114

F.B.114

ng the difference of latitude and departure in running chains at any course from 1 to 60 minutes.

Minutes	Links.	Minutes.	Links.	Minutes.	Links.
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Book no. 114

none date.

Drav C.

215-2 L.

In ber o meas m- tal

Ang n s.

							54
							26
6	0.55	13	2.65	20			24
7	0.76	14	3.06	21	7.11	28	13 37
8	0.98	15	3.53	22	7.85	29	14.34
9	1.24	16	4.02	23	8.64	30	15.47
10	1.55	17	4.56	24	9.47	35	22.07

114

Return to City Engineers Office
City Hall, San Diego, Cal.

FB-114

INSPECTION NOTES CONCERNING WATER LINES BEING LAID IN STREETS OF SAN DIEGO (SEE PAGE 1)

ENTIRE BOOK

Oct 26th 1898.

In accordance with the orders of the Board of Public Works. (ordered by special meeting in the afternoon of Oct 26th) I Edwin M. Capps. City Engineer proceeded to inspect the pipe now being laid in the streets of San Diego by the Southern Cal. Mountain Water Co. and ascertain if said pipe is being laid in accordance with the Specifications set forth in the Contract between the City. & the Southern Cal Mountain Water Co.

D. St

Oct 26 1898

3.20 P.M.

Found 10" pipe laid and covered from Arctic to centre line of Union St, pipe laid but not leaded from Union to 100 ft West of West line Front St

Cross 10"×10"×6"×6" at intersection of Union St

at Union pipe dipped 6" to get under S.D.W. Main also under gas main

7 pipe strung along trench

1 pipe	780 lbs	10"	pipe
1 "	778#	10"	"
1 "	785#	10"	"
1 "	778#	10"	"
1	783#	10"	"
	3904#	60'	

D. St

1 piece	782#	10"	pipe
1 "	780#	10"	"

pipe made by A.P. & F Co.

pipe not marked, "Water Works, City of San Diego,

C. M. Bose, foreman for C.S.M. W. Co.

Mr Bose estimates about 15 lbs lead to the joint & 1/2 lb yarn

End (Bell end) of joint pipe cut into showed the thickness to be 9/16" in the thinest, & 21/32 in thickest places and the bell was marked 780 lbs. the cut end showed a fine grain, and the hardy marks raised a bead showing a tough iron

left at 4.50 P.M.

4

20. St

Oct 27th 98

10.50 am.

Pipe laid up too West line Front

No pipe strung along trench,

Measured the thickness of the shell in a piece of 10" pipe that was cut at Main & 20. st and found the greatest thickness to be 5/8" and the thinnest to be 9/16", the pipe was marked 785#

1 oc P.M No pipe being laid on account of trackmen being in the way.

4.30 P.M. trench filled and paved to West line Front St

20 St

3

Oct 28th

No trenching or pipe laying

Oct 29th

No pipe laid (on account track work)

Oct 31st

No pipe laid (on account track work)

Nov 1st 1898

No pipe laid, set line for pipe from Front to 2nd st,

Nov 2nd

No pipe laid

Nov 3rd

No pipe laid

Nov 4th

Trench being excavated beginning at Front St, West side, at 4.40 P.M pipe

D. St

String (10") along side of trench

1 piece 780 lbs
1 " 780 "
1 " 792 "
1 " 780 "
1 " 786 "
1 " 793 "
1 " 783 "
1 " 785 "
1 " 785 "
1 " 783 "
1 " 783 "
1 " 783 "

9423 Nov. 5

Cross 10"×10"×6"×6" placed 14 feet east of Centre Front (measured with North side D" st.)

D St

begun laying 10" pipe from West side Front

1 piece 787
" 785
" 785
" 772
" 780
" 782
" 778
" 783
" 783
" 783
" 787
" 779
" 786
" 780
" 782
" 785

12517

Measured the thickness of 10" Cast pipe cut for cross at Front D" and found the thickest part to be 5/8" + 1/32" & thinnest to be 9/16" pipe showed fine grain, and the hardy made a raised bead, indicating very tough cast iron

D St

1 piece	784	10" pipe
	780	"
	785	"
	786	"
	788	"

3923

Cross 10"×10"×6"×6" at
14' EAST of Center of 1st St

Nov 7

1 piece	800#	10" pipe
1 "	778#	
1 "	780	
1 "	787	
1 "	783	
1 "	787	
1 "	787	
1 "	786	
1 "	785	
1 "	788	West line 2nd

7861

D. St

1 piece	800#	10" pipe
"	780#	" "
1 "	785	" "
"	790	Intersection 2nd St
"	783	Cross 10"×10"×6"×6"
"	778	Intersection 2nd St
"	785	East line 2nd
"	783	The cut off end of 10" pipe cut to lay cross at 2nd measured 9/16 & 11/16 in thickness
	783	
	798	
	775	
	788	
	780	
	780	
	778	
	782	
	778	
	783	

14109

10

D. St

1 piece 782 10" water gate placed on West line of 3rd

" 778

Oct 8th

Cross 6"x6"x10"x10" placed in intersection 3rd st

1 piece 783 10' pipe

780 "

775 "

792 "

782 "

788 "

784 "

785 "

A pipe 10" cut to place the 10" water gate at West line 3rd showed 9/16" & 11/16" in thickness

Bell end marked 775#

pipe marked 785 lbs when cut showed 10/16" & 11/16" thickness

Intersection 3rd

7829

6

D. St

Nov 11th

Workmen begun to cut pavement for trench Bet 3rd & 4th sts

Nov 14th

1 piece 782# 10" pipe 3rd st

" 772 " to

" 782# "

" 782# 4th st

" 780

Arctic St

I was informed by Mr Chapman that the Co had laid some 6" pipe on Arctic, upon investigation I found that about 228 feet had been laid, I took the weights of 4 joints of 6" pipe that had not been laid and found their weights to be 385 — 385 — 383 — 384 lbs each —

3898

D St

Mr Bose stated that it was laid Sat the 12th

1 piece 780
" 782
" 775
" 780
" 785
" 778
" 766

No pipe laid in streets, but men laying 10" pipe in bay to connect with 8" knuckle pipe leading across the bay to Coronado - Mr Bose stated that the 8" knuckle pipe was in very bad condition.

Nov 15th

Men excavating trench on D" st Bet 3rd - 4th

5446

10" pipe D st - 13

1 piece 784#
" 778 West line 4th
786 Intersection 4th st
785
788
786

Cross 6"x6"x10"x10" at intersection of 4th - D" st

1 piece 787 10"
1 " 784 East line 4th
782
778
783
785
783
786
785
780
785 12,625

D sheet

Nov 17th

1 piece 794 10" pipe

782

782

792

796

778

790

787 West line 5th

778

787

783

785

782

782

775

783

12556

All 10" pipe made by the A. P. F. Co.
American Pipe Foundry Co. Tennessee

D" Street

pipe laid up to Center 5th St

Nov 18th

Cross 10"×10"×6"×6" laid on 5th - D st

10" pipe laid about 20 ft east of the East line of 5th street,

all pipe on D" st is 10" cast.

On 5th sheet -

Begun excavating trench on 5th street from D" st South

1 piece 6" pipe 382

On 5th St 386 6" Brass, bearing gate, at South line D" - 5 st

385

380 Gate furnished by the Risdon Iron & W. San Fran.

380

380

376

382

3051

on 5th st

Nov 19th

1 piece	6"	442	
		435	
		436	
		380	
		382	
		385	
		385	
		385	
		385	
		385	
		384	
		385	
		385	
		385	
		384	
		385	
		385	N line E
		380	

6" pipe made by C.F. & P.W.

7073

on 5th st

1 piece	6"	382	N line E. st
	"	386	T 6"x6"x6" for
	"	386	Hydrant N.E. Cor 5th E.
		386	
	6"	380	
		380	
		376	South line E. st
	6"	378	

Nov 21st 98

Laying 6" pipe Bet D. E st on 5th st

Nov 22nd

6" pipe laid to South line E st a T 6"x6"x6" placed for fire Hydrant 2 feet North of North line E st,

3058

on 5th St Nov. 22/98.

1 piece	6"	380 #	6" pipe
		384	
		380	
		380	
		380	
		385	
		385	
		385	
		380	
		382	
		380	
		380	
		380	
		380	
		378	
		382	
		385	
		382	

6868

on 5th St

1 piece	382 #	6" pipe
	380	
	380	
	380	
	380	
	380	
	384	
	382	
	380	
	380	
	380	
	376	
	380	
	380	
	380	

Tee 6"x6"x6" placed at North line "F" street to connect Hydrant

5704

A joint of 6" pipe, cut at 5th F shows by measurement to be 7/16" & 8/16" thickness, pipe marked 380 lbs - "F"

Nov 25, 98

pipe laid to North line E. St

Nov 28

Workmen cutting pavement for pipe line from F" to G" sts

Nov 29-98

1 piece	6" pipe	380#	between F & G sts
"	"	380#	
"	"	380	
"	"	385	
"	"	382	
"	"	385	
"	"	378	
"	"	376	
"	"	380	
"	"	382	
"	"	380	
		4188	

11 joints at one load

1 piece	6" pipe	380#	Bet F & G sts
"	"	384#	C F & P W. makers
"	"	380"	
"	"	380"	
"	"	384"	
"	"	384	
"	"	380	
"	"	382	
"	"	385	
"	"	385	
"	"	380	North line G" St
"	"		Nov 30th
"	"	378	
"	"	380	
"	"	380	
"	"	445	
"	"	435	
"	"	435	
		440	South line G" St
		7097	

Intersection G St

1 piece 6"	436#	Bet G. H.
	440	
	444	
	442	
	435	
	440	
	440	
	380	
	382	
	380	
	380	
	380	
	385	
	385	
	380	
	5979	

at North line G" street a 6"x6"x6" T is placed with 6" pipe leading to the N.W. Cor 5. G. 6" gate about 2 feet from main

Nov 2nd 98

Laid 6" pipe to a point 162.7' South of South line G" st

Dec 5th 98

Workmen excavating trench on 5th from above point to the North line H. st

pipe laid 6"	1 piece	380
		380
	"	385
	"	380
	"	380
	"	388
	"	380
	"	380
	"	386
	"	380
	"	386
	"	380

pipe Made by A.P. & F Co.

