

# ÉGOUTS ET AQUEDUC

Compte avec la Montreal  
Water and Power Co.

13 septembre 1900 -  
14 septembre 1912

P49/C5,34

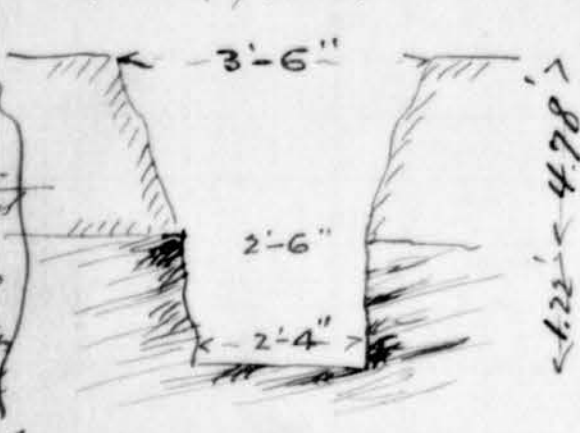
Montreal, 13 Sept. 1900

depth of trenches  
 4' - 5' 6" deep  
 6' - 5' 9"  
 8' - 6' 0"  
 10' - 6' 0"  
 12' - 6' 0"  
 16' - 6' 6"

Details to figure prices of work done for  
 Montreal Water Power Co.

Robin St. - (from Mount Royal to St. Louis) trenching  
 made by Corporation - pipe laid by Co. & refilled by Co.  
 average depth of earth 4.78 ft.  
 " " " rock 1.22 ft. 10" pipe

Bracing -  
 Based on the ge.  
 conditions of the  
 soil & the  
 nature of the  
 work to be  
 done. The  
 bracing is  
 to be of  
 iron & steel  
 and is to be  
 of the  
 following  
 nature:



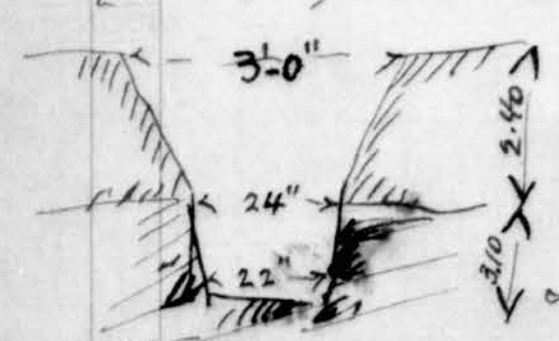
earth 3.50  
 2.50  
 6.00  
 3.00 average x 4.78 = 14.34 cft.  
 per ft. run of trench.  
 Rock 2.50  
 2.33  
 4.83  
 2.415 x 1.22 = 2.946 cft.  
 per ft. run.

earth excavation with pick & shovel with cost price 20 cts  
 per c. ft.  
 Rock = at minimum \$2.25 per c. ft. therefore.  
 14.34 c. ft. of earth per ft. run = 0.531 c. yd.

2.946 c. ft. per ft. run of rock = 0.109 c. yd.

Therefore.  
 0.531 c. yd. of earth @ 0.20 sup 0.106 say 0.11 cts.  
 0.109 " " " rock @ 2.25 " 0.245 say 0.25 cts.

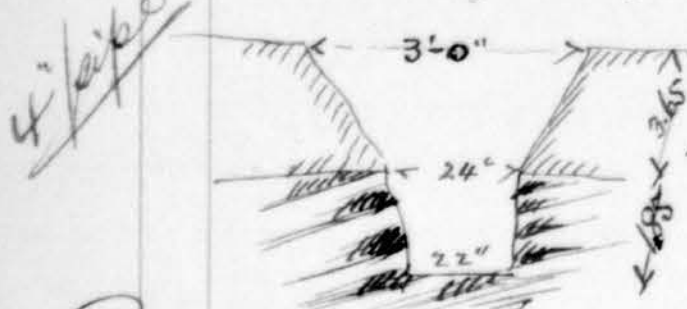
Robin St. from St. Louis to St. Jacques  
 trench by Corporation pipe laid & refilled by  
 M. W. & P. Co. 4" pipe  
 Average depth earth = 2.40 ft.  
 " " " rock = 3.10 "



earth 3.00  
 2.00  
 5.00  
 2.5 x 2.40 = 6 c. ft. = 0.22 c. yd.  
 Rock 2.00  
 1.83  
 3.83  
 1.915 x 3.10 = 5.936 c. ft. = 0.219 c. yd.  
 Therefore 0.22 c. yd earth @ 0.20 = 0.044  
 0.219 c. yd rock @ 2.25 = 0.492  
 0.536  
 Plus sup. time keeping etc @ 0.50 say 0.54 cts.

0.53  
 0.05  
 0.60

Rue St. Sanguinet - from St. Ignace to Du Carmel  
 Work done by Bastien & Valiquette  
 average depth earth = 3.65 ft. 711  
 " " rock = 1.85 ft. 777 ft. long



earth  $\frac{3.00}{2.50} \times 3.65 = 9.125 = 1.0838 \text{ c.f.}$   
 Rock  $\frac{1.83}{1.915} \times 1.85 = 3.547 = 0.131 \text{ c.f.}$

Cost of pipe \$28.50 per ton.  
 weight 21 lbs. per ft. + 3% deviation = 21.6 lbs.  
 28.50 a ton of 2000 lbs. + \$0.75 cartage = 29.25  
 $\frac{29.25}{2000} = 0.0146 \text{ cts a lb.}$   
 or 21.6 lbs. @ 0.0146 = 0.31 1/2 cts pipe & cartage.

Specials.

- 1- 6x6x4x4 Cross 215 lbs.
- 3 Ts = 4x4x4 @ 125# 375 "
- 2- 4" plugs @ 10# 20 "
- 2- 6" " @ 20# 40 "

3% =  $\frac{6.50 \text{ plus } 3\% \text{ deviation}}{669 \text{ say } 640 \text{ lbs}}$

Cost price 2 1/4 cts plus 1/2 ct for laying & cartage = 0.02 3/4 cts a lb.  
 therefore 640# @ 0.02 3/4 = \$18.425 or  
 $\frac{18.425}{711 \text{ ft. long}} = 0.02 1/2 \text{ cts a ft. or } 0.02 \text{ cts per ft.}$

Valves & hydrants

1- 4" Valve Cost \$9.35  
 laying same. 1.21  
 \$10.56

hydrant Cost \$33.00  
 laying cartage etc. 17.00 with branch pipe.  
 \$50.00

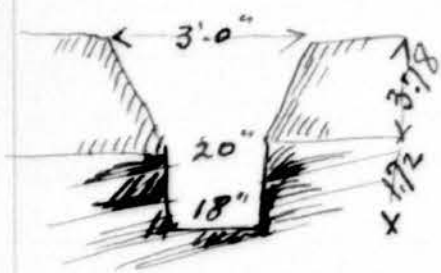
values 10.56  
 2 hydrants 100.00  
 110.56 / 711 ft = 0.155 cts per ft. of pipe

Therefore - Recapitulation.

0.338 c.yd. of earth trenching - @ 0.20	0.0676	profit
0.131 " " " rock " " @ 2.25	0.29475	
1 ft. of pipe & Casing @ 0.315	0.3150	
1 ft. 5 Specials per ft. of pipe 0.0256	0.0256	
Valves & hydrants per ft. of pipe. 0.166	0.166	
Laying	0.02757	
Lead Jam Full.	0.007	
Lead Jam Full.	0.03257	
Back filling	0.05	
Superintendence & time keeping etc.	0.002	
General office expenses, Contingencies,	0.016	
use of tools etc. <del>expense</del> say 5%	0.9888	
	0.0495	
	<u>1.0495</u>	(1.0424)
Say \$1.04 per ft. with Valves by		
Plus 10% Contingencies 10		
Profit - Bracing 1.15		

Laval Ave.  
 Corporation & Co. - trenching only.  
 average depth of earth. 3.75 ft.  
 " " " rock = 1.72 ft.  
5.50 ft.

2" pipe



Earth	3.66	
	<u>4.66</u>	
	$2.33 \times 3.78 = 8.807$	$= 0.326$ c.yd.
Rock	1.66	
	<u>1.50</u>	
	$3.16$	
	$1.58 \times 1.72 = 2.7176$	$= 0.0688$ c.yd.
	$1.50 \times 1.72 = 2.7176$	$= 0.1006$ c.yd.

