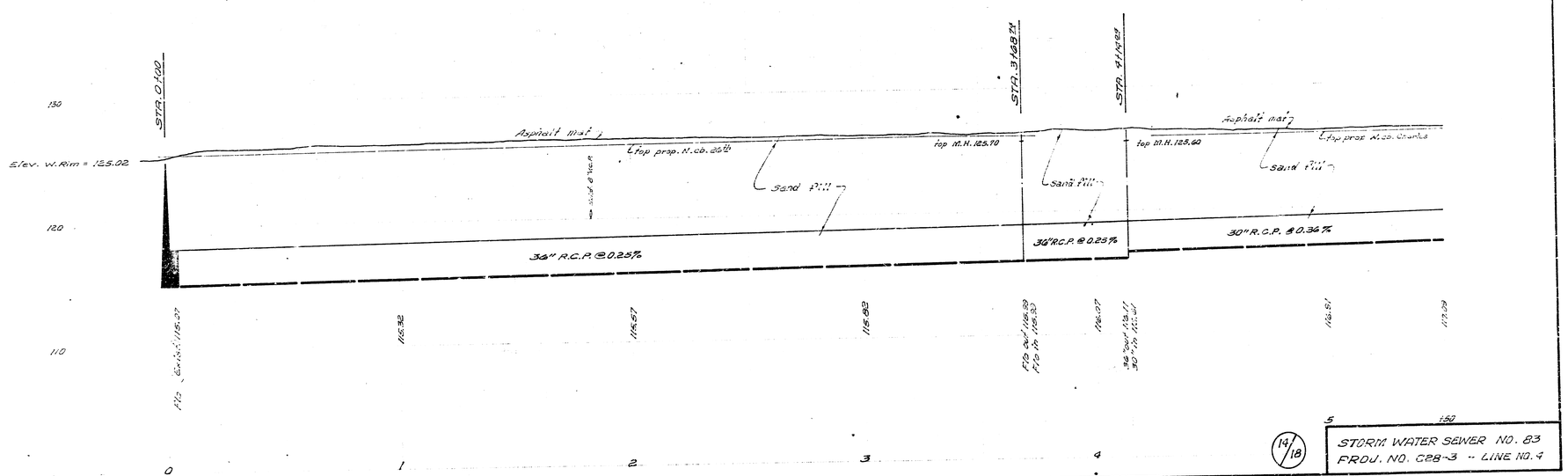
STORM WATER SEWER NO. 83
PROJ. NO. C28-3 - LINE NO. 3

