

Bk 8 - Dr. 13

SIDEWALKS

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

_____ Plan _____ Survey

S.T.H. # 8 }

FRONT ST. } In New Brighton

7th St. Front St.
From 6th Ave. To S.T.H. # 8

Road Acc't. No. _____

Date Filed 10-26-31

File. _____

①
Plan Survey
Alignment

S. T. H. # 8
7th St to Front St

8/17/39

R.O.P.

A.M.

L.G.

C.F.

Sidewalk
New Brighton

Done 8/30/39
H.P.C.

Sta

Pt

Alt

ART

~~13+17.27~~

~~13+16.21~~

P.O.T.

No. Line Sec. 29-30-23

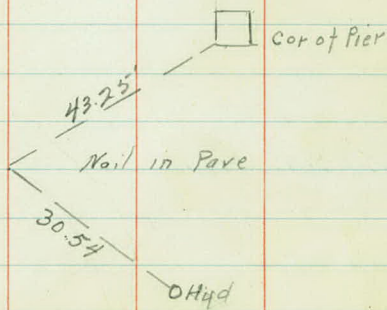
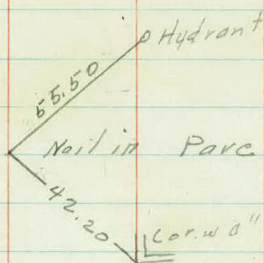
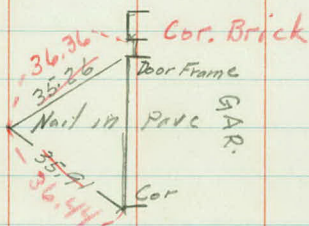
6+58.22

P.O.T.

£ 8th Sta.

0+00

£ 7th Sta



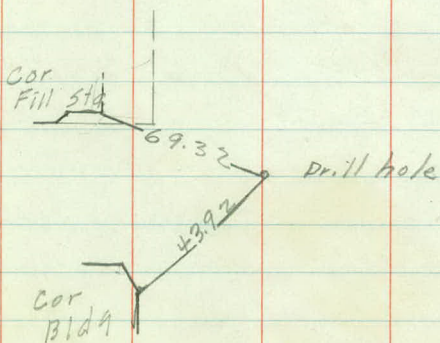
Sta

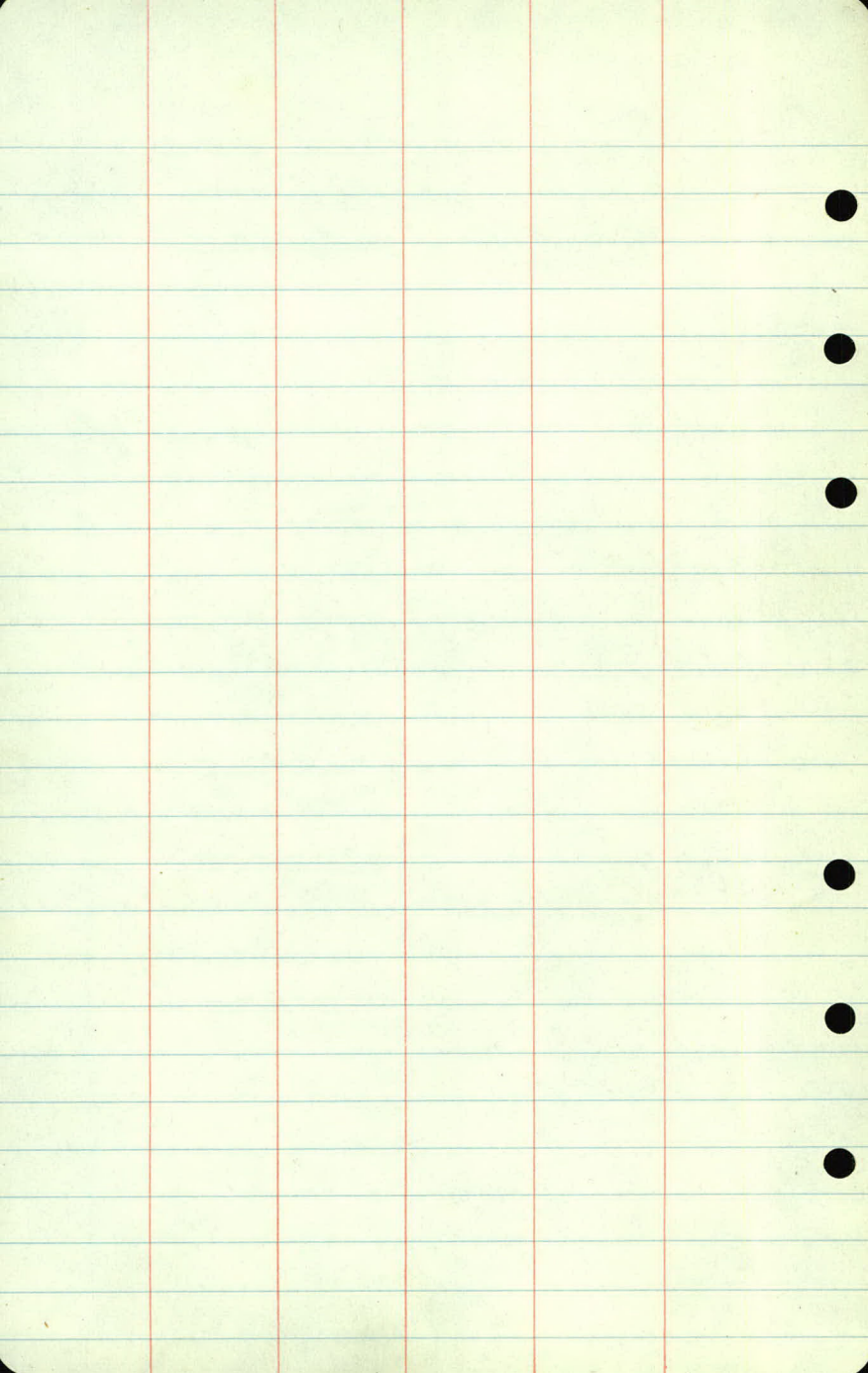
Pt.

$\Delta L +$

$\Delta R +$

15+39.95 P.I.





Topography

S.T.H. #8

NEW BRIGHTON

6

Wall 30.2

5

Ret Wall 30.1

4

3

+ 67

+ 43

+ 32

2

+ 42 - 6" Oak 27
 + 34 6" Oak 27
 + 27 Twin BE 30
 + 19 4" Oak 26
 + 17 - 6" Oak 27

1

+ 92 6" Oak 29.2
 + 70 6" Oak 29.4
 + 56 6" Oak 29.4

Wall - 29.1

+ 90 - S.W. 19.0
 + 82 S.W. 19.0

+ 70
 + 80
 + 69
 + 52
 + 48
 + 38
 + 28
 + 18
 + 08
 + 98

+ 62

+ 52

+ 43

+ 33

+ 25.5 End S.W. 23.1 - 29.1

Row 6" to 18" B.F.
 All Out 21"

0

Pav. 14.5. Walk 18-22

+76 Shldr Xs 4

7th AVE

+46 Shldr Xs 4

+36 Arc Light Pole 25'

+13 Steps - 22.3

+09 Steps - 22.3

Pave 14.4. Walk - 18.3-22.3

Pav. 14.4 Walk - 18.1-22.1

Pav. 14.3 S.W. 18.5-22.5

+51 4" Pine 35.5

+33 4" Pine 35.5

+13 Steps 22.7

+09 Steps 22.7

Pav. 14.4 S.W. 18.7-22.7

+76 8" Pine 35'

+67 6" Conc Wall 24.7

+60 Ent

+60 Ent

+37 Ent

+37 Ent

Pave 14.4 S.W. 18.7-22.7

+40 End Orchard - 36.0

Pave 14.4 S.W. 18.3-22.0

Orchard

+45 Beg Orchard 36.0

+25 Arc Light Pole 23.7

+23 S.W. - 17.7-21.7

+20 S.W. 15.1

+14 S.W. 15.1

+86 Hyd - 47.5

+74 End Rad 55'

+52 End Rad - 39'

+33 Pav. 14.5-15.7

+34 Beg. Rad. - 14.5

+29 End Walk 24.3-30.3

+29 Cor. Wall 30.8

Pave 14.5 Walk - 24.2-30.2

+30.8 Walk 14.5

+24.8 Walk - 14.5

Pave 14.5 Walk 24.1-30.1

+69 Beg. Wall - 29.8

+69 Beg. Wall - 29.8

29.8

Pave. 14.6

+72 Twin B.E. 38'

+77 8" B.E. 37'

+64 12" Oak 33'

+47 Steps 22.5

+43 Steps 22.5

Pave 14.5

+94 2" Oak 38'

+79 2" Ash 38'

+88 2" Ash 38'

+69 End Ret Wall - 29.5

+21 Ent.

+26 End Wall

+16 End Wall

Pave 14.5 Wall - 29.5

+20 End S.W. 23.1-29.1

+12 Steps 29.5

+05 Steps 29.5

Pave 14.5 S.W. 22.1

Church

+68 Cor. Steps - 29.1

+61 Cor. Steps - 29.1

+60 Cor. Church 50'

+33 Cor. Ret Wall 29.1

+33 End Curb 18.0

+23.0 End Rad. 18.0

+13.1 End Rad. - 28.6

13

12

11

10

9

8

7

Par. 19.8 S.W. 24.5 29.5 (End)

+96 P.P. - 22.0

+79 S.W. 20.2-26.8

+28 End Wall - 26.0

+21 Steps - 26.0

+17 Steps - 26.0

+69 Beg. Rot Wall 26.0

Par. 19.5 S.W. 19.9-25.9

+80 S.W. 19.6-25.6

+80 S.W. 19.5-23.5

+78 P.P. 25

+40 G.P. - 26.5

+31 Hyd 26

+02 Par. 19.1

+02 Curb 19.1

S.W. 19.1-23.1

+48 A Pave

+35 PP 25

Par. 14.0 S.W. 19.7-23.7

+84 End Apron

+73 6' 4" Spillway 20-30

+64 Beg. Apron

Par. 14.0 S.W. 20.1-24.1

+91 PP 26.0

Par. 14.3 Walk - 18.8-32.8

+84 End Apron 14.0

+82 6' 4" Spillway

14.0-29.0

+69 P.P. - 25'

+68 Beg. Apron 14.0

+17 S.W. Spillway 22.3-30.3

Par. 14.5 Walk - 18.3-22.3

+69 PP - 25'

+60 3" Spruce - 34

+54 3" Spruce - 32

+27 Steps - 22.0

+22 Steps - 22.0

Par. 14.5 Walk 18-22

Cafe

Store

Barber Shop

Garage

+91 Ent.

Town Hall

27.3
Fill Sta

Ditch

Par. 24.0 S.W. 24.5-31.9

100 Bldg 31.9

+84 Cor. Store - Cafe

+47 Cor. Barber Shop - Store

+35 Cor. Gar. Barber Shop

+23 Water S.O. 26.5

+15 Gas Pump 25.3

+12 Gas Pump 25.3

+05 Ent.

+00 Cor. Gar. 31.4

Par. 24.2 Walk 24.6-31.4

+91 Ent.

+83 Cor. Hall - 36.6

+82 S.W. 32.0-36.6-24.5

+41 Ent.

+32 Cor. Town Hall - 38.6

+28 S.W. 24.5-38.6

+06 Fe Cor. 40

+03 Curb 24.6

+03 Par. 24.1

+74 A Fe. 40'

+50 A Pave.

+40 Pump Base 34.5-37.8

+27 Pump Base 34.6-38.7

+27 Cor. Fill Sta 49.0

Par. 15.3

+85 Beg. Apron

+70 6' 4" Spillway

+65 Beg. Apron

Par. 15.6

Par. - 14.9

Par. 14.5

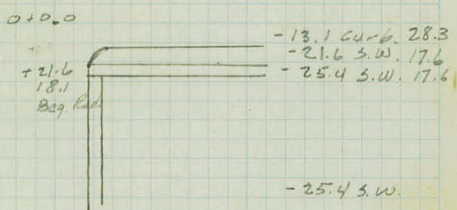
+04 Par. 15.7-14.5

16

15

14

Detail Intersection Gth ST.



