

SEYERAGE
OF
SAN DIEGO CAL.
MEASUREMENTS

TRANSIT BOOK

12

F.B. 735

72



207.6

Notes

Inspection notes are only approximate
 on street line
 Whenever a line ends with a F bus tank
 2 feet is deducted on the final
 estimate.

Running

South on Arctic from Unimapper to Hawthorn
 39+115 F. Wash tank end of sewer

Running E on Unimapper from California to Arctic

32+82 E.C. of Curve 355 of S. zone of Unimapper
 31+64 B.C. of Curve to Arctic 70 Radius Length 118

* Running N on California from Park

30+91 E.C. of 70 Radius Curve 37 1/2 E of E line of Calif
 29+71.2 Inspection on pipe
 29+20 P.C. 70 Radius curve right, to Unimapper St (Length 118) curves

26+141

26+11

center of Toy (Mark on inspection hole)

26+127

inspection hole near center of Toy

22+33.9

center of Curve to Hawthorn

21+90.4

inspection hole South side Hawthorn

18+53.8

18+51

center of California to Arctic Curve

18+147.6

18+29

inspection hole S. side of Grappa St end of long curve

14+32.4

inspection hole South side of Fir street

14+09.

inspection hole South side of Dale street

6+66.8

center California to Arctic for 30m here means distance

7+226.9

inspection hole South side of Cedar

3+66.7

center of California to Arctic

3+405.1

inspection hole South end of Beach

0+62.2

End of curve

0

Foot with man at 0.5 m

R

54210 1544

Sta

Old Sta

Remarks

Sept 15, 1944

Arctic Street from Ash to 127

1074058 15700
 117042 11702
 77289

F Washburn also Stone of Fir

Inspec of Stone of Date

Inspec Stone Cedar

3-4052

+44

+42

0

0

Inspec also Stone Beech

N Stone of Ash

Inspection Stone of Arctic #1 Marine Ash

* Arctic Street

H to A St

50557

Center of Arctic + Spruce

59
56

Fur of Spruce

26736

Stone of A St

Inspec. Stone of B St

197167

Center of Arctic + CST

Length of Arctic 20176

Stone of D St +

no Inspection Stone of Stone of Emmer

Inspection Stone of F

77921

Inspection Stone of G St

34583

N Stone of H St

0

Inspection Stone of Arctic + Marine Stone

0

0

Station 02251a

East on Vintner from Indiana to Union

continued on

page 9

left 1/2 p

147p

BC of Curve Right 1/4 mi.

Center Vintner + Columbia Blvd

Tussock W. Line of Columbia

E.C. 5 1/2' E of E Line Indiana

North on Indiana from Grapes to Vintner

Center Vintner + Indiana

Tussocks BC of Curve Right Length 1/2 mi.

S. Line of Howard Horn St

= 5+92 on Grapes + Line BC. Left

North on Columbia from Grape to Ivy

Center of Columbia + Ivy

Tussocks R. S. Line of Ivy

= 907 N of N Line of Grape

Partly

Don Miller

C. F. Rice

E. V. Westinghouse

B. W. Hoar

1117
117815+65.5
13+98
13+58.1

11+92.6

(11+30.2)

10+74.6

3+48.4

0

7+30.2

1

0

805 on Grapes + Line BC. Left

3+48.1

1

= stop on Grapes B. Curve Right

Right 1/2 p

147p

Grapes + Line Call for note to Columbia

8+31.3

7+36.5

5+21.7

2+40.3

1

0

6+32

5+14

2+42

0

Center of Columbia + Grapes

Tussock W. Line of Columbia

Tussock W. Line of Indiana

Tussock W. Line of Grapes

36.5 E of E Line of Grapes

= 1+30.15 on Call. at 0+21.7 + 1/2 mi.

Y North at 1+07 on Call

Y S " " 1+09 "

257 N

254 S

The sewer station is well beyond road

Sept 19 1888

South on INDIAN from Grape to Fir

4+28 St Center S zone of Fir
 3+48 Fir & Fir Street
 3+46 S zone of Grape old fence
 0 Ind India St + Grape St corner
 0

North on INDIAN from Ash to Fir

16+47.3 South zone of Fir
 16+28.9 Fir & Fir Street
 11+99.6 St Center N zone of Date
 7+79.5 Center of India + Cellar
 3+50.1 S zone of Beech
 159.5 N zone of Ash
 0

Maple Ash + India west of Ind. Hill so called N zone of Ash. St. on 99.5

North on INDIAN from Ash to Fir

30+15.7 S zone of Ash
 29+98.2 Fir & Fir Street
 26+36.7 S zone of Ash
 19+56.4 N zone of C St
 14+81.6 S zone of D St +
 14+79.8 Inpec D St
 11+43.7 Center of India + E
 8+06.1 N zone of E St
 7+29.5 Inpec E St
 4+32 North zone of C St
 3+54.8 Inpec C St
 0+52.1 Equatorial contact of C St + D St
 1+56.5 N zone of H St
 0 Ind of Main Corner of Inpec St corner

Sept 19 1888

SOUTH ON COLUMBIA FROM H 101

Sept 19, 1888

344.1

0

NORTH ON COLUMBIA FROM H 101

30+81.2

Corner of Fish + Columbia

29+97.5

(upper part) ^{100 ft} Fish + St. Street

23+01

Center Columbia + B Sts.