These pipe were marked on the outside of the bell

at North line H. T 6"x6"x6"

4585

5th St

Nov 6 - 98

Finished laying pipe to North line of H. sheet

H. Sheet

Nov 7th - 98

A 10" cast pipe connecting with the pipe crossing the bay, at H & Atlantic, is being laid up H to Arctic,

The pipe was made by the A P & F. Co and will average with the weights laid on.

D" sheet

A 10"x10"x6" T is laid at the intersection of H. & California

A 10"x10"x6" T is laid at the intersection of H & Arctic

A 10" gate is placed at the East line of Atlantic St

10" pipe comes out of the Bay at 14' East of Center of Atlantic on H St, 10"x10x10" T on Atlantic H. St

Arctic St

Nov 8th 98

Men excavating at Arctic H. St, Also Bet D & E sts on Arctic pipes laid in intersection of Arctic H. are as follows

1 piece	6"	430 lbs
1 "	6"	445 "
1 "	"	452"
1 "	"	428"
1 "	"	430"

A 6" gate is placed on the South side of D" St

Beginning at the point on Arctic, as noted on Page 11, thence running South, with the following pipe (between D & E sts

1 piece 6" pipe 384 lbs

2185

Arctic

1 piece 6" pipe	386 lbs
Cast in 1897	382 "
" " "	380 "
	388 "
	380 "
	384 "
	388 "
	380 "
	384 "
North line E. St	380 "
	380 "

Beg at North line H thence running North along Arctic St,

1 piece 6" pipe	380 lbs
" " "	382
	380

1 piece 6" 7 ft long marked 380 lbs on the bell

5346

Arctic

a 6"x6"x6 T is placed at north line H. Arctic to connect with Hydrant,

Also a 6" water gate on main pipe, & 4" gate on pipe leading to Hydrant, 4" pipe to Hydrant on N.W. cor Arctic - H.

Dec 10th

Excavating trench only,

Two 6"x6"x6 Ts are placed on the main at Arctic - E streets, with a 6" gate between them (about two feet apart) both Ts open toward the power house,

Arctic

Dec 12

Workmen excavating trench on Arctic

Dec 13th

Workmen begun laying pipe at north line H" st (thence North along Arctic)

1 piece	6" pipe	380#	no weight (guess)
"	"	376	
"	"	374	
"	"	370	
"	"	370	
"	"	380	
"	"	376	
"	"	376	
"	"	380	
"	"	378	
"	"	380	(marks out) guess
"	"	378	

A. P. F. Co

Bet. G. H. on Arctic

4518

Arctic

1 piece 6" pipe	380	
"	382	
"	384	
"	380	
"	378	
"	380	
"	376	
"	372	
"	372	
"	382	
"	380	
"	372	
"	386	
"	390	
	390	
	380	
	394	
	378	
	6856	

Some of these pipes the last figure was not plain

Feb 1st 1899
Hydrant placed at N.W. Cor Arctic H, 4" pipe to hydrant, 4" inlet in Hydrant, single nozzle —

Arctic

1 piece 6" pipe	382	N line G.
"	370	
"	386	
	378	
	370	
	386	
	392	
	382	
	390	
	370	
	376	
	378	
	378	
	380	
	378	
	380	
	380	
	386	
	6846	

Arctic

1 piece 6" pipe 392
370
396
370
396
384
380
380 T
370
374
380

T 6"x6"x4 at South line

Arctic - F sts - for Hydrant

376
378
386
382
380

6094

Feb 11th 1899 —
Hydrant placed at S E
Cor Arctic - F sts
4" pipe to Hydrant, 4' gate,
4" inlet in Hydrant,
single nozzle

Arctic

1 piece 6" 9" pipe 380
374
374
380
370
374
372
370
375
380
380
376
380
380
370
382
378
380

6775

Arctic

1 piece 6" pipe 380
378
370
380
380
380
~~382~~ this piece over not used on arctic

Dec 15th 1898

Finished laying pipe, and filling trench;

2268

(D. st)

Dec 29-98

Workmen excavating trench on D" st bet 5-6th sts

Dec 30th

1 piece 10" 780#
782
770
780
766
780
776
782
785
774
775
one piece No weight marked
800
795

A. P. F. Co. pipe

10924

D st

1 piece 10" pipe 780 W line 6th
1 " " " 780
1 " " " No weight mark on 780
1 " " " 768
Jan 2nd 99
1 " 10" " 790

Cross 10"x10"x6"x6" at intersection 6th-D st.

1 piece " 10" 810#
1 " " " 796
1 " " 800
1 " " 795
1 " " 765

7867

D st.

Jan 24-99

Began laying pipe at East line 6th on D st.

1 piece 10" pipe 812#
" " " 780
" " " 798
" " " 778
" " " 790
" " " 800

Jany 25 1899

" " " 775
" " " 778
" " " 775
" " " 773
" " " 775
" " " 777
" " " 775
" " " 785

10971

D. St.

Jan. 25th 1899

1	Piece	10" pipe	790
"	"	"	788
"	"	"	792

Cross at intersection 7th + D Sts.

12"×12" by 10"×10" + 1 reducer 10"×12"

1	Piece	10" Pipe	787
"	"	" "	780
"	"	" "	780
"	"	" "	780
"	"	" "	775
"	"	" "	780
"	"	12" "	1072

7052

up 7th from D St

1	piece	10'	785
			785
			770
			785
			780

Jany 27/99.

1	Piece	10"	782
1	T 10"×6" D + 7th St. to Hydrant		
1	piece	10"	780
"	"	"	780
"	"	"	783
"	"	"	783
"	"	"	780
"	"	"	783
"	"	"	810
"	"	"	775
			1069

6" pipe to a 6" double nozzle Hydrant, at NE Cor D + 7th 6" gate on main to Hydrant

10" gate at N line 7th & D on main

7th St

1	piece	10"	777	
"	"	"	780	
"	"	"	775	
"	"	"	782	
	Friday	Feb. 3,	1899	
1	piece	10"	771#	
"	"	"	760	
"	"	"	790	
"	"	"	776	
"	"	"	788	
"	"	"	798	
"	"	"	766	S Line T and G gate
"	"	"	786	
"	"	"	760	
"	"	"	792	
"	"	"	750	
"	"	"	794	
"	"	"	760	
"	"	"	770	13975

On 7th Street

1	Piece	10"	750#	
"	"	"	762	
"	"	"	800	
"	"	"	772	
"	"	"	768	
"	"	"	808	
"	"	"	812	
"	"	"	780	
"	"	"	780	
"	"	"	794	7876

The 10" pipe on D" St, from a C St. point 14' E of Centre line of Arctic, to a point 100 ft west of the west line of Front St. there is 1223.5 feet, no weights taken,

2603 feet 10" = 170643# = 85.32 tons

2764 " 6" = 85267# = 42.63 tons

laid up to date Feb 6 - 99

7th St

Feb 7th 99

1 piece	10"	766#	
"	"	760#	
"	"	778	
"	"	800	
"	"	792	
"	"	808	
"	"	782#	
"	"	not marked	
"	"	768	
"	"	782	
"	"	806	
"	"	780	
"	"	816	
"	"	796	
"	"	802	9 piece 10" x 10" x 4" T
"	"	784	
"	"	800	
"	"	775	14175#

7th sheet

1 piece	10"	810#	
"	"	784	Fluence
"	"	772	
"	"	790	
"	"	790	
"	"	758	
"	"	788	
"	"	812	
"	"	802	
"	"	812	
"	"	798	

Feb 8th 99

"	"	792	
"	"	784	
"	"	812	S. Lumber
"	"	778	
"	"	834	
"	"	788	13504

Union St

Sounds from D.

Feb 9th 1899

pipe	6"	372#
	"	374#
	"	380
	"	374
	"	370
	"	374
	"	370
	"	372
	"	372
	"	373
	"	376
	"	374
	"	374
	"	380
	"	370
	"	374
	"	370

6147

a 6" gate is placed on 6" main at South line D. on Union
a 6"x6"x4" is placed " " " " " " to hydrant
4" pipe leading to a 4" single nozzle hydrant on S.W. Cor. D. Union
a 4" gate is placed on pipe to hydrant, and 3' feet from main
4" pipe weighs 258# per joint

Union St

Sounds from D. St

	6"	370
	"	378
	"	374
	"	370
	"	374
	"	376
	"	380
	"	374
	"	376
	"	370
	"	380 4116

Pipe pluged at 12' North of North line E. St.