- +17.5 C.B. - 26.4
- +17.5 End Rad - 28.3
- +09 Cor. Bldg 34.6
- +09 Pav. 20.2 Beg Rad 20.7
- +08.5 21
- +06.5 Cor. Bldg - 29.1
- +87 Cor. Barber Shop - Cafe
- +70 Cor. Store - Barber Shop
- +35 Cor. Bldg - 29.0
- +22 Beg in S.W. - 20.3 - 29.0
- +12 Hyd. 22'
- Pav. 19.8

- +50 Shldr. Xs d
- +24 Shldr. Xs d
- +11 End Conc. 31.6 - 25.7
- +06 Gas. Inlets - 28.1 - 30.2
- +04 Pump Base - 33.8 - 35.8
- +02 Cor. Bldg 34.7
- +00 Pump Base 33.8 - 35.8
- Pavc 25.7
- +78 Ent.
- +75 Gas. Inlet 27.7
- +56 Cor. Store - Gas Sta
- +26 Cor. Bank - Store
- +04 Cor. Cafe - Bank
- +00 Bldg 31.9
- Pav. 24.0 S.W. 24.5 - 31.9



Bench Levels.

P.T.	+	↑	-	Elev.
B.M.	0.40	911.69		911.29
T.P.	1.90	904.77	8.82	902.87
B.M.	0.74	897.59	7.92	896.85
T.P.	1.55	889.70	9.44	888.15
T.P.	6.14	889.74	6.10	883.60
B.M.	5.14	889.76	5.12	884.62
B.M.	2.34	889.91	2.19	887.57
T.P.	5.72	889.73	5.90	884.01
	10.21	899.18	0.76	888.97
	12.82	910.62	1.38	897.80
	6.33	914.56	2.39	908.23
B.M.			3.29	911.27

911.29

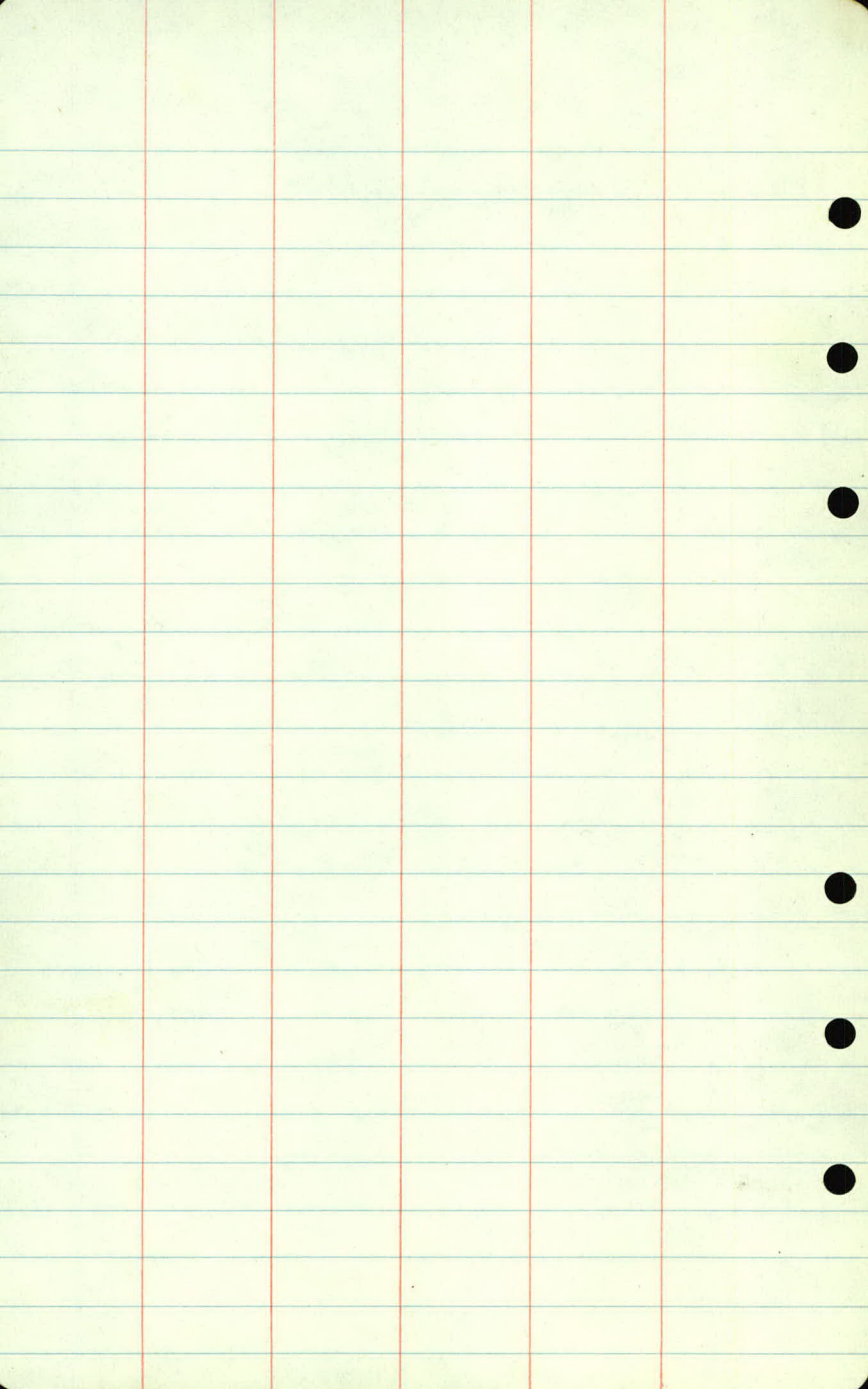
Top Hyd. S.E. Cor. 5th Ave. 7th St.

Top Hyd. N.E. Cor. 5th Ave. 8th St.

Top Breather Pipe N.W. Cor. Front and 5th

Top Hyd. N.E. Cor. Front & 6th.

Top Hyd. S.E. Cor. 5th Ave. - 7th St



Cross Sections

5th Ave.

New Brighton

Sta	L	Δ	-	Elev.
B.M.	0.94	912.23		911.29
0+00			4.46	07.77
+13			4.70	07.53
+32			5.01	07.22
+50			5.31	06.92
1			6.13	06.10
+50			7.00	05.23
+20			6.46	05.77
2			7.83	04.40
T.P.	3.35	907.22	8.36	903.87
+36			3.44	03.78
+69				03.17
3				02.66
+22				02.22

Top Hyd. S.E. Cor 5th Ave. - 7th St.

$\frac{4.8}{50} \frac{4.4}{21} \frac{4.69}{17} \frac{4.50}{4.46} \frac{4.2}{10.2} \frac{3.8}{22} \frac{3.8}{50}$

$\frac{4.5}{50} \frac{4.7}{24} \frac{4.83}{10} \frac{4.70}{10} \frac{4.82}{10} \frac{4.83}{24} \frac{3.9}{24} \frac{3.72}{50}$

$\frac{6.7}{40} \frac{5.1}{27} \frac{4.70}{22} \frac{4.70}{18} \frac{5.28}{14} \frac{5.01}{5.01} \frac{5.25}{14} \frac{5.7}{18} \frac{4.20}{18} \frac{4.12}{23} \frac{4.12}{29} \frac{1.32}{29}$

$\frac{9.8}{50} \frac{8.9}{33} \frac{5.4}{25} \frac{5.1}{21.5} \frac{5.0}{17.5} \frac{5.30}{14.0} \frac{5.52}{13.6} \frac{5.51}{5.31} \frac{5.32}{13.6} \frac{4.3}{14.3} \frac{4.34}{20} \frac{4.25}{23} \frac{1.64}{29} \frac{1.64}{29}$

$\frac{10.3}{50} \frac{9.8}{32} \frac{6.0}{24} \frac{5.91}{21} \frac{5.82}{18} \frac{6.09}{14.0} \frac{6.27}{13.3} \frac{6.27}{6.13} \frac{6.50}{13.6} \frac{5.0}{14.3} \frac{4.90}{20} \frac{4.75}{23} \frac{2.15}{29} \frac{2.15}{29}$

$\frac{10.2}{50} \frac{9.8}{32} \frac{6.7}{23} \frac{6.60}{22.6} \frac{6.53}{18.6} \frac{6.91}{14} \frac{7.13}{13.3} \frac{7.10}{7.00} \frac{6.90}{13.5} \frac{5.6}{14.1} \frac{5.2}{20} \frac{2.6}{29} \frac{2.6}{29}$

$\frac{10.7}{50} \frac{10.1}{33} \frac{6.2}{23} \frac{6.21}{22} \frac{6.17}{18} \frac{6.39}{14.3} \frac{6.60}{13.5} \frac{6.57}{6.46} \frac{6.37}{13.5} \frac{5.2}{14.4} \frac{5.06}{21} \frac{5.00}{23} \frac{2.31}{29} \frac{2.31}{29}$

$\frac{9.0}{50} \frac{8.3}{28} \frac{7.4}{24} \frac{7.29}{22} \frac{7.28}{18} \frac{7.78}{14.0} \frac{8.01}{13.4} \frac{7.95}{7.83} \frac{7.88}{13.5} \frac{6.81}{14.3} \frac{6.4}{19} \frac{3.25}{29} \frac{3.25}{29}$

$\frac{2.8}{50} \frac{3.0}{23} \frac{3.0}{19.0} \frac{3.45}{14.3} \frac{3.62}{13.3} \frac{3.44}{3.44} \frac{3.56}{13.3} \frac{3.40}{14.3} \frac{2.3}{19.0} \frac{2.4}{29} \frac{1.25}{29} \frac{1.25}{29}$

$\frac{0.19}{50.0} \frac{1.2}{30.0} \frac{3.0}{29.0} \frac{3.73}{23.0} \frac{3.8}{19.0} \frac{4.00}{14.3} \frac{4.15}{18.34} \frac{4.17}{10.5} \frac{3.98}{13.3} \frac{3.1}{14.4} \frac{2.9}{20} \frac{1.7}{24} \frac{1.50}{29} \frac{0.2}{35} \frac{0.2}{50}$

$\frac{0.5}{50.0} \frac{0.8}{31.0} \frac{4.56}{22.0} \frac{4.56}{19.0} \frac{4.51}{14.3} \frac{4.71}{13.3} \frac{4.77}{13.3} \frac{4.56}{14.3} \frac{4.2}{20} \frac{3.4}{24} \frac{1.6}{32} \frac{1.8}{50}$

$\frac{0.5}{50.0} \frac{1.1}{32.0} \frac{4.85}{22.0} \frac{4.95}{19.0} \frac{5.0}{14.3} \frac{5.12}{13.3} \frac{5.00}{12.3} \frac{5.14}{14.3} \frac{4.93}{17.0} \frac{4.8}{31.0} \frac{0.5}{50.0} \frac{0.2}{50.0}$

Sta.	+	TS	-	Elev.
		907.22		
3+50				01.71
4				00.76
+21				0.31
+32				0.24
+69				89.32
5				98.70
T.P.	2.61	900.67	9.16	898.06
+50				97.65
6				96.52
+29				95.76
+39				95.51
+81				94.27
B.M.	0.04	896.89	3.81	896.86
7				93.76

896.85

$\frac{0.4}{50.0}$ $\frac{0.9}{33.0}$ $\frac{5.35}{22.0}$ $\frac{5.27}{19.0}$ $\frac{5.41}{14.3}$ $\frac{5.61}{18.3}$ $\frac{5.66}{5.51}$ $\frac{5.48}{13.3}$ $\frac{5.3}{14.3}$ $\frac{4.5}{20.3}$ $\frac{4.5}{23.0}$ $\frac{4.6}{35.0}$ $\frac{4.8}{50.0}$

$\frac{1.8}{50.0}$ $\frac{1.8}{30.0}$ $\frac{6.45}{2.1}$ $\frac{6.45}{18.0}$ $\frac{6.42}{14.3}$ $\frac{6.60}{13.3}$ $\frac{6.58}{14.3}$ $\frac{6.37}{20.0}$ $\frac{6.2}{24.0}$ $\frac{5.1}{36.0}$ $\frac{+2.6}{50.0}$ $\frac{+3.0}{50.0}$

$$\begin{array}{cccccccccccccccc} \underline{2.2} & \underline{2.2} & \underline{6.95} & \underline{6.95} & \underline{6.8} & \underline{7.0} & & \underline{7.02} & \underline{6.87} & \underline{6.7} & \underline{5.8} & \underline{+3.2} & \underline{+3.3} \\ 50.0 & 31.0 & 22.3 & 18.3 & 14.3 & 13.1 & 6.91 & 13.3 & 14.3 & 20.0 & 24.0 & 42.0 & 5.0 \end{array}$$