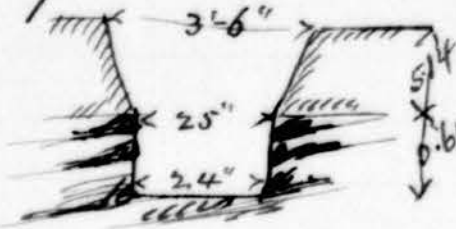
Therefore

0.326 c.yd. earth per ft. @ 0.20	0.0652	v. 0.0652
0.0688 " " " rock " " @ 2.25	0.1548	= 0.2263
0.1006	0.2200	0.2915
3/4" sup. time keeping etc.	0.01	
Bracing	0.23	0.30
	0.24	0.31
	0.05	0.36
	<u>0.29</u>	

Back fillings

City Hall Ave. (from Mount Royal to Boulevard)

1532 ft.  
 Incorporation work. Co. laying pipe.  
 Average depth earth = 5.14 ft.  
 " " " rock = 0.61 ft.  
 6" pipe = 5.75 ft.



earth  $\frac{3.5}{2.08} = 1.68$   
 $2.79 \times 5.14 = 14.3406 = 0.531$  cft  
 Rock = 2.08  
 $\frac{2}{4.08} = 0.49$   
 $2.04 \times 0.61 = 1.2444 = 0.046$  cft

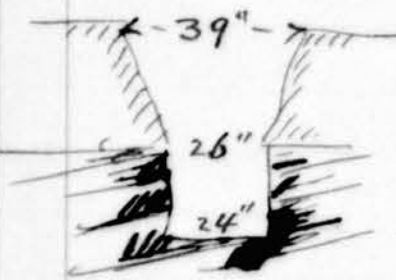
Therefore.

0.531 C. yd. earth per ft @ 0.20 \$ 0.1062 ✓  
 0.046 " " rock " " @ 2.25 0.1035 ✓  
 Say \$ 0.211  
 0.2097

Suppl. him keeps etc 0.211  
 0.231  
 0.235  
 0.0117  
 0.2467  
 0.25  
 0.30 ✓

City Hall from Boulevard to St. Louis  
 = 452 ft. laid by Bastien Valiquette  
 Average depth of earth = 3.83 ft.

6" pipe " " " rock = 1.92 ft.  
 5'-7 1/2"



earth  $\frac{3.25}{2.06} = 1.58$   
 $2.705 \times 3.83 = 10.36 = 0.383$  cft  
 Rock 2.16  
 $\frac{2}{4.16} = 0.48$   
 $2.08 \times 1.92 = 3.9936 = 0.147$  cft

Therefore.

0.383 C. yd. earth per ft @ 0.20 \$ 0.0766 ✓  
 0.147 " " rock " " @ 2.25 0.3307 ✓  
 trenching Say = 0.441 per ft. 0.4073

Specials.

- 2-6" sleeves 170 #
- 10 cross 6" x 6" x 6" 295 #
- 1T. 16" x 16" x 6" = 1005 #
- 1T. 6" x 6" x 4" = 185 #
- 1-6" plug. = 20 #
- 1675 #
- 2/3 deduction = 70 #
- 1725 #

1725 # @ \$ 0.02  $\frac{3}{4}$  = 47.4375 ✓  
 47.4375 = 0.092 cts per ft. of pipe ✓  
 512

Valves & Hydrants

2-6" Valves Cost @ \$15.40 = \$30.80  
 Laying same with Cast Iron @ \$3.20  
 34.00, for both

Hydrants

1-2 Nozzle hydrant cost perica. \$33.00 ✓  
 Cast iron 400# @ 1" per ton. 0.20 ✓  
 Laying hydrant 3.00 ✓  
 18 ft. trenching @ 0.38 6.84 ✓  
 17 ft. of 4" branch laid & capped @ 0.44 7.48 ✓  
 Backfilling @ 0.05 0.90 ✓  
 General office expenses sup. 51.42  
 Contingencies use of tools etc @ 5% \$ 2.57  
 Day 54.00 53.99



Values \$34.00  
 Hydrant 54.00  
 88.00  
 $\frac{88.00}{512} = 0.1718 \text{ cts per ft. } \checkmark$

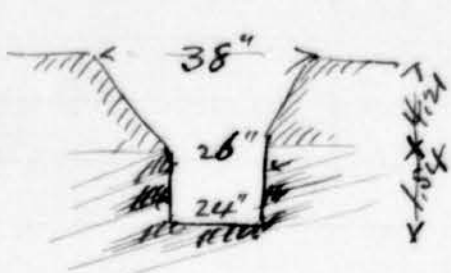
Recapitulation

Trenching \$0.41 cts per ft. ✓  
 Specials per ft. 0.092 " " " ✓  
 Valves & Hydrants & laying 0.1718 " " " ✓  
 Value base laid 0.009 " " " ✓  
 Connection with existing pipe at St. Louis 0.0195 " " " ✓  
 Pipe, laying lead yarn fuel  
 Backfilling Cast iron  
 Supt & time Requiry 0.441 " " " ✓  
 use of tools general office expenses sup. 0.0571  
 10% for Contractor profit 1.2004  
 Lay \$1.30 = 1.32  
 Bracing cost 0.01  
1.33

wrote say  
 at least 10.00  
 $\frac{10}{512}$

0.441  
 1.1433  
 0.0571  
 1.2004  
 0.1200  
 1.3204

George Hypolite St. 6" pipe  
 Average depth of earth = 4.21 ft.  
 " " " " rock = 1.54 ft.



5'-7 1/2"  
 Earth =  $\frac{3.16}{2.16} = 1.46$   
 $\frac{1.46}{2.66} \times 4.21 = 2.32$  c.ft.  
 Rock =  $\frac{2.16}{2.16} = 1.00$  c.ft.  
 $2.32 \times 4.21 = 9.76$  c.ft. e.d.  
 $1.00 \times 1.54 = 1.54$  c.ft. e.d.  
 $9.76 + 1.54 = 11.30$  c.ft. e.d.

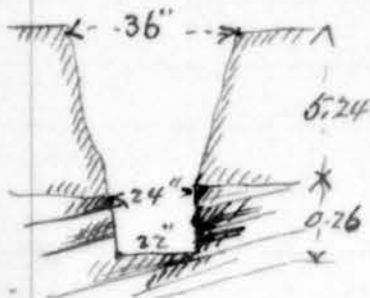
0.414 c-yd. earth per ft. @ 0.20 \$0.0828 ✓  
 0.118 " " rock " " @ 2.25 0.2655 ✓  
 \$0.3483 ✓

Say 0.35 cts a ft. =

Suppl. time Keeping etc. 0.04  
~~Bracing~~ 0.361  
 use of tools, general office expenses etc 5% 0.37  
 0.3785 ✓  
 0.0185 ✓  
 0.3885  
 Say 0.39  
 Backfilling 0.05  
 0.44 ✓

Cadieux St. - 4" pipe.

Length = 1200'-0"  
 Average depth of earth = 5.24 ft.  
 " " " " rock = 0.26 ft.  
 5.50 ft



Earth  $\frac{3}{2.5} \times 5.24 = 6.30$  c.ft. = 0.485 c-yd. per ft.  
 Rock  $\frac{2.83}{1.915} \times 0.26 = 0.38$  c.ft. = 0.0184 c-yd. per ft.

Therefore.

0.485 c-yd. earth c.c. per ft. @ 0.20 \$0.097 per ft. ✓  
 0.0184 " " rock " " @ 2.25 0.04 ✓  
 0.137

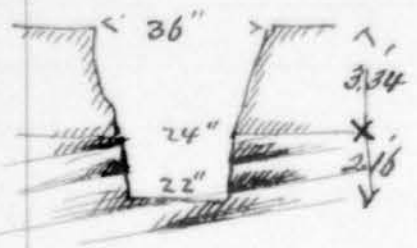
Say \$0.14 per ft.