Arctic St-

Running North from D. St-

1	piece	6" pipe	372	
	"	"	374	
	"	"	374.	
	"	"	376	
	"	"	370	
	"	"	374	
	"	"	374	2614

6"×6"×4 T at North line D. St-

6" gate " " " " "

4" gate on pipe to Hydrant at NE Cor Arctic-D. St-

4" pipe leading to Hydrant weighs 256# per joint

Hydrant at D- Arctic is 4" inlet, single nozzle

India Street

running South from D St-

Feb 13-99

1 piece	4" pipe	230#	
"	"	230	460
"	"	not marked	
"	"	"	920?

a 4"×4"×4" T. at South line D- for Hydrant, 4" pipe to a 4" inlet and single nozzle hydrant on the S. E Cor,

4" gate on main at South line D St-

4" main plugged at T

Columbia St
running South from D-st

Feb 13-99

1 piece	6" pipe	380#	
"	" "	384	
"	" "	376	1140

6"×6"×4" T to Hydrant on S xx
Cr Columbia - D st, 4" pipe to
Hydrant, 4" gate on pipe to Hydrant,
6" gate on Main,
Hydrant 4" inlet, single nozzle

State St, running North from
20th st Feb 14-99

1	piece	4"	231#
	"	"	228#
	"	"	256#
	"	"	231#
	"	"	256
	"	"	232

4"x4"x4" T for Hydrant at North line 20th; 4" pipe, 4" gate, to a 4" inlet single nozzle hydrant placed at the N.W. Cor State-20th st,

A 4" gate on main, at North line 20, on State, The 4" pipe leading to the hydrant weighs 232-230-230

Running South from 20th Street

1	piece	4" pipe	232
	"	"	232

2492

1898

State Street

Feb 15-91

#1

1 piece 4" pipe 233

" " " 232

a 4" gate is placed at the South line of D" street 465

Front Street, Feb 15th, 1899

Running South from D St.

Price	6"	370	#
"	6"	372	#
"	"	374	#
"	"	376	#
"	"	378	#

On main one 6" gate at South line D St,

6"×6"×6" T for Hydrant, 6" pipe - 6" gate to Hydrant at S.E. Cor Front & D St, Hydrant 6" inlet, double nozzle

1870

Feb. 17th 1899.

Fifth St running North from "D"

1	Paver	6"	370
"	"	"	380
"	"	"	380
"	"	"	380
"	"	"	376

On Main one 6" Gate on North line of "D" St.

6" x 6" x 6" T for Hydrant N. 6 cor "D" & 5th St

6" pipe, Gate to Hydrant

Hydrant 6" inlet double nozzle -

1886

First St

Second St

Third St Feb 16-99

running South from D St

1 piece 6" pipe 370 #

374

370

370

374

370

6"×6"×6" T on Main at S line D St, 6" Gate at South line D st on main, 6" gate on 6" pipe leading to a 6" inlet double nozzle Hyd at SE cor 3rd & D St.

Running North from D St

4 joints 4" pipe laid before I could get the weights, 1 one piece 4" pipe about 7 feet long with 4" gate at north line D St

2253

Fondo St

Fifth St Feb 18-99

Hydrant at N.E. Cor 5th & Feb
6" pipe to hydrant, 6" gate on pipe to
hydrant, 6" inlet 2½ Double nozzle
hydrant, weight of pipe to hydrant
386 lbs.

Feb 18 99.

Hydrant at N.W. Cor 5 & G St.
6" pipe, to 6" inlet double nozzle
Hydrant,

United Supply Water Co.

Cast pipe all H. Street Jos Flint

Staked out line for pipe from Arctic to 5th St - June 6 - 1900 - Spikes placed 3' south of line for pipe - Men began trench June 7 - June 8 began laying 10" pipe from 10x10x6 T at H + Arctic - East on H St =

At 14' E of Center India 10x10x4 T 4" pipe to N. prop line H St (5 joints)

Weights = 242#, 244, 242, 242, 240#

4" Gate N. prop. line H St 1210

At 14' E of Center Columbia 10x10x6 T 6" pipe cast pipe to N. prop line H (5 joints)

Weights, 395, 395, 394, 390, 396

6" Gate N. prop line H St 1970

Pipe laid 14 ft. S. of Cent line H St

Wts of	795#	797	803
10" pipe	796	809	804
	810	798	798
	825	797	810
	803	818	796
	805	833	802
	800	793	836
	837	832	807
	805	824	808
10	803	803	826
	815	802	796
	806	802	(46) 794
	834	800	9680
	802	817	
	792	798	
	812	788	
17	815	12911	
	13755		

H St.

At 14' E of Cent. line State St. 10×10×4 T
4" pipe laid to N. prop line H St (5 joints
weights 760, 236, 240, 230, 240
4" gate at N. prop line H St 1706
At W. line State 10×10×4 T 4" pipe
running S. to Single nozzle hy hydrant
on S.W. Cor H & State St (4" gate)
Standard Co Casting (Sandiego)

Union 10×10×6 T 14' E of Center
line - 6" pipe to N. prop line H
Wts - 395, 398, 402, 400, 395.
(Noon, June 13" 1900) 1990
6" Gate N. prop line H St (Kennedy Valve Co)

Wts of 10" Cast pipe

820	785	805
800	803	835
830	806	765
822	760	798
800	806	805
834	806	815
823	820	804
768	830	806
815	820	811
823	798	802
826	797	827
823	800	808
796	823	817
802	792	767
802	808	810
825	797	812
823	804	805
812	13655 ✓	796
831		14488 ✓
15475 ✓		

H – St

Front St

6" – 400 – 390, 390, 372 380

6" – pipe to N line H – 6" gate 1932

First

10 × 10 × 6 × 4 + 14 ft East of Center line of First St –

4" pipe to S. prop. line H St, 240#, 242#, 238#

4" Gate at S prop line H { gate is against pipe of S D water Co

6" pipe to N. Line H St

6 × 6" × 6" T on " " ", 6" Gate to North

6" Gate to West. – 6" pipe to Hydrant on N. W. Cor H & First St – 2 Nozzle hydrant made by Standard Iron Works

6" pipe – 395 392 398 390 390 to N. line H

to Hyd – 392 – 392, 390

3139

240 – 242 238

10 pipe

796	810	795	775	818
831	815	762	808	808
806	807	797	810	832
772	804	807	828	810
802	802	832	820	801
772	798	818	810	813
4779	4836	Midway 1 & Front 4811	4851	4882
805	772	833	815	793
820	812	818	760	824
761	806	822	806	822
761	823	807	815	800
820	810	793	818	818
796	806	821	803	827
4763	4829	4894		4884
818	805	830	801	808
804	805	792	841	833
763	767	766	796	800
764	766	792	7255	778
827	804	815		807
3976	812	815		815
	4759	4810		4841
13518	14414	14515	12106	14607

H St

Second St

10×10×6×4 Cross 14' East of Center line of Second St

4" pipe to S. Line H = 4" Gate

4" pipe = 242#, 242#, 242#, 240# 966

6" pipe to N line H to 6×6×6 T with 6" gate to North and 6" Gate to East 2 Nozzle hydrant on N.E. Corner H & 2nd 35

6" pipe to T = 396, 395, 398, 392, 394, 396 (Includes pipe to Hyd) 2371

Third St. 10" Gate on Main at W. line 3rd St

10×10×6×4 Cross 14' E. of Cent line 3rd H

4" pipe to 4" gate on S. line H St. with 242#, 240, 240

6" pipe to 6×6×6 T on N line H 777

with 6" Gate to N. & 6" gate to E

2 Nozzle Hyd. on N.E. Cor

392#, 400#, 392#, 398#, 398#, 398#

Includes pipe & Hyd. 2288

10" pipe

814	805	798
831	807	813
808	803	794
812	828	788
800	808	762
773	812	828
483 4	807	817	805
	812	833	5588
806	792	
	830 5	
836	810	
830	810	
821	818	
491 2	762	793
810	824	
814	762	
775	826	
828	812	
802	821	
477 1	777 3	
to W. Line 4th St		
1453 T	1457 8	

H St.

Fourth Street

10×10×6×6 Cross 14' E. of center line of 4th St. 6" pipe to gate at S. prop. line H 392, 388, 392

6" pipe to gate N. prop. line H to T. 6" Gate in 6" pipe to Hyd. N.E. H & 4th 117' Double nozzle 388 390 386 390 390 392

Gate to Hydrant is N. of gate in 6" main 27.36

—

10" pipe Ends on line of E Curb of 5th (plugged)

Cross 10×10×6×6 14' E of
Cent line 5th
6" pipe to S. line H
6" " " N " H (formerly
put in from D with Gate & To N.
line H)
Pipe laid to 2 Nozzle Hydrant
on N.E. Cor H & 5th
6" pipe = 396, 390, 386, 386, 392, 388, 39[illegible]
390, 388 –
Gate on 5th to above (North) of hydrant
Gate

In yard front of H St. July 28 1900

6" Pipe

405	412	411	407	410	408
407	410	408	400	411	396
406	402	408	415	405	416
407	415	408	403	410	412
411	415	410	418	395	403
406	413	410	405	398	400
403	413	412	407	398	401
408	410	405	405	398	405
401	408	395	408	399	410
400	407	408	407	398	410
405	411	416	411	398	410
412	408	407	410	396	415
406	406	402	412	398	410
407	406	407	407	398	410
405	407	411	408	396	412
413	412	410	403	398	398
408	408	407	412	396	395
408	393	410	407	398	395
405	396	403	408	398	405
406	395	405	405	398	400
420	397	411	413	408	405
410	411	407	403	400	406
413	403	403	411	405	410
405	407	415	414	403	
402	402	413	408	405	9332
411	414	410	406	401	
412	410	405	403	412	
406	414	410	405	411	
412	412	395	411	405	
410	412	410	405	409	
	410	405	408	402	
	407	401	403	398	
		410	413	410	
11816	13146	13848	13461	13255	