$\frac{6.4}{50.0}$ $\frac{6.3}{27.0}$ $\frac{7.20}{22.10}$ $\frac{7.20}{19.0}$ $\frac{7.15}{14.3}$ $\frac{7.25}{15.3}$ $\frac{7.24}{13.3}$ $\frac{7.05}{14.3}$ $\frac{6.9}{21.0}$ $\frac{6.0}{24.0}$ $\frac{+2.8}{40}$ $\frac{+3.0}{50}$

$\frac{6.7}{50.0}$	$\frac{7.4}{24.0}$	$\frac{8.0}{21.0}$	$\frac{8.0}{18.0}$	$\frac{7.8}{14.3}$	$\frac{7.95}{18.3}$	$\frac{8.0}{7.90}$	$\frac{7.76}{13.3}$	$\frac{7.90}{14.3}$	$\frac{7.80}{24.0}$	$\frac{3.75}{29.0}$
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$\frac{7.7}{50.0} \frac{7.6}{26.0} \quad \frac{8.70}{22.0} \frac{8.70}{18.0} \quad \frac{8.40}{14.3} \frac{8.63}{13.3} \quad \frac{8.63}{13.3} \frac{8.40}{14.3} \quad \frac{8.50}{24.0} \frac{8.45}{29.0} \quad \frac{3.80}{29.0}$

$\frac{1.6}{50.0}$ $\frac{1.6}{27.0}$ $\frac{3.16}{2.0}$ $\frac{3.20}{18.0}$ $\frac{271}{14.3}$ $\frac{3.10}{13.3}$ 3.02 $\frac{3.15}{13.3}$ $\frac{2.92}{14.3}$ $\frac{2.8}{22.0}$ $\frac{2.95}{21.0}$ $\frac{2.76}{29.0}$ $\frac{+1.14}{29.0}$

$\frac{1.8}{50.0}$	$\frac{2.0}{29.0}$	$\frac{4.05}{22.0}$	$\frac{1.75}{18.0}$	$\frac{4.05}{14.3}$	$\frac{4.25}{13.3}$	$\frac{4.30}{4.15}$	$\frac{4.08}{13.3}$	$\frac{3.9}{14.3}$	$\frac{4.10}{22.0}$	$\frac{3.95}{24.0}$	$\frac{0.52}{29.0}$	$\frac{0.52}{29.0}$
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$\frac{2.4}{50.0}$ $\frac{2.8}{29.0}$ $\frac{5.140}{22.0}$ $\frac{5.140}{18.0}$ $\frac{4.820}{14.3}$ $\frac{4.98}{13.3}$ $\frac{5.05}{13.3}$ $\frac{4.85}{14.3}$ $\frac{4.80}{24.0}$ $\frac{4.70}{29.0}$ $\frac{0.50}{29.0}$ $\frac{5.2}{30.0}$ $\frac{6.3}{50.0}$

$\frac{5.4}{50.0}$ $\frac{5.62}{22.0}$ $\frac{5.75}{18.0}$ $\frac{5.8}{14.3}$ $\frac{6.15}{18.3}$ $\frac{5.16}{5.16}$ $\frac{5.35}{14.3}$ $\frac{5.06}{15.3}$ $\frac{5.6}{22.0}$ $\frac{5.4}{31.0}$ $\frac{6.3}{50.0}$

$\begin{array}{r} 6.0 \\ - 50.0 \end{array}$	$\begin{array}{r} 6.1 \\ - 41.0 \end{array}$	$\begin{array}{r} 6.8 \\ - 23.0 \end{array}$	$\begin{array}{r} 6.35 \\ - 15.0 \end{array}$	$\begin{array}{r} 6.53 \\ - 14.0 \end{array}$	$\begin{array}{r} 6.40 \\ - 14.3 \end{array}$	$\begin{array}{r} 6.55 \\ - 15.3 \end{array}$	$\begin{array}{r} 6.30 \\ - 38.0 \end{array}$	$\begin{array}{r} 6.5 \\ - 50.0 \end{array}$
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Top Hydrant N. E. Cor. 5^m E 8^m S.

$$\begin{array}{r} 1.7 \\ 50.0 \end{array} \quad \begin{array}{r} 1.9 \\ 27.0 \end{array} \quad \begin{array}{r} 3.76 \\ 22.0 \end{array} \quad \begin{array}{r} 3.76 \\ 18.0 \end{array} \quad \begin{array}{r} 3.10 \\ 15.0 \end{array} \quad \begin{array}{r} 3.26 \\ 14.0 \end{array} \quad 3.13 \quad \begin{array}{r} 3.31 \\ 14.0 \end{array} \quad \begin{array}{r} 3.01 \\ 15.0 \end{array} \quad \begin{array}{r} 2.8 \\ 29.0 \end{array} \quad \begin{array}{r} 2.9 \\ 39.0 \end{array} \quad \begin{array}{r} 4.8 \\ 50.0 \end{array}$$

Sta.	+	π	-	Elev.
		896.89		
7+65				91.64
+74				91.34
8				90.47
+18				87.84
		Sec. thru S.W. Spillway		
+82				87.54
		Sec. thru Gutter Spillway		
T.P.	3.80	890.78	9.91	886.98
9+25				86.13
+65				89.75
10				83.73
+35				83.13
+73				82.86
		Sec. thru Gutter Spillways		
T.P.	5.76	889.38	7.16	883.62
11				82.68
11				
+45				83.17
+45				

$$\begin{array}{r} 2.8 \\ 50.0 \end{array} \quad \begin{array}{r} 2.9 \\ 29.0 \end{array} \quad \begin{array}{r} 5.95 \\ 22.0 \end{array} \quad \begin{array}{r} 5.75 \\ 18.0 \end{array} \quad \begin{array}{r} 5.20 \\ 15.0 \end{array} \quad \begin{array}{r} 5.40 \\ 14.0 \end{array} \quad 5.25 \quad \begin{array}{r} 5.45 \\ 14.0 \end{array} \quad \begin{array}{r} 5.25 \\ 15.0 \end{array} \quad \begin{array}{r} 5.1 \\ 31.0 \end{array} \quad \begin{array}{r} 15.4 \\ 60.0 \end{array}$$

$$\begin{array}{r} 7.2 \\ 50.0 \end{array} \quad \begin{array}{r} 7.5 \\ 31.0 \end{array} \quad \begin{array}{r} 6.7 \\ 26.0 \end{array} \quad \begin{array}{r} 6.15 \\ 22.0 \end{array} \quad \begin{array}{r} 6.0 \\ 18.0 \end{array} \quad \begin{array}{r} 5.53 \\ 14.3 \end{array} \quad \begin{array}{r} 5.70 \\ 13.4 \end{array} \quad 5.55 \quad \begin{array}{r} 5.78 \\ 13.3 \end{array} \quad \begin{array}{r} 5.58 \\ 14.3 \end{array} \quad \begin{array}{r} 5.4 \\ 31.0 \end{array} \quad \begin{array}{r} 15.9 \\ 60.0 \end{array}$$

$$\begin{array}{r} 10.7 \\ 50.0 \end{array} \quad \begin{array}{r} 10.0 \\ 32.0 \end{array} \quad \begin{array}{r} 6.8 \\ 23.0 \end{array} \quad \begin{array}{r} 6.90 \\ 22.0 \end{array} \quad \begin{array}{r} 6.72 \\ 18.0 \end{array} \quad \begin{array}{r} 6.35 \\ 14.3 \end{array} \quad \begin{array}{r} 6.53 \\ 13.3 \end{array} \quad 6.42 \quad \begin{array}{r} 6.61 \\ 13.3 \end{array} \quad \begin{array}{r} 6.45 \\ 14.3 \end{array} \quad \begin{array}{r} 6.3 \\ 31.0 \end{array} \quad \begin{array}{r} 16.3 \\ 60.0 \end{array}$$

$$\begin{array}{r} 12.0 \\ 50 \end{array} \quad \begin{array}{r} 10.4 \\ 31.0 \end{array} \quad \begin{array}{r} 9.88 \\ 31.0 \end{array} \quad \begin{array}{r} 7.30 \\ 22.0 \end{array} \quad \begin{array}{r} 7.30 \\ 18.0 \end{array} \quad \begin{array}{r} 6.95 \\ 14.3 \end{array} \quad \begin{array}{r} 7.15 \\ 13.3 \end{array} \quad 7.05 \quad \begin{array}{r} 7.35 \\ 13.3 \end{array} \quad \begin{array}{r} 7.15 \\ 14.3 \end{array} \quad \begin{array}{r} 7.0 \\ 31.0 \end{array} \quad \begin{array}{r} 16.7 \\ 58.0 \end{array}$$

$$\begin{array}{r} 16.9 \\ 50 \end{array} \quad \begin{array}{r} 14.1 \\ 31 \end{array} \quad \begin{array}{r} 10.5 \\ 24 \end{array} \quad \begin{array}{r} 9.40 \\ 23 \end{array} \quad \begin{array}{r} 9.20 \\ 19 \end{array} \quad \begin{array}{r} 9.65 \\ 16.6 \end{array} \quad \begin{array}{r} 9.45 \\ 14.3 \end{array} \quad 9.35 \quad \begin{array}{r} 9.68 \\ 13.3 \end{array} \quad \begin{array}{r} 9.50 \\ 14.3 \end{array} \quad \begin{array}{r} 9.3 \\ 31 \end{array} \quad \begin{array}{r} 17.9 \\ 55 \end{array}$$

$$\begin{array}{r} 11.5 \\ 34 \end{array} \quad \begin{array}{r} 4.63 \\ 23 \end{array} \quad \begin{array}{r} 4.40 \\ 19 \end{array} \quad \begin{array}{r} 4.35 \\ 14.3 \end{array} \quad \begin{array}{r} 4.75 \\ 13.3 \end{array} \quad 4.65 \quad \begin{array}{r} 4.95 \\ 13.3 \end{array} \quad \begin{array}{r} 4.80 \\ 14.3 \end{array} \quad \begin{array}{r} 4.8 \\ 31 \end{array} \quad \begin{array}{r} 12.8 \\ 54.0 \end{array}$$

$$\begin{array}{r} 14.0 \\ 36 \end{array} \quad \begin{array}{r} 5.95 \\ 24 \end{array} \quad \begin{array}{r} 5.75 \\ 20 \end{array} \quad \begin{array}{r} 5.85 \\ 14.3 \end{array} \quad \begin{array}{r} 6.05 \\ 13.3 \end{array} \quad 6.03 \quad \begin{array}{r} 6.50 \\ 13.3 \end{array} \quad \begin{array}{r} 6.23 \\ 14.3 \end{array} \quad \begin{array}{r} 6.1 \\ 30 \end{array} \quad \begin{array}{r} 13.0 \\ 50 \end{array}$$

$$\begin{array}{r} 14.1 \\ 38 \end{array} \quad \begin{array}{r} 7.35 \\ 24 \end{array} \quad \begin{array}{r} 7.20 \\ 21 \end{array} \quad \begin{array}{r} 6.80 \\ 14.3 \end{array} \quad \begin{array}{r} 7.05 \\ 13.3 \end{array} \quad 7.05 \quad \begin{array}{r} 7.40 \\ 13.3 \end{array} \quad \begin{array}{r} 7.15 \\ 14.3 \end{array} \quad \begin{array}{r} 7.1 \\ 30 \end{array} \quad \begin{array}{r} 13.4 \\ 50 \end{array}$$