22+56.5

Inspec B St

19+60.6

N zone of CST

16+10.5

N zone D St

14+84.7

Inspec D St

7+38.6

Inspec F St

3+09

Inspec G St

1+57

N side of H St

0

Int Columbia + St. James + H St

Sept 19, 1888

NORTH ON ARCTIC FROM STAPE TO HAWTHORN

3+47.3

Fish + Hawk St zone of Hawthorn

0

int of Columbia + Grape St

SOUTH ON ARCTIC FROM STAPE TO F ST

4+27.0

St. Center + zone F St

3+48

Fish + Hawk N side F St

0

Int of Arctic + Grape St sewers

Sept 19, 1888

Sept 19 1888

South on STATE from Verriper to Hawthorn

- 7+69.6 Center State + Hawthorn
- 7+27.3 Fresh tank N Side Hawthorn
- 3787.1 Center State and Jug
- 347 Inspec N Side Jug
- 0 = 93. feet S of Center Verriper + State
- 0 hot State + Verriper St Saver's

South on COLUMBIA from Verriper to Ivy

- 3+47 Fresh tank Jug 5
- 0 hot of Columbia + Verriper St Saver's

Northern COLUMBIA from ASH to PIR

- 17+29.7 St Center S zone of Fish
- 17+14.5 Fresh tank Fish State
- 14+07.7 Inspection E Zone St
- 11+65.4 St Center N zone of Date
- 11+06.4 Inspec Date St
- 7+25 S zone of Cedar
- 7+24 Inspec Cedar St
- 3+46.4 Inspec Beech St
- 1 = 94 N of Center of Fish
- 0 hot Columbia + ASH St Saver's

Sept 19, 1881

Northtown State from Ash to Hawthorn

30+255	Center of Hawthorn State	0
29+85.6	Fraser's SS Hawthorn	389
26+41	Center Grapt State	389.5
26+035	Inspic SS Grapt St	422
22.24.9	Inspic SS Ft	640.5
18+91.3	Con State # Ft	11434.2
16+053.8	Inspic SS E 2nd	11472.2
15+03.5	Inspic SS Date	15422.1
11+65.9	Center State + Cedar	16454.6
11+26	Inspic SS Cedar	1493
0 to 11+26 = 726 feet	400' Mass take	
0	But State + Ash + Seneca	

Sept 19, 1880

Northtown State from Ash to 7102
Fraser's bank3410
315
75514991
732
2625

Sept 17, 1888

North on Elba from front made Union to log

13449 Fushank R 09S of zone of log

9469 Inspee SS Hawthorne

6468 N. zone of Grape Street

5488 Inspee SS Grape

3410
651
3495

210.5 Inspee SS Fir

0 but with Union Station at Sta 16476

11385

North on BROAD from front with Union to Dunper

94579 Center Broad & Inspee

94195 Fushank SS Inspee

5497 Inspee SS log

1458 Inspee SS Hawthorne

0 = 25+43 on Union St 070/458 = 147'

Continuation of West St zone down Union to Hawthorne Sep 4

19486.8 EC of Curve

23+58.5 Inspee SS log

26+33.5 Fushank S. of N. zone of Hawthorne

North on Union from E. to Hawthorne 3

27+48 Center of Hawthorne

26+80.6 Fushank SS Hawthorne

25+43 N. zone of Grape St

23+17.5 Inspee SS Grape

19+06.8 Inspee SS Fir

16+72.4 N. zone of Elba

15+11.5 S. zone of Elba

11+17.6 S. zone of Elba

7+40.9 S. zone of Elba

0 Found the old pipe on curve

0 Marble Cen. Flk + W. zone of Union

DOWN
E. L. N.
2833
2980
2990
Sept 19, 1888

340.9
3009

Sta 09 = 66.0

Sept 17th
 Party { ETM Reel
 S. M. Zimmerman
 V. R. R. Tape
 D. Woodruff Flag
 Rust
 Tape
 Tape

Southern Union from FISH to A

1792.9 Marsh bank 132' S of zinc of ASD
 0 Marshote Cen. of ASD & N. zone of Union

North on Union from I to JSH

32455 F. Rust tank 100' N of A.

30+235 S. property zone of ASD
 22+61.8 Inspec. SS. CST 1' S of Property zone
 19+93 N. zone of D
 18+70.4 Inspec. SS. D.S.
 11+56.5 Center of F.S. + car track
 11+16.5 Inspec. SS. F.S.
 7+44 Inspec. SS. G.S.
 4+43.5 N. zone of H.S.
 + 59 F.D.
 0 Int. of Union's I.S.T. center

Southern Columbia from H

1784 F. Rust tank
 + 59 BC
 0 Int. of Columbia & H.S. center
 75 15

Sept 20 1954

North on FRONT from T to Duniper

4EJ26
 Center Duniper & Front
 E Duniper & Duniper
 Inspec Hwy St
 S Zone Grape
 Inspec E 2nd St also Spragg Zone
 49+24.5
 56+19
 64+53
 85+09.5