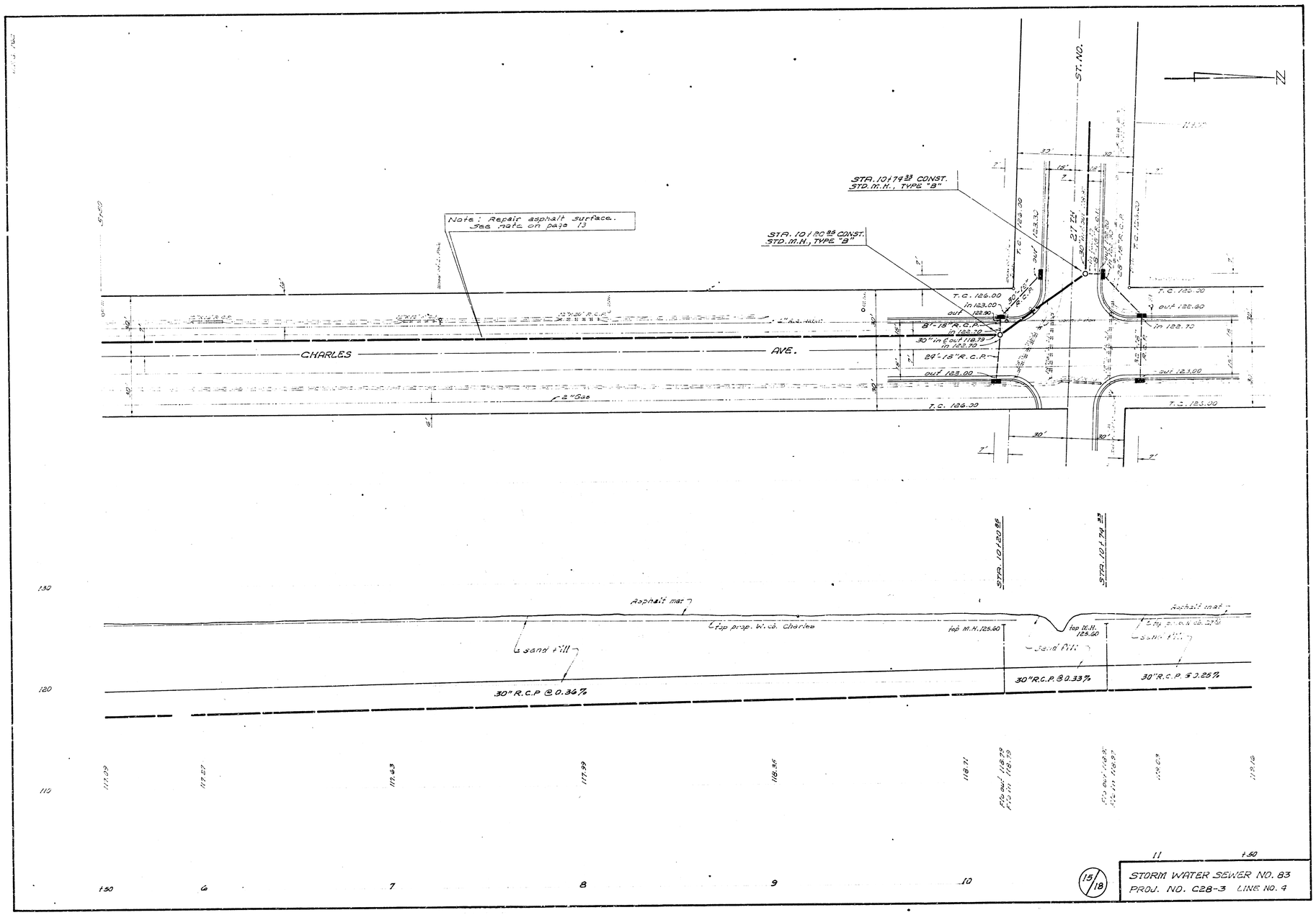


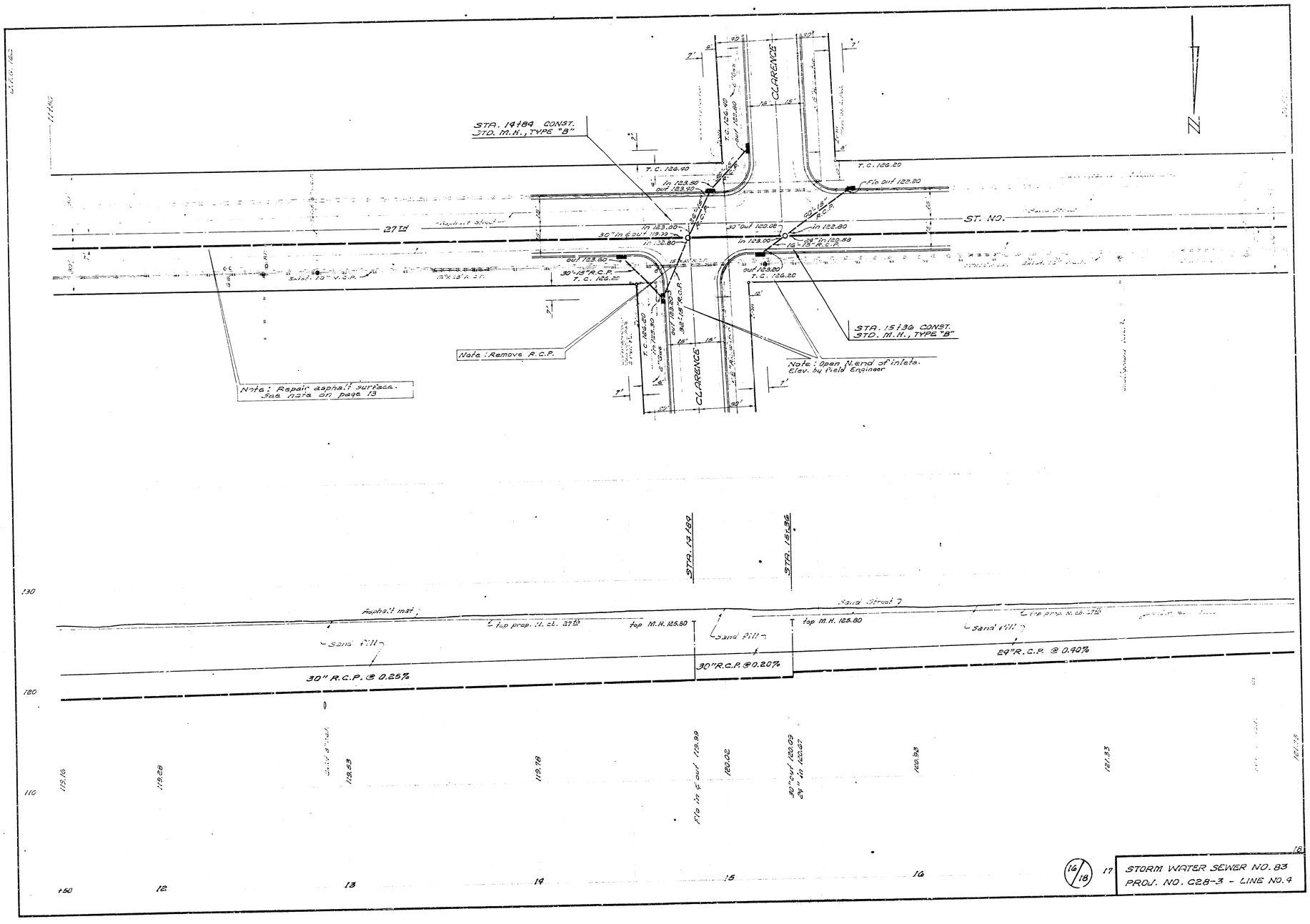
B.M. 126.39 City Std. @ Amidon & 25th
B.M. 126.23 "X" cut on N.W. cor. conc. sign base on S.E. cor. Amidon & 26th St.
B.M. 125.85 P.R. Spike on N.E. side P. Pole N.E. cor. 25th St. & Charles