$$\begin{array}{r} 14.3 \\ 34 \end{array} \quad \begin{array}{r} 8.35 \\ 24 \end{array} \quad \begin{array}{r} 8.27 \\ 20 \end{array} \quad \begin{array}{r} 7.40 \\ 14.3 \end{array} \quad \begin{array}{r} 7.61 \\ 13.3 \end{array} \quad 7.65 \quad \begin{array}{r} 7.85 \\ 13.3 \end{array} \quad \begin{array}{r} 7.64 \\ 14.3 \end{array} \quad \begin{array}{r} 7.5 \\ 31 \end{array} \quad \begin{array}{r} 13.0 \\ 45 \end{array} \quad \begin{array}{r} 13.9 \\ 50 \end{array}$$

$$\begin{array}{r} 14.1 \\ 41 \end{array} \quad \begin{array}{r} 12.0 \\ 29 \end{array} \quad \begin{array}{r} 9.50 \\ 26 \end{array} \quad \begin{array}{r} 8.40 \\ 23.3 \end{array} \quad \begin{array}{r} 8.30 \\ 19.3 \end{array} \quad \begin{array}{r} 9.0 \\ 19.3 \end{array} \quad \begin{array}{r} 8.0 \\ 14 \end{array} \quad 7.92 \quad \begin{array}{r} 8.50 \\ 16 \end{array} \quad \begin{array}{r} 9.04 \\ 22.5 \end{array} \quad \begin{array}{r} 11.15 \\ 33.5 \end{array} \quad \begin{array}{r} 16.15 \\ 45 \end{array} \quad \begin{array}{r} 15.65 \\ 50 \end{array}$$

$$\begin{array}{r} 12.8 \\ 36 \end{array} \quad \begin{array}{r} 6.8 \\ 25 \end{array} \quad \begin{array}{r} 6.66 \\ 20 \end{array} \quad \begin{array}{r} 6.21 \\ 14.0 \end{array} \quad \begin{array}{r} 6.43 \\ 13.3 \end{array} \quad 6.70 \quad \begin{array}{r} 7.05 \\ 14.3 \end{array} \quad \begin{array}{r} 6.90 \\ 15 \end{array} \quad \begin{array}{r} 6.9 \\ 35 \end{array} \quad \begin{array}{r} 7.4 \\ 50 \end{array}$$

$$\begin{array}{r} 11.2 \\ 35 \end{array} \quad \begin{array}{r} 6.71 \\ 23 \end{array} \quad \begin{array}{r} 6.71 \\ 19 \end{array} \quad \begin{array}{r} 5.95 \\ 14 \end{array} \quad \begin{array}{r} 16.15 \\ 13 \end{array} \quad 6.21 \quad \begin{array}{r} 6.42 \\ 14 \end{array} \quad \begin{array}{r} 6.25 \\ 15 \end{array} \quad \begin{array}{r} 6.5 \\ 46 \end{array}$$

Sta.	+	↖	-	Elev.
		889.38		
12				83.82
+02	Top Curbs			
+2.8				84.18
+7.6				84.42
3				84.56
+26				84.71
+31				84.73
+65				84.86
T.P.	4.50	889.93	3.95	885.43
14				85.08
+50				85.15
15				
15				84.81
+18				84.73
B.M.			5.26	884.67
				884.62

$$\begin{array}{r} 10.1 \quad 9.5 \quad 5.9 \quad 6.25 \quad 6.22 \quad 5.71 \quad 5.9 \quad 6.10 \quad 5.9 \quad 6.4 \\ 50 \quad 33.5 \quad 25.4 \quad 23.5 \quad 19.2 \quad 19.2 \quad 18.5 \quad 5.56 \quad 23 \quad 34 \quad 39 \\ \hline \quad \quad \quad (83.74) \quad \quad \quad 5.64 \quad \quad \quad 5.78 \quad (83.60) \end{array}$$

$$\begin{array}{r} 8.8 \quad 7.0 \quad 5.60 \quad 5.60 \quad 5.23 \quad 5.64 \quad 5.57 \quad 5.20 \quad 5.67 \quad 5.77 \quad 5.34 \quad 5.12 \\ 50 \quad 29 \quad 23 \quad 20 \quad 19 \quad 19 \quad 18 \quad 5.20 \quad 23 \quad 24 \quad 24 \quad 38.6 \end{array}$$

$$\begin{array}{r} 5.0 \quad 4.5 \quad 4.95 \quad 5.02 \quad 5.40 \quad 5.33 \quad 4.96 \quad 5.45 \quad 5.5 \quad 5.12 \quad 5.0 \\ 50 \quad 29 \quad 23 \quad 20 \quad 19 \quad 18 \quad 4.96 \quad 23 \quad 24 \quad 24 \quad 36 \end{array}$$

$$\begin{array}{r} 1.0 \quad 0.7 \quad 4.86 \quad 5.04 \quad 4.78 \quad 5.23 \quad 5.20 \quad 5.3 \quad 5.4 \quad 5.0 \quad 4.91 \\ 50 \quad 38 \quad 25.5 \quad 20 \quad 20 \quad 19.2 \quad 18.2 \quad 4.82 \quad 23.2 \quad 24.2 \quad 24.2 \quad 31.5 \end{array}$$

$$\begin{array}{r} 1.2 \quad 1.2 \quad 3.5 \quad 4.82 \quad 5.02 \quad 4.67 \quad 5.11 \quad 5.06 \quad 4.67 \quad 5.16 \quad 5.21 \quad 4.89 \quad 4.70 \\ 41 \quad 35 \quad 25.7 \quad 25.7 \quad 20.6 \quad 19.6 \quad 19.6 \quad 18.6 \quad 4.67 \quad 23 \quad 24 \quad 24 \quad 31 \end{array}$$

$$\begin{array}{r} 4.4 \quad 4.85 \quad 5.06 \quad 4.66 \quad 5.10 \quad 5.05 \quad 4.65 \quad 5.16 \quad 5.21 \quad 4.89 \quad 4.70 \\ 50 \quad 26 \quad 20.6 \quad 19.6 \quad 19.6 \quad 18.6 \quad 4.65 \quad 23 \quad 24 \quad 24 \quad 31 \end{array}$$

$$\begin{array}{r} 4.8 \quad 4.78 \quad 4.95 \quad 4.46 \quad 4.88 \quad 4.83 \quad 4.86 \quad 4.95 \quad 4.60 \quad 4.45 \\ 50 \quad 26 \quad 20.7 \quad 19.7 \quad 19.7 \quad 18.7 \quad 4.57 \quad 23 \quad 24 \quad 24 \quad 31 \end{array}$$

$$\begin{array}{r} 5.2 \quad 5.21 \quad 5.42 \quad 5.32 \quad 4.83 \quad 5.20 \quad 5.15 \quad 4.85 \quad 5.32 \quad 4.60 \quad 4.48 \\ 50 \quad 29.5 \quad 25.5 \quad 24.3 \quad 19.8 \quad 19.8 \quad 18.8 \quad 4.85 \quad 23 \quad 24 \quad 31 \end{array}$$

$$\begin{array}{r} 4.82 \quad 4.79 \quad 5.21 \quad 5.15 \quad 5.23 \quad 5.3 \quad 4.61 \quad 4.3 \\ 29 \quad 20 \quad 20 \quad 19 \quad 4.78 \quad 24 \quad 25 \quad 25 \quad 33 \end{array}$$

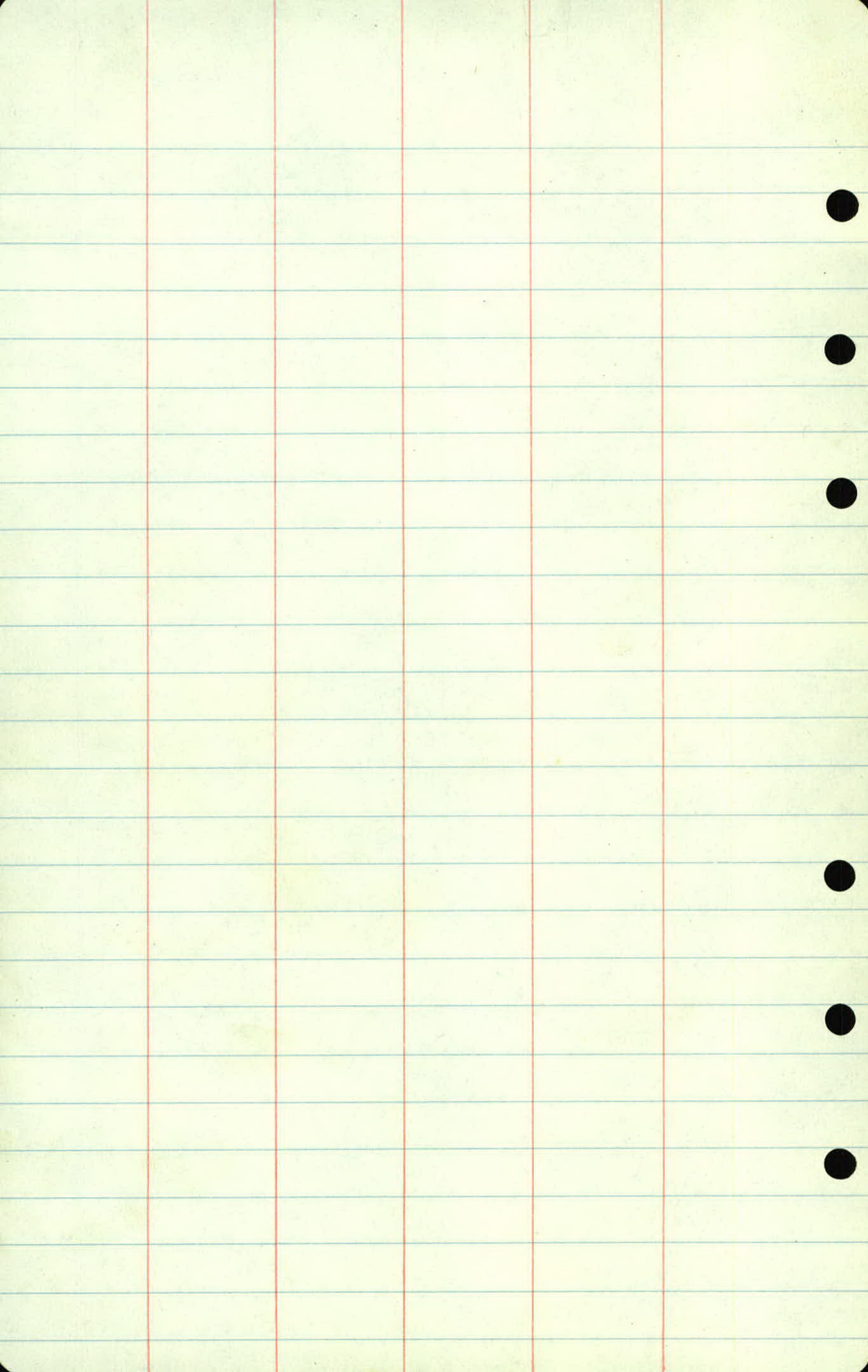
End Corb

Top Gas. Inlet

$$\begin{array}{r} 5.09 \quad 5.10 \quad 5.52 \quad 5.42 \quad 5.5 \quad 5.34 \\ 29 \quad 20 \quad 20 \quad 19 \quad 5.12 \quad 25 \quad 34 \end{array}$$

$$\begin{array}{r} 5.39 \quad 6.01 \quad 5.42 \quad 6.10 \\ 26 \quad 26 \quad 5.20 \quad 17 \quad 50 \end{array}$$

Top Breather Pipe N.W. Cor Front. 5th Ave



Alignment

Front St.