41+68.5

S Zone of Cedar-

34+04.7

Inspec 1.5 S of S Zone A St

31+06

N Zone of A St

27+25

N Zone of B St

26+44.5

Inspec B St

23+66.4

Inspec 2' N of N Zone C St

19+95

N Stake A D St

18+68.4

Inspec W St D St

14+93.4

Inspection S E St

11+94.5

N Zone of E Street (N Stake)

7+44.4

Inspection S S St

4+43.5

N Line of H St

+09

E C

Intersection of Union & Street Siders

Sept 20 1888

Norfolk FIRST from I to Vampoor

68+44.9	Center Vampoor + First / Fresh Tank Vampoor	634
61+03	S. Zone of Hawthorn	0
54+21.3	N. Zone of E.T.	7 363
49+60.3	Vampoor also S. Zone of Elm	49
45+78.9	Vampoor Date	14 20
	Vampoor Cedar	14 81
	Vampoor Ash	22 624
	Vampoor S. Street 1.5 S of S. Zone	26 43
	Vampoor B. St also S. Zone	34 02.7
	Vampoor C. St 1.5 of S. Zone	37 00
	Vampoor D. St also S. Zone	48 642
	Vampoor E. St 2.5 of S. Zone	48 45
		49 402
		50 071

0+74.5
0

Vampoor G. St
Vampoor H. St also S. Zone
Vampoor I

067
6466
64413

Sept 20 1888

South of SECOND from Hawthorn to Grape

34946 Center 2^d Grape
 34955 F Bush tank N^s Grape St
 0 Int of R¹ + Handth St Sewer

North on SECOND from Vto Grape

61714.3 Center R¹ + Grape
 60.7415 Flush bank < Grape
 56.79213 Inspec Fir also Stone
 53.71055 Inspec Elm
 49.72916 Inspec Date
 45.749.5 Inspec Cedar
 41.7697 Inspec Beech also Stone

37.7184 Inspec Fir also N of Stone
 34.7075 Inspec Fir also Stone
 26.74611 Inspec CST 10^s of Stone
 22.752 S^s Zone of D^s St
 22.7485 Inspec D^s St
 18.716 Inspec E^s St 10^s of Stone
 15.7087 N^s Zone of E^s St
 11.7285 Inspec E^s St
 7.7252 Inspec G^s St
 4.7255 Inspec N^s St
 3.7445 N^s Zone of I
 +45 Inspection I^s St
 0 E^s & N^s Zone of V^s St
 0 Int of R¹ St Sewer + Manure Zone

Sept 20 1949

Southam THIRD from Hawthorn to Grape

43.9
3+64.7
0

Fresh bank 354 Grape 1" S of Nizne
6x6 Y South to Sta 5721 Hawthorn

Northern SE COND from Hawthorn to Venzper

74.36
3+55.2

Can R + Venzper
Fresh bank
- truspec logst
6x6 Y at 2+43.5 on Hawthorn

391
3708

Northern THIRD Street from Hawthorn to Venzper

1310.9
12+81.5
6+02.1

Easton Hawthorne from 1st St 3)

6+02
3+21

EC on 3rd St
6x6 Y South

5.00
2+43.5
2+41.1

BC 90%
6x6 Y North
6x6 Y South
= Sta 6121 on 1st St on Sta Sta 6143

Sept 20 1881

North on THIBD from V to Grape

60+74.5	Elizabeth tank & 3rd Grape 1.5 of S zone	7612
53+133	Inspec E 2m	11421
49+38.4	Stone Date	14427
46+31.8	Mining of Cedar	15237
45+30.8	Inspec Cedar	22137
37+90.8	Inspec Ash also S zone	2644.6
34+09.7	Inspec Ash + 0.7 S of S zone	30417
30+28.8	Inspec B S + 0.5 S of S zone	3725
26+47.9	Inspec C S + 1/6 "	34266
23+49.5	Inspec D + D (position here)	3725
18+89.1	Inspec E S + 1.0 N of S zone	41154
11+27.5	S zone of G	4947

8+27.5
0+47
0

A zone of H
N zone of V
out of R of S zone + N zone

5229
60275
60790

Sept 21 1988

ET Mueller
 Fr. Weitzmann
 U.F. Rea
 B. Woodruff

Northern NINTH from 1 to Deck

56+427
 53705
 45+49
 41+619
 37+101
 30+24
 26+38.6
 19+591
 14+78.4
 7+945
 5+991
 0+38
 0

Flush tank
 S Zone Cedar
 S Zone of 952
 Inspec. 954
 S. Zone of BST
 S Zone of DST
 Inspec. EST
 N Zone of GST
 Inspec. N5T
 N Zone of DST
 Inspec. K5T
 N Zone of LST EC
 Int of 9th + LST Sewer

