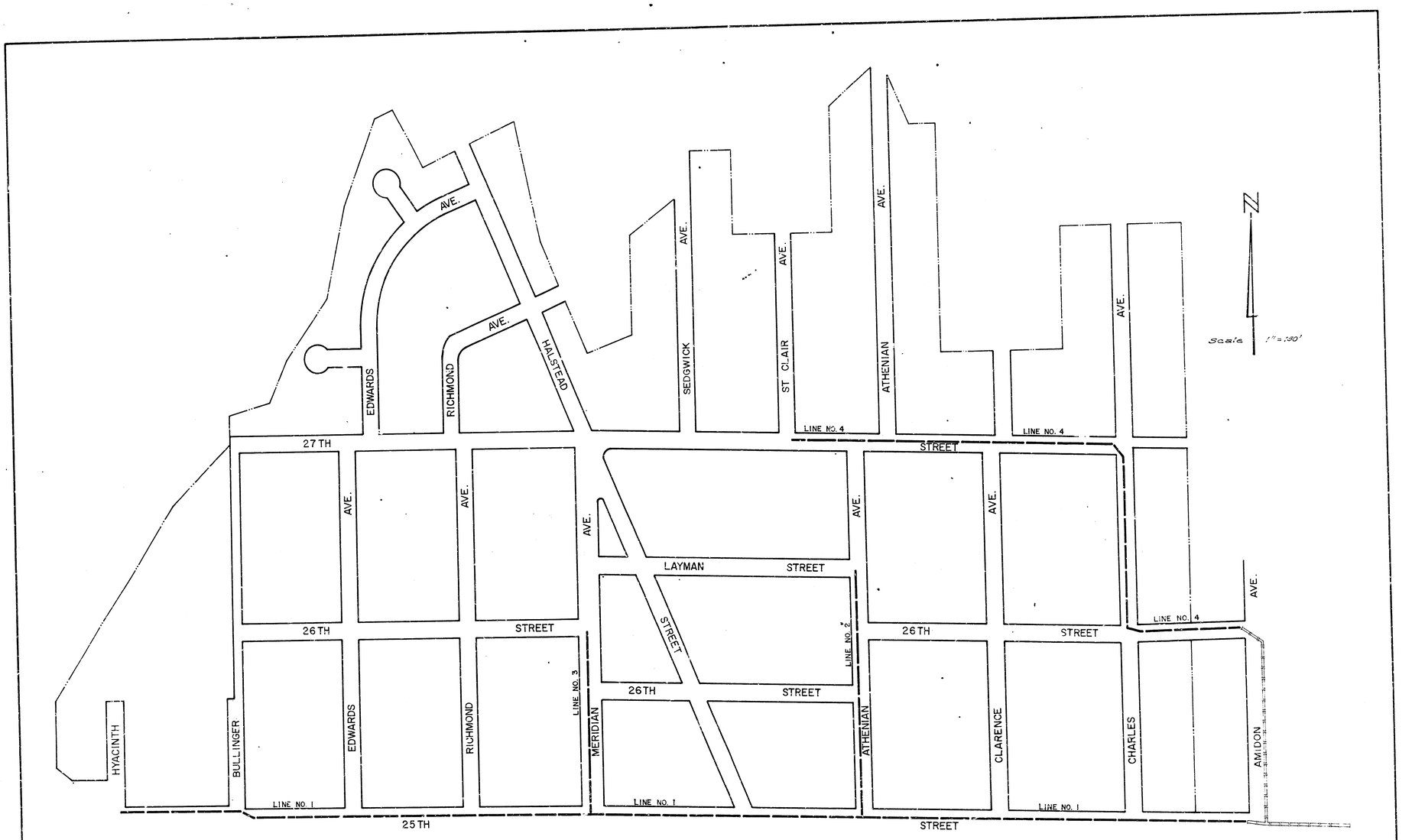
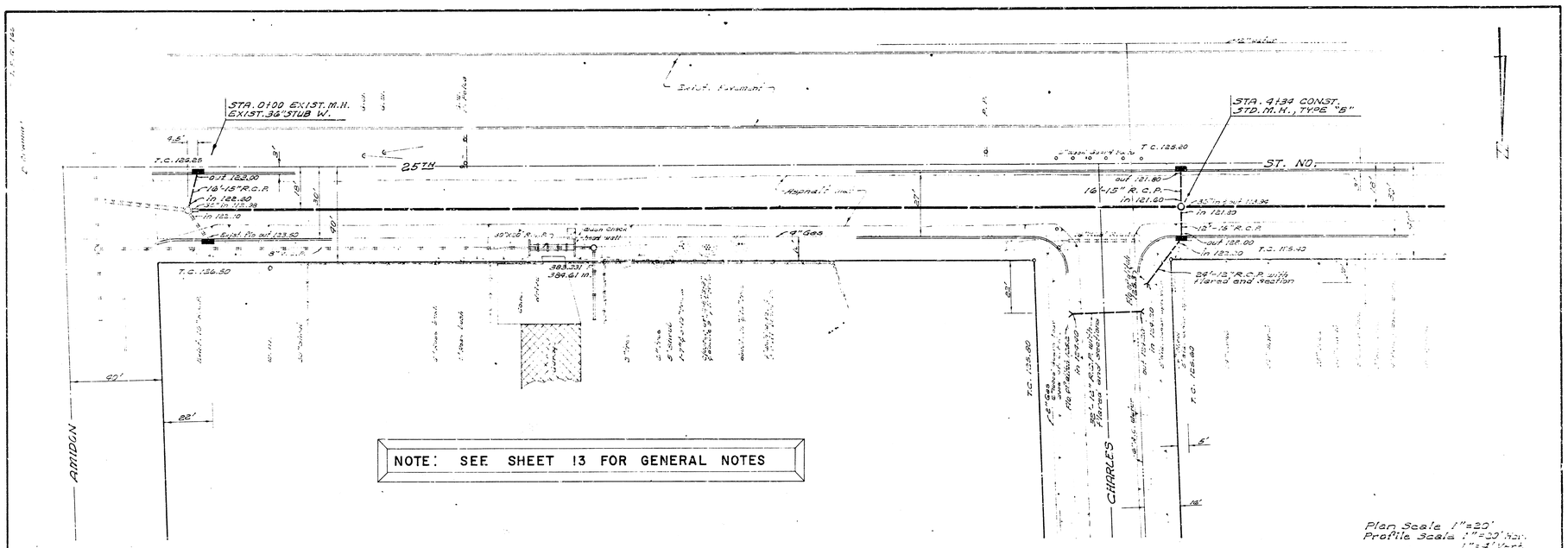


STORM WATER SEWER NO. 83

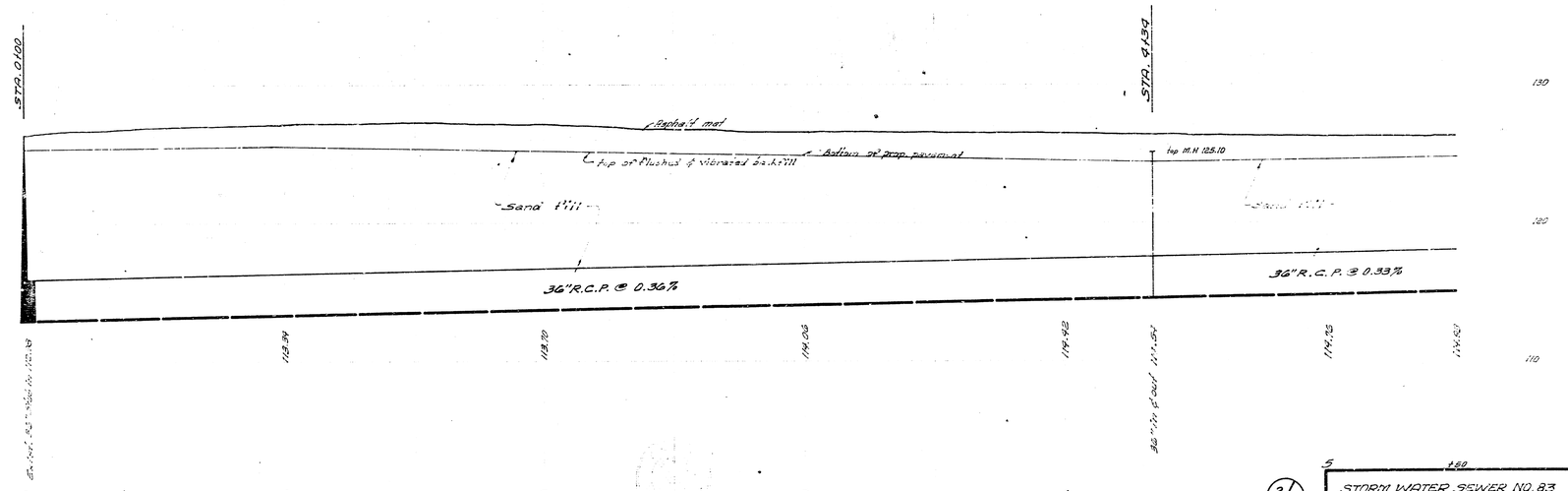
CITY OF WICHITA, KANSAS - B.E. SMITH, CITY ENGINEER

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



2/18

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

STA. 8+82 CONST. STD. M.H., TYPE "B"

12" water

Inlet c.s. flow

ST. NO.