~~Suppl. time~~ 0.008  
 Keeping night watchmen etc 0.1658  
 Bracing 0.01  
 0.1746

General office expenses, use of tools etc 5% 0.0079  
 0.1659 Say 0.16 1/2 ✓  
 Backfilling 0.05  
 0.2159  
 Say 0.22 ✓

St. Dominique St. (from Mount Royal to Boulevard  
& St. Louis to St. Eugene) - 2130'-0"

4" pipe. average depth earth = 3.34 ft.  
" " " " rock = 2.16 ft.  
5.50



Earth.  $\frac{3}{2} \times \frac{2.5}{2.5} \times 3.34 = 8.35 = 10.309 \text{ c. yd.}$

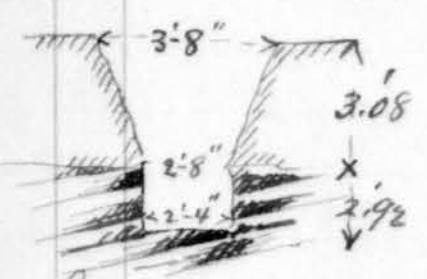
Rock.  $\frac{2.83}{1.83} \times 2.16 = 4.136 = 10.153 \text{ c. yd.}$

Therefore

0.309 c. yd. for ft. of earth @ 0.20	\$ 0.0618 ✓
0.153 c. yd. of rock per ft. of trench @ 2.25	0.3442 ✓
	<u>\$ 0.4060</u>
Supt. time Keeping, etc.	0.008 ✓
<del>use of tools for general office</del> Bracing	0.414 ✓
<del>use of Tools, general office expenses, contingencies</del> Backfilling	0.01 ✓
etc - 5%	0.424 ✓
Say 0.50 ✓	<u>0.828</u>
	0.497 ✓

St. Lawrence St. - from Mount Royal to sp.  
Charbonneau P.

10" pipe.  
Total length = 4292'-0"  
average depth of earth = 3.08 ft.  
" " " " rock = 2.92 ft.  
6'-0" 0 ft.



Earth.  $\frac{3.66}{2.66} \times \frac{2.66}{3.16} \times 3.08 = 9.7328 = 0.36 \text{ c. yd.}$

Rock.  $\frac{2.66}{2.33} \times \frac{2.33}{2.445} \times 2.92 = 7.285 = 0.269 \text{ c. yd.}$

Therefore

0.36 c. yd. earth excavation @ 0.20	\$ 0.072 ✓
0.269 c. yd. rock " @ 2.25	0.605 ✓
	<u>0.677</u>
Supt. time Keeping etc.	0.0125 ✓
Bracing	0.01 ✓
General office expenses, use of tools etc 5%	0.6995 ✓
Backfilling	0.0344 ✓
Say \$0.75 ✓	<u>0.8344</u>
	0.7869 ✓



Rue St. Laurent. from opposite Charbonneau's  
to Bernard.

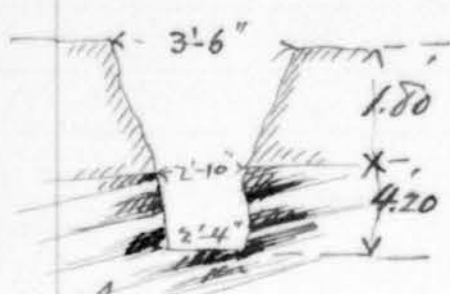
Length = 542'-0"

10" pipe.

Average depth earth. = 1.80 ft

" " rock. = 4.20 "

6.00 "



Earth  $\frac{3.5}{1.80} \times 1.80 = 5.697$  c.ft.  $\frac{0.70}{1} = 0.2111$

Rock  $\frac{2.83}{2.33} \times 4.20 = 10.836$  c.ft.  $\frac{0.70}{1} = 0.401$

Therefore.

0.2111 yd. of earth excavation @ 0.20 = \$0.0422 ✓

0.401 " " rock " @ 2.25 = \$0.90225 ✓

\$0.94445

Specials.

1 Branch 10" x 10" x 4' 460 #

1 " 10" x 10" x 6' 490 #

1-10" plug. @ 50 #

3% deviation  $\frac{1000}{20} = 1030$  #

1030 # @ 0.027 laid = \$28.325 ✓

$\frac{28.325}{542} = 0.0522$  c.ft. per ft ✓

Valves & Hydrants

1-10" Valve Cost \$33.00

Cartage - 0.20

2 lead joints - 1.86

cutting 1 length of pipe = 0.30

Making 2 joints - 0.35

Suppt. hand keeping etc - 0.20

~~35.40~~ 1 Valve box laid 5.00

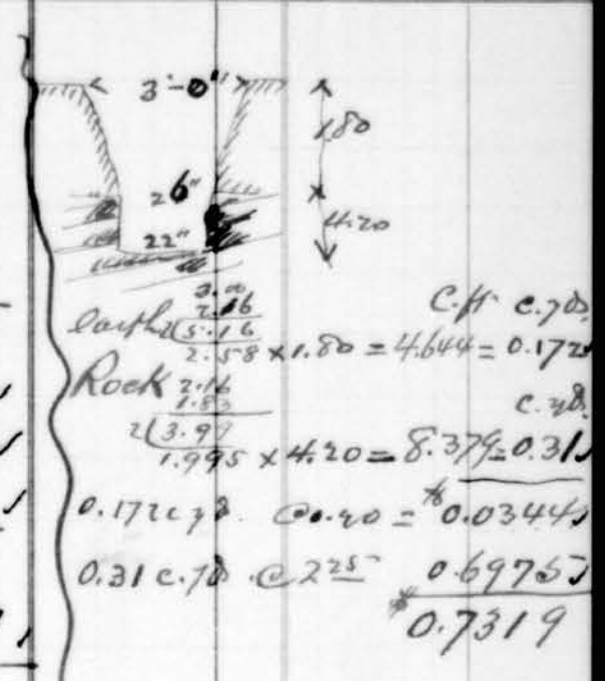
Say  $\frac{40.90}{542} = 0.0754$  per ft ✓

Laying 10" Valves  
Cartage 384 # @ 1.00 per ton = 0.192  
Say 0.20

~~\$35.90~~

Hydrants.

1 hydrant Cost \$33.00  
 Cartage laying, ~~drainage~~ drainage  
 pit. Cutting pipe. Lead joint  
 fuel. 4.35  
 21 ft. of trenching @ 0.73 = 15.33 ✓  
 21 ft. of backfilling @ 0.05 = 1.05 ✓  
 30 ft. of 4" branch pipe @ 0.26 = 7.80 ✓  
 Use of tools, general office expenses  
 Contingence etc. 5% \$3.07 ✓  
 Hydrant \$64.60  
 54 2'-0" = \$0.119 per ft. ✓



Recapitulation.

Trenching \$0.9444 ✓  
 Pipe, comprising laying, lead  
 joint, fuel, backfilling  
 Cartage 1.172 ✓  
 Supt. & time keeping - 2.1104 ✓  
 Use of tools, general 0.025 ✓  
 Office expenses Contingence etc 5% 2.1414 ✓  
 Specials profit 0.1070 ✓  
 Valves & valve boxes 2.2484 ✓  
 Hydrants 0.0522 ✓  
 Connection with existing pipe 0.0754 ✓  
 Pricing - 0.1190 ✓  
 Contractors profit 0.009 ✓  
 Say 10% \$2.5047 ✓  
 2.5148 ✓  
 0.2514 ✓  
 \$2.7654 ✓

pipe 65 ft plus 8%  
 plus 75 cts at 2850  
 75 cts when = 0.0146  
 Laying @ 0.0146 = 0.9774 ✓  
 Lead joint fuel 0.065 ✓  
 Back filling 0.08 ✓  
 1.1724 ✓

Clarke St. from Mount Royal to ~~west of~~ Bernard.

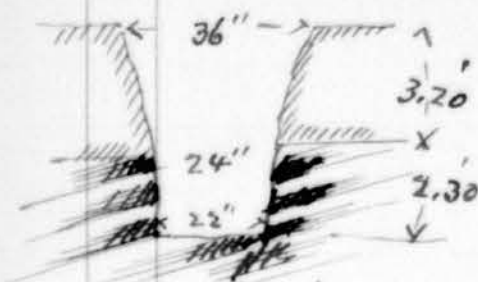
4" pipe

Total length = **5003' 0"**

Average depth earth = 3.20 ft

" " rock = 2.30 ft

**5.50 ft.**



Earth.  $\frac{3}{2} \times \frac{2.5}{2.5} \times 3.2 = 8.00$  cu yd. = 0.296 ✓

Rock.  $\frac{2.83}{1.915} \times 2.30 = 4.4045$  cu yd. = 0.163 ✓

Therefore.