304
 31
 3003

Northern EIGHTH from D to Date

2641.8
 0
 0

Flush tank
 Inspec Beech
 Inspec 952
 Inspec 954
 Inspec BST
 S Zone of D

734.9
 1159
 1496.8
 1123
 2641.8

Northern SEVENTH from D to Date

26+142
 19+16
 7+61
 3+80
 0
 0

F. Wustlan & N Zone of Caruthers
 S. Zone of AshST
 Inspec BST
 Inspec CST Also S Zone
 S Zone of DST

Sept 21, 1948

North on TENTH from L to Date

56+82.5

Brushbank

Inspec Cedar ST

Inspec Beech ST

Inspec Ash ST

Inspec A ST

S Zone of C ST

Inspected S. also S zone

Inspec E ST at S. of S. zone

Inspec G ST

N Zone of 15.5

Inspec K ST

N Zone of L

Part of 15th + L ST (pena)

0+38

0

0

378.8

752.1

1137.4

1514.3

2278.0

2659.0

3039.0

3800.0

4500

5240.2

Sept 21 1941

North on TWELFTH from L to R
Fresh tank 15 of S zone of HST

S zone of C
Inspecc E ST
Inspecc F ST
Inspecc G ST
Inspecc H ST
S zone of U
S zone of K
S zone of I

0
7564
15207
19008
22811
26792
34448
4122
4169

0+41
0
0

North on ELEVENTH from L to R

4159.4
38+62.6
30+19.8
2640.1
18+78.9
14+79.4
10199
7+10?
3+38
+38.0
0

Fresh tank
N zone of B
S zone of D ST
S zone of E ST
Inspecc G ST
Inspecc H ST
Inspecc I ST
Inspecc J ST
S zone of K
S zone of L
Int of 11th & L ST sewers

STW
To 0+38=71

Sept 21

720

$$\begin{array}{r} 449 \\ 2219 \\ \hline 2710 \end{array}$$

West on from 15th & North on 19th to A

27+00

F Wash tank 19ST

S zone of BST

S zone of C

Inspec ID ST

Inspec E ST

Inspec F ST

E.C. structure R. Length 118'

Int of 15th & GST Sewers

DCM 2710

3793

2522

17425

17225

19039

22139

5+31

4+13

0

0

North on THIRTEENTH from D to E

11+09.4

F Wash tank 19ST

7+27.5

Inspec BS

3+47.2

Inspec C ST

+59

E.C. 13 Not N zone of D

0

= STs 2+60 and D ST zone

South on THIRTEENTH from D to E

7+26

F Wash tank F ST

4+9

EC 18 S of S zone of D

0

= STs 2+60 and D ST zone

North on THIRTEENTH from L to F

22+39.4

F Wash tank

18+53.5

Inspec G ST

14+82.7

Inspec 14 ST

11+02

S zone of ISB

7+21

Inspec V ST

3+40.5

S zone of K

+59

EC 19' Not N zone of L

0

Int of 19th & L ST Sewers

add 5 on B thru 19
for C's and E

Sept 21
 E. T. Williams
 J. H. Kern
 B. W. Williams

3466 South on Fourteenth from G to H
 F two tank N zone of H.

0 0 two of 14th & 13th corners

North on Fourteenth from L to H

144597

7+21

3+37

3+40

+59

0

F two tank ^{23.5} S of S zone of H
 S zone of V N F

3+24 6x8 Y East fork ST

3+88 S zone of F K

E. G. 19 N of N zone of L

0 0 Int of 14th & 2nd S. S. S. S. S. S. S.

Sept 21 1878
 West on D from 27th to 13th

2+86 Y block

2+84 Y S on TL

2+46 E zone of 18th

+59 E C 18 N of N zone of 14th

0 0 Int of 14th & D St corners

Sept 22

West on C St from 16th

Flush tank

Int of 15th & C St Sewer

H East on D St from 14th

Flush tank

Int of 14th & C St Sewer

W East on B St from 14th

Flush tank

Int of 14th & B St Sewer

West on B Street from 15th

Flush tank

Int of 15th & B St Sewer

North on E Street from L to R

Center of 15th St

Flush tank

Int spec B St

Int spec C St

Int spec D St 1/4 N of S zone

Markable "Brick" W & E

S zone of F St

N zone of G

S zone of H

S zone of K *finishes*

Int of 15th & L St Sewer 22' W of Cen of 15th

37+63.8

14+73.7

3+33.4

0

30+24.8

26+66.6

22+63.6

18+63.8

14+73.7

3+33.4

0

22+61

26+61

30+24.8

41+46

37+66.4

24+66.1

30+24.8

26+66.6

22+63.6

18+63.8

14+73.7

3+33.4

0

Sept 22

Easton ~~M~~ Street from 14th to 15th

4+21

F Bush tank

0 0 Int of K + 14th St SewersWest on J Street from 15th to 14th

4+44.5

F Bush tank

0 0 Int of J + 15th St SewersWest on I St from 13th to 14th

4+45

F Bush tank

0 0 Int of I + 13th St SewersWest on H Street from 13th to 14th

4+46

F Bush tank

0 0 Int of H + 13th St SewersWest on F St from 15th to 17th

4+48

F Bush tank

0 0 Int of F + 15th St SewersWest on J^W St from 15th to 14th

4+48

F Bush tank

0 0 Manhole 15th + E StEast on D Street from 14 to 15th

4+46.5

F Bush tank

0 0 Int of W + D St Sewers

46

North on R 1st Street from T to F

27+56.4 14.97.4 F 2nd tank F 5x
 23+76.6 8 17.6 S zone of G
 16+96 137 0.92 EC
 0 Y run in 35' N of N zone of 2/5