25 TH

Asphalt mat

18'

60'

35" in & out 116.02

in 122.30

32"-15" R.C.P.

9" Gas

437.50 P.
437.97 m.

437.50 P.
437.98 m.

Note: Inlet opening on N. Face. Elev. = 125.9 No in.

Note. Inlet opening on W. Face. Elev. = 126.00 No in

F.C. 126.30

F.C. 126.60

out 125.82

in 125.30

32"-15" R.C.P.

15'

18'

CLARENCE

30'

30'

4'

STA. 8+82

Asphalt mat

Top M.H. 126.20

Bottom of prep. pavement

Top of Plums Viborad Concrete

Sand Fill

36" R.C.P. @ 0.33%

36" R.C.P. @ 0.30%

36" in & out 116.02

114.93

115.09

115.46

115.76

116.07

116.37

116.67

116.82

130

120

110

150

6

7

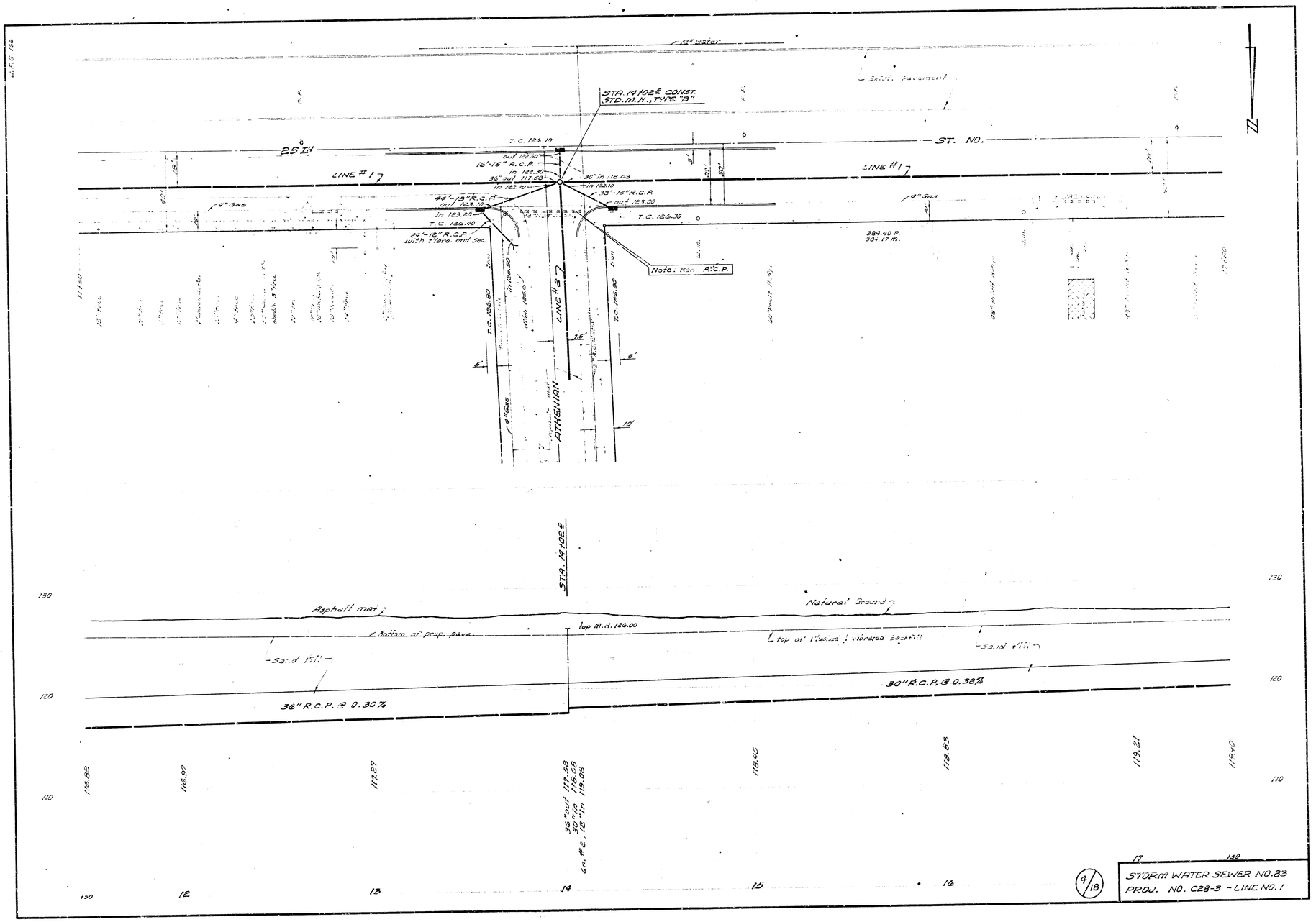
8

9

10

11 3/18

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



4/18

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

STA. 18+125 ± BACK
STA. 18+128 AHEAD
CONST. STD. M.H.
TYPE "B" (END 31 FHWA)
SEE DETAIL SHT. #18

STA. 18+96 CONST. ℄
STD. M.H. TYPE "B"

T.C. 126.80

25TH

ST. NO.

10'-15" R.C.P. in 121.00

30" in ℄ out 120.15

30" in ℄ out 119.98

in 183.00

20'-15" R.C.P.

out 123.90

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 125.80

4'-9" C.I. Manhole

No. on pitch 138.0

CONTROL CABLE for water

HALSTEAD

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. 126.64 R.R. Spike N. Side wood St. Light Pole on S.W. cor. 25th St. & Halstead S.E.

STA. 18+102.5

STA. 18+125 ± Back

STA. 18+129 ± Ahead

STA. 18+86

Natural Ground

Top M.H. 126.60

Top M.H. 126.60

Top M.H. 126.20

Bottom of prop. pave.

Top of Flushed & vibrated backfill

Sand Fill

30"R.C.P. @ 0.33%

30"R.C.P. @ 0.38%

30"R.C.P. @ 0.28%

30" C.I.P.

130

120

110

30" in ℄ out 119.80

30" in ℄ out 119.82

30" in ℄ out 120.15

120.19

120.42

No. on pitch 8" W.M.V.