6" Pipe

393	394	392	398	396	395
393	393	396	398	398	393
392	396	396	385	390	392
390	394	395	389	396	390
392	394	396	392	394	395
394	392	395	393	392	394
394	392	394	390	396	398
394	390	396	395	390	396
392	394	395	390	390	395
390	392	396	392	392	396
393	392	398	395	390	388
392	396	396	392	392	388
392	396	394	392	392	392
394	396	396	390	385	392
392	396	395	390	390	388
392	395	395	394	392	390
392	398	396	395	394	394
390	398	398	394	394	390
395	394	395	390	392	392
395	392	394	394	390	395
394	395	395	398	396	394
396	394	395	392	395	398
392	395		395	394	390
396	392		395	394	385
395	394		394	395	395
396	392		390	394	390
398	395		392	390	396
395	398		394	390	392
396	398		394	390	392
396	396		392	392	392
398	398		394	392	392
394	393		394	393	392
393	396		390	394	392
395	395		390	396	395
396	395		390		392
13781	13807	8698	13842	13310	13740

6" Pipe

394	385	390	380	374	408
392	398	392	380	381	410
390	392	394	382	386	413
392	392	395	380	396	411
395	394	396	385	384	410
390	395	390	392	390	409
392	384	398	393	386	413
390	380	395	380	384	411
392	386	398	370	382	408
392	384	396	370	382	408
392	384	398	380		412
390	376	376	370		409
392	390	380	386		408
392	370	382	386		407
394	382	378	380		408
398	380	370	380		403
	382	395	380	403	401
	376	395	380	413	406
	388	395	394	406	413
	378	392	390	408	405
	380	395	396	405	407
	378	396	390	406	408
	390	392	376	410	405
	385	386	375	410	412
	378	372	374	405	403
	378	370	380	413	413
	371	382	386	415	410
	386	388	383	407	418
	390	370	378	407	412
	390	380	370	407	406
	394	382	374	410	417
	394	388	370	410	415
	394	388	376	410	411
	390	378	390	410	411
	395	380	386	409	412
6297	13489	13552	13342	11603	14332

6" Pipe

410	390	398	410	394	390
412	390	395	395	392	395
410	388	398	390	395	396
415	390	394	396	395	392
407	386	396	395	396	385
408	390	392	390	396	390
406	396	396	394	394	
411	392	394	395	395	
406	392	390	396	395	
411	390	396	390	396	
413	399	395	396	394	
417	396	396	395	395	390
413	395	390	390	395	392
411	394	396	394	396	396
407	396	390	395	392	396
414	392	396	394	396	410
414	392	394	390	396	390
405	392	395	386	396	385
403	392	390	390	396	395
402	396	396	390	392	396
412	396	394	390	390	395
406	396	390	390	392	392
415	392	390	392	396	392
403	395	388	392	398	394
	396	396	392	398	395
	394	398	385	390	392
	396	390	390	392	394
	393	395	392	396	392
	393	394	390	392	390
	392	408	390	394	395
	392	398	390	395	392
	398	386	392	394	396
	398	390	392	398	390
	398	392	390	398	390
	395	388	388	398	392
				390	390
9829	13377	13588	14121	14201	11679

6" Pipes

394	398	386	388	396	395
395	392	395	396	395	394
392	392	390	392	394	396
390	394	386	392	394	395
395	392	390	394	395	395
390	395	390	395	395	395
390	395	390	396	394	396
392	394	386	398	396	394
394	398	378	398	395	398
390	396	388	396	386	395
390	395	388	392	388	396
392	396	394	410	388	394
392	396	392	410	385	395
394	390	390	395	388	410
392	390	392	390	395	400
396	392	390	385	396	396
394	395	394	388	396	396
392	393	392	390	396	398
394	398	392	390	398	396
392	390	392	408	398	398
395	390	390	396	398	396
392	392	408	390	392	392
395	390	395	398	396	392
390	394	396	403	398	394
392	392	385	390	394	392
394	390	385	410	395	390
390	395	410	410	392	394
392	395	410	392	398	395
394	395	390		398	385
398	398	392		395	395
392	390	390		396	395
394	398	392		395	398
394	395	385		395	398
395	387	388		395	396
392	396	386		392	395
13749	13778	13457	11092	14202	13839

6" Pipes

395	398	398	392	394	396
395	398	395	396	392	398
394	396	398	394	396	395
394	396	392	396	390	394
390	394	398	396	392	396
398	392	396	396	396	396
398	396	395	396	398	395
399	395	396	395	396	395
395	395	395	392	398	396
398	395	396	392	395	394
395	394	396	394	392	396
398	394	395	395	398	395
395	395		398	395	395
385	392		395	395	392
392	395		395	392	392
398	395		390	396	392
395	392	392	390	398	390
398	394	396	392	396	395
395	394	394	392	394	395
395	394	396	394	395	395
394	395	394	396	399	398
396	398	392	396	396	398
398	396	395	390	392	399
398	395	392	395	392	394
399	394	398	394	395	398
396	395	395	392	398	398
396	395	398	394	398	396
398	396	392	396	396	395
398	398	395	396	396	398
395	398	395	390	396	396
396	398	398	394	398	396
398	396	396	394	399	395
396	395	396	398	398	398
398	398	395	398	396	
396	394	394	398	398	
13854	13835	12263	13798	13839	13051

6" Pipe

395	398	392	392	395	398
396	396	394	398	394	398
395	395	390	394	395	396
395	390	396	395	395	394
395	390	395	390	396	396
392	392	390	396	396	390
395	395	395	395	394	390
390	395	396	396	392	390
395	396	392	396	396	395
396	395	398	399	398	395
392	396	390	390	395	396
392	396	394	398	396	396
395	392	392	395	396	394
395	395	392	392	398	396
394	392	396	398	396	392
396	395	394	396	398	390
392	395	395	396	396	396
398	396	406	398	395	396
398	396	394	395	398	396
394	392	395	395	398	398
395	396	396	396	390	396
398	392	398	395	396	395
392	395	396	396	398	395
396	398	392	392	396	396
396	392	392	392	396	396
392	392	392	396	396	395
395	396	398	395	395	395
398	398	392	395	398	396
395	394	405	395	396	398
394	396	396	394	398	396
394	395	395	394	396	392
395	396	396	395	396	396
396	398	395	398	398	398
395	395	392	396	398	398
396	396	395	395	396	395
13817	14205	13816	13826	13859	13828

6" Pipe

396	396	395
396	398	398
392	392	398
390	390	395
395	395	396
396	406	396
398	396	400
395	396	398
395	398	410
396	398	385
398	396	395
396	394	390
394	395	395
390	396	398
392	398	392
392	396	398
396	398	396
398	395	398
398	395	398
390	398	396
396	395	396
396	396	395
395	396	398
396	398	396
395	395	396
398	396	398
395	395	398
390	398	396
392	394	398
398	395	398
395	395	396
394	396	398
392	392	396
395	396	394
398	395	395
		396
13818	14256	14281

6" Pipe = 1488 lineal ft, wt. = 5878.09 lbs = 2.93 tons

$1488 \overline{)\ 5878.09}$ (395 / 33 ft)

$\frac{4464}{1423.0}$

$\frac{1323}{100}$

$\frac{99}{1}$ 80

4" Pipe
July 30th 1900

240	240
240	242
242	240
242	240
240	240
242	242
240	240
242	242
240	240
236	2166
242	
242	
242	
240	
235	
242	
242	
240	
242	
240	
242	
240	
242	
242	
240	
242	
240	
240	
238	
240	
240	
240	
240	
242	
240	
8419	

4" Pipe = 44 lengths, wt. = 10585 lbs = 5.29 tons

44) 10585 (240
88
178
176
20

10" Pipe
July 30th 1900

750	750	755	765	796	750
740	765	750	770	835	758
770	750	757	745	792	755
740	760	750	760	790	760
775	740	750	756	777	770
755	755	740	760	830	750
745	755	755	740	816	783
755	740	750	755	802	758
750	745	750	750	818	765
760	740	750	772	811	750
755	745	750	743	820	760
760	760	755	760	803	752
750	760	750	760	805	760
760	745	745	750	818	767
745	750	750	770	808	750
755	750	750	765	795	762
750	755	760	755	805	765
755	755	740	765	814	772
755	760	750	750	811	762
750	750	745	743	834	768
775	745	750	750	810	770
755	758	780	750	816	
765	755	745	747	807	
755		750	782		
750		755	750		
750		750	746		
745	745	755	755	775	
775	750	750	760	775	
740	750	765	755	775	
750	750	760	742	765	
745	755	760	740	780	
755	745			780	
750	758			757	
760	740			745	
740	747			760	
770	756				
27255	24784	23322	23405	25525	15987

10" pipe = 184 lengths
wt. = 140.278 lbs = 70.23 tons

City 24" Pipe
July 30th 1900

2670	2470
2670	2710
2670	2520
2680	2660
2470	2530
2580	2650
2520	2570
2660	2635
2680	2590
2530	2670
2630	2550
2510	2480
2680	2670
2470	2505
2690	2660
2720	
2320	
2520	
2470	
2670	
2650	
2665	
2670	
2676	
2630	
2660	
2630	
2620	
2570	
2470	
2585	
2650	
2630	
2570	
2620	

5th St. N. of "D" 6" pipe

Aug. 24-1900		Aug. 28—	
1 - Piece	398	1 Piece	394
" "	390	" "	392
" "	398	" "	392
" "	398	" "	392
" "	395	" "	395
" "	396	" "	394
" "	396	" "	392
" "	395	" "	390
" "	395	" "	395
" "	395	" "	392
" "	396	" "	392
" "	410	" "	396
" "	390	" "	396
" "	407	" "	398
" "	408	" "	398
" "	403	" "	398
" "	409	" "	396
" "	405	" "	395
" "	407	" "	394
" "	407	" "	396
" "	411	" "	394
" "	410	" "	394
Aug. 25.		Aug 29th	
1 Piece	387	1 piece	392
" "	390	" "	394
" "	396	" "	398
" "	385	" "	395
" "	390	" "	394
" "	395	" "	396
" "	396	" "	396
" "	390		
" "	395		11310
" "	396		
" "	396		
	13135		

at 71' North of "D" on 5th 3/4" top East
" 120.5' " " " " " 3/4" " "
" 173.6' " " " " " 3/4" " "
" 230' " " " " " 3/4" " "
" 42.6' South " C " " 3/4" " "
at N. E. cor. 5th + C. double nozzle hydrant.
N. line C. 6x6x6 T. + 6" Gate leading to hydrant.
at 43.10" N. of C on 5th 3/4" top East
" 150.5' " " " " " 3/4" " "
South line B. St. 6x6x6 T. + 6" gate leading to double nozzle hydrant S. E. cor. 5th + B.
at 72.5' South of B. on 5th 3/4" top West
" 101.8' " " " " " 3/4" " "
" 161' " " " " " 1" " "

7th St. S. of "D" St.
Aug. 29th 1900.