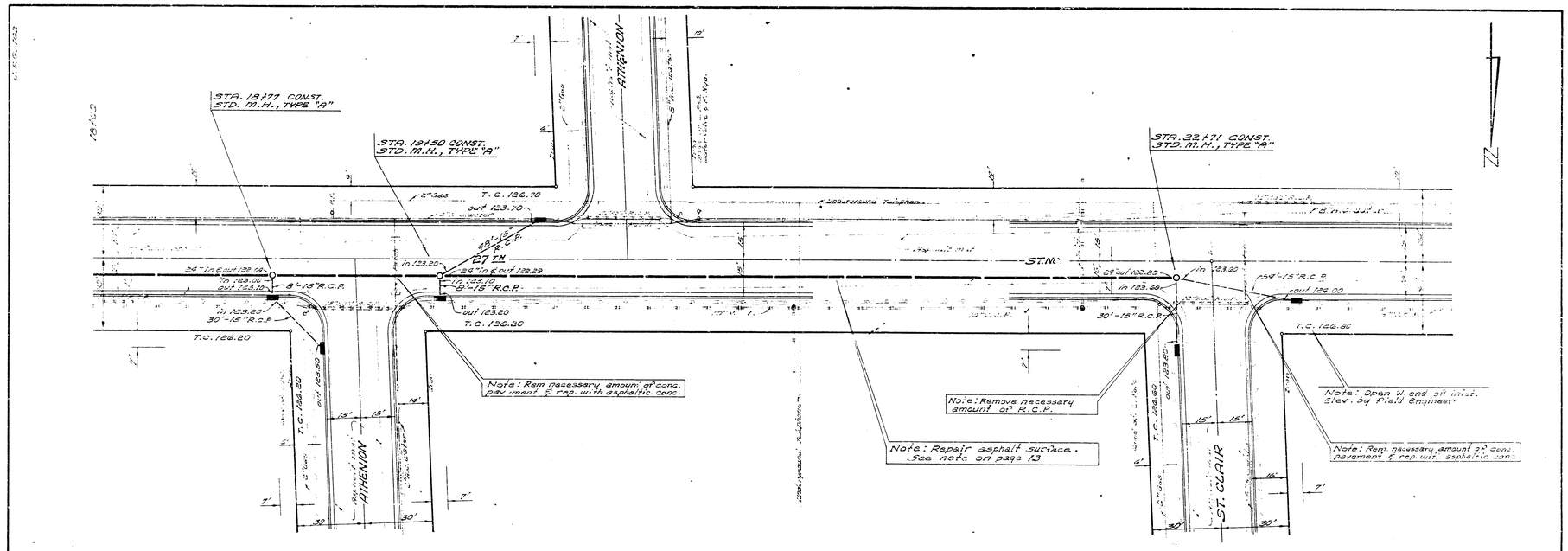
14/18

STORM WATER SEWER NO. 83
PROJ. NO. C28-3 -- LINE NO. 4

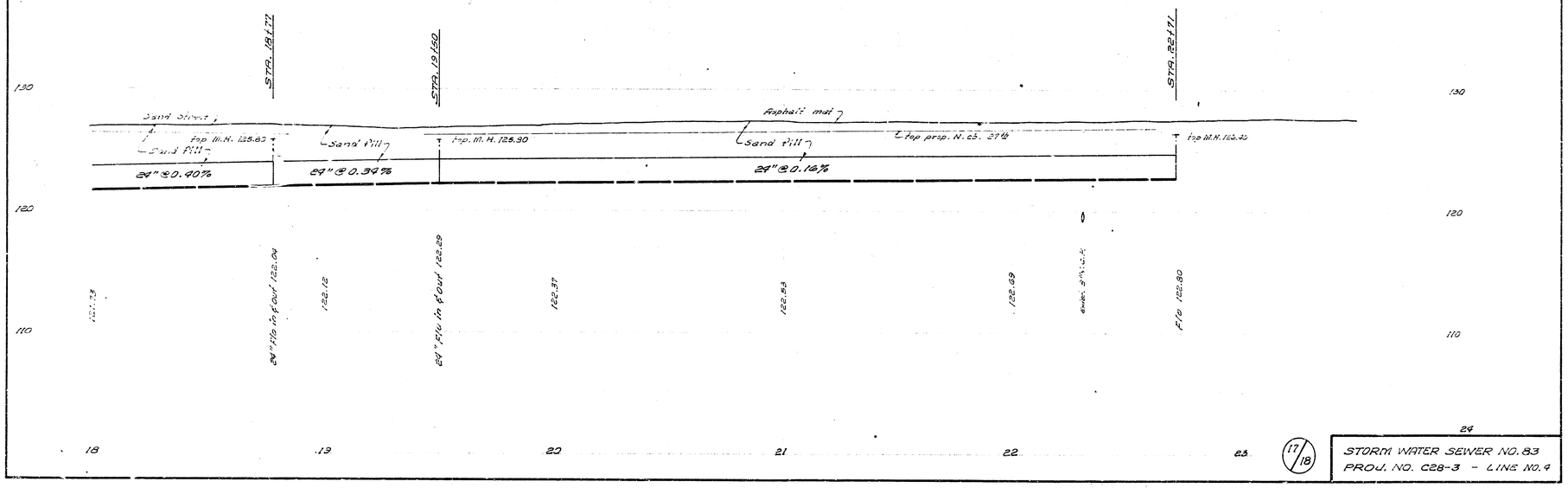

Note : Repair asphalt surface.
See note on page 13
STA. 10+79.33 CONST.
STD. M.H., TYPE "B"
STA. 10+20.85 CONST.
STD. M.H., TYPE "B"
ST. NO.
CHARLES AVE.
T.C. 126.00
in 123.00
out 122.90
81'-18" R.C.P.
in 122.70
30" in & out 118.79
in 122.70
24'-18" R.C.P.
out 123.00
T.C. 126.00
T.C. 125.00
out 122.60
in 122.70
out 123.00
T.C. 125.00
T.C. 123.30
T.C. 123.30
2" Gas
Asphalt mat
Rip rap p. w. co. Charles
Sand Fill
30" R.C.P. @ 0.36%
tap M.H. 125.60
tap M.H. 125.60
30" R.C.P. @ 0.33%
30" R.C.P. @ 0.25%
STA. 10+20.85
STA. 10+79.33
130
120
110
117.09
117.87
117.83
117.99
118.36
118.71
118.79
118.79
118.97
118.97
119.16
+50
6
7
8
9
10
11
+50
15/18
STORM WATER SEWER NO. 83
PROJ. NO. C28-3 LINE NO. 4



STORM WATER SEWER NO. 83
PROJ. NO. C28-3 - LINE NO. 4



B.M. 129.335 N.E. Cor. conc. porch house #2201 W. 27th St. No.