120.78

121.03

121.31

121.48

FOR SIPHON DETAIL SEE SHEET NO. 18

18

19

20

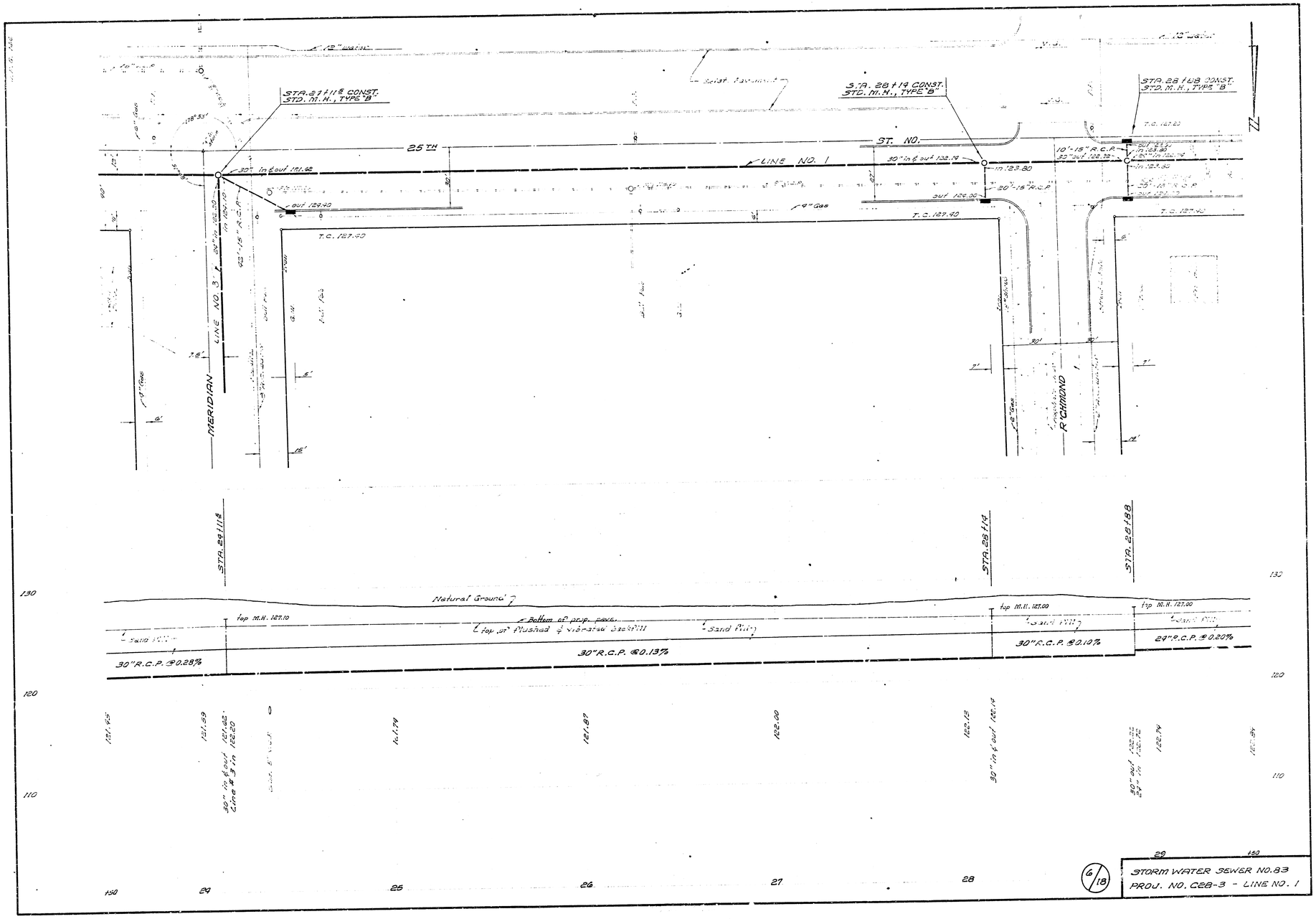
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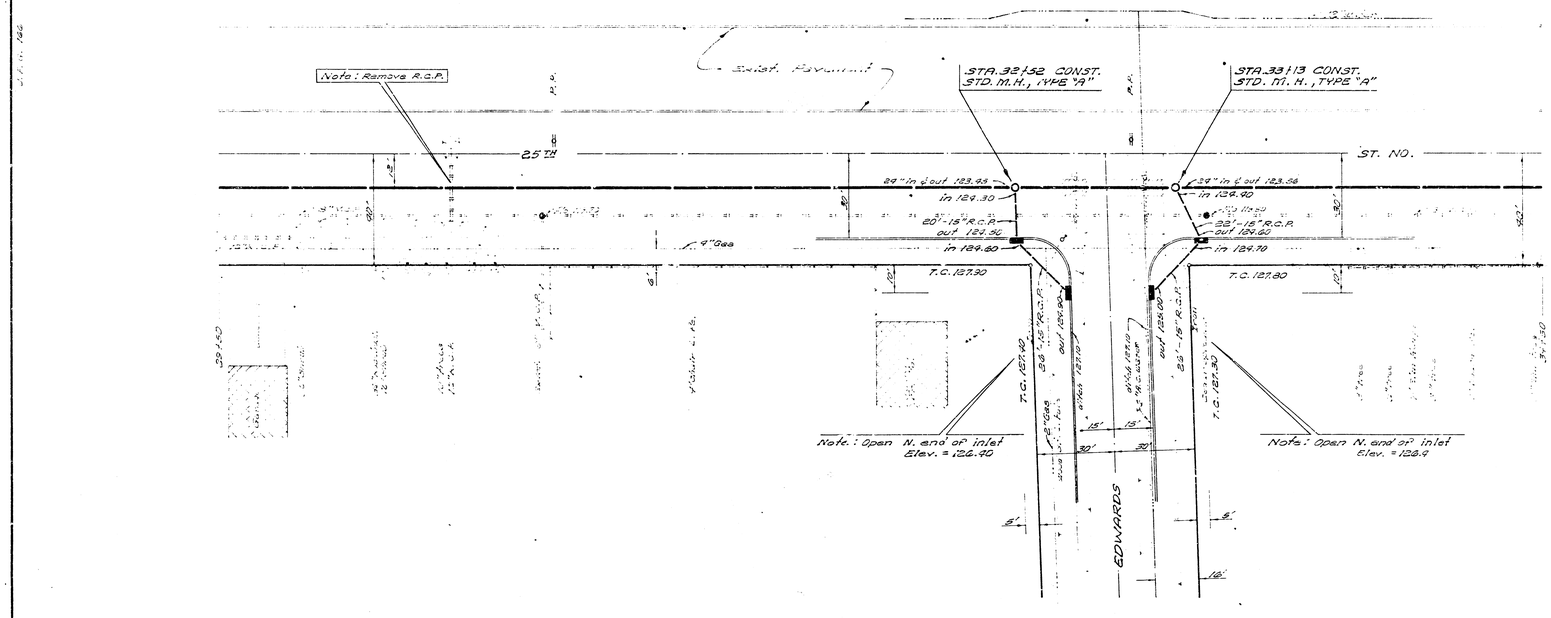
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5/18

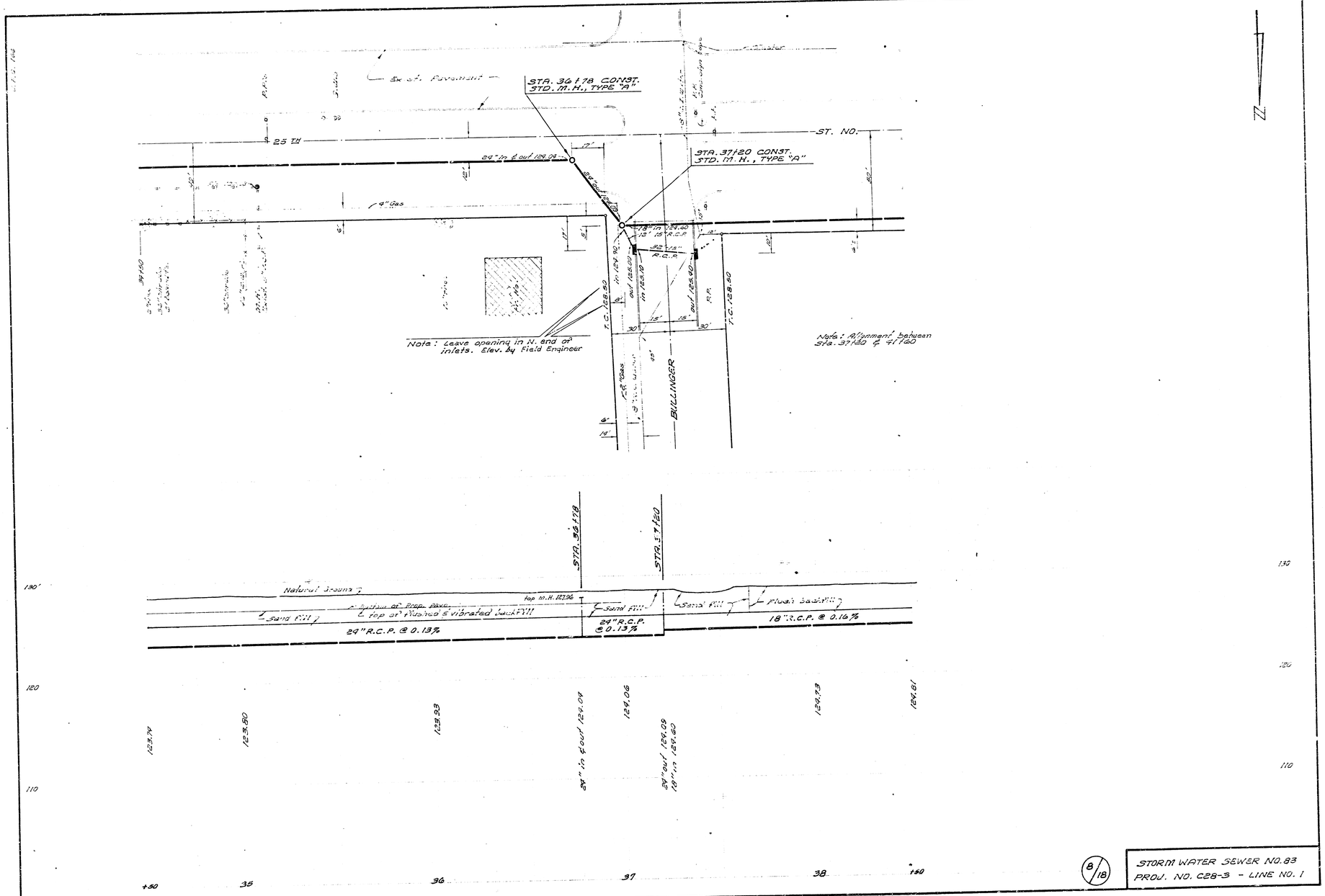
STORM WATER SEWER NO. 83
PROJ. NO. C28-3 - LINE NO. 1