South on 19th from H to T + East on T to R 2/5

15+78 1576 B.C. left 21st (Y North) 35' extra pipe
 14+123 1406 E zone of R 0th
 11+68 1146 E.C. 35' East Zone

10+50 10+54 B.C. 2nd 1 1/2 30' N of N zone of I
 8+9 8+14 E.C. 25' S of S zone of I

East on H/S STREET from 16th to 19th
 6+91 6+90 B.C. corner 19th ST
 5+265 5+255 E zone of 18th ST
 0 0 35' E of E zone of 18th only

North on SIXTEENTH from I to J

1 6+01 E.C. 30' E of E zone of 16th
 14+83 B.C. corner to H ST
 8+27.9 N zone of H
 5+67 S zone K
 437 } EC N Zone L
 0 Int of 2 & 16th ST sensors

251
790

Sept 26

North on SEVENTEENTH from N to J
 11+24.8 Fush tank S zone of J
 7+44.7 Inspec K S +
 3+63.8 Inspec L S +
 0 Int of 17th St sim of + Main Zone on curve at N S +

Parry
 E. T. M. 202
 F. K. W. 202
 U. T. R. 202
 B. M. 202

South on SEVENTEENTH from H to J
 0 Y on H St 35 W of W zone of 17th
 +95 S zone of H could not measure. This curve
 3+95 S zone of I
 7+76 Fush tank

Sept 22

North on SEVENTEENTH from D to A
 Fush tank 2' N of S zone 17
 Inspec B St
 S zone of C could not determine exact length of
 Y to Main zone at C + 17th on Curve
 +15
 0

East on E from 15th to 16th + North on 16th to A

17+35.7 Inspec H St
 9+72.4 Inspec C St 2' S of S zone
 5+98 S zone of D on 16th approx
 3+86.3 3+116 E. C 35' N of N zone E St
 2+05.3 1+97 B Curve 1. to 16th 35' N of W zone of 16th
 0 0 Main zone 15th + E

MAIN ZONE FROM 16th E TO RR² + D

EAST ON D ST FROM 17th TO RR²

19 + 87

End of pipe

19 + 65.4

inspec RR²

16 + 86.3

inspec 21st 05 E of W zone

14 + 04.6

W zone of RR²H

8 + 42.3

W zone of 18th

6 + 77

E on C St 35' E of E zone of 17th

NORTH ON SEVEN TEENTH FROM D TO C

5 + 59.

B.C. 350 of zone of C curve RR² to C St

3 + 29

E.C. on 17'

EAST ON D FROM 16 TO 17th

3 + 29

E.C. on 17th 30' N of N zone of D

2 + 11

B.C. 350 of W zone 17th curve L. to 17th St

+ 59

E.C. 13' E of E zone of 16th

0

EXPT 22'S of Cen. 16 + D

NORTH ON SIX TEENTH FROM H TO E

11 + 83.9

B Zone of E curve fin. zone of Bus Atan K

44 894

inspec F St
N zone of G St

0 + 93

N zone of H

0

Did not measure curve
Int of 16th St sewer & main at curve in H
at Y 10' W of N zone of H

+ 139

0

E C 13 N of N zone of C
Y in Main on E of 17th11 to 8.7
0 + 17
0North on SEVENTEENTH from H to E
Brush bank (could not locate bus, exact)
N zone of H
Y in H St sewer W of N zone 17th St

Sept 26 1928

1047

South on SEVENTEENTH from D to E
3 + 73
+ 93
0
0
Brush bank
E.C. 25 S of S zone of D
Y in Main 13 N of W zone 17th

Sept 26 1888

3485

0

0

center of N^o 5th St
bet 19th & N 5th Semars~~could not measure curve~~

7+263

0

0

NORTH ON EIGHTEENTH from CH^o ST
Fuss R Lank R
E.C. 13' N of N. zone of C
Yon D St at 18thNORTH ON EIGHTEENTH from H^o D

15+215

7+83

498.5

0

0

Fuss R Lank D St
Ins Dec F St
N zone of H
Yon H St 28' N of N zone 18thSOUTH ON EIGHTEENTH from H^o D

7+72

2471

0

EC not measured

0

Fuss R Lank R also N zone of A
S zone of I
Yon H St 30' N of N zone of 18thNORTH ON EIGHTEENTH from N^o 5th ST

14+96

11+96

3+53

0

Fuss R Lank J St
N zone of K
S. zone of N St
Marholde W zone of 18th on N^o 5th ST

could not measure curve

602

304

Sept 26

73+65.7	73+50	Flushbank BST	
70+12.9	69+95	S Zone C	3528
62+52	62+35	S Zone E	113.7
58+74	58+55	Impsec F St	1491.7
54+92.6	54+70	Impsec GST	10731
50+80.2	50+62	Impsec H St	22505.5
46+92.9	46+74	Impsec I St	2672.5
43+13.7	42+94	Impsec J St	3052.5
39+31.7	39+14	Impsec K St	3434
35+51.7	35+34	Impsec L St	3814
31+76.2	31+57	Impsec M St	4109.5