0.296 C. yd. of earth excavation per ft. of trench @ 0.20 = \$0.0592 ✓

0.163 " " " " " " " " @ 2.25 = \$0.3667 ✓

Total =

**\$0.4259**

Specials -

- 9 Branches 4"x4"x4" @ 125# = 1125#
- 2 crosses 6"x6"x4"x4" @ 215# = 430#
- 1 cross 4"x4"x4"x4" @ 175# = 175#
- 1 Branch 16"x16"x4" @ 900# = 900#
- 1 cross 12"x12"x4"x4" @ = 590#
- 1- 16" sleeve @ 350#
- 3- 6" plugs @ 20# = 60#
- 4- 4" " @ 10# = 40#
- 2- 12" " @ 55# = 110#

Plus 3% deviation -  $\frac{3780}{3893}$

3893 @ 0.027 for lbs. = \$104.05 ✓

$\frac{104.05}{5003} = \underline{\underline{\$0.021}}$  per ft. ✓

Valves & Hydrants -

Valves -

9- 4" Valves - cost 9.35 each = \$84.15 ✓

Laying 9 valves (no sup. laid) @ 1.10 = 9.90 ✓

9 Valve boxes laid @ 5.00 = 45.00 ✓

Total = **\$139.05**

Hydrants.

9-2 nozzle hydrants cost each \$33.00 = \$297.00 ✓  
 3 of these hydrants are on the St.  
 where it only has 50'-0" wide & 6 where  
 it is 60 ft. therefore total length of trenches  
 = 3 x 17' = 51'  
 = 6 x 20 = 120  
 171'-0" total length of trench

trenching the same as for the main cut  
 or 171'-0" @ 0.43 =

73.53 ✓

~~Cutting, laying, draining pits & filling  
 lead yarn & fuel.~~

Cartage 9 hydrants @ 0.20  
 3 x 16 = 48  
 6 x 14 = 84  
 132' of pipe laid, Com-

1.80 ✓

prising lead yarn & fuel & backfilling 300  
 Laying 9 hydrants @ 3.00

71.28 ✓

27.00 ✓

9 Drainage pits trenching & filling  
 with gravel. @ 0.50

4.50 ✓

9 Cutting pipes - @ 0.20  
 Lead yarn & fuel for hydrant  
 joints - 0.70 each & for 9

1.80 ✓

6.30 ✓

\$483.21 ✓

Hydrant 483.21  
 Valves - 139.05  
\$622.26

$\frac{622.26}{5003 \text{ ft}} = \underline{\underline{\$0.124 \text{ per ft.}}}$  ✓

Recapitulation.

Trenching  
 Pipe comprising laying lead yarn  
 & fuel & Cartage.

\$0.4259 ✓

Supt. time keeping etc.

0.375

1.0761

Backfilling

0.016

10% Com  
 1.076

Specials per ft.

0.05

\$1.1837

Valves & hydrants & Valve bags.

0.021

4 Connection  $\frac{415}{5000}$  with existing pipes.

0.124

0.003

Pracing -  
 use of tools general office expenses Cartage -  
 general etc say \$470

0.01

1.0249

0.0512

1.0761

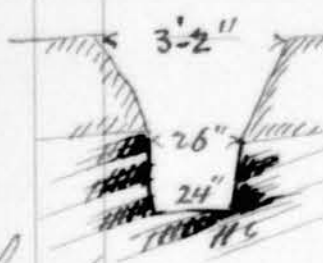
St. Urbain St. from Mount Royal to Remand

Length = 4832 feet

Average depth of earth = 2.96 ft.

" " " rock = 2.79 "

b/



Earth  $\frac{3.16}{2.16} = \frac{3.32}{2.66}$

Rock  $\frac{2.16}{2} = \frac{4.16}{2.08}$

$2.66 \times 2.96 = 7.8736 = 0.291 \text{ c. yd.}$

$2.08 \times 2.79 = 5.8032 = 0.214 \text{ c. yd.}$

Therefore

0.291 c. yds. of earth excavation @ 0.20 = 0.0582 ✓

0.214 " " rock " @ \$2.26 = 0.4815 ✓

\$0.5397

Specials.

1 Branch 12" x 12" x 6"	@ 530#	= 530#
9 " 6" x 6" x 4"	@ 185#	= 1665
1 Cross 16" x 16" x 6" x 6"	@	1005
1 Branch 6" x 6" x 6"	@	195
1 Cross 12" x 12" x 6" x 6"	@	620
2 " 6" x 6" x 6" x 6"	@ 295 =	590
1-12" sleeve		195
1-16" sleeve		350
5-6" plugs.	@ 20#	100
2-12" "	@ 55	110
		<u>5360</u>
3% deviation.		160 #
		<u>5520</u>

$5520 \# @ 0.02 \frac{3}{4} = \$157.80$   
 $\frac{\$157.80}{4832'} = \underline{\underline{\$0.0314 \text{ per ft.}}}$

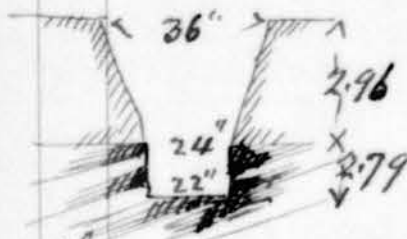
Valves & Hydrants =

12-6" valves	Cost each \$15.40 each =	184.80 ✓
Cartage each weighing 180# x 12 = 2160#	@ 1/2 per ton =	1.00 ✓
Laying 12 valves 6" each = (see Sup. limits) 1.45 =		17.40 ✓
12 Valve boxes laid	@ 5.00 =	60.00
Valves	<u>        </u>	<u>\$263.20</u>

Hydrants.

9 hydrants @ 33.00 = \$297.00 ✓  
 3 of these hydrants are on the portion of St.  
 80 ft. wide & 6 - when it is 66 ft.

Therefore.  
 $3 \times 27' = 81 \text{ ft.}$   
 $6 \times 22' = 132 \text{ ft.}$   
 $213 = \text{total length of trench}$



earth  $\frac{3}{2.5} \times 2.96 = 7.4 \text{ c.ft.} = 0.274 \text{ c.yds.}$   
 Rock  $\frac{1.83}{1.915} \times 2.99 = 5.34 \text{ c.ft.} = 0.197 \text{ c.yds.}$

Therefore.  
 $0.274 \text{ c.ft.} \times 0.20 = 0.0548 \text{ ✓}$   
 $0.197 \text{ c.ft.} \times 2.25 = 0.4432 \text{ ✓}$   
 $0.4980 \text{ ✓}$

213'-0" of trench	@ 0.498 =	\$106.07 ✓
Cost of 9 hydrants	@ 0.20	1.80 ✓
$3 \times 26 = 78'$		
$6 \times 21 = 126'$		
$\frac{126}{204}$ fr. of pipe (branch)		
204 fr. of branch pipe comprising		
lead jam full & backfilling @ 0.44		89.76 ✓
9 Drainage pits trenching & filling		
with gravel - @ 0.50		4.50 ✓
9 Cuttings of pipe @ 0.20		1.80 ✓
Lead jam & full for hydrant		
joint - @ 0.70		6.30 ✓
9 hydrants laid @ 33.00		297.00 ✓
		<hr/> 534.23 ✓

Hydrants \$534.23 ✓  
 Valves.  $\frac{263.20}{4832} \text{ ✓}$   
 $\frac{797.43}{4832} = \$0.165 \text{ per ft.}$

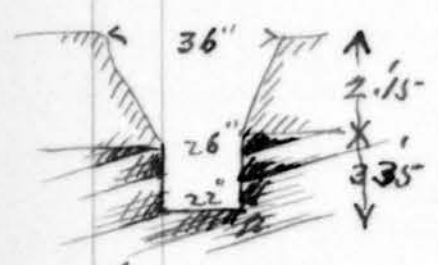
6 pipe 33  
 #30 0.34  
 #28 0.29  
 #27 0.25  
 #26 0.21  
 #25 0.17  
 #24 0.13  
 #23 0.09  
 #22 0.05  
 #21 0.01  
 #20 0.01  
 #19 0.01  
 #18 0.01  
 #17 0.01  
 #16 0.01  
 #15 0.01  
 #14 0.01  
 #13 0.01  
 #12 0.01  
 #11 0.01  
 #10 0.01  
 #9 0.01  
 #8 0.01  
 #7 0.01  
 #6 0.01  
 #5 0.01  
 #4 0.01  
 #3 0.01  
 #2 0.01  
 #1 0.01

Recapitulation.