1 piece	394	6" gate at S. line
" "	395	
" "	392	"D" on 7th
" "	394	
" "	395	at 32' S. D. 1" Typ W.
" "	394	
" "	392	" 47.7" " " 3/4 " E.
" "	392	
" "	394	
" "	390	
" "	394	
" "	398	
" "	396	
" "	396	
" "	395	

4th St. N. of 7th St. Dyke 8"
6" pipe

1 piece	385	1 piece	394
" "	390	" "	390
" "	385	" "	385
" "	390	" "	390
" "	392	" "	398
" "	390	" "	395
" "	392	" "	385
" "	390	" "	406
" "	388	" "	392
" "	392	" "	390
" "	392	" "	395
" "	388	" "	392
" "	392	" "	390
" "	390	" "	394
" "	395	" "	390
" "	390	" "	388
	5459		6279

at 61' N. of H on 4th 3/4" top East
" 25.6" S. " "G" " " 3/4 " "
At north line "G" 6x6x6 T. 6" gate
for (double nuzzle) hydrant at N.W. cor
4th + G.
at 47.8' N. of "G" on 4th 3/4" top East
" 92' " " " " " 3/4" " "

4th St. N. of H. 6" pipe

1 pipe	398	1 pipe	390
" "	395	" "	395
" "	394	Sept. 14th	
" "	392		
" "	392	1 pipe	390
" "	398	" "	392
" "	392	" "	390
" "	390	" "	390
" "	396	" "	395
" "	392	" "	395
" "	396	" "	394
" "	396	" "	392
" "	392	" "	396
" "	394	" "	394
" "	396	" "	394
" "	392	" "	392
" "	392	" "	392
" "	394	" "	395
" "	392	" "	396
" "	394	" "	394
" "	392	" "	394
" "	390	" "	392
" "	392	" "	396
" "	390	" "	395
" "	392	" "	396
" "	392	" "	392
" "	390	" "	394
" "	390	" "	396
" "	392	" "	396
" "	390	" "	390
" "	390	" "	395
" "	390	" "	395
" "	394	" "	394
" "	392	" "	390
" "	392	" "	395
	13733		12986

at 96.7' S. of ℄ on 4th 3/4" top East
" 123' S " " " " 3/4" " "
" 150' " " " " " 3/4" " "
" 265.6' " " " " " 3/4" " "
at N. line "H" 6×6×6 T. 6" Gate to double nozzle hydrant N.E. cor. H + 4th
at 44.5' S. of "H" on 4th 3/4" top East
" 48.9 " " " " " 3/4" " "
" 116.3' " " " " " 3/4" " "
" 54.5' " " "D" " " 3/4" " "
" 90' " " " " " 3/4" " "
" 103' " " " " " 3/4" " "
" 153.5' " " " " " 3/4" " "
at N. line "E" St. 6×6×6 T. 6" gate to double nozzle hydrant N.E. cor. 4th and "E" St.

4th St. N. of H 6" pipe

1	piece	395
"	"	396
"	"	395
"	"	396
"	"	398
"	"	406
"	"	392
"	"	392
"	"	398
"	"	395
"	"	395
"	"	398
"	"	394
"	"	392
"	"	394
"	"	396
"	"	396
"	"	390
"	"	394
"	"	398
"	"	398
"	"	398
"	"	398
"	"	396
"	"	396
"	"	390
"	"	395
		10676

4th St. N of D. 6"

1	piece	392
"	"	394
"	"	396
"	"	395
"	"	394
"	"	395
"	"	398
"	"	395
"	"	395
"	"	395
"	"	396
"	"	396
"	"	394
"	"	394
"	"	395
"	"	396
"	"	392
"	"	395
"	"	394
"	"	392
"	"	394
"	"	394
		13008

at North line "D" St on 4th. 6" Gate

6×6×6 T + 6" gate to double nozzle hydrant at N. E. cor.

at 91' N. of "D" on 4th 3/4" tap East

" 127.10" " " " " " 3/4" " "

" 187.5' " " " " " 3/4" " "

" 202.8' " " " " " 1" " "

" 242.6' " " " " " 2" " "

South line D on 4th 6" Gate.

N. of 4th St
" "D" St.

1 pipe		395
"	"	394
"	"	398
"	"	390
"	"	390
"	"	392
"	"	392
"	"	392
"	"	392
"	"	395
"	"	392
"	"	394
"	"	390
"	"	394
"	"	398
"	"	396
"	"	396
"	"	395
"	"	394
"	"	395
"	"	390
"	"	392
"	"	392
"	"	392
"	"	392
"	"	396
"	"	398
"	"	395
"	"	396
"	"	388
		11808

at North line "C" St. 6×6×6 T
6" gate for double nozzle hydrant
N.E. cor. C + 4th
at 41' N. of C. on 4th 2" tap West
" 80' " " " " " 2" " East
" 131.5' " " " " " 1" " "
South line "B" 6×6×6 T. 6" gate
for double nozzle hydrant S.E. cor.
at 19.6' S. of "C" St. 2" tap West
" 98.7' " " " " 1" " "

3rd St. N. of H. St. 6" pipe-

1 piece		395	1 piece		399
"	"	396	"	"	395
"	"	394	"	"	397
"	"	400	"	"	396
"	"	395	"	"	398
"	"	392	"	"	398
"	"	395	"	"	399
"	"	390	Sept 20.		
"	"	396	1 piece		395
"	"	398	"	"	398
"	"	396	"	"	398
"	"	398	"	"	396
"	"	392	"	"	396
"	"	396	"	"	396
"	"	390	"	"	398
"	"	390	"	"	399
"	"	394	"	"	398
"	"	396	"	"	392
"	"	392	"	"	396
"	"	396	"	"	395
"	"	396	Sept 21	"	395
"	"	392	"	"	394
"	"	395	"	"	398
"	"	395	"	"	396
"	"	398	"	"	398
"	"	392	"	"	396
"	"	395	"	"	393
"	"	395	"	"	394
"	"	390	"	"	396
"	"	398	"	"	398
"	"	395	"	"	398
"	"	392	"	"	398
"	"	392	"	"	395
"	"	394	"	"	395
"	"	396	"	"	395
		13804			13468

at 118' N. of H on 3rd 3/4" tap East

" 177' " " " " " 3/4" " "

at S. line "G" 6x6x6 T. 6" gate for double nozzle hydrant S.W. cor- of 3rd & "G."

at N. line "F" & 3rd 6x6x6 T. 6" gate. for double nozzle hydrant at N. E. cor- 3rd & F.

at N. line "E" St. 6x6x6 T. 6" gate for double nozzle hydrant N.W. cor. 3rd & E.

at 100' N. of E on 3rd 3/4" tap West

" 99' " " F. " " 3/4" " "

3rd St. N. of 6" pipe —

1 pipe	390	
" "	394	
" "	396	
" "	395	
" "	398	
" "	392	
" "	390	
" "	398	
" "	390	
" "	394	
" "	395	
" "	396	
" "	395	
" "	392	
" "	395	
" "	396	
" "	396	
" "	398	
" "	398	
" "	398	
" "	396	
" "	390	
" "	398	
" "	396	
" "	390	
" "	398	
" "	396	
" "	398	
" "	392	
Sept 27 " "	398	
" "	398	
" "	390	
	13435	

1 pipe	398	
" "	398	
" "	395	
" "	398	
" "	396	
" "	396	
" "	390	
" "	395	
" "	394	
" "	395	
" "	395	
" "	393	
" "	390	
" "	395	
" "	390	
" "	396	
" "	398	
" "	396	
" "	395	
" "	396	7895

3rd St N. of "20" 4" pipe

1 pipe	240	
" "	240	
" "	240	
" "	242	
" "	242	
" "	242	
" "	240	
" "	240	
" "	240	
" "	242	
" "	240	
" "	240	
" "	242	
" "	240	
" "	242	
" "	240	
	3125	

3rd St. N. of "20" 4" pipe —

1 pipe	242	at N. line 3rd + C"
" "	242	
" "	240	4x4x4 T. 4" Gate
" "	240	
" "	242	for single nozzle hydrant
" "	240	
" "	235	at N. E. cor. 3rd + C.
" "	242	
" "	240	
" "	240	
" "	240	S. line N. of 3rd St.
" "	240	
" "	242	3/4" tap West
" "	242	
" "	240	
" "	240	
" "	242	
" "	240	
" "	242	
" "	240	
	4811	