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 121.68
30" in & out 122.19
30"-15" R.C.P.
10"-15" R.C.P.
33" out 122.32
out 129.40
out 126.20
in 123.80
in 123.30
in 124.10
out 124.30
out 121.7
T.C. 127.40
T.C. 127.20
T.C. 127.90
9" Gas
12" Water
8" Gas
Natural Ground
Bottom of prop. pave.
(top of Flushed & Vibrated Backfill
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%
top M.H. 127.10
top M.H. 127.00
top M.H. 127.00
STA. 27+11.8
STA. 28+19
STA. 28+68
30" in & out 121.68
Conc. # 3 in 122.20
30" in & out 122.19
121.59
121.79
121.89
122.00
122.18
122.34
121.95
130
120
110
150
29
25
26
27
28
160
6/18
STORM WATER SEWER NO.83
PROJ. NO. C28-3 - LINE NO. 1



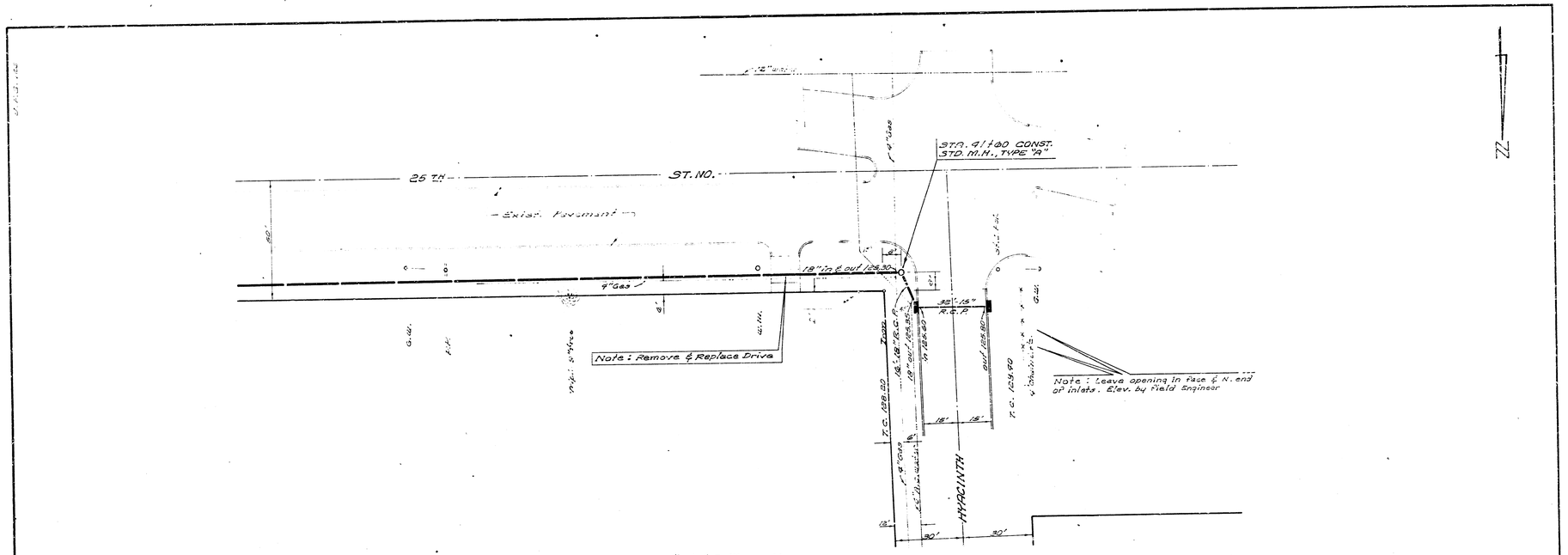
STORM WATER SEWER NO. 83
PROJ. NO. C28-3 - LINE NO. 1

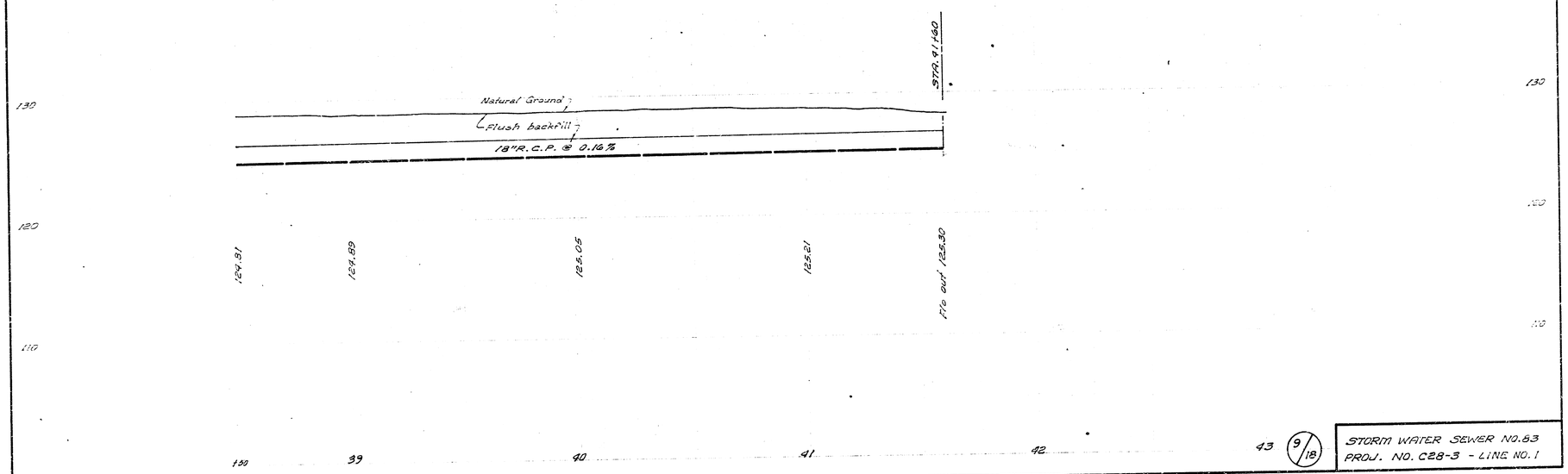
7/18



8/18

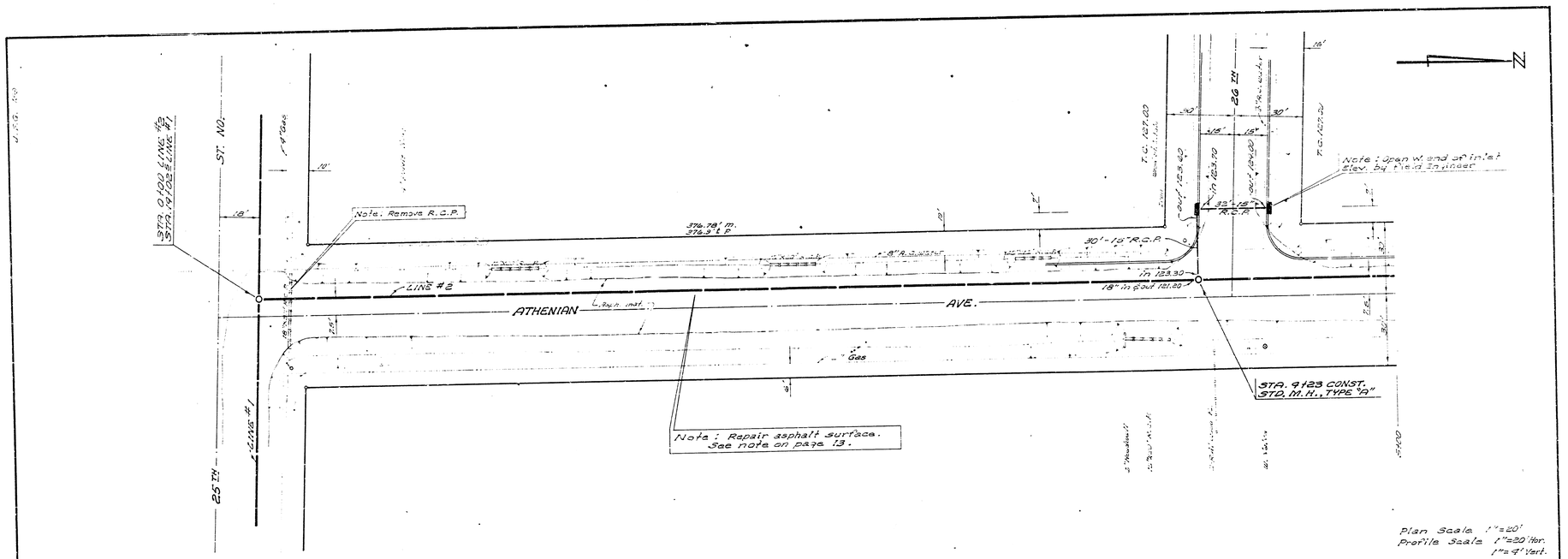
STORM WATER SEWER NO. 83
PROJ. NO. C28-3 - LINE NO. 1