Trenching per ft.	\$0.5394
Pipe, Comprising laying lead jam & fuel & Casing - @	0.576
Supt. time keeping etc.	0.02
Backfilling -	0.05
Specials per ft.	0.0314
Valves & hydrants & valve boxes.	0.165
Connection with existing pipe $\frac{15}{4832}$	0.0031
Bracing -	0.81
General office expenses used of tools contingencies etc 5%	1.3952
	0.0697
	<u>1.4649</u>
say 1.465	
10% Contingency profit <u>146</u>	
	<u>\$1.611</u>

Waverly St. (from Fairmount to Bernard.)

4" pipe 2376' long.  
 Average depth of earth = 2.15 ft.  
 " " " rock = 3.35 ft.



Earth $\frac{2.16}{2.58} \times 2.15 = 5.547 =$	0.205 c. yds.
Rock $\frac{2.16}{1.995} \times 3.35 = 6.683 =$	10.247 c. yds.

Therefore

0.205 Cyd. of earth @ \$0.20	\$0.041
0.247 " " " rock " @ \$2.25	0.555
	<u>\$0.596</u>

Specials.

1 - Cross 6" x 6" x 4" x 4" @	215#
1 " 12" x 12" x 4" x 4" @	590#
5 Branches 4" x 4" x 4" @ 125#	625
1 - 6" sleeve @	85
2 - 12" plugs @ 55#	110
plus 3% derivation.	<u>1625#</u>
	<u>48#</u>
	<u>1673#</u>

$1673^{\#} @ 0.02\frac{3}{4} = \$46.00$  ✓  
 $\frac{\$46.00}{2276} = 0.0202 \text{ per ft.}$  ✓

Valves & hydrants.

Valves.

6-4" Valves cost 9.35 each = \$56.10 ✓  
 Cartage 6 valves @ 80¢ = 480¢ @ 1.00 per ton = 0.24 ✓  
 Laying 6-4" Valves @ 1.10 = 6.60 ✓  
 6 Valve boxes @ 5.00 = 30.00 ✓  
 Valves. \$92.94 ✓

Hydrants.

5 hydrants cost \$33.00 \$165.00 ✓  
 16' trench x 5 80 ft. @ 0.596 47.68 ✓  
 Same price per ft. as main pipe  
 Cartage 5 hydrants 400# x 5 = 2000# 1.00 ✓  
 75 ft. of branch pipe including  
 lead jam & fuel & backfilling @ 0.44 33.00 ✓  
 5 Drainage pits trenching & filling  
 with gravel @ 0.50 2.50 ✓  
 5 Cuttings of pipe @ 0.20 1.00 ✓  
 Lead jam & fuel for 5 hydrant  
 joints @ 0.70 3.50 ✓  
 5 hydrants laid @ 3.00 15.00 ✓  
 Hydrants. \$268.68 ✓

Hydrants 268.68  
 Valves - 92.94  
 361.62 ✓

$\frac{361.62}{2276} = 0.1588 \text{ per ft.}$  ✓

Recapitulation





Recapitulation.

Trenching per ft.	\$0.596
Pipe, Comprising laying, lead jam, fuel & Cartage — c	0.375
Supst. time keeping, etc c	0.016
Backfilling c	0.050
Specials per ft.	0.0202
Valves hydraulic, & valve box —	0.1588
Connection with existing pipes	
2. Say $\frac{\$3}{2276} =$	0.0010
Bracing.	0.01
	<hr/>
	\$1.228
General office expenses used & tools	?
Contingencies etc. 5%	0.061
	<hr/>
	1.289
Contractor profit 10%	128
	<hr/>
	1.417
	<hr/>
	Say <u>1.42</u> ✓

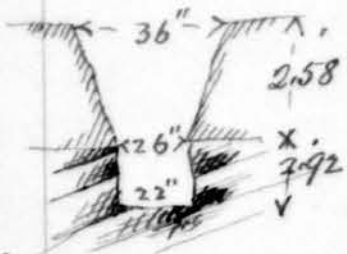
St. George St. (from Fairmount to Bernard St.) — B.V.

Total length = 2339'-6"

Average depth earth = 2.58 ft.

" " rock = 2.92 ft.

4" pipe



earth  $\frac{3}{2.16} \times 2.58 = 6.6564 = 0.246 \text{ c. ft. } \frac{\text{c. ft.}}{\text{yd. pipe}}$

rock  $\frac{2.16}{1.82} \times 2.92 = 5.8254 = 0.215 \text{ c. ft. } \frac{\text{c. ft.}}{\text{ft.}}$

Therefore.

0.246 c. ft. of earth excavation @ 0.20	\$0.0492
0.215 " " " rock " @ 2.25	0.4837
	<hr/>
	\$0.5329

Specials.

5 Branches 4" x 4" x 4" @ 125#	626#
1 Cross 6" x 6" x 4" x 4" @	215-
1 - 12" x 12" x 4" x 4" @	590
2 - 4" plugs @ 10#	20
2 - 12" " @ 55#	110
	<hr/> 1560
3% deviation -	46
	<hr/> 1606#

1606# @ 0.02  $\frac{3}{4}$  per lb = total = \$44.16

$\frac{44.16}{2339\frac{1}{2}} =$

\$0.0188 Clb per lb. of pipe

Valves & Hydrants.

Valves.

6 - 4" Valves cost each \$9.35 =	\$56.10 ✓
Cartage 6 valves @ 80# = 480# @ 1 <sup>00</sup> per ton	0.24 ✓
Laying 6 - 4" valves @ 1.10	6.60 ✓
6 Valve boxes laid @ 5 <sup>00</sup>	30.00 ✓
Total for valves =	<hr/> \$92.94

Hydrants.

5 hydrants cost \$33 <sup>00</sup>	\$165.00
16 ft. knock x 5 = 80 ft. at main rate	
at main branch @ 0.5329	42.63 ✓
Cartage 5 hydrants 400# @ 5 = 2000# @ 1 <sup>00</sup>	1.00 ✓
75 ft of branch pipe, compensating lead	
Yarn & fuel & back filling @ 0.44	33.00 ✓
5 Drainage pits, trenching & refilling	
with gravel @ 0.50	2.50
5 Cuttings of pipe @ 0.20	1.00
Lead yarn & fuel for 5 hydrant	
joints @ 0.70	3.50
5 hydrants laid compensating suph @ 3 <sup>00</sup>	15.00
Total for hydrants =	<hr/> \$263.63 ✓

hydrants = 263.63

Valves = 92.94 ✓

$\frac{356.57}{2339\frac{1}{2}} = \underline{\underline{\$0.1524}}$  ✓

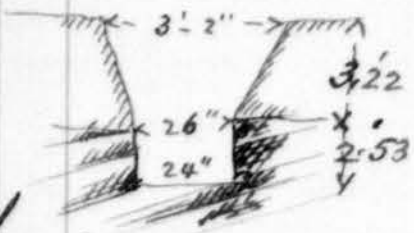
Recapitulation.

Trenching per ft.	@	\$0.5329 ✓
Pipe, Compensating laying, lead, jam & fuel, also cartage	@	0.3750 ✓
Supt. time keeping etc	@	0.0160 ✓
Backfilling.	@	0.0500 ✓
Specials per ft.	@	0.0188 ✓
Valves, hydraulic & valve boxes	@	0.1524 ✓
4 Connections with existing pipes	@	0.0042 ✓
$\frac{4 \times 10}{2339 \frac{1}{2}} =$		0.01
Bracing -		\$1.1493
General office expenses used for work		✓
Contingencies etc. - 5%		0.0574
Contingencies for profit 10%		1.2067
Cost		<u>1.3273 ✓</u>

Mance St. (from Fairmount to Bernard).