6th Ave to S.T.H #8

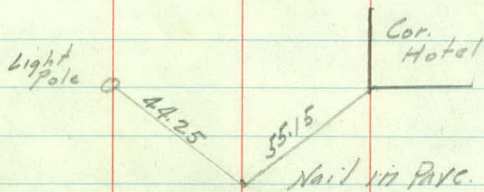
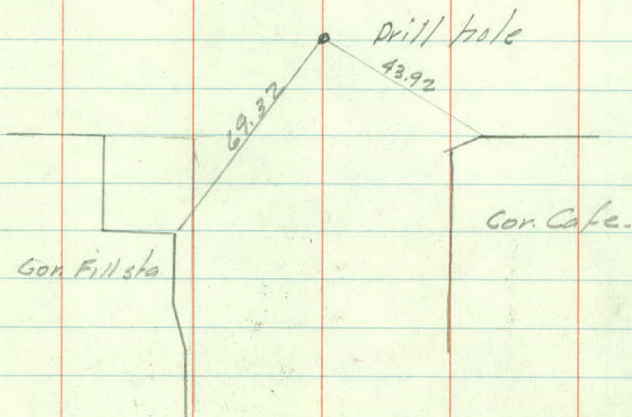
8/17/39

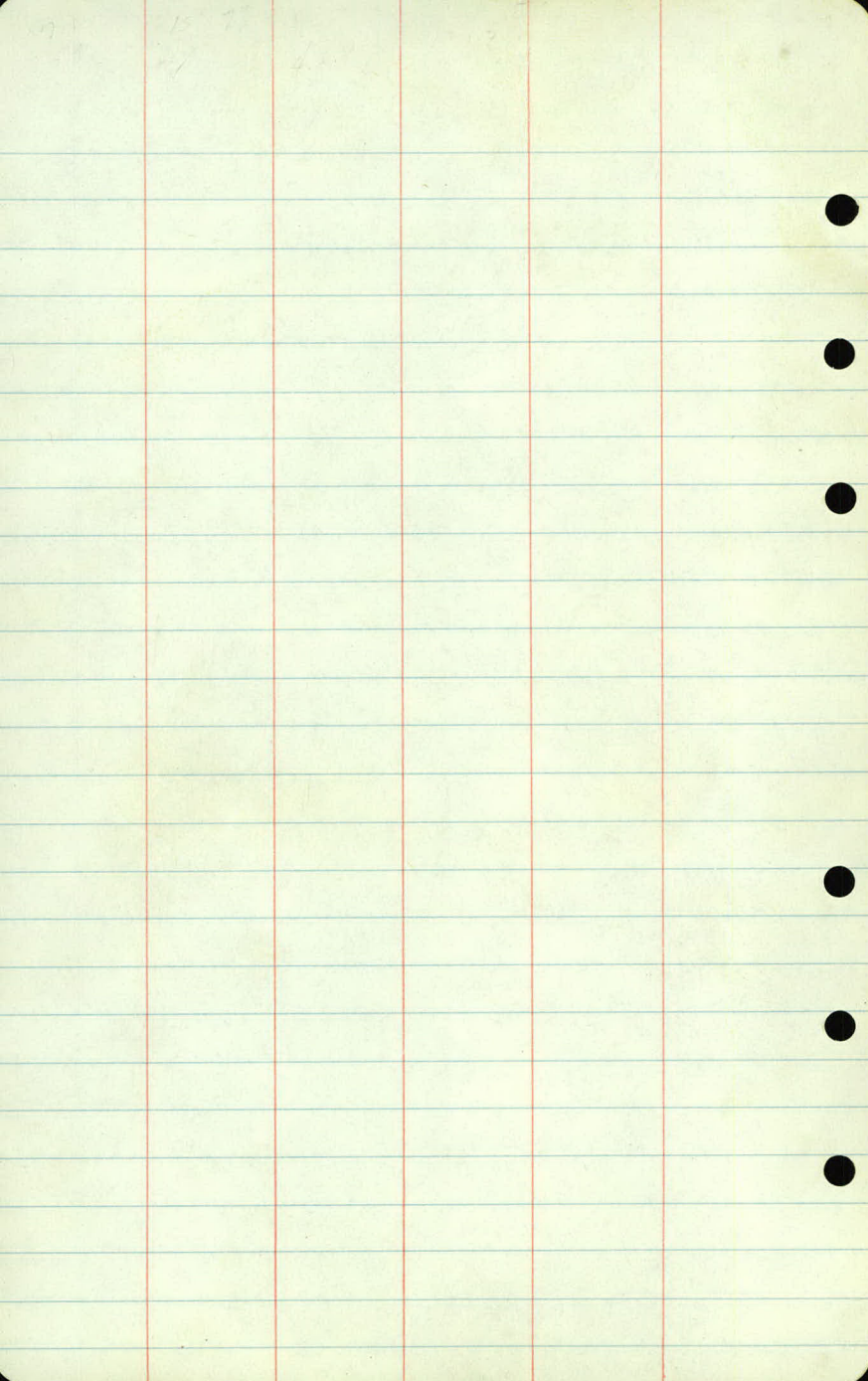
ROP
A.M.
L.G.
C.F.

Sta	Pt	Alt	Alt
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3717.48			
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0+00	P.O.T.	# Sixth Ave	
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3
Topography 1

FRONT ST.

NEW BRIGHTON

4

3

2

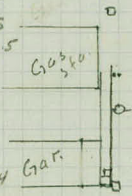
1

0

5 hldr x 24'

3 hldr x 54' - 12'

+90 C.B. 34.0
+64 End Curb 32.5
+82 Cor. Bldg - 40.5
+59 Gas Inlets 31.0-32.5
+42 Cor. Bldg 40'
+40 P.P. 30'
+07 G.B. 36.0
+25 Cor. Gar. 39.5
+00 Con Gar. 39.4
+00 M.H. 32.2 Curb 33.1
Par. 10 S.W. 33.7-37.4



+73 A.G.R. - 28"

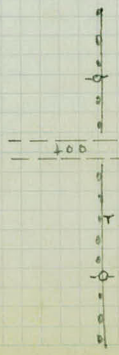
+38 P.P. - 29

+00 Ent.
Par. 10

+66 Hyd. 23.4

+35 P.P. 28

Par. 10 G.R. 26



Cafe

store

Hd.

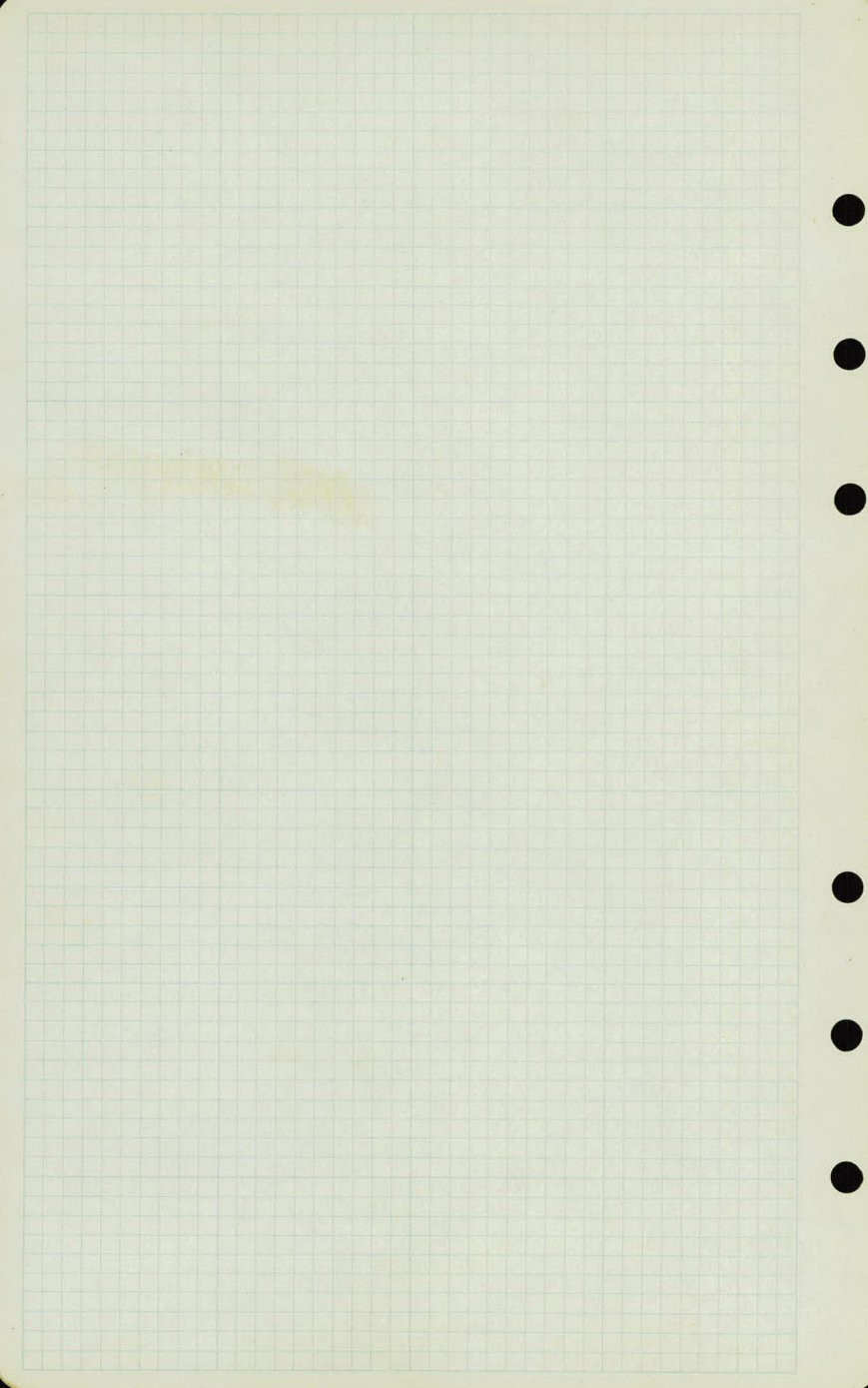
+17 Ent.
Gar.

Hotel

+60 Core Store. Cafe
+17 Cor. Store 33.4
S.W. 24.9 - 32.9
Paved Curb 24.3

+58 Cor. Ho 32.8
+44 Cor. Ho. 32.9
+38 Cor. Gar. 32.8
+17 Ent.
Walk 25.1 - 33.0
Par. 10 Curb 24.7
+98 Cor. Gar. 33.2
+95 Cor. Hotel 33.2

+44 Cor. Hotel 33'
+39 Walk 33.2-25.2
+28 Curb 24.8
Par. 10 Walk 26.32



Cross Sections
Front St.

NEW. BRIGHTON

Sta	+	Δ	-	Elev.
B.M.	2.13	889.70	5.06	887.57
0+00				85.38
+ 28				85.24
+ 60				85.10
1				84.97
+ 50				84.79
2				84.68
+ 50				84.50
+ 88				84.32
B.M.			5.06	884.64
				884.62

Top Hyd. N.E. Cor. Front E 6th

$$\frac{4.5}{31} \quad \frac{4.1}{25} \quad \frac{4.38}{10} \quad 4.32 \quad \frac{4.40}{10} \quad \frac{4.95}{26} \quad \frac{4.82}{32}$$

$$\frac{5.7}{33} \quad \frac{4.2}{29} \quad \frac{4.52}{10} \quad 4.46 \quad \frac{4.55}{10} \quad \frac{5.51}{25} \quad \frac{5.29}{27} \quad \frac{5.05}{33}$$

$$\frac{6.6}{35} \quad \frac{4.8}{30} \quad \frac{4.3}{24} \quad \frac{4.7}{10} \quad 4.60 \quad \frac{4.66}{10} \quad \frac{5.45}{24} \quad \frac{5.13}{24} \quad \frac{5.0}{33}$$

$$\frac{6.4}{41} \quad \frac{4.6}{27} \quad \frac{4.85}{10} \quad 4.73 \quad \frac{4.76}{10} \quad \frac{5.3}{24} \quad \frac{5.2}{24} \quad \frac{5.16}{33}$$

$$\frac{7.2}{37} \quad \frac{5.0}{33} \quad \frac{5.2}{24} \quad \frac{5.0}{10} \quad 4.91 \quad \frac{5.0}{10} \quad \frac{5.4}{24} \quad \frac{5.15}{24} \quad \frac{5.08}{33}$$

$$\frac{6.10}{40} \quad \frac{6.0}{33} \quad \frac{6.55}{33} \quad \frac{5.4}{21} \quad \frac{5.10}{10} \quad 5.02 \quad \frac{5.1}{10} \quad \frac{5.55}{24} \quad \frac{5.10}{24} \quad \frac{5.0}{33} \quad \frac{5.7}{42}$$