29+06.3 ^{25th} ~~(see below)~~ F.C. on Rth 35' Net N Zone of N

27+86.3 ²⁷⁻⁸⁷ BC curve left to Rth St

23+43.7 ²³⁺³² Impsec W Zone 22'

Impsec " " 21'

Impsec " " 20'

Impsec " " 19'

Manhole 18th W side

F.C. 30' E of E Zone at 17th on N

B.C. curve left to N St

F.C. 35' S of S Zone of Manhole 17th

Manhole B.C. curve R. from N to 17

E.C. 35' E of E Zone 16th

B.C. left curve to 17th Street Length 18'

S Zone of L. (Could not measure curve)

0

Bag of pipe at large Flushbank 16th

27+86.3 to 29+06.3

73+65.7
69+95
62+35

Add 10' in each Rad. of curve being 56' Rad.

4479.4

4577.4

5022

5302

5581.5

5862.5

6143.5

6424.5

6705

6982.7

Sept 27

South on TWENTYTH from I to J
 3+66.6 F Bushbank E St. as sign zone
 +65 S zone of I
 0 Yonk St 13' W of N zone of R Dth

South on TWENTYTH from C to F
 11+07.9 F Bushbank E St
 7+46.1 Inspec N Side E
 3+46.4 Inspec N side of D
 +17.9 E G 13' S of S zone of C
 0 Int. R Dth & C St Sewers

South on NINETEENTH from C to D
 3+49 F Bushbank E St
 +7.9 E. G. 13' S of S zone of C St
 0 Int of 19th & C St Sewers

11.5.12

North on NINETEENTH from H to D
 15+32.6 F Bushbank D St
 11+5.14 Inspec E St
 3+28.9 Inspec G St
 +79.5 N zone of H
 0 Yonk St 11' W of W zone of 19th

North on Nineteenth from N to I
 16+65.9 F Bushbank 1 St
 14+15.3 Inspec U
 1406 Inspec K St
 3+15 center of N I
 0 Int of 19th & N St Sewers (could not measure curve)

Sept 27

259

North on TWENTY-FIRST from N to V
 14+60
 F Bushbank V St
 AS zone of K
 11+055
 Inspec L St
 723.5
 Center of M
 3+84
 Int of N + 21st St sewers

North on TWENTY-FIRST from N to V
 1493
 F Bushbank V St

Inspec K St
 Inspec L St
 Center of M + 21st
 Int 81st + N St sewers could not measure Curve
 370.1
 782
 1109

3+86
 +19
 0
 0
 Center of M + 20th
 EC 13' N of M zone of N
 Int 86th + V St Sewers could not measure curve

North on TWENTY-FIRST from I to F
 11+602
 F Bushbank F St
 3+679
 Inspec H St
 +66
 N zone of I
 Int 80th + I St Sewers 15' N of W zone of 80th

Sept 27

Northern TWENTY SECOND from C to D
 F Bushbank D St
 Inspect G St

11.00.5

2.11.1

Southern TWENTY SECOND from C to D
 3+19.4 F Bushbank D St
 0 Int of RR at C St sensors

Northern TWENTY SECOND from C to B
 3+21 F Bushbank B St
 0 Int of 22' + C St sensors

Northern TWENTY FIRST from C to B
 3+46.5 F Bushbank B St
 +19 BC
 0 Yarn maze on C St at R1

+7

37°
 1108 Southern TWENTY FIRST from C to F
 347 F Bushbank F St
 +19 Inspect D St
 0 EC 13' S of S Zone of C
 0 Yarn Maze on C St at 21st

-7

3+65.4 Southern TWENTY FIRST from 1 to J
 0 F Bushbank N Side U
 0 Yarn St on Curve Rth 4/1

Sokot 27

East on I from RR to R4th

4+174

Brushbank R4th St

0

Int of I + RR St sewers

West on J from R4th to RR

4+392

Brushbank RR St

0

Int of J + RR St sewers

West on K St from R4th to RR

4+193

Brushbank RR St

0

Int of K + R4th St sewersWest on L St from R4th to RR

4+225

Brushbank RR St

0

Int. of L + R4th St sewersWest on M from R4th to RR

4+42

Brushbank 22nd St

0

Int of M + 24th St sewers

North on RR from N to D

3805.1

Brushbank D St

Inspec G

Inspec H

Inspec I

Inspec J

Inspec K

Inspec L St

Inspec M St

Int 22' + N St sewers

3443

0

0

could not measure curve

3482.1

3650.6

2699

2314.8

1938.5

1558.3

1140.5

35
43
243
470

Subt 20

35 70.3

East on N 57 from 8th to 16th + North on 16th to N 57
 28+00 27+57⁽³⁵⁾ F Wash Lane R 57^o of S zone of M