6" pipe

Length = 2327' - 0"  
 Average depth of earth = 3.22 ft.  
 " " " rock = 2.53 ft.  
 5.75 ft.



earth  $\frac{3.22 \times 2.16}{2} = 3.532$   
 $2.66 \times 3.22 = 8.5652 = 0.317 \text{ C. yd.}$   
 Rock  $\frac{2.16 \times 2.53}{2} = 2.7414$   
 $2.08 \times 2.53 = 5.2624 = 0.1949 \text{ C. yd.}$

Therefore.

0.317 C. yds. earth excavation	@ 20	\$0.0634 ✓
0.1949 " rock	@ 225	0.4385 ✓
Total =		\$0.5019

Specials

5 Branches 6x6x4" @ 185#	925#
1 " 6x6x6" @	195
1 Cross 12"x12"x6x6" @	620
2- 6" flugs - @ 20#	40
2- 12" " @ 55#	110
	<hr/>
	1890#
3% deviation -	56
	<hr/>
	1946#


1946# @ \$ 0.02  $\frac{3}{4}$  = \$ 53.515  
 + \$ 53.515 - 2# 0.0229 per ft. of pipe =  
 2327'

Valves & Hydrants -

Valves

4- 6" Valves. Cast iron @ 15.40	\$ 61.60
Castage each weighing 180# = 720# @ 1.00 per ft.	0.36
Laying 4 valves, no sup. no time keeping etc.	\$ 5.80
4 valve box lead @ 5.00	20.00
Total for valves =	<u>\$ 87.76</u>

Hydrants

5 hydrants Cost 33	\$ 165.00
2 top trenches x 5 = 100 ft. of trench @ 0.462	46.20
 earth $2 \frac{3}{4} \times 3.22 = 8.05 = 0.298$ C. yds.	
Rock $2 \frac{1}{2} \times 1.53 = 3.83$ $1.915 \times 2.53 = 4.844 = 0.179$ C. yds.	

Therefore

0.298 C. yd. earth @ 0.20	\$ 0.0596
0.179 " rocks " @ 2.25	0.4027
Castage hydrant 2000# @ 1.00 per ft.	0.4623
of 2000#	\$ 1.00

5 branches 19' long 95.0' of branch pipe  
 compensating lead, yarn & fuel  
 back filling - @ 2.44 41.80  
 by hydrant Carried over \$ 254.00

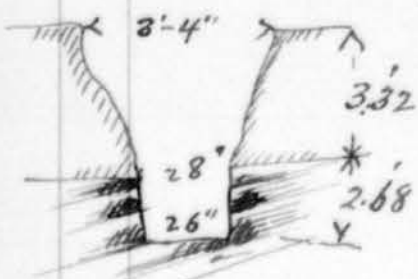
Bracing at forward.		\$254.00
5 Drainage pits trenching & filling with gravel @ 0.50		2.50
5 Cuttings of pipe @ 0.20		1.00
Lead, jam & fuel for hydraulic jigs - 5 @ 0.70		3.50
5 Hydraulic lead Compensating Supt. etc @ 3.00		15.00
		<hr/>
		\$276.00

Values. \$67.76  
 Hydraulics. 276.00  
 \$343.76  
 $\frac{343.76}{2327} = 0.14763$  per ft. of pipe

Recapitulation.

Trenching per ft. @	\$0.5019 ✓
Pipe Compensating laying, lead, jam, fuel & Cartage @	0.5760
Supt. time keeping, etc @	0.0200
Back filling	0.0500
Specials per ft. @	0.0229 ✓
Valves, hydraulics & valves etc @	0.1563 ✓
3 Connections $\frac{.48}{2327} =$	0.0034
Bracing.	0.0100
General office expenses, use of tools, Contingencies etc - say 5%	\$1.3400
Contractors profit 10%	0.067
Say <u>1.407</u>	\$1.407
	<hr/>
	1.547 ✓

8" pipe  
 Park Ave from Mount Royal to 400' northwards  
 Length = 400'-0" done by Corporation.  
 average depth of earth = 3.32 ft  
 " " " " rock = 2.68 "



earth =  $\frac{3.33}{2.33} \times \frac{2(5.66)}{2.85} \times 3.32 = 9.3956 = 0.3479 \checkmark$  C.ft C.yd

Rock =  $\frac{2.33}{2.16} \times \frac{2(4.49)}{2.245} \times 2.68 = 6.0166 = 0.2228 \checkmark$  C.ft C.yd

Therefore.

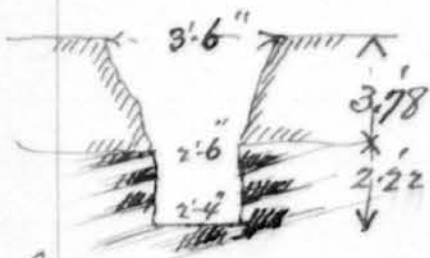
0.3479 C.yd of earth excavation @ 0.20 = 0.069581

0.2228 " " " rock " @ 2.25 = 0.50130

Bracing  
 Path filling  
 Suph. base Keppin, use of rods etc 5% = 0.02154

Bracing = ~~0.01~~  
 Total = \$ 0.66 ✓

10" pipe  
 Park Ave. from 400' north of Mount Royal to St. Louis St.) Work done by Bastien & Valiquette.  
 Length 1545'-0"  
 average depth of earth = 3.78 ft  
 " " " " rock 2.22 "



earth =  $\frac{3.5}{2.5} \times \frac{2(6.00)}{3.00} \times 3.78 = 11.34 = 0.42 \checkmark$  C.ft C.yd

rock =  $\frac{2.5}{2.33} \times \frac{2(4.82)}{2.415} \times 2.22 = 5.3613 = 0.198 \checkmark$  C.ft C.yd

Therefore

0.42 C.yd. of earth excavation @ 0.20 = \$ 0.084 ✓

0.198 " " " rock @ 2.25 = \$ 0.445 ✓

trenching = \$ 0.529 ✓

Specials.

1 Reducer 10" to 8" @	190 #
6 Branches 10" x 10" x 4" @ 460 #	2760 #
1 Cross 10" x 10" x 6" x 6" @	590 #
	<u>3540 #</u>
3% deviation	106 #
	<u>3646 #</u>

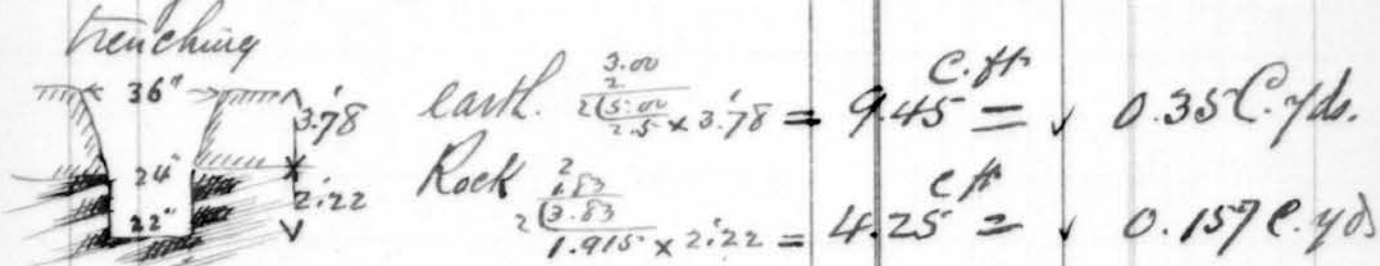
$3646 \text{ #} @ 0.02\frac{3}{4} = \$100.26$   
 $\frac{\$100.26}{1545'} = \underline{\underline{\$0.0648 \text{ per ft.}}}$

Valves & Hydrants -  
Valves.

1-10" Valve Cost	\$33.00
Cartage	0.20
2 Lead joints	1.80
Cutting 1 length pipe	0.30
Making joints	0.35
sup for 1 sh	0.26
	<u>38.91</u>
1 Valve buy land	5
	<u>\$40.91</u>

Hydrants.