$$\frac{6.35}{}$$

Top C.B. on Walk

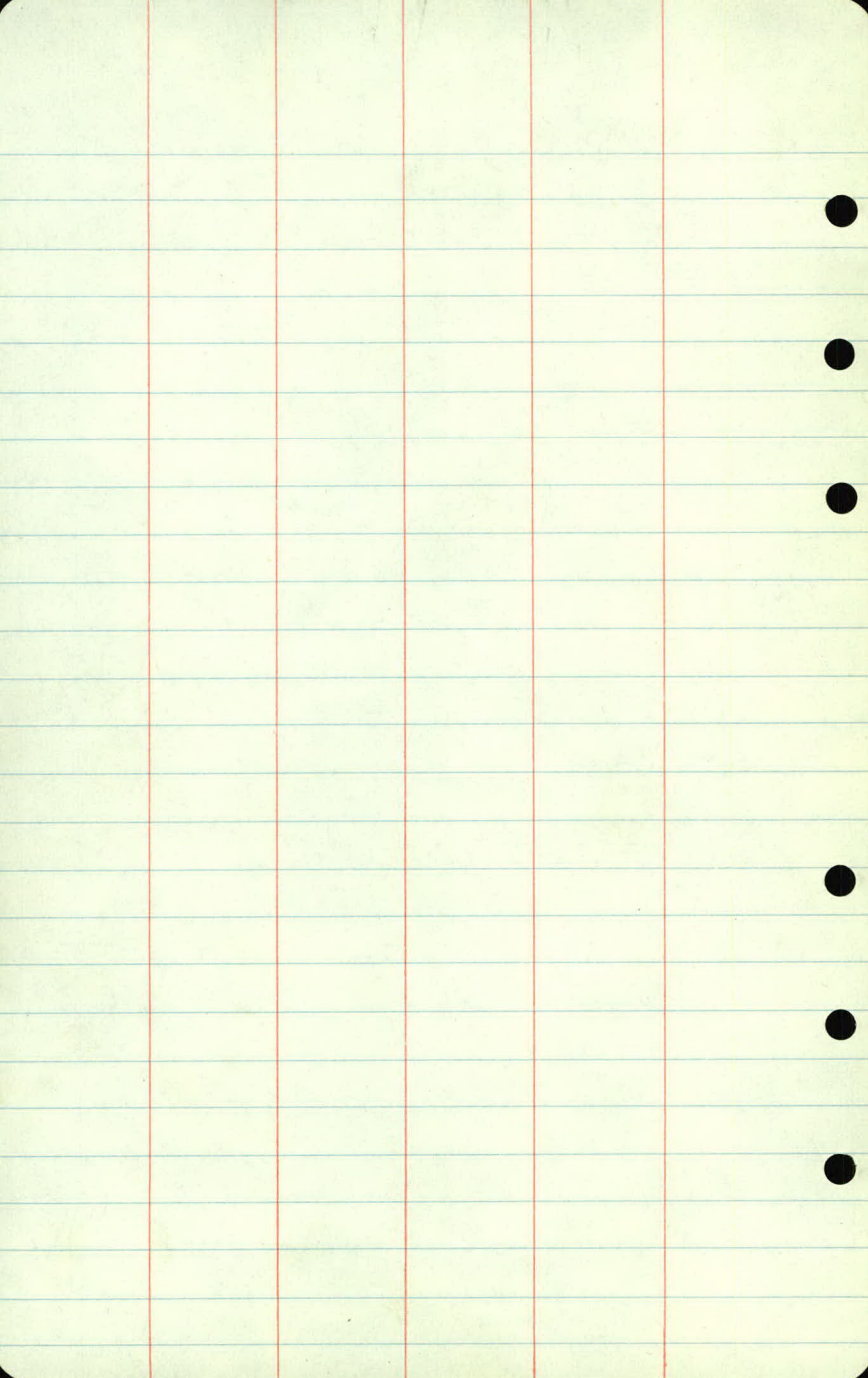
$$\frac{5.83}{40} \quad \frac{5.90}{33.4} \quad \frac{5.45}{32} \quad \frac{5.80}{32} \quad \frac{5.30}{10} \quad 5.20 \quad \frac{5.23}{10} \quad \frac{5.7}{24} \quad \frac{5.12}{24} \quad \frac{4.93}{33}$$

End Curb

$$\frac{5.40}{}$$

$$\frac{5.86}{44} \quad \frac{6.25}{34} \quad \frac{6.02}{25} \quad 5.37 \quad \frac{5.75}{23.4} \quad \frac{5.83}{24.4} \quad \frac{5.17}{24.4} \quad \frac{5.03}{33}$$

Top Breather Pipe N.W. Cor. Front - 5th Ave



①
Sidewalk Grades

S.T.H. #8

E. Side Sta. 6+88.22

to Sta. 12+28

Staked 9-25-39 3 Pages

Party
ROR
A.M.
L.G.
C.F.

0.3 Above $\frac{1}{4}$ " / ft Pitch
 2' Offset = 10' = $2\frac{1}{2}$ " x .21

Sta.	+ B.M.	π 0.68	- 897.53	Elev. 896.85
------	-----------	---------------	-------------	-----------------

6+88.22

7

7+25

+25

+50

+75

8

+25

+50

+75

9

+25

+50

T.P.	2.86	888.18	12.21	885.32
------	------	--------	-------	--------

Top Hyd N.E. Cor. 3.T.H. #8 & 8th St. No.

3.42	3.33	3.12
3.12	B.T	B.T

3.71	3.62	3.41
3.41	B.T	B.T

4.36	4.47	4.26
4.26	B.T	B.T

5.45	5.36	5.15
5.15		

6.31	6.22	6.01
6.01		

7.07	6.98	6.77
6.77		

7.94	7.85	7.64
7.64		

8.82	8.73	8.52
8.52		

9.75	9.66	9.45
9.45		

10.57	10.48	10.27
10.27		

11.44	11.35	11.14
11.14		

12.31	12.22	12.01
12.01		

0.3 Above $\pm$
 $\frac{1}{4}''/ft$
 $10' = 0.21$

Sta + π - Elev.

888.18

9+75

10

+25

+50

+75

11

+25

+50

+75

12

84.13

+25

84.13

T. P.

5.33

889.85

3.66

884.52

B.M. + 50

5.20

884.65

884.62

3.69	3.60	339
3.39		

4.48	4.37	418
4.18		

4.96	4.87	466
4.66		

5.26	5.17	496
4.96		

No stakes - Spillway

5.39	5.30	5.09
5.09		

No stakes As 424

4.60	4.51	430
4.30		

4.26	4.05
------	------

$$\begin{array}{r}
 .125 \\
 12 \overline{) 1.5} \\
 \underline{12} \\
 30
 \end{array}$$

$$11 + 75$$

$$12$$

$$+ 28$$

SIDEWALK IN NEW BRIGHTON

E. Side S.T.H. #8

from Garage to Front.

Grades for Curb.

Above Base.