43.3 49

25+49.3

25+11.8

E.C. 43.3 N of N zone of N

24+31.3

23+94

B.C. 20th 35th N of N zone of 16th

21+89

21+51

West zone of 15th

17+17

1680

West zone 14th zone of Fence

8+77

8+40

Inspection 1st St

5+97

5+60

N zone of 10th

3+97

3+60

E zone of North St

1+17

1+12

E zone of 8th St

Sta 1 to 1+17 = 175 feet

E. Wheeler
F. W. 22 K. 22 m. 20
S. M. M. 22 22 m. 20
D. Woodruff

Sept 22

East on from RR^o R23 + North on R3^o to BST

F Wash Lane R BST

20+17

Inspection C St

17+32.8

S zone of E

9+72.5

N zone of F on R3

6+72.9

Curve east R3 + G 14th to R3

0

Zone R3 + G curve to R3 + G

East on 4th St from RR^o to R3

4+47

F Wash Lane R 4th St

0

Int of RR^o + 4th St Sewers

E. Wheeler

F. W. 22 K. 22 m. 20

J. F. Rea

D. Woodruff

$\frac{4.25}{9.25}$

North on FIFTEETH from N to L
7+09.6

Inspect N ST
E.C.

Int of 12th + N ST sewers

459

0

7+27.3
3+464

North on THIRTEENTH from N to L

F Wash tank L ST

Inspect N ST

E.C.

Int of 13th + N ST sewers

459

0

North on FOURTEENTH from N

Inspect N ST

E.C.

Int of 14th + N ST sewers

459

0

North on FIFTEENTH from N to L

F Wash tank L ST

Inspect N ST

E.C, 21' Nat N Zone

Int of 15th + N ST sewers

459

0

3.46

Engleble St from mt with N1ST sewer to S Zone of M = 363.8

o o Int of 8th + N1st Sewers

Northon NINTH from N to L

F Bush tank LST

S Zone of M

N Zone of M

Int of 9th + N1st Sewers

362.2

7+05

3+46

+46

o

o

Northon TENTH from N to L

F Bush tank LST

S Zone of M

Int of 10th + N1st Sewers mensid curve

7+09.5

3+51

o

o

Northon ELEVENTH from N to L

F Bush tank

Inspec M1st

EC

Int of 11th + N1st sewers

363.9

7+09

3+45

+59

o

o

Northon STATE from H to ASH

29+71
 26+628
 19+847
 16+347
 11+88.6
 +1217
 0
 0

Flushbank
 Inspec ASH
 S Zone C
 N Zone of D
 Inspec EST
 N Zone of H
 Marshole H ST

East on ASH ST from Atlantic to Union

0
 149811
 4+68.3
 3+403
 18+22.9
 12+947
 1070.1

0
 East " in Flushbank
 W Zone of Arctic
 W Zone of Inertia
 W Zone of Columbia
 W Zone of State
 Marshole W Zone of Union
 at 26' Pipe W of Marshole
 at Ft La ritz

1570.1
 1878.1
 1701.8
 824.8
 547.2
 275.8
 100

Estimate of
Server Pipe

53

Atlantic	H to Ash	
California	H to Ash	30 15
California	Ash to Juniper to EC	30 38
California	Piece of Cut wood Grape	2
Juniper	California to Arctic ^{to EC}	2 44
Arctic	Juniper to Hawthorn	6 28
Arctic	H to Ash	30 16
Arctic	Ash to Fir	15 33
Grape	California to Columbia	8 16
Columbia	Grape to Fir	3 46
Columbia	Grape to Ivy	7 28
India	Grape to Juniper ^{to BC}	10 75
Juniper	India to Union ^{to BC}	7 94
India	H to Ash	
India	Ash to Fir	
India	Grape to Fir	
Arctic	Grape to Fir	
Arctic	Grape to Hawthorn	
Columbia	H to Ash	
Columbia	Ash to Fir	
Columbia	Juniper to Ivy	

State	Juniper to Hawthorn	
State	Ash to Hawthorn	
Union	Ash to Hawthorn	
Union	Juniper to Hawthorn ^{from EC}	
Brant	Union to Juniper	
Albatross	Union to Ivy	
Columbia	S of H	3 122
Union	H to Ash	3 254
Union	Ash to A	191

STREET

Boundaries

Total length of pipe
measured Figured

1 California	H to Ash	3016	3934
2 California	Ash to Juniper	5036	
2 Juniper	Cal to Union	3910	
2 Arctic	Union to Hawth		
3 Arctic	H to Ash	3016	3020
3 Arctic	Ash to Fir	1533	1532
4 Grape	Cal. to Columbia	808	815
4 Columbia	Grape to Fir	346	347
4 Columbia	Grape to Ivy	728	728
4 Indiana	Grape to Juniper		
4 Juniper	Indiana to Union	2632 ^v	2642
5 Indiana	H to Ash	2991 [?]	3012
5 Indiana	Ash to Fir	1627	1627
5 Indiana	Grape to Fir	346	344
6 Arctic	Grape to Fir	346	347
	Grape to Hawthorn	346	347