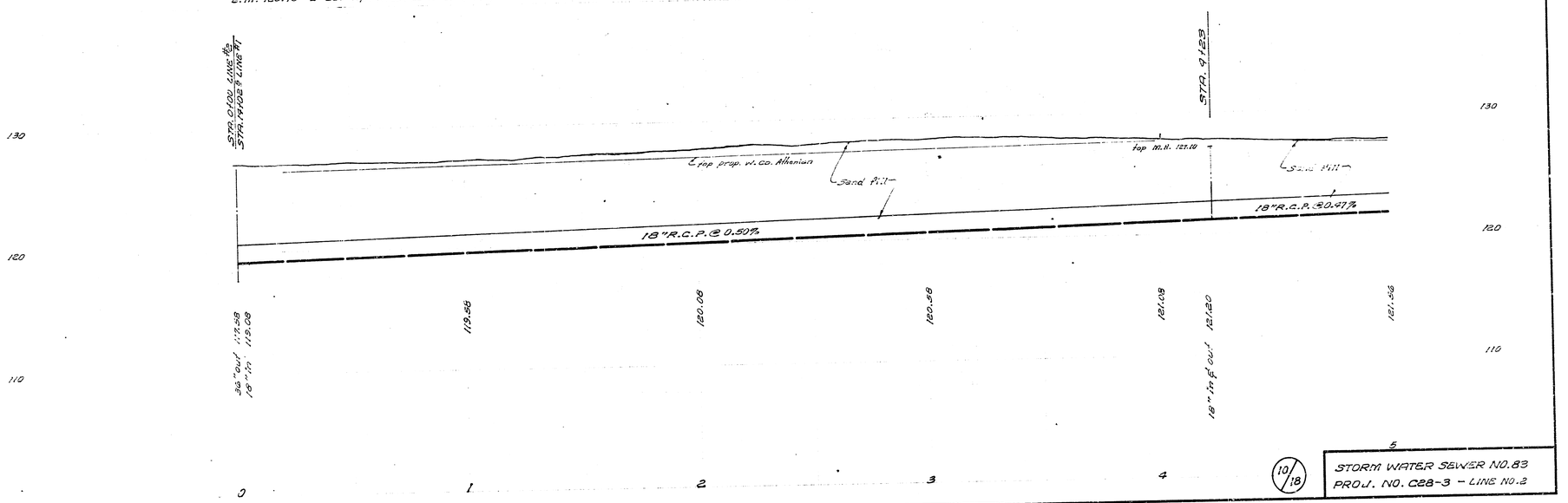
9/18

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



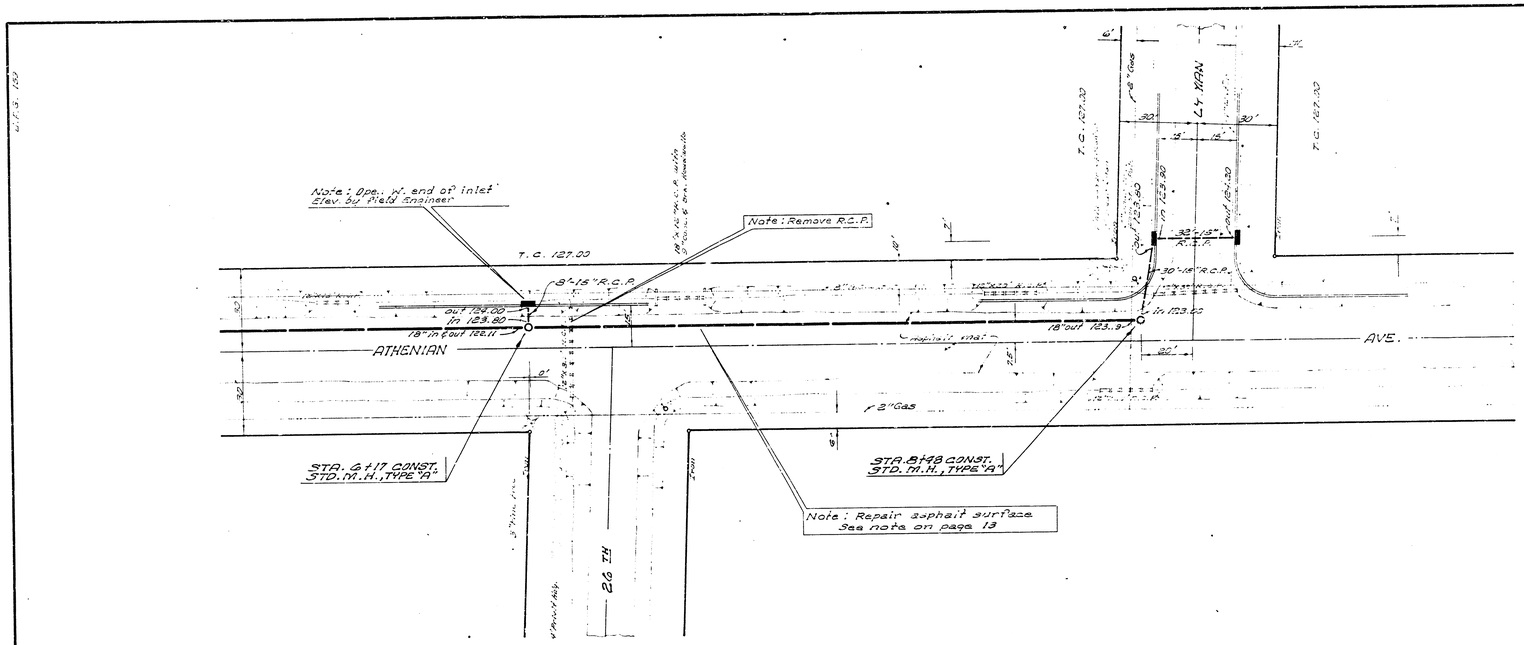
Plan Scale 1"=20'
Profile Scale 1"=20' Hor.
1"=4' Vert.

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



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



11/18

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

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

12/18

STA. 0+00 LINE #3
STA. 29+15 LINE #1

STA. 1+72

STA. 0+00

B.M. 128.215 Top 1" bolt on S.W. cor. Mobile sign base, N.E. cor. 25th & Meridian N.

Note: Const. Inlet in center of 6'-6" with N. side open

STA. 0+72 CONST. STA. 1+72, LINE #3

Natural Ground

Sand Hill

Top Pipe

24" R.C.P. @ 0.16%

30" out 127.62
24" in 127.50

24" in & out 122.96

163.00

126.68

122.68

122.58

122.36

25TH ST.

ST. NO.

LINE NO. 1

LINE NO. 3 MERIDIAN

Sewer Easement

3" Gas

3" Gas

4" Gas

G.W. & 8in. Pole

G.W.