4 hydrants @ \$33	\$132.00
-------------------	----------



Therefore

0.35 C. yds. earth excavation @ 0.20 =	\$0.07
0.157 " " rock " @ 2.25 =	0.35
	<u>0.42</u>
4 times 27'-0" = 108' of trenching,	\$45.36
	@ 0.42
4 Drainage pits, excavation & filling with gravel	2.00
	@ 0.50
5 Cuttings of pipe	1.00
	@ 0.20
Carried over	<u>\$180.36</u>

Brought forward.		\$180.36
Lead jam fuel for hydrant joints - 4 joints	@ 0.70	2.80
4 Branches 26' long of 4" pipe Comprising lead jam fuel + 104' back filling	@ 0.44	45.76
4 hydrants lead Comprising Supt. etc.	@ 3.00	12.00
		<hr/>
Hydrants =		\$240.92
Valves.	\$40.91	
Hydrants.	\$240.92	
	<hr/>	281.83
$\frac{281.83}{1545'}$	=	<u>\$0.182</u> per ft.

Recapitulation. -

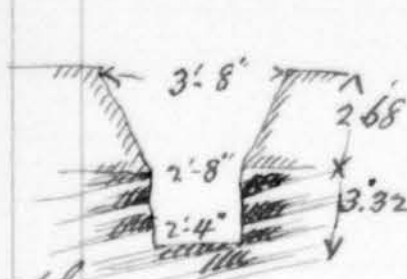
Graveling -		\$0.529 ✓
Pipe Compensing laying, lead jam, fuel & cartage @		1.122 ✓
Supt. time Keeping etc.		0.025 ✓
Back filling		0.05 ✓
Specials per ft.		0.068 ✓
Valves, hydrants & valve boxes -		0.182 ✓
3 Connections $\frac{\$15.00}{1545' = 1.2}$		0.0096 ✓
Bracing		0.01 ✓
		<hr/>
		1.995 ✓
General office expenses, Contingent -		0.099
Less use of tools etc say 5%		<hr/>
		2.094
Contractor profit 10%		209
<u>Total</u>		<hr/>
		\$2303 ✓



10" pipe

Park Ave. - (from St. Louis to 273 South of Bernard)

Work done by Corporation  
 Total length = 2624'-0"  
 Average depth of earth = 2.68 feet  
 " " " rock = 3.32  
 6'00



earth  $\frac{3.66}{2.66} = 1.376$  c.ft. c.yd.  
 $3.16 \times 2.68 = 8.4688 = 0.313$  ✓  
 Rock  $\frac{2.66}{2.33} = 1.141$  c.ft. c.yd.  
 $2.495 \times 3.32 = 8.2834 = 0.306$  ✓

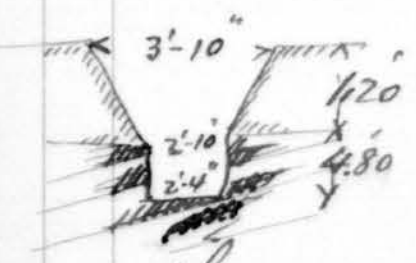
Therefore.

0.313 C-yd. of earth excavation @ 0.20 \$ 0.0626 ✓  
 0.306 " " " rock " @ 2.25 \$ 0.6885 ✓  
 Backfilling \$ 0.7511  
 Supt. time Keeping new flood 0.02  
 Bracing 0.01  
 Say \$ 0.83 ✓

10" pipe

Park Ave. (from 273'-0" south of Bernard to Bernard)

Work done by Bachin & Valiquette  
 Length = 273'-0"  
 Average depth of earth = 1.20 ft  
 " " " rock = 4.80 ft  
 6'00



earth  $\frac{3.83}{2.83} = 1.353$  c.ft. c.yd.  
 $3.33 \times 1.20 = 3.996 = 0.148$  ✓  
 Rock  $\frac{2.83}{2.33} = 1.214$  c.ft. c.yd.  
 $2.58 \times 4.80 = 12.384 = 0.458$  ✓

Therefore.

0.148 C-yd. of earth excavation @ 0.20 \$ 0.0296 ✓  
 0.458 " " " rock " @ 2.25 \$ 1.0305 ✓  
 Trenching = \$ 1.0601 ✓



Specials.

2-10' - 1/8 bends @ 270 #  
 1 Branch 10' x 10' x 4' @ 460  
 730 #  
 3% deviation 22 #  
 752 #  
 $752 \# @ \$0.02\frac{3}{4} = \$20.68$   
 $\frac{\$20.68}{273'} = \underline{\underline{\$0.0757}}$

Valves & hydrants.

Valves.

1-10" Valve Cost

\$33.00

Cartage

0.20

2 Lead joints

1.80

Cutting length of pipe

0.30

Making joints

0.35

Supplies keeping etc.

0.26

35.91

5.00

\$40.91

1 Valve of laid

Valve =

Hydrants.

1 hydrant Cost

\$33.00

trenching



earth  $\frac{3.16}{2.16} = 1.532$

Rock  $\frac{2.16}{1.80} = 1.2$

e. ft. e. yd.  $3.192 = 0.118 \checkmark$

e. ft. e. yd.  $9.576 = 0.354 \checkmark$

Therefore

0.118 c. yds. of earth excavation @ 0.20

\$0.0236 ✓

0.354 . . . of rock " @ 2.25

0.7965 ✓

0.8201

27'-0" of trenching.

\$0.82

\$22.14 ✓

1 Drainage pit, excavation filling, etc.

0.50 ✓

with gravel.

Cutting pipe

0.20 ✓

Lead jam & fuel for hydrant

0.70 ✓

26 ft. of branch pipe, compensating

11.44 ✓

lead jams fuel & backfilling @ 0.44

67.98

Carried over.

Brought forward.  
1 Hydrant laid comprising exp.  
time keeping etc.

\$67.98

3.00

\$70.98 ✓

Hydrant = \$40.91  
Valve = \$70.98  
Hydrant \$111.89  
\$111.89 = \$0.409 ✓  
273'

Recapitulation. -

Trenching.  
Pipe, comprising laying, lead  
jam, fuel & Cartage - e  
Supt. time keeping etc.  
Back filling.  
Specials per ft.  
Valves, hydrants & valves boxes.  
2 Connections  $\frac{45.00}{273}$   
Braeing.

\$106.01

1.1220

0.0250

0.0500

0.0757

0.4090

0.0183

0.0100

\$277.01 ✓

General office expenses, Cont. mgmt  
use of tools etc Say 5%

0.1385 ✓

2.9086

0.2908

3.1994

Contractor profit 10%

Say \$3.20 ✓

Beaudry St. from Mount Royal to northern extremity  
 4" pipe trench ~~440~~ 408'-0"

Average depth of earth	=	2.65 ft	
" " " rock	=	2.85 "	
		5.50 ft	
earth $\frac{3}{2.5} \times 2.65 =$		6.625	e.y.d. ✓
Rock $\frac{2.83}{1.915} \times 2.85 =$		5.457	e.y.d. ✓

Therefore

0.245 c. yds. earth excavation @ 0.20		0.0490
0.202 " " rock " @ 2.25		0.4545
Supt. time keepers		0.0080
Bracing		0.0100
Back filling		0.0500
		<u>\$0.5715</u> ✓

Beaudry St. from the end of this to Hochelaga St. pipe  
 33'-0" of 4" pipe laid by B.V.  
 trenching as above.

Valve

1-4" valve laid	<del>\$15.49</del>	15.49
	<u>\$15.49</u>	
	33'	= 0.469 per ft.
1 valve by hand.		\$5.00
		<u>\$20.49</u>
	33'	= 0.62 per ft. ✓

Recapitulation:

Trenching	@ 0.57	\$0.571 ✓
Pipe Compensing laying, lead jam		
& fuel, also cartage.	@	0.375 ✓
Supt. time keeping etc.	@	0.016 ✓
Backfilling		0.050 ✓
Valve & valve box		0.620 ✓
1 Connection $\frac{1.50}{33'} =$ with existing pipe.		0.045 ✓
Bracing		0.010
General office expenses use of tools		\$1.686
Contingencies etc 5%		0.084
Say \$1.95		<u>1.770</u> ✓

6" pipe.

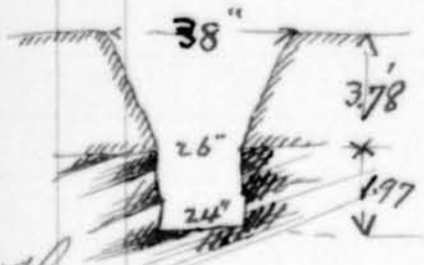
Hutchison St. (from Beaudry to Boulevard)

Total length 1153 ft.

Corporation.

Average depth of earth = 3.78 ft.