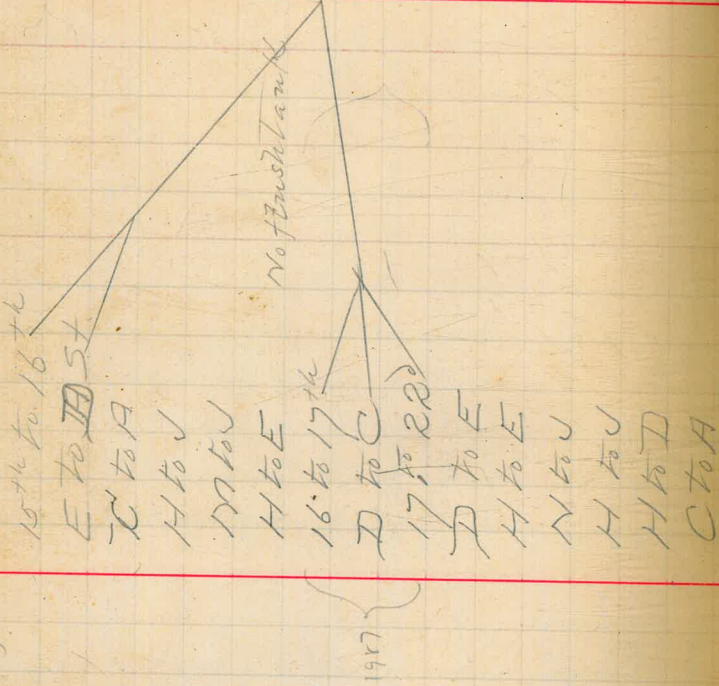
6 Columbia	H to Ash	2996	2996
7 Columbia	Ash to Fir	1713	1713
7 Columbia	Juniper to Ivy	345	347
7 State	Union to Hawthorn	725	727
8 State	Ash to Hawthorn	2544	2585
9 Union	Ash to Hawthorn	2679	2678
9 Union	Juniper to Hawthorn		
9 Brant	Union to Juniper	907	887
9 Albatross	Union to Ivy	1347	1356
10 Columbia	South of H	122	135
10 Union	H to A + 10	3254	3256
10 Union	Ash to A	191	194
11 Front	H to Juniper	3840	3830
12 First	J to Juniper	5000	5044
13 Second St	J to Grape	5047	5044

Total Length of Pipe
measured. Figured

13	Second	Harwin to Grape	353	359
14	Harwin to	10 th to 30	1260	1264
14	Third	Harwin to X-ray	734	737
14	Second	Harwin to Street	360	359
14	Third	Harwin to Gray	1073	1083
15	Third	L to Grape - 5000	2592	2590
16	Seventh	D to N. Zone of Carriers	2620	2615
16	Eighth	D to N. Zone of Carriers	2641	2650
16	Ninth	D to Date (+ 31' curve at L)	5681	5680
17	Tenth	L to Date	4159	4163
18	Eleventh	L to A	4161	4163
18	Twelfth	L to A	2220	2241
19	Thirteenth	L to F	724	727
20	Fourteenth	D to F	1107	1108
20	Fourteenth	D to A	2698	2710
20	Fourteenth	G to A		

19	G	15 th to 14 th	266	271
20	D St	14 th to 13 th Street	1457	1457
20	Fourteenth	L to H	364	367
20	Fourteenth	G to H	4144	4143
21	F	L to A	247	247
21	B	15 th West	221	223
21	B	14 th East	246	247
21	C	14 th East	220	222
21	C	15 th West	444	445
22	D	14 th 15 th	446	447
22	E	"	446	442
22	F	"	443	448
22	H	"	443	448
22	I	"	443	447
22	J	"	443	447
22	K	"	426	427

E.C. and HST 90' E of 16th to Flashlight R 17th F



23 E 2781

24 16th 767 770

24 17th 774 777

24 17 1123 1125

25 16 2598 2601

25 D 371 372

25 C 1157 1160

26 17 1494 1493

26 17 770 772

27 18 1520 1520

27 18 724 726

Maximize from 16th L to 24th B

28 19 N-1 7364 7375

29 19 H-D 1864 1867

29 19 C to D 1531 1531

29 20 C to F 347 349

29 20 I to J 1106 1107

30 20 I to F 365 361

30 20 N to J 1158 1161

30 20 N to J 1491 1488

31 21 I to J 1458 1461

31 21 C to F 363 365

31 21 C to B 1106 1107

31 21 C to B 345 348

31 22 C to D 319 324

31 22 D to A 317 320

24 16th 1123 1120

32 22 N to D 3803 3805

16796

32 M
 32 L
 32 K
 32 J
 32 I
 32 H
 33 G
 23
 17
 16
 15
 14
 13
 12
 11

24 to 22
 24 to 22
 24 to 22
 24 to 22
 22 to 24
 22 to 24
 22 to 23
 G to B
 8th to 16th
 N to M
 N to L
 N to L
 N to L
 N to L
 N to L

Original

438
 427
 417
 408
 451
 448
 2099
 2780
 714
 439
 728
 714
 714

New

440
 420
 417
 437
 448
 445
 2087
 2856
 708
 725
 708
 707

10
 9
 8
 Ash
 State

N to L
 N to L

Atlantic to Arizona
 H. R. Ash

Total

708
 706
 1596
 2969
 16213
 16806
 489
 16319

439
 418

1890
1000 0.0

3/13.

73 } 5 line of D 5 of L
1st

95