Apple Orchard

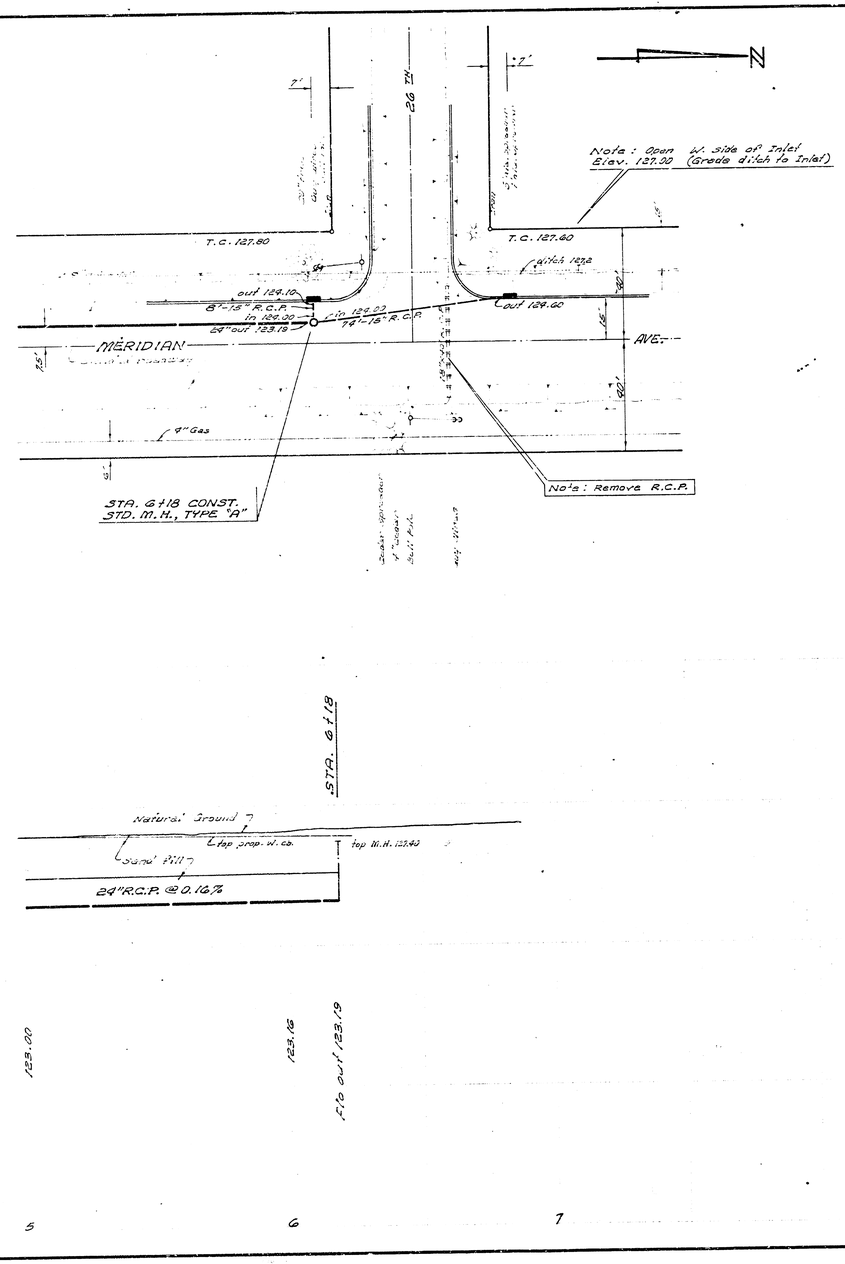
Const. Limit

Const. Limit

Top Bank

Top Bank

Top Bank



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, & sand back fill, etc. shall be included in lump sum bid.

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

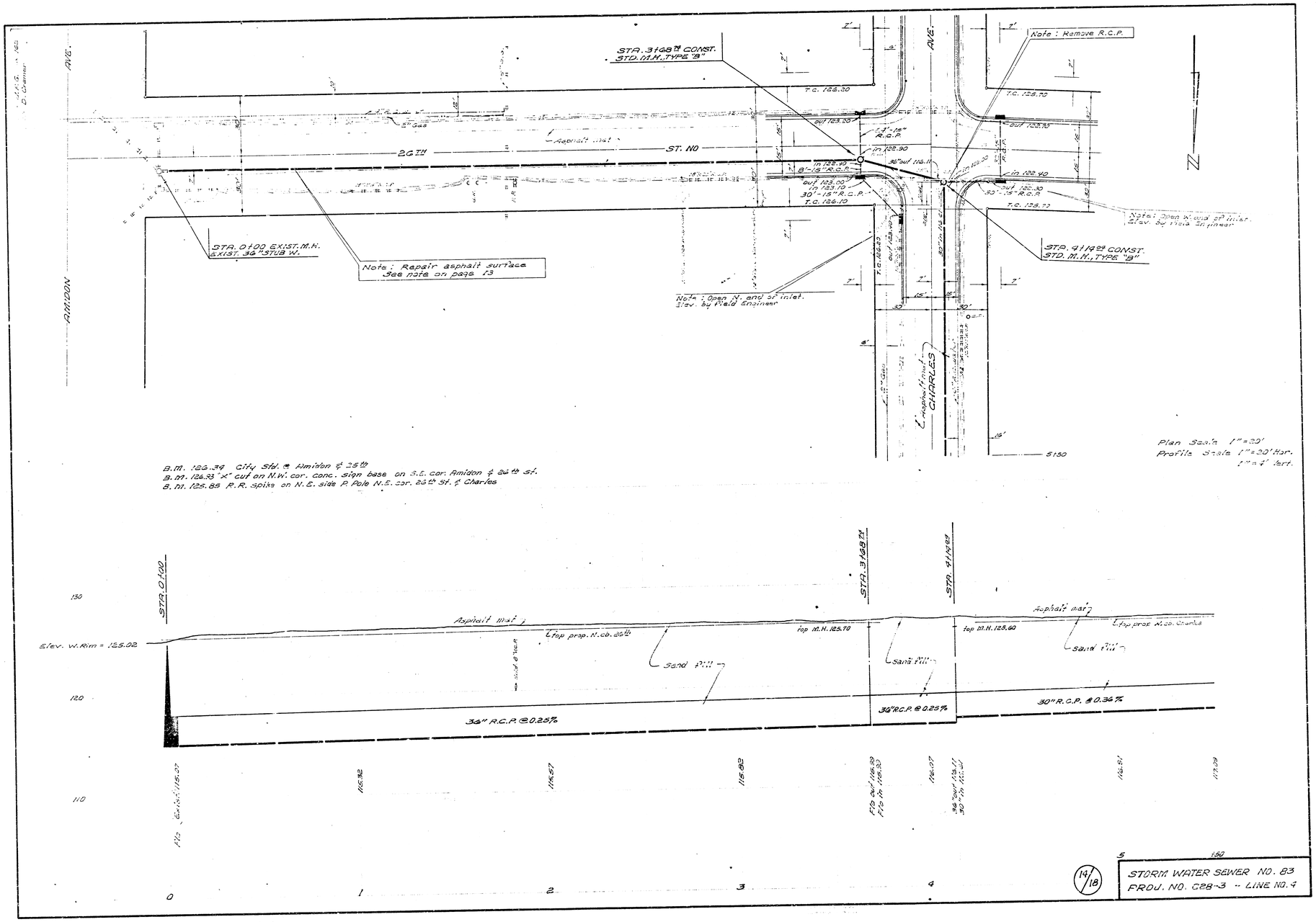
Flared end sections to be included in bid price of pipe.

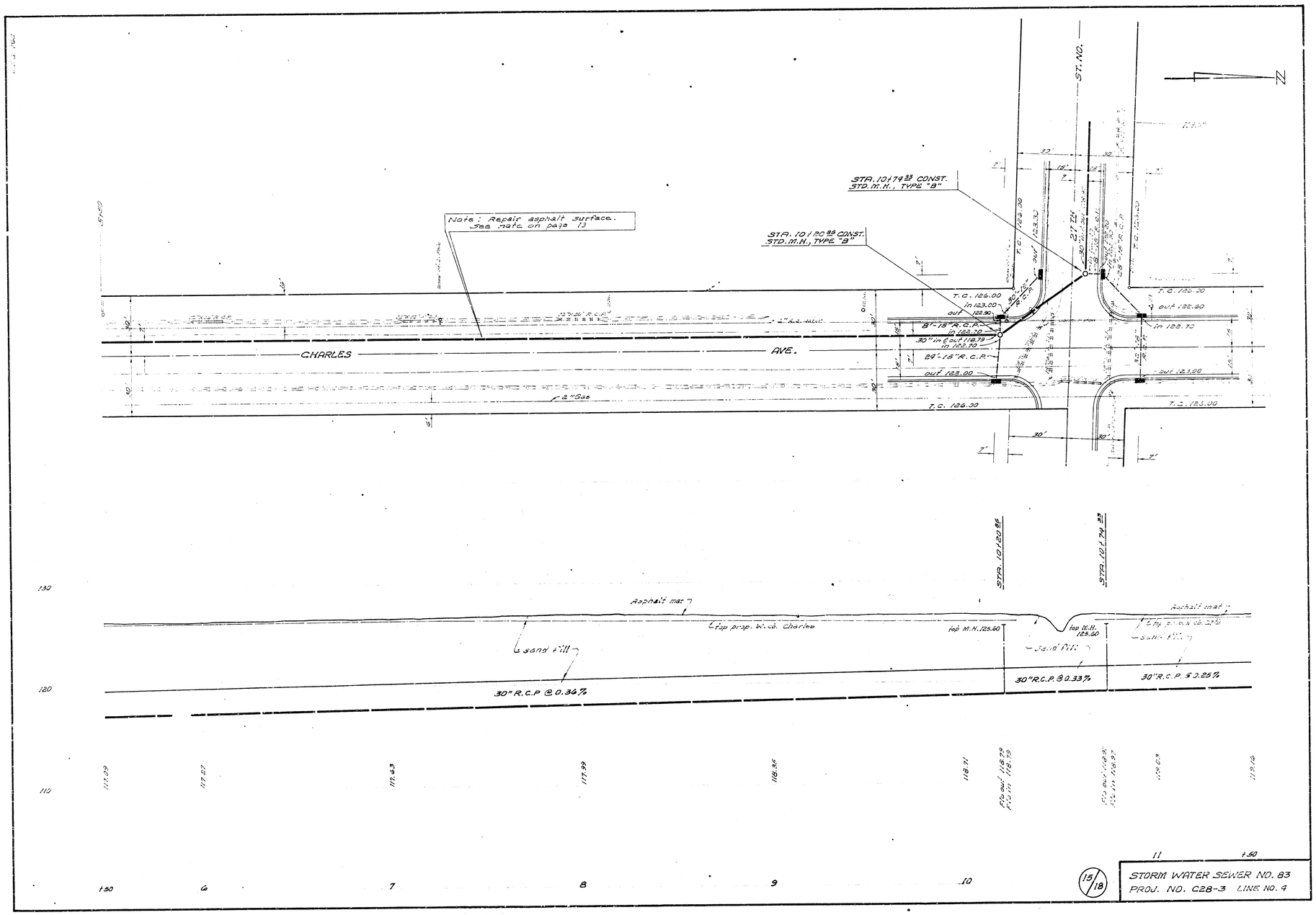
Asphalt surface streets are to be replaced with 2" thick asphaltic concrete, 4 & 6" thick (min.) layer of earth is to be compacted on top of the sand backfill as subgrade for the 2" asphaltic surface. Cost of compacting the earth base is incidental to the project. Asphalt surface removed to be a non pay item.