0+00

Match

+25

+0.36

+50

+0.38

+75

+0.44

1

+0.50

+25

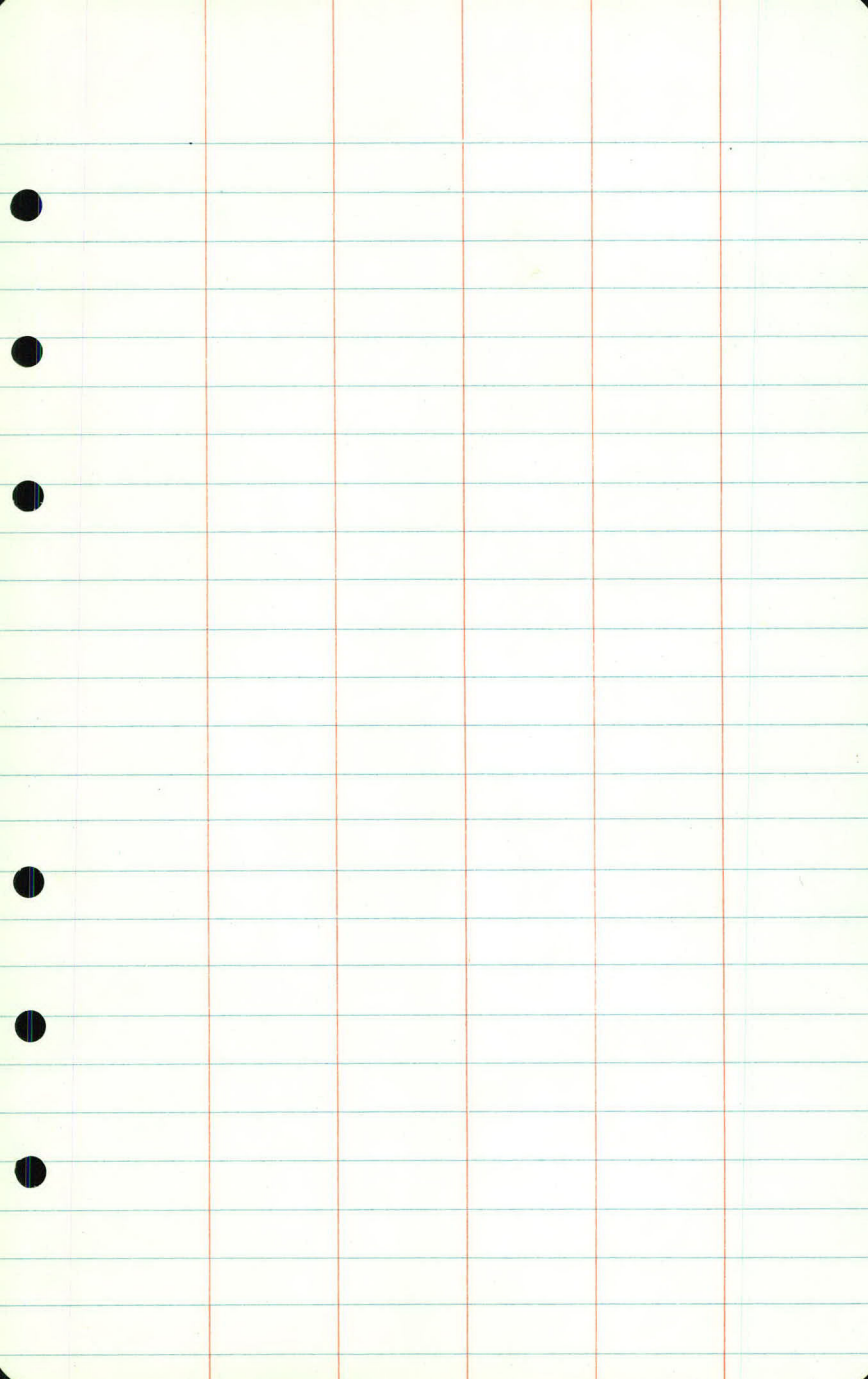
+0.47

+50

+0.50

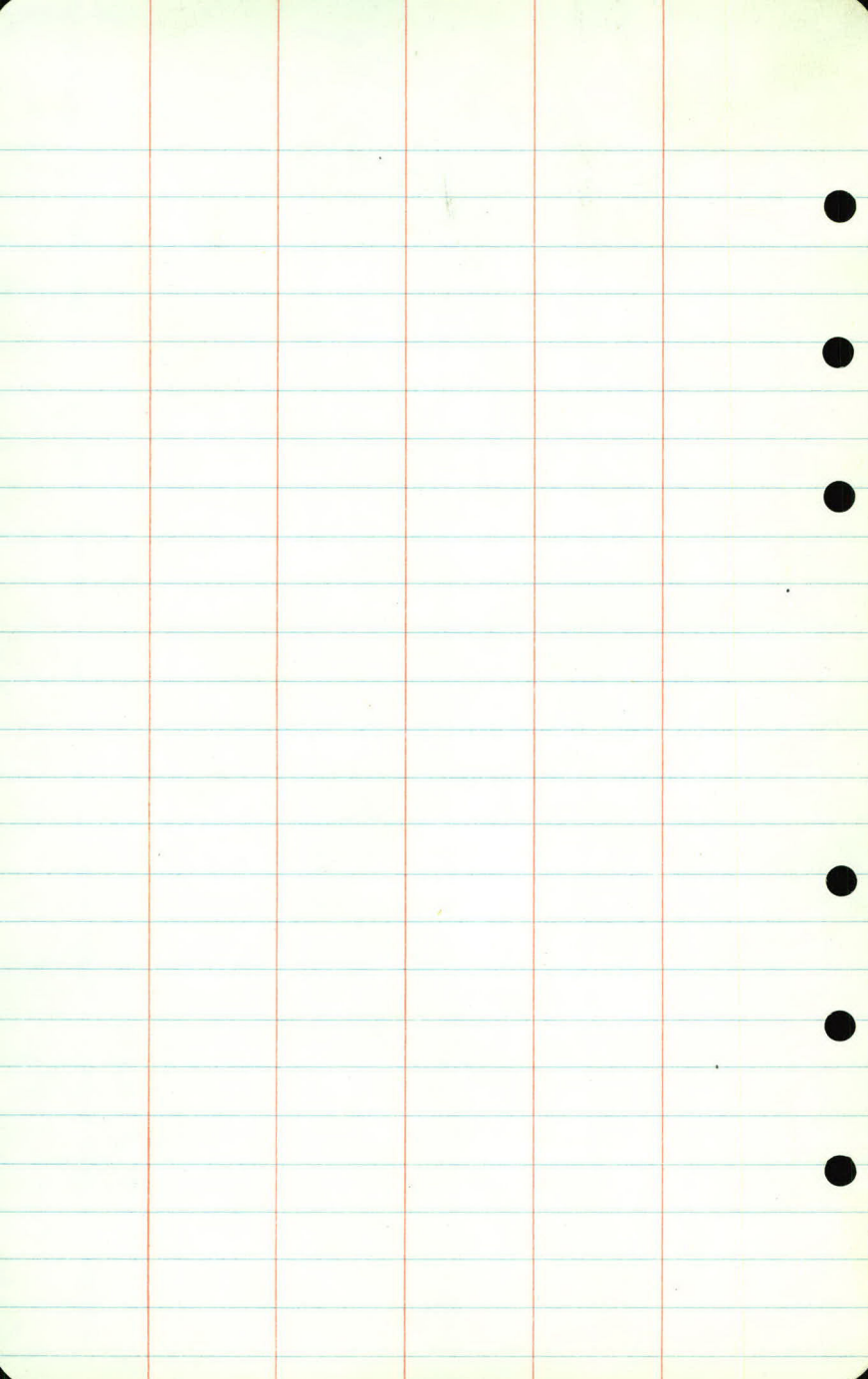
+55

+0.50



	Pace		Bldg Line S.W.		Curb Grades
B.M.	5.47	105.47		100.00	(Assumed)
0+00	5.73	99.74 99.93	5.29	100.12	100.00
+25	5.58	99.89	4.96	100.51	100.25
+50	5.37	100.10	4.95	100.52	100.48
+75	5.25	100.22	4.49	100.98	100.66
+90	5.22	100.25	4.41	101.06	
1	5.20	100.27	4.25	101.22	100.77
+25	5.19	100.28	4.22	101.25	100.75
+50	5.30	100.17	4.55	100.92	100.67
+55	5.32	100.15	4.61	100.86	100.65

Top Curb at Gas Pump - Chev. Garage.



Sidewalk in New Brighton

Sta. 7+66.74 to Sta 12+02

Lt. Side Only
on S.T.H. = 8

100.00

7 + 66.74

8

+ 25

+ 50

+ 75

9

+ 25

+ 50

+ 75

10

3.67

94.69

8.98

91.02

+ 25

+ 50

+ 79

11

+ 25

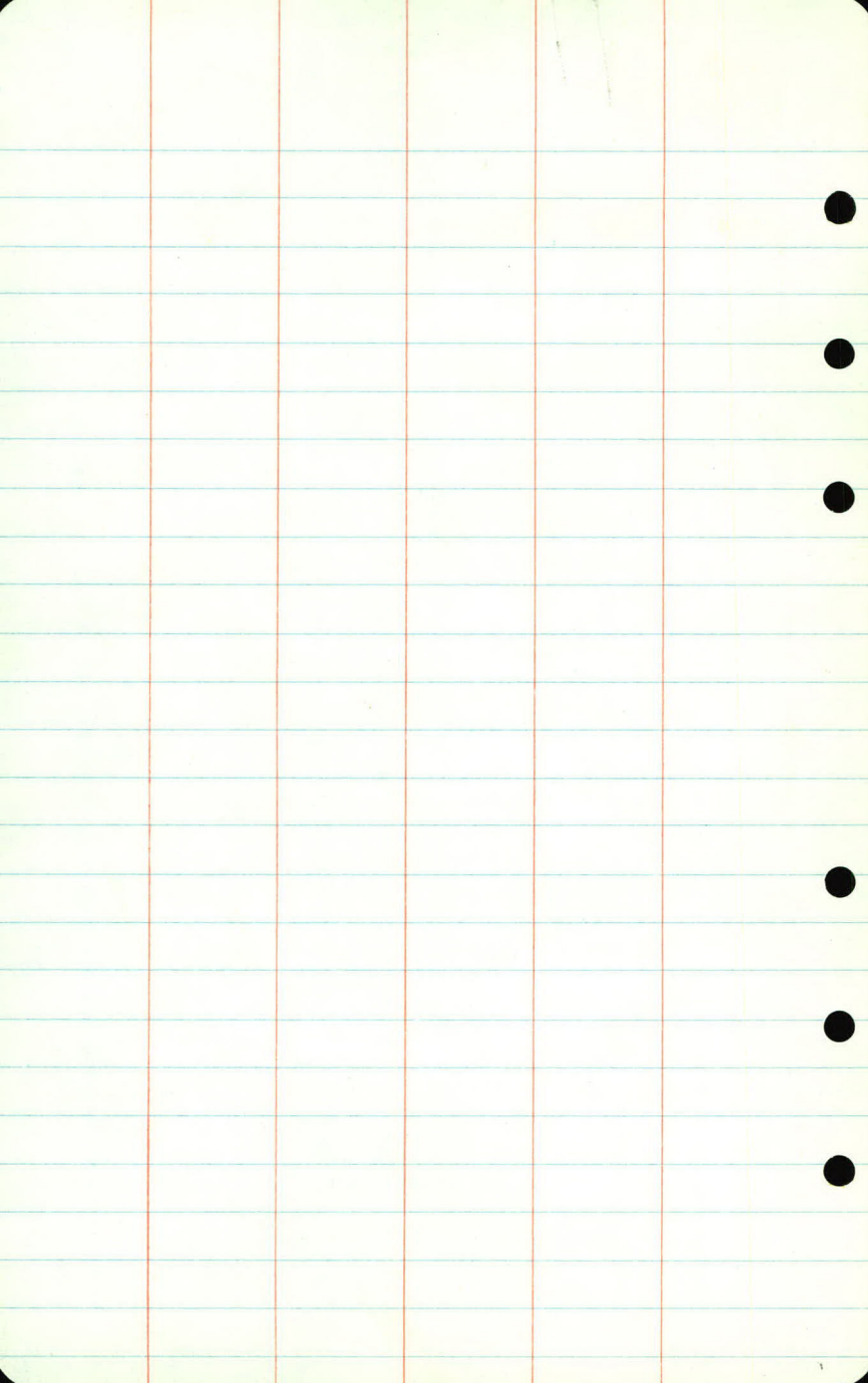
+ 50

+ 75

12 + 02

±	1/4" Per ft.				
	14.5 Top Curb	+14 21' Stake	+21 31' Stake	Edge S.W.	Far. Edge S.W.
					2.23
					2.
2.42	2.42	2.28	2.07	2.30	2.23
3.36	3.25	3.11	2.90	3.10	3.01
4.24	4.11	3.97	3.76	3.90	3.78
5.14	5.02	4.88	4.67	4.78	4.70
6.03	5.82	5.68	5.47	5.63	5.54
6.84	6.74	6.60	6.39	6.54	6.43
7.72	7.62	7.48	7.27	7.39	7.26
8.58	8.42	8.28	8.07	8.27	8.15
9.34	9.11	8.97	8.76	8.91	8.82
4.52	4.22	4.08	3.87	4.06	3.98
4.78	4.58	4.44	4.23	4.51	4.43
4.99	4.59	4.45	4.24	4.96	4.88
4.94	4.60	4.46	4.25	5.00	4.92
4.77	4.46	4.32	4.11	4.76	4.71
4.46	4.25	4.11	3.90	4.48	4.42
4.10	4.08	+0.9 4.00	+21 3.79	4.23	4.10

Bridge



Sidewalk Grodes

NEW BRIGHTON

W. Side

STH ^F 10

from 7th to 8th

4/25/40

Sta.	+	<u>X</u>	-	Elev.	
B.M.	0.13	911.42		911.29	4.40 4 4.0
0 + 30			4.40		
+ 50			4.71		
+ 75			5.07		
1			5.47		
+ 25			5.87		
+ 50			6.31		
+ 75			6.72		
2			7.16		
+ 25			7.62		
+ 50			8.05		
+ 75			8.47		
3			8.90		
T.P.	2.95	905.87	8.50	902.92	
+ 25			3.79		
+ 50			4.25		
+ 75			4.74		
4			5.25		
+ 25			5.76		
+ 50			6.26		
+ 75			6.75		
5			7.29		
+ 25			7.80		
+ 50			8.31		
+ 75			8.89		

Top Hyd. S.T.H. 10 and 7th St.

4.00

22

4.31

22

4.67

22

5.07

22

5.47

22

5.91

22

6.32

22

6.76

22

7.22

22

7.65

22

8.07

22

8.50

22

3.39

22

3.85

22

4.34

22

4.85

22

5.36

22

5.86

22

6.35

22

6.89

22

7.40

22

7.91

22

8.49

22

Sta.	+	π	-	Elev.
------	---	-------	---	-------

		905.87		
--	--	--------	--	--

6				
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			9.47	
--	--	--	------	--

128				
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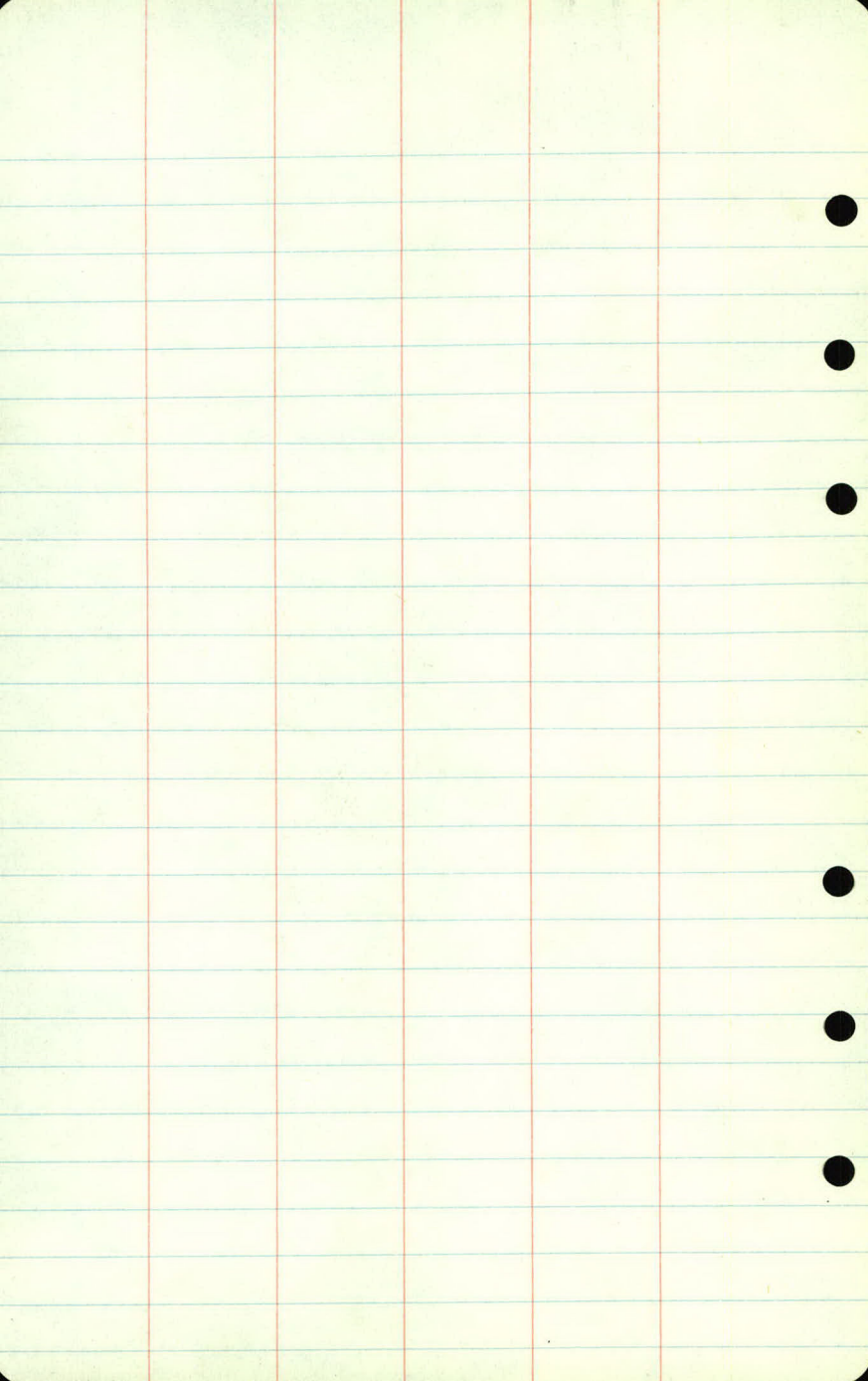
			10.19	
--	--	--	-------	--