2nd St.	N. of H.	6" pipe
1 piece	396	1 piece 396
" "	393	" " 396
" "	398	" " 396
" "	397	" " 395
" "	395	" " 396
" "	392	" " 392
" "	396	" " 398
" "	395	" " 395
" "	396	" " 396
" "	395	" " 396
" "	396 Sept 27	" " 394
" "	396	" " 392
" "	395	" " 392
" "	395	" " 396
" "	392	" " 394
" "	392	" " 394
" "	398	" " 406
" "	395	" " 394
" "	396	" " 395
" "	390	" " 392
" "	392	" " 395
" "	396	" " 392
" "	395	" " 394
" "	395	" " 390
" "	396	" " 396
" "	394	" " 395
" "	396	" " 390
" "	395	" " 395
" "	395	" " 396
" "	398	" " 392
" "	396	" " 398
" "	398	" " 390
" "	399	" " 396
" "	395	" " 390
" "	390	" " 396

at N. line "G" + 2nd 6×6×6 T.
6" gate for double nozzle hydrant.
N. E. cor. G + 2nd
at 16' N. of H on 2nd 3/4" tap East
at N. line "F" 6×6×6 T. 6" gate
for double nozzle hydrant N. E. cor.
at 48' South of E on 2nd 3/4" tap East
" 77' " " " " " 3/4" " "

2nd St N. of H 16" pipe.		2nd St N. of D 6" pipe.	
1 pipe	390	1 pipe	396
" "	398	" "	405
" "	398	Sept. 28. " "	392
" "	392	" "	392
" "	395	" "	396
" "	395	" "	390
" "	392	" "	396
" "	392	" "	396
" "	392	" "	395
" "	398	" "	396
" "	392	" "	395
" "	392	" "	396
" "	395	" "	390
" "	392	" "	395
" "	398 Oct 1st	" "	385
" "	396	" "	410
" "	392	" "	398
" "	395	" "	396
" "	396	" "	395
" "	395	" "	396
" "	394	" "	410
" "	398	" "	398
" "	392	" "	396
" "	395	" "	398
" "	397	" "	396
" "	395	" "	395
" "	396	" "	398
" "	395	" "	398
		" "	396
		" "	396
		" "	398
		" "	392
		" "	398
		" "	395
		" "	390

at N. line "D" St on 2nd 6" gate on main. 6×6×6 T. 6" gate for double nozzle hydrant N. E. cor. 2nd & "D".

at S. line "B" St. 6×6×6 T. 6" gate to double nozzle hydrant S. E. cor. 2nd & B. Sts.

2nd St. N. of "O"

6" pipe - Oct 2nd

1 pipe	"	395
"	"	392
"	"	394
"	"	396
"	"	396
"	"	395
"	"	394
"	"	395
"	"	398
"	"	398
"	"	392
"	"	395
"	"	395
"	"	394
"	"	395
"	"	396
"	"	396
"	"	396
"	"	394
"	"	398
"	"	395
"	"	394
"	"	398
"	"	395
"	"	395
		10671

H. St. East of 5th Oct. 4. 1920

10" - 1 pipe	"	780
"	"	780
"	"	780
"	"	786
"	"	786
"	"	760
"	"	760
"	"	775
"	"	758
"	"	755
"	"	755 N.W.
"	"	778
"	"	750
"	"	783
"	"	758
"	"	758
"	"	775
"	"	765
"	"	748
"	"	765
"	"	762
"	"	762
Oct 5th "	"	750
"	"	760
"	"	762
"	"	760
"	"	752
"	"	750
Oct 6th "	"	807
"	"	835
"	"	816
"	"	796
"	"	810
"	"	771
"	"	785
Oct - 1st "	"	792
2nd "	"	798

at 14' east of centre of 6th + H. Sts.

10 × 10 × 6 × 6 cross.

6" pipe 6th St intersection 1 pipe

S. line 6th and H. 6" gate " " 395

" " 396

" " 392

" " 392

" " 396

at 14' east of centre of 7th + H

10" × 10" × 10" × 6" X plugged.

6" pipe at 7th + H. 1 pipe 396

" " 396

one pipe taken " " 398

" " 395

to 7th + H. 2 pipes " " 394

" " 394

used at 6th + H.

H St East of 6th

10"

Oct. 6th 1900

1 pipe	814	Oct 9th	
" "	802		
" "	818		
" "	811		
" "	820		
" "	803		
" "	805	5673	
Oct. 8th 1900			
" "	834		
" "	777		
" "	811		
" "	830		
" "	795		
" "	805		
" "	816		
" "	760		
" "	745		
" "	758		
" "	750		
" "	760		
" "	818		
" "	805		
" "	760		
" "	750		
" "	758		
" "	760		
" "	750		
" "	750		
" "	765	Oct 11th	
" "	802		
" "	818		
" "	762		
" "	750		
" "	758		
" "	745		
" "	760		
	21748		

7th N. H.

10"

1 pipe	760		
" "	760		
" "	740		
" "	750		
" "	740		
" "	760		
" "	775		
" "	755		
" "	770		
" "	775		
" "	750		
" "	785		
" "	780		
" "	775		
" "	760		
" "	755		
" "	760		
" "	755		
" "	765		
" "	770		
" "	760		
" "	745		
" "	760		
" "	750		
" "	750		
" "	755		
" "	785		
" "	775		
" "	710		
" "	710		
" "	705		
" "	702		
" "	745		
" "	750		
" "	760		
	26407		

at S. line of H. & 7th

6×6×6 T. 6" gate on main

6"×4" inclusive, 4" gate on pipe

for single nozzle hydrant S. E. cor.

7th & H. St.

at 2' south of south line "G" 3/4" to East

at 125.5 N. of G. on 7th 3/4" " West

" 24.5' S. of H " " 3/4" " East.

" 40' N. " " " " 3/4" " "

" 19' N. " G " " 3/4" " West

7th N. of H.
10"

1 piece	708
" "	718
" "	702
" "	702
" "	710
" "	728
" "	710
12th	
" "	745
" "	750
" "	755
" "	775
" "	745
" "	750
" "	750
" "	760
" "	760
" "	780
" "	770
" "	765
" "	760
" "	745
" "	755
" "	750
" "	765
" "	716
" "	710
" "	704
" "	722
" "	730
" "	702
" "	702
" "	740
" "	802
" "	813
" "	714
" "	25903

at N. line H + 7th 10 x 10 x 6 T
6" gate on pipe leading to double nozzle hydrant N. E. cor. H. + 7th

at 51' S. of "E" on 7th 3/4" tap East

at S. line "D" + 7 10" gate

India N of H. 6"			7th N. of H. 10"		
1	piece	401	1	piece	750
"	"	404	"	"	757
"	"	410	"	"	760
"	"	400	"	"	750
"	"	402	"	"	740
"	"	406			710
"	"	408	"	"	714
"	"	405	"	"	750
"	"	408	"	"	750
"	"	403	"	"	758
"	"	411	"	"	740
"	"	418	"	"	747
"	"	411	"	"	756
"	"	408	"	"	755
"	"	413	"	"	[illegible]
"	"	403	"	"	74[illegible]
"	"	406	"	"	750
"	"	413	"	"	755
"	"	401	"	"	760
"	"	406	"	"	765
"	"	394	"	"	750
"	"	395	"	"	760
"	"	396 Oct. 14th	"	"	750
"	"	396	"	"	755
"	"	398	"	"	750
"	"	395	"	"	750
"	"	395	"	"	750
"	"	395	"	"	755
"	"	396 11697	"	"	755
Oct 14th			"	"	750
1	"	704			
"	"	720			21737
"	"	716			
"	"	706			
"	"	708			
"	"	720			
		708 4982			

at 54.5" south of "D" 1" Top East
" 96' " " " 3/4" " "
" 157' " " " 3/4" " West
" 42.5' " " " 3/4" " "

Oct. 17th

6th St. N. of H. 6" pipe

1 pipe		395
"	"	398
"	"	395
"	"	395
"	"	395
"	"	395
"	"	394
"	"	396
"	"	394
"	"	396
"	"	395
"	"	398
"	"	395
"	"	396
"	"	398
"	"	396
"	"	398
"	"	395
"	"	396
"	"	395
"	"	398
"	"	396
"	"	395
"	"	396
"	"	396
"	"	398
"	"	396
"	"	398
"	"	395
"	"	396
"	"	396
"	"	396
		12877

at N. line H. on 6th 6" gate

at 38.5" N. of H on 6th 1" tap East

" 128' " " " " " 3/4" " "

" 165.7" " " " " " 3/4" " "

" 229.8" " " " " 3/4" " "

" 253' " " " " " 3/4" " "

at N. line G. & 6th 6×6×4 T.

1 pipe 4" pipe 240= nipple

4" gate on pipe to single nozzle

hydrant N. E. cor.

at 105' N of "G" on 6th 3/4" tap East

" 201.5 " " " " " 1" " "

at N. line K on 6th 6×6×6 T.

6" gate on pipe for double nozzle

hydrant at N. E. cor. K & 6th

at N. line E on 6th 6×6×6 T

at 18' S. of N. line of "E" on 6th 1" tap East.

6th St. N. of H.