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

13/18

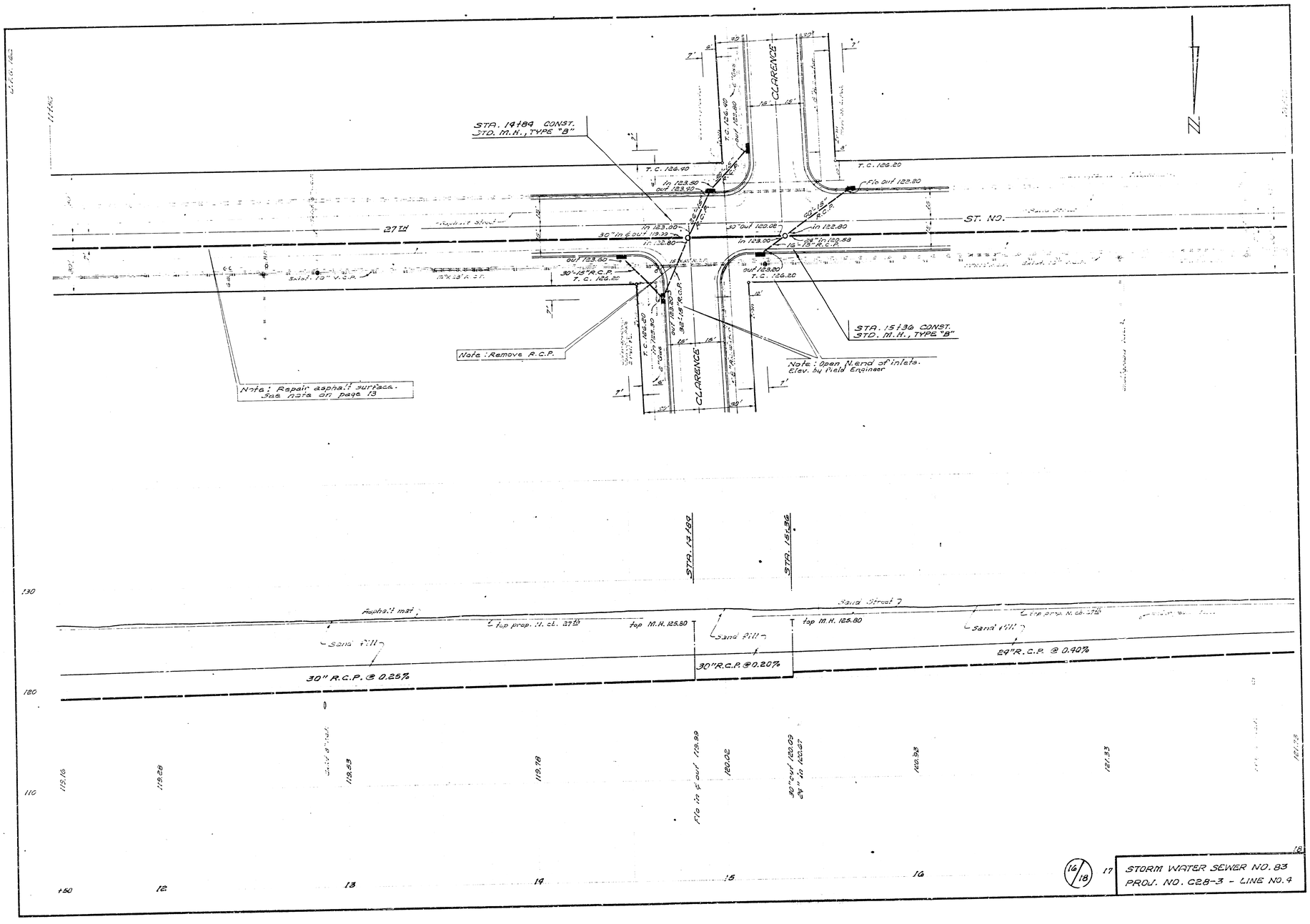
STORM WATER SEWER NO. 83
PROJ. NO. C28-3 - LINE NO. 3

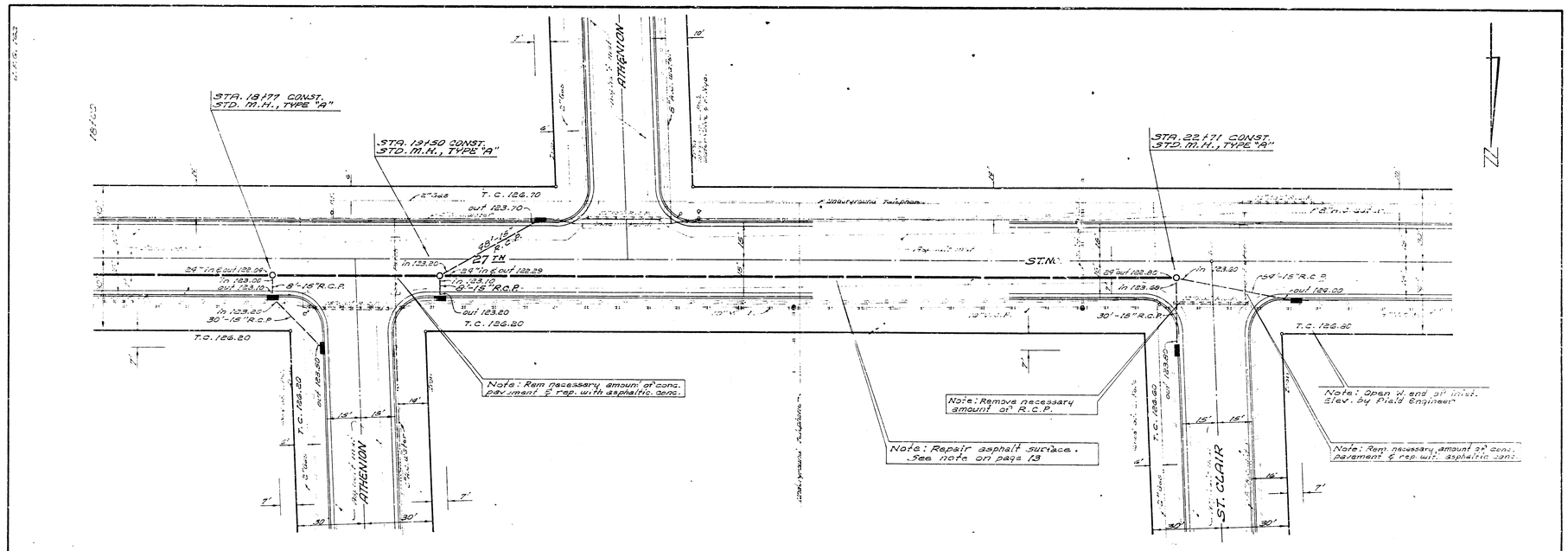

AMIDON AVE.
CHARLES AVE.
STA. 3168.74 CONST. STD. M.H., TYPE "B"
STA. 0100 EXIST. M.H. EXIST. 36" STUB W.
Note: Repair asphalt surface See note on page 13
Note: Remove R.C.P.
Note: Open N. end of inlet. Elev. by Field Engineer
STA. 4+14.92 CONST. STD. M.H., TYPE "B"
Asphalt mat
20TH ST. NO
T.C. 128.30
out 123.30
1-21-18" R.C.P.
in 122.90
36" out 116.11
8'-18" R.C.P.
out 123.00
in 123.10
30"-18" R.C.P.
T.C. 126.10
T.C. 128.70
out 123.70
in 122.40
out 122.30
30"-18" R.C.P.
T.C. 128.72
T.C. 126.23
out 123.23
Asphalt mat
CHARLES
5150
Plan Scale 1"=20'
Profile Scale 1"=30' Hor.
1"=4' Vert.
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 & 24th St.
B.M. 125.85 P.R. Spike on N.E. side P. Pole N.E. cor. 25th St. & Charles
STA. 0+00
STA. 3+68.74
STA. 4+14.92
Elev. W. Rim = 155.02
Asphalt mat
Top prop. N. cb. 26th
Sand Fill
top M.H. 125.10
Sand Fill
top M.H. 125.60
Top prop. N. cb. Charles
Sand Fill
36" R.C.P. @ 0.25%
36" R.C.P. @ 0.25%
30" R.C.P. @ 0.36%
F/G Excav. 115.37
115.32
115.57
115.82
F/G out 116.39
F/G in 116.33
116.07
36" Stub 116.11
30" in 116.01
116.81
117.09
150
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0
1
2
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4
14/18
STORM WATER SEWER NO. 83
PROJ. NO. C28-3 -- LINE NO. 4