987

22

9.79

22



S.W. Grades

NEW BRIGHTON

W. Side S.T.H. # 8

Sta. 6+88.22

to Sta. 7+67.60

Grutter
shot

sto.	x	π	—	Elev.
------	---	-------	---	-------

6+58.22

5.87

7+28.77

7.18

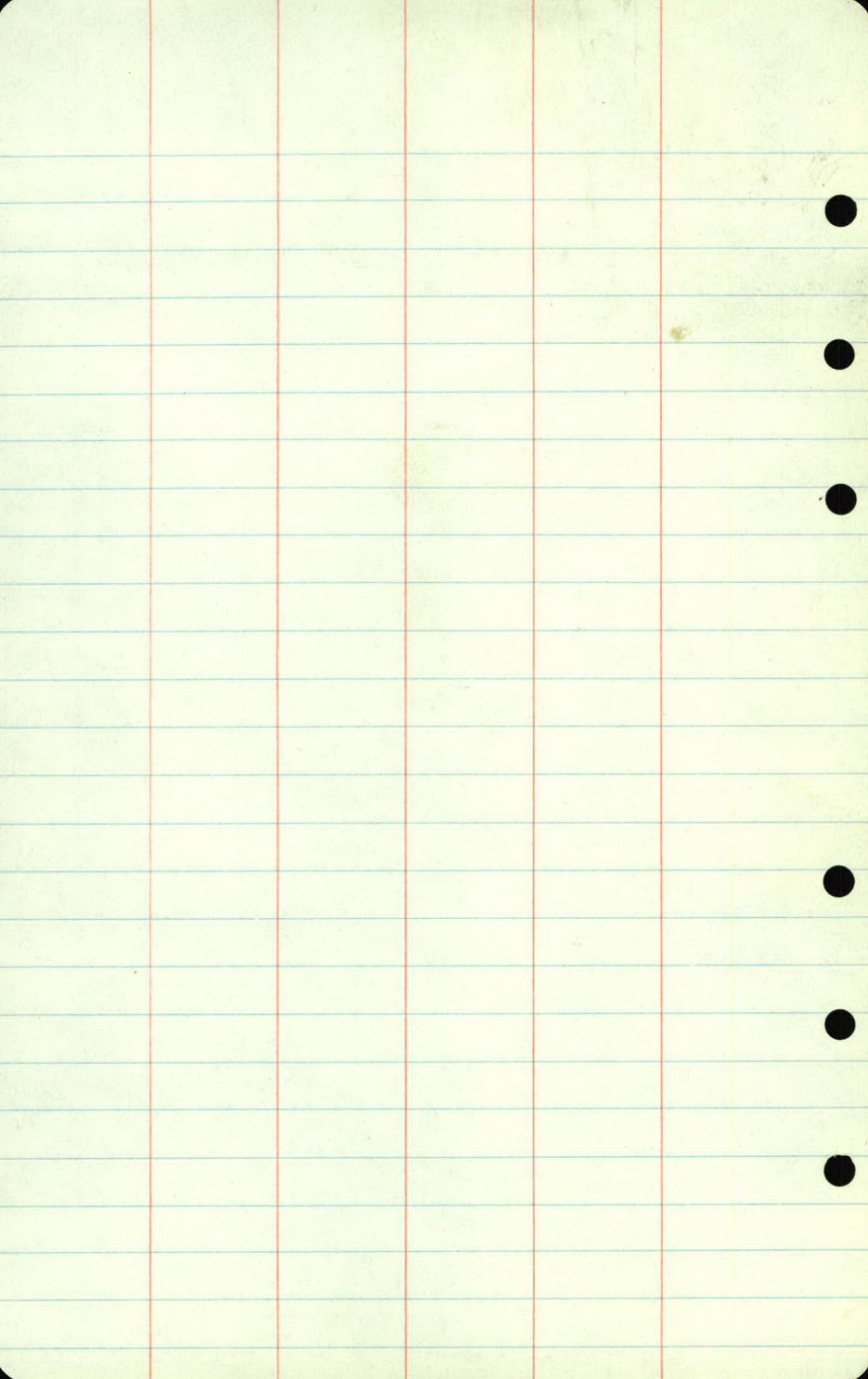
7+67.60

8.43

$$\begin{array}{r} 547 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 678 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 800 \\ \hline 22 \end{array}$$



Sidewalk Grades

S. I. H. # B

New Brighton

12 $\frac{.16}{2.80}$

Inside Inside Hub outside Hub.

End S.W. Village Hall

4.12

N. 25'

3.96

6.82

N. 50'

3.84

24

2.96

3.86

End S.W. Hwy.

5.43

1.93

1.97

S. 25'

5.15

S. 50'

4.68

N. End S.W.

5.43

5

✓

first Hub

5.43

5.47

✓

5.26

Second Hub

5.13

5.16

✓

4.95

Third

4.82

4.86

✓

4.65

✓

Fourth

4.52

4.56

✓

4.35

✓

Fifth

4.22

4.26 out.

4.05

End S.W. Village Hall

4.12

McGillis & Gibbs

+25

3.99

4.16

+50

4.92

5.09

+75

5.89

6.06

Grades for School

Long Lake Rd.
at Cemetery Rd.

Sta	+	π	-	Elev.
B.M.	4.86	911.62		906.76
6+50				02.65
+92				05.7
7				03.06
+26				05.5
+33				05.4
+50				03.35
8				03.7
+50				03.7
9				04.3
+50				05.1
10				06.0

08.97

$$\begin{array}{r} 6.97 \\ \text{Down } 2.0 \\ \hline 35 \end{array}$$

8.62

$$\begin{array}{r} 5.62 \\ \text{Down } 3.0 \\ \hline 35 \end{array}$$

8.27

$$\begin{array}{r} 5.27 \\ \text{Down } 3.0 \\ \hline 35 \end{array}$$

7.9

$$\begin{array}{r} 4.9 \\ \text{Down } 3.0 \\ \hline 35 \end{array}$$

7.9

$$\begin{array}{r} 4.9 \\ \text{Down } 3.0 \\ \hline 35 \end{array}$$

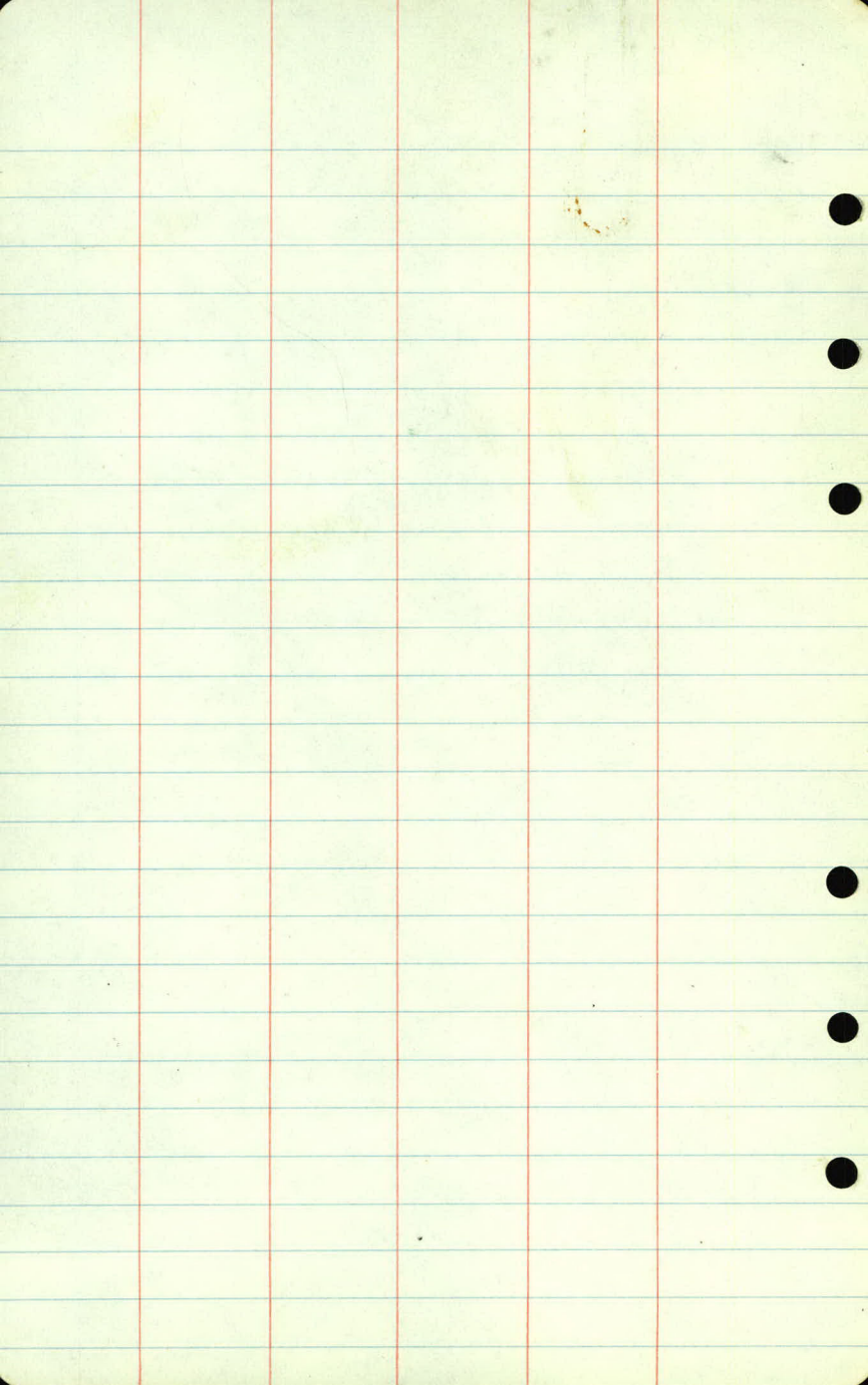
7.3

$$\begin{array}{r} 4.3 \\ \text{Down } 3.0 \\ \hline 35 \end{array}$$

6.5

$$\begin{array}{r} 3.5 \\ \text{Down } 3.0 \\ \hline 35 \end{array}$$

5.6



Sidewalk stakes
New Brighton

E. S.T.H. #8 from 7th to 6th

Sta	+	π	-	Elev.
B.M.	2.64	913.93		911.29
1+20				07.23
+50				06.76
+75				06.36
2				05.97
+25				05.57
+50				05.18
+69				04.88
3				04.03
+25				03.43
+50				02.67
+75				01.98
T.P.	2.33	904.31	11.95	901.98
4				01.30
+25				00.73
+50				00.05
+69				99.42
B.M.			7.50	896.81

Top Hyd. - 7th & 5th

<u>7.17</u>	<u>7.34</u>
22	30
<u>7.57</u>	<u>7.74</u>
22	30
<u>7.96</u>	<u>8.13</u>
22	30
8.36	8.53

8.75

<u>9.05</u>	9.22
9.90	10.07

<u>10.53</u>	10.67
11.26	11.43

11.95	12.12
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3.01	3.18
------	------

3.58	3.75
------	------

4.28	4.45
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Top Hyd. 6th & 5th