Oct. 19th 1900

1 piece	411	1 pencil	396
" "	405	" "	396
" "	412	" "	398
" "	413	" "	348
" "	406	" "	396
" "	408	" "	398
" "	409	" "	396
" "	412	" "	395
" "	415	" "	394
" "	407	" "	395
" "	415	" "	396
" "	410	" "	395
" "	396	" "	398
" "	398	" "	396
" "	396	" "	396
" "	396	" "	398
" "	398	" "	348
" "	396	" "	398
" "	398	" "	395
" "	396	" "	395
" "	398	" "	392
" "	396	" "	396
" "	396	" "	392
" "	398	" "	392
" "	396	" "	390
" "	398	" "	392
" "	396	" "	395
" "	398	" "	390
" "	398	" "	398
" "	396	" "	390
" "	398	" "	392
" "	395	" "	392
" "	398	" "	392
" "	396	" "	392
" "	396		
" "	396		
	13654		13024

6th St. N. of H

6" pipe

Oct 20th 1900

		at 92' S. of D. on 6th 3/4 East
		at 45' S. of "D" on 6th 3/4" bty East
1 piece	398	" 108' " " " " " 3/4" " "
" "	394	
" "	390	" 150'6" " " " " 3/4" " "
" "	410	
" "	410	" 66'6" N. " " " 3/4" " "
" "	418	
" "	409	" 36' S. " C " " 3/4" " "
" "	416	
" "	413	" 87'10" " " " " 3/4" " "
" "	403	
" "	413	" 139' " " " " 3/4" " "
	413	
Oct 22 "	410	" 2'6" N " " " " 3/4" " "
1 "	408	
1 "	405	" 67'4" " " " " 3/4" " "
" "	409	
" "	408	" 112'5" " " " " 3/4" " "
" "	410	
" "	410	" 132' " " " " 3/4" " "
" "	407	
" "	410	" 174'6" " " " " 3/4" " "
" "	410	
" "	414	" 166' S. of F on 6th 3/4 " West
" "	414	
" "	407	" 139.3' N. " " " 3/4" " "
" "	411	
" "	405	
" "	403	
" "	407	
" "	417	
" "	406	
" "	415	
" "	403	
	13475	

6th St N. of H
6" Oct. 23. 1900.

1 piece		410	1	piece	392
"	"	412	"	"	398
"	"	417	"	"	396
"	"	411	"	"	398
"	"	413	"	"	395
"	"	412	"	"	395
"	"	412	"	"	390
"	"	408	"	"	396
"	"	408	"	"	395
"	"	410			3555
"	"	406	1st St N of H.		
"	"	398	Oct 27, 1900.		
"	"	389	1 piece		375
"	"	412			384
"	"	412			380
"	"	412			390
"	"	410			382
"	"	411			386
"	"	410			378
"	"	411			384
"	"	415			330
"	"	417			392
"	"	396			395
"	"	392			382
"	"	390			395
"	"	395			395
"	"	392			395
"	"	385			392
"	"	394			395
"	"	394			392
"	"	390			396
"	"	390			390
"	"	396			385
"	"	392			392
"	"	392			
		14109			8476

1 piece	374	at N. line L + 1st	
" "	370		
" "	384	6×6×6 T.	
" "	380		395
" "	386	Nov. 13th 1900. 1 piece	396
" "	370	" "	393
" "	380	" "	398
" "	380	" "	396
" "	380	" "	395
" "	386	" "	395
" "	384	" "	394
" "	390		394
" "	386	at N. line M. + 6th	3551
" "	380		6×6×6T
" "	386	6" gate on main	
" "	376		
" "	380	6" " on pipe to Double	
" "	390		
" "	380	nozzle hydrant N.E. cor	
" "	370		
" "	390	6" gate on main S.	
" "	382		
" "	374	line M.	
" "	370		
" "	388	1st + L. N. line	
" "	376		
" "	370	6" Gate on pipe	
" "	374		
" "	380	for double nozzle	
" "	380		
" "	368	hydrant N. E. cor.	
" "	374		
" "	372	1 piece 6" pipe	390
" "	370		
			12800

1st St. N. of H.

Oct. 27th 1900.

1	pipe	386	1	pipe	412
"	"	388	"	"	415
"	"	376	"	"	402
"	"	378	"	"	404
"	"	380	"	"	405
"	"	390	"	"	405
"	"	376	"	"	407
"	"	380	"	"	405
"	"	380	"	"	418
"	"	378	"	"	403
"	"	388	"	"	415
		11 00	"	"	376
Oct. 29th	1900		"	"	390
			"	"	374
1	pipe	406	"	"	378
"	"	401	"	"	380
"	"	405	"	"	380
"	"	413	"	"	378
"	"	410	"	"	386
"	"	405	"	"	380
"	"	405	"	"	380
"	"	406	"	"	370
"	"	410 Oct 30th	"	"	411
"	"	408	"	"	410
"	"	398	"	"	405
"	"	376	"	"	409
"	"	376	"	"	406
"	"	380	"	"	410
"	"	380	"	"	411
"	"	382	"	"	407
"	"	386	"	"	384
"	"	386	"	"	400
"	"	382	"	"	405
"	"	386			
"	"	406			13120
"	"	405			
		8712			

S. line D + 1st 6×6×6 T.

6" gate on main 6" gate on pipe for double nozzle hydrant S. E. cor-

Union N. of D.

6" pipe Oct. 31. 1900

1	pipe	398	1	pipe	396
"	"	398	"	"	396
"	"	398	"	"	395
"	"	392	"	"	395
"	"	396	"	"	395
"	"	396	"	"	396
"	"	395	"	"	394
"	"	398	"	"	398
"	"	395	"	"	395
"	"	388	"	"	395
"	"	386	"	"	395
"	"	386	"	"	395
"	"	385	"	"	395
"	"	386	"	"	394
"	"	386	"	"	395
"	"	392	"	"	410
"	"	392	"	"	400
"	"	398	"	"	395
"	"	396	"	"	385
"	"	396	"	"	398
"	"	395	"	"	394
"	"	395	"	"	392
"	"	398			
"	"	395			
"	"	396			
"	"	395			
"	"	398			
"	"	398			
"	"	392			
"	"	395			
"	"	394			
"	"	392			
"	"	398			

17998

8601

N. line Union + D. 6" gate on main —

South line of B. 6×6×6 T 6" gate for double nozzle hydrant S. E. cor.

5th St S of H Nov. 2nd 1900

6" pipe.

1	piece	395	1	piece	396
"	"	395	"	"	396
"	"	398	"	"	398
"	"	394	"	"	398
"	"	390	"	"	396
"	"	392	"	"	396
"	"	394	"	"	395
"	"	392	"	"	398
"	"	398	"	"	398
"	"	396	"	"	396
"	"	398	"	"	396
"	"	395	"	"	394
"	"	390	"	"	398
"	"	398	"	"	396
"	"	395	"	"	390
"	"	394	"	"	399
"	"	396	"	"	395
"	"	394	"	"	395
"	"	396	"	"	398
"	"	396	"	"	399
"	"	398	"	"	399
"	"	396	"	"	398
"	"	398	"	"	392
"	"	396	"	"	395
"	"	398	"	"	396
"	"	395	"	"	395
"	"	394	"	"	396
"	"	396	"	"	394
"	"	398	"	"	395
"	"	395	"	"	394
"	"	395	"	"	395
"	"	396	"	"	392
"	"	396	"	"	395
"	"	398			
"	"	398			1316
		13149			

at 81' N. of L. on 5th 3/4" taps East

" 144.3' " " " " 3/4" " "

" 199. " " " " 3/4" " "

" 234' " " " " 3/4" " "

" 295 " " " " " " "

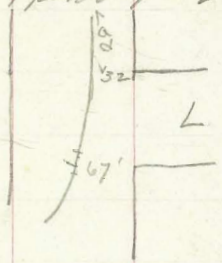
at N. line K. 45th 6×6×6 T.

6×4 reducer. 4" gate on pipe to single nozzle hydrant N. E. cor.

Near S. line L. St 6×6×6 T 6×4 reducer. 4" gate on pipe on wharf

at 18' N. of S. line K on 5th 3/4" taps East

N. line K. 1 piece 4" #242



at 108' 7" S. of S line K on 5th 3/4" taps West

Nov 3rd 1900
5th S.H. 6"

1	piece	394			398
"	"	392			396
"	"	394			395
"	"	394			398
"	"	395			394
"	"	395			398
"	"	390			395
"	"	398			392
"	"	396			396
"	"	395			398
"	"	395			390
"	"	395			390
"	"	395			395
"	"	395			
"	"	395			5135
"	"	392			
"	"	398			
"	"	390			
"	"	398			
"	"	398			
"	"	392			
"	"	392			
"	"	396			
"	"	392			
		396			
		395			
		398			
		398			
		396			
		395			
		396			
		394			
		395			
		396			
		13265			

at	47.8'	N. K. on	5th	3/4"	tap	East.
"	85'	" " "	"	3/4	"	"
"	223.3'	" " "	"	1"	"	"
"	25	" J "	"	3/4"	"	"
"	104	" " "	"	3/4"	"	"
"	126	" " "	"	3/4"	"	"
"	196.5	" " "	"	3/4"	"	"
"	50' 10" S I	"	"	3/4"	"	"
"	N. line I + 5th			6 x 6 x 6		T.
"	75' 6" N of I on	5th		3/4"	tap	East
"	122'	" " "	"	3/4"	"	"
"	152' 5	" " "	"	3/4"	"	"
"	192'	" " "	"	3/4"	"	"
"	228' 6"	" " "	"	3/4"	"	"
"	277' 8	" " "	"	3/4"	"	"
"	204' 7"	" " "	"	3/4"	"	West.
"	211.5'	" " J	"	3/4"	"	"