STORM WATER SEWER NO. 83
PROJ. NO. C28-3 - LINE NO. 9

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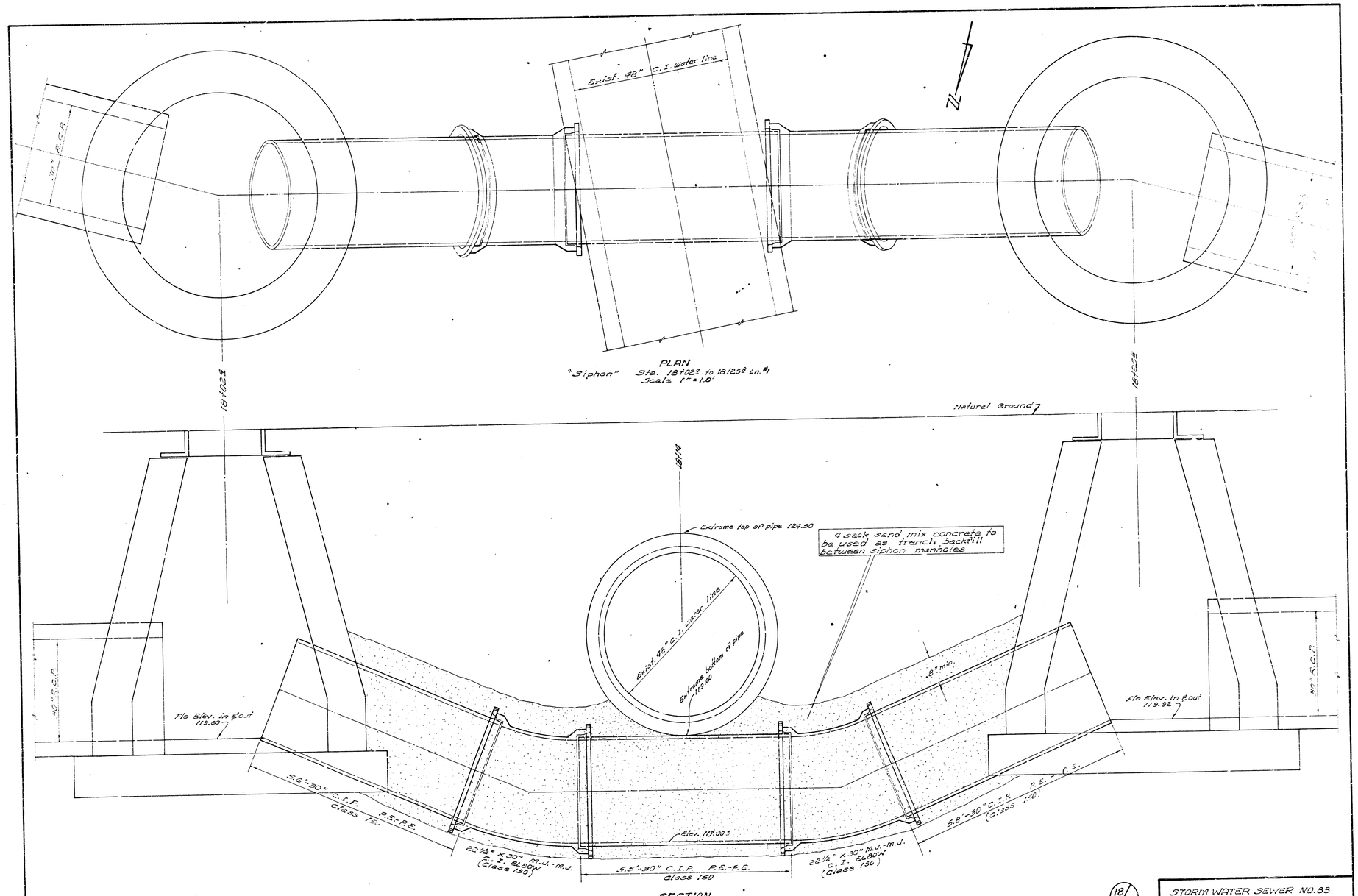

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STORM WATER SEWER NO. 83
PROJ. NO. C28-3 (SIPHON DETAIL)