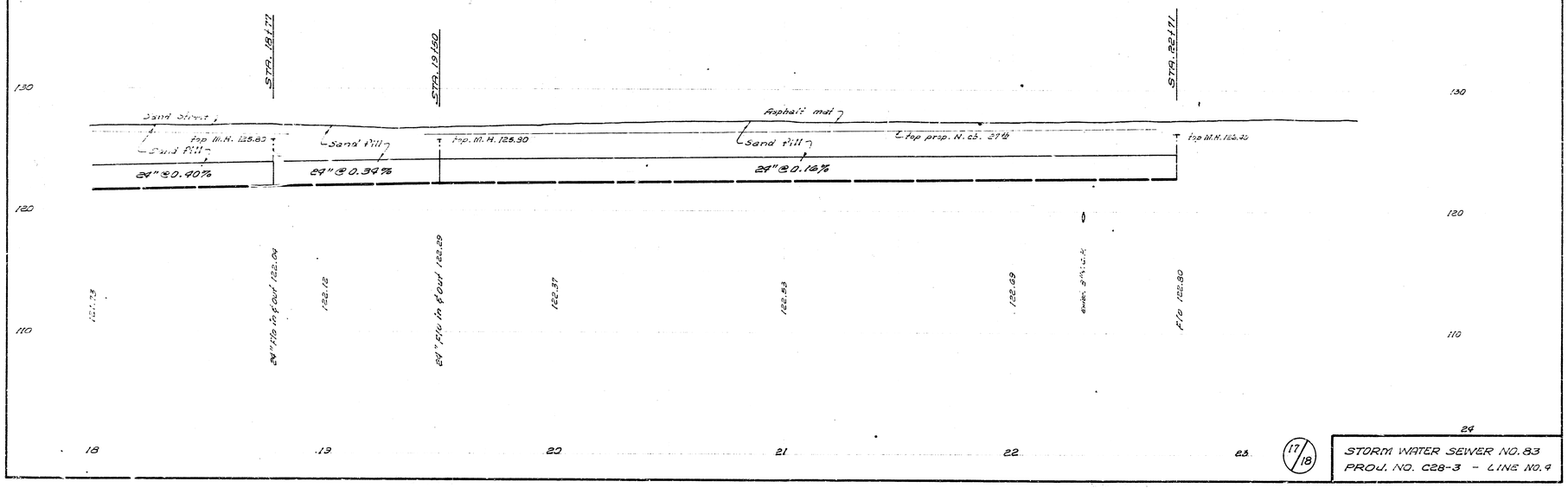
15/18

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


CLARENCE
27TH
ST. NO.
STA. 19+89 CONST. STD. M.H., TYPE "A"
STA. 15+36 CONST. STD. M.H., TYPE "B"
T.C. 126.40
T.C. 126.20
In 123.80 Out 123.30
F/o Out 122.20
In 123.00 Out 119.39
30" Out 120.08
In 122.80
In 123.00
24" In 122.88
16-15" R.C.P.
Out 123.80
30"x15"R.C.P.
T.C. 126.20
Out 123.80
In 123.00
T.C. 126.20
Note: Repair asphalt surface. See note on page 13
Note: Remove R.C.P.
Note: Open N.end of inlets. Elev. 34 Hale Engineer
Asphalt mat
Top prop. N. ct. 27th
Top M.H. 125.80
Sand Fill
30" R.C.P. @ 0.25%
30" R.C.P. @ 0.20%
29" R.C.P. @ 0.40%
STA. 19+89
STA. 15+36
130
120
110
119.16
119.29
119.53
119.78
F/o In & Out 119.99
120.02
30" Out 120.03 24" In 120.67
120.93
121.33
121.78
+50
12
13
14
15
16
17
18
STORM WATER SEWER NO. 83
PROJ. NO. C28-3 - LINE NO. 4

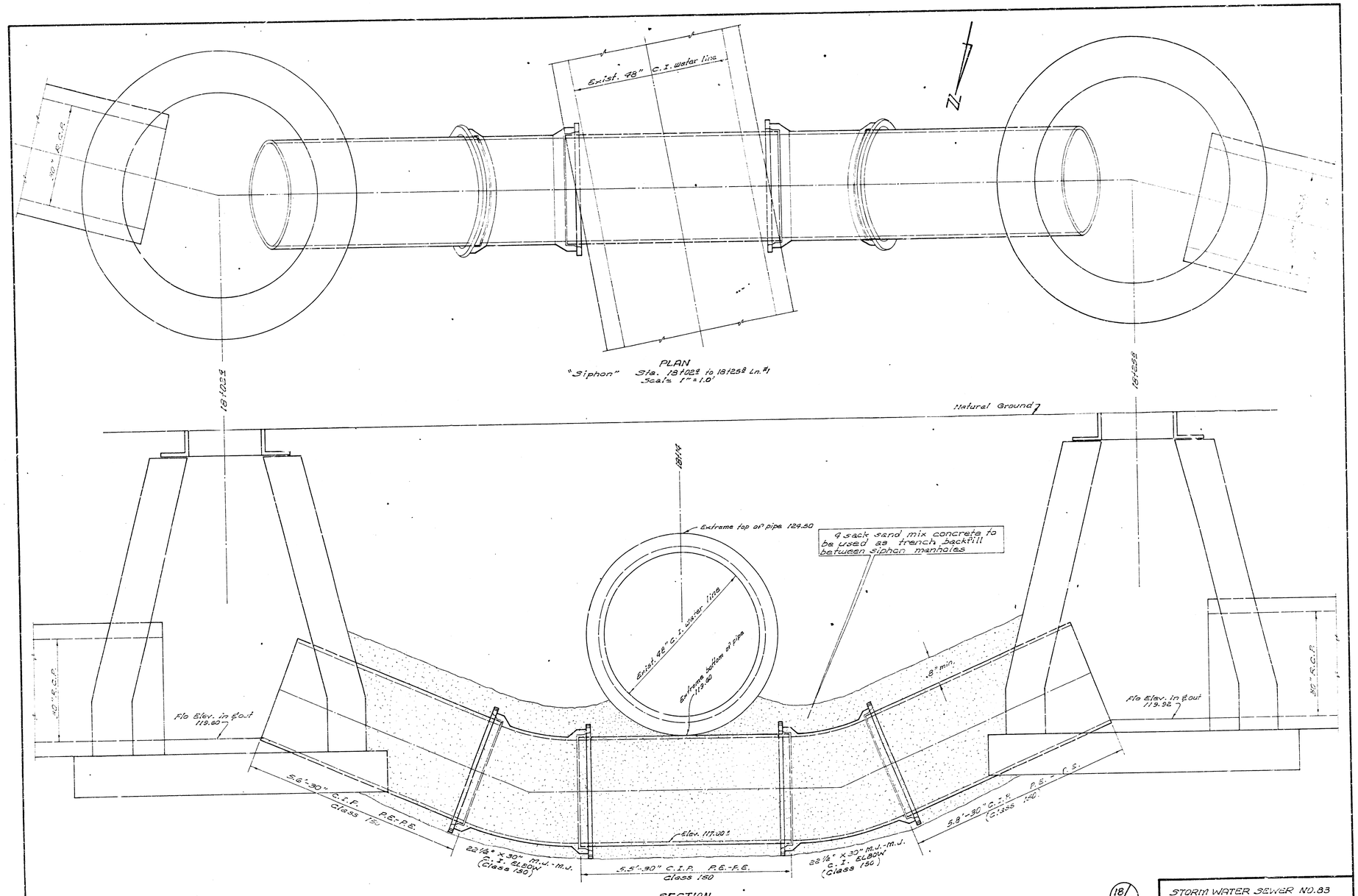


B.M. 129.335 N.E. Cor. conc. porch house #2201 W. 27th St. No.



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

17/18



18/18

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