6th St South of H 6" pipe

Nov 7th 1906

				1	pipe	392
				"	"	395
1	Pipe	390		"	"	394
"	"	392		"	"	394
"	"	392		"	"	392
"	"	392		"	"	396
"	"	394		"	"	387
"	"	395		"	"	386
"	"	390		"	"	395—
"	"	394	Of 9	"	"	390
"	"	392—		"	"	386
Nov 8th		394		"	"	396
"	"	392		"	"	390
"	"	392		"	"	390
"	"	396		"	"	386
"	"	395—		"	"	398
"	"	392		"	"	388
"	"	395—		"	"	388
"	"	394		"	"	410
"	"	392		"	"	395—
"	"	395		"	"	416
"	"	392—		"	"	385
"	"	395—		"	"	396
"	"	390		"	"	385
"	"	392		"	"	398
"	"	394		"	"	395
"	"	390		"	"	408
"	"	392		"	"	390
"	"	394		"	"	392
"	"	395		"	"	392
"	"	395		"	"	390—
"	"	390		"	"	392
"	"	392—		"	"	394
"	"	394		"	"	390
"	"	395		"	"	392

at N line of L & 6th 6×6×6 T
6×4 reducer 4" gate for hydrant
single nozzle N. E. cor.
at 125.5' N. of K on 6th 3/4" tap East
" 231' 10" " " " " " 3/4" " "
" 274' 6" " " " " " 3/4" " "
at N. line J. St. 6×6×6 T. 6" gate
and pipe to double nozzle hydrant N. E. cor
at 76.3" N. of J on 6th 3/4" tap East
" 139.5' " " " " " 3/4" " "
" 117' " " " " " 3/4" " "
" 201' " " " " " 3/4" " "
" 252.5' " " " " " 3/4" " "
" 26' " " I " " 3/4" " "
" 121' " " " " " 3/4" " "
" 2' S. of S. line H. 6

6th St S. of H

6" pipe

1	piece	396	1	piece	395
"	"	392	"	"	398
"	"	385	"	"	395
"	"	388	"	"	396
"	"	390	"	"	395
"	"	392	"	"	403
"	"	394	"	"	412
"	"	392	"	"	405
"	"	395	"	"	401
"	"	395	"	"	411
"	"	385	"	"	405
"	"	392	"	"	415
"	"	394	"	"	408
"	"	395	"	"	403
"	"	395	"	"	407
"	"	392	"	"	396
"	"	394	"	"	390
"	"	395	"	"	396
"	"	390	"	"	396
"	"	392			
"	"	392			
"	"	386			
"	"	392			
"	"	390			
"	"	396			
"	"	388			
"	"	392			
"	"	392			
"	"	394			
"	"	395			
"	"	398			
"	"	396			
"	"	396			
"	"	396			
"	"	398			

4th St N. of K.

X	piece	390	at N. line F + 6th
"	"	395	
"	"	396	6×6×6 T. 6" gate
"	"	386	
"	"	392	on pipe for double
"	"	390	
"	"	395	nozzle hydrant N. E.
"	"	394	
"	"	395	cor.
"	"	408	
"	"	398	
"	"	386	
"	"	390	at N. line E + 6th
			6×6×6 T. 6" gate
			on pipe to double
			nozzle hydrant
			N. E. cor.

at N. line D + 6th 6×6×6 T 6" gate on pipe for double nozzle hydrant N. E. cor.

at S. line B + 6th 6×6×6 T 6" gate on pipe for double nozzle hydrant S. E. cor.

4th St. N of K.

1 pc	394
" "	395
" "	395
" "	396
" "	394
" "	396
" "	391
" "	395
" "	396
" "	390
" "	395
" "	398
" "	396
" "	398
" "	395
" "	394
" "	390
" "	394
" "	395
" "	396
" "	392
" "	396
" "	394
" "	395
" "	396
" "	395
	10.261#

11th + H.

1 pc	385
" "	408
" "	385
" "	378
" "	395

10th + H

1 Pc.	396
" "	408
" "	390
" "	390
" "	390
" "	400
" "	390
" "	408

9th + H

1 pc	392
" "	390
" "	394
" "	396
" "	392
" "	396

H. St.

750	765		
760	760		
743	740		
755	755		
760	755		
745	746		
750	760		
750	745		
755	740		
760	745		
745	740		
760	755		
755	755		
750	760		
750			
740			
750			
745			
755			
750			
760			
756			
765			
756			
775			
754			
750			
755			
750			
755			
770			
775			
745			
750	780		
750	745		
770	765		
750	756		
765	755		
750	755		
775	745		
758	772		
750	755		
745	755		
755	750		
750	755		
	745		

9th + H. 10×10 × 6×6 X

10th + H 10×10 × 6×6 X

11th + H 10×10 × 6×6 X

8th St. 10×10 × 6×6 X

N line 8 6" Gale

S " " " "

	762
750	770
750	750
742	765
745	755
750	770
740	760
760	
750	
750	
745	
750	
745	
760	
755	

H St.

750	758	755	
745	750	746	
760	740	755	
755	750	760	
762	745	755	
770	755	740	
750	750	745	
765	760	740	
755	755	745	
770	765	746	
760	756		
772	775		
750	750		
755	755		
750	750		
755	770		
745	755		
750	775		
750	745		
742	750		
745	750		
750	770		
740	750		
760	765		
755	750		
750	775		
745	758		
755	750		
755	754		
756	750		
765	745		
745	755		
780	760		
750	750		
750	758		
760	740		
743	750		
755	782		
760	747		
750	743		
745	755		
755	765		
760	750		
750	760		
760	740		
745	760		
755	755		
	748		

Piper ends 50' West of West line of 12th St.

8th St. N of H. 6" Piper

390
390
392
390
390
392
390
395
396
395
398
395
390
392

3/4" Tap 74'6" N of H on 8th East

1" " 60'6" " " " " West

Fire Hydrants

N.E. Cor 5th & E. sts. double Nozzle Flow connection is made with 4" inlet, Reducer at main from 6" to 4" placed at end of reducer, with a 4" cast pipe, a 4" water gate

At North line 5th & F a 6"x6"x6" T is placed, for Hydrant

Nov 21st 1898

Taps on 5th Sheet

Dist from Sonete line D"st	East side	West side	Size tap	Size pipe
37'		"	3/4"	3/4"
68.1'	"		3/4"	3/4"
80.7		"	3/4"	3/4"
106.'		"	3/4"	3/4"
121.7	"		3/4"	3/4"
145.1		"	3/4"	3/4"
148.00	"		3/4"	3/4"
153.5	"		3/4"	3/4"
173.5		"	3/4"	3/4"
175.7	"		3/4"	3/4"
222.00		"	3/4"	3/4"
224.00	"		3/4"	3/4"
251.70	"		3/4"	3/4"
254.10		"	3/4"	3/4"

over

All lead lined pipe used

Lead Connection Brass tap

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

over

Taps on Union st

Dist South of South line D'st	size	size pipe	
95'	3/4"	3/4"	Feb 10 1899 to Mr Julian Horse

Taps on Arctic st

1 3/4" tap 3/4" pipe 10 ft North of North line of E'st, this tap runs into the Electric Power house,

two 2" tap running into N. E. Cor of Power house, — 108.7 feet South of South line D st, & 109.6 feet

1 3/4" tap running into transfer stable Cor H. 34.9 feet North north line H.

Table of Weight Cast Iron Pipe

Diam	0 to 100	100-150	150-200	200-250	250-300
4"	204#	211	218#	226	236
6"	330	345	361	377	393
8"	475	502	529	557	584
10"	641	682	723	766	808
12"	826	885	944	1004	1064
14"	1031	1111	1191	1272	1352

Elevation of Golden Hill Reservoir 230 feet

				Cost 1 pipe	
Elev 5'-29 st				46.70	43.7
"	"	E	190' head	40.00	37.00
"	"	F	197' head	33.00	30.00
"	"	G	203' head	27.00	24.00
"	"	H	209' head	21.00	18.00

on 5th st

Dist South of South line E'st	East side	West side	Size tap	Size pipe
22.65		"	3/4"	3/4"
24.90	"		3/4"	3/4"
67.00		"	3/4"	3/4"
77.30	"		3/4	3/4"
94.5		"	3/4"	3/4"
119.4		"	3/4"	3/4"
122.6	"		3/4"	3/4"
131.3	"		3/4"	3/4
173.0	"		3/4	3/4
197.7		"	3/4	3/4
237.3	"	"	3/4"	3/4"
245.6	"		3/4	3/4"
271.00	"	"	3/4"	3/4"
275.30		"	3/4"	3/4"
286.2	"		3/4"	3/4"

Thanks giving day — [illegible] Bore notes

Taps on 5th Bet F. G.

Dist South South line F"	East	West	Size tap	Size pipe
34.00		"	3/4"	3/4"
58.00		"	3/4"	3/4"
79.00		"	3/4	3/4
104.80		"	3/4	3/4"
136.50	"		3/4	3/4
140.80		"	3/4	3/4
159.90		"	3/4	3/4
171.00	"		3/4	3/4
176.20		"	3/4	3/4
180.50	"		3/4	3/4
213.20		"	3/4"	3/4"
245.80	"		3/4"	3/4"
248.00		"	1 1/4	1 1/4 into Cole Bld
296.00	"		1 1/4"	1 1/4 into Hardys
300.00				

Taps on 5th Bet G. & H.

Dist South of Southe line G"	East	West	Size Tap	Sig & pipe
6.00	"		1 1/4"	1 1/4
49.50		"	1 1/4"	1 1/4
77.50	"		3/4"	3/4
101.80	"		3/4"	3/4"
127.00		"	3/4"	3/4"
146.50	"		3/4"	3/4"
166.70	"		3/4"	3/4"
245.4	"		1 1/4	1 1/4

Return to City Engineers Office
City Hall, San Diego, Cal.

12
600
7200
784
778

300
133
166

22
12
54
22
2 626
14
12

12.00

625
145
770

7.75
12
1550
775
8300

12
8
96

26
3

Johnston County Kan

15 miles from Paintsville

77 (6
72

750 39.5
14
5

Return to City Engineers Office
City Hall, San Diego, Cal.

395
394 39.5
394

36.5.0

82.10

139.

66. N. D