" " " rock = 1.97 ft.



earth  $\frac{3.16}{2.66} \times 3.78 = 10.0548 = 0.372 \checkmark$  C.ft C.yds.

Rock  $\frac{2.16}{2.08} \times 1.97 = 4.0976 = 0.151 \checkmark$  C.ft C.yds.

Therefore

0.372 C.yds earth excavation @ 0.20

\$0.0744 ✓

0.151 " " rock " @ 2.25

0.3397 ✓

trenching

\$0.4141 ✓

Specials -

3 Branches 6x6x4" @ 185 #

555 #

1-6" 1/4 bend @ 160 #

160

2-6" plugs - @ 20 #

40

~~655~~ 755  
20 # 22  
675 777

3% deviation

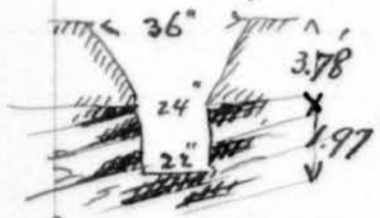
777 ~~675~~ # @ 0.02 3/4 = \$18.56 21.36  
\$18.56 21.36 = \$0.016 per ft. 0.018.

Valves & Hydrants.

0 Valves.

Hydrants -

Trenching. earth  $\frac{3}{2.5} \times 3.78 = 9.45 = 0.35 \checkmark$  C.ft C.yds.



Rock  $\frac{2.53}{1.915} \times 1.97 = 3.77 = 0.139 \checkmark$  C.ft C.yds.

Therefore

0.35 C.yds of earth @ 0.20

\$0.07 ✓

0.139 " " " rock " @ 2.25

0.31 ✓

\$0.38 ✓

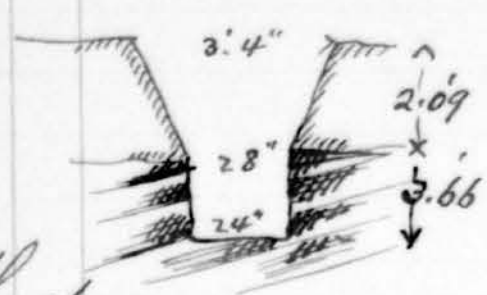
over —

1	Hydrant Cost price		\$ 33.00
22	' of trenching	@ 0.38	8.36 ✓
1	Main age pit, trenching & filling with gravel		0.50
	Cutting pipe		0.20
	Lead jam & fuel for hydrant joint		0.70
21	ft. of hydrant branch Compensating		
	Single lead jam full laying & backfilling branch	@ 0.44	9.24 ✓
1	Hydrant laid Compensating Supt. time keeping etc.		3.00 ✓
			<u>\$ 55.00</u>
	$\frac{\$ 55.00}{1153} =$	$0.0477$	per ft.

Recapitulation.

Trenching		0.4141
Pipe Compensating laying, lead jam, fuel & cartage	@	0.576
Supt. time keeping etc	@	0.020
Backfilling	@	0.050
Specials per ft.	@	0.018
Hydrant	@	0.6477
Bracing -	@	0.010
		<u>\$ 1.1358</u>
General office expenses, use of tools, contingencies etc say 5%		0.0567
		<u>1.1925</u>
Contractor profit say 10%		0.1190
		<u>\$ 1.3115</u>
Say	\$ 1.31	✓

6" pipe Hutchison St. (from Fairmount to Bernard St.)  
 Length = 2367 ft. Boston & Valiquette  
 Average depth of earth = 2.09 ft.  
 " " " " rock = 3.66 ft.  
 5.75 ft.



Earth  $\frac{3.33}{2.23} \times 2.09 = 5.9147 = 0.219 \checkmark$   
 Rock  $\frac{2.33}{2.165} \times 3.66 = 7.9239 = 0.293 \checkmark$

Therefore.

0.219 c. yds. earth excavation - @ 20	4	0.0438 ✓
0.293 " " rock " @ 225	4	0.6592 ✓
<u>Total trenching =</u>		<u>\$ 0.7030 ✓</u>

Specials.

5 Branches 6"x6"x4" @ 185#	925# ✓
1 Cross 6"x6"x6"x6" @ 295#	295 ✓
1 " 12"x12"x6"x6" @	620# ✓
2-6" plug @ 20#	40 ✓
1-4" " @	10 ✓
2-12" " @ 55#	110
	<u>2000#</u>

Plus 3% deviation

60
<u>2060#</u>

$2060# \text{ @ } 0.02\frac{3}{4} = \$56.65$   
 $\frac{\$56.65}{2367'} = \underline{\underline{\$0.0239 \text{ per ft.}}}$  ✓

Valves & Hydrants -

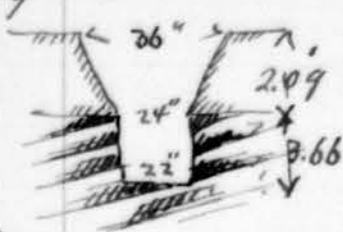
Valves.

4-6" valves cast	15-40	\$61.60 ✓
Cast iron each weigh 180# 720# @ 1/2 per ton.		0.36 ✓
Laying 4-6" valves - not up now		
time keeping etc.	@ 145	5.80 ✓
4 valves by hand laid	@ 500	20.00 ✓
<del>2367</del>		<u>\$ 87.76 ✓</u>

Hydrants.

4 Hydrants Costs  
Trenching

33<sup>00</sup> \$ 132.00



earth  $2 \frac{3}{4} \times 2.09 = 5.225 = 0.193 \text{ C. yds.}$

Rock  $\frac{2.82}{1.83} \times 3.66 = 7.0089 = 0.259 \text{ C. yds.}$

Therefore

0.193 C. yds. earth excavation @ 0.20 \$ 0.0386 ✓

0.259 " " rock @ 2<sup>25</sup> 0.5827

Total trenching = \$ 0.6213 ✓

Spreads

4 x 20' 800' trenching @ 0.62 \$ 49.60 ✓

4 Drainage pits trenching & filling with gravel @ 0.50 2.00 ✓

4 Cuttings of pipe @ 0.20 0.80 ✓

Lead jam & fuel for 4 hydrants  
4 joints @ 0.70 2.80 ✓

4 Hydrants laid comprising  
cupt. etc. for 4 @ 3<sup>00</sup> 12.00 ✓

19' x 4' = 76' long of branch pipe  
Comprising lead jam, fuel &  
backfilling @ 0.44 33.44 ✓

Valves \$ 87.76 ✓

Hydrants 232.64 ✓

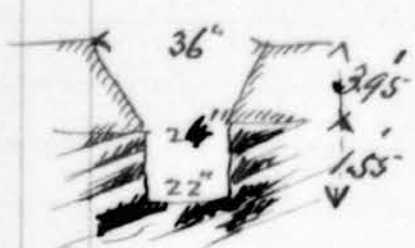
\$ 320.40 ✓

$\frac{\$ 320.40}{2367} = \underline{\underline{\$ 0.135}} \checkmark$



<u>Recapitulation.</u> —	
Trenching per. ft. @	\$0.7030 ✓
Pipe, Compensing, laying, lead, jam fuel, & Cartage - @	0.5760 ✓
Safe. time keeping, blacksmithing	0.0200 ✓
Backfilling.	0.0500 ✓
Specials per. ft.	0.0239 ✓
Valves, hydrants & valves boxes.	0.1350 ✓
Removal with existing pipes $\frac{45}{2}$ 2367'	0.0021 ✓
Bracing.	0.0100
	<hr/> \$1.5200
General office expenses, use of tools, Contingencies, etc say 5%	0.076
	<hr/> \$1.596
Contractors profit 10%	0.159
	<hr/> 1.755
Say \$1.75 $\frac{1}{2}$ ✓	

Albina St. (from Mount Royal to St. Louis) -  
 4" pipe Length 463'-0" Corporation.  
 Average depth of earth excavation 3.95 ft.  
 " " " rock " 1.55 "



earth  $\frac{3}{2.5} \times 3.95 = 9.875 = 0.365 \text{ c.yd.}$   
 Rock  $\frac{2.16}{1.915} \times 1.55 = 2.968 = 0.109 \text{ c.yd.}$

Therefore.

0.365 C. yds. of earth excavation @ 0.20	\$0.073 ✓
0.109 " " rock " @ 2.25	0.245 ✓
	<u>0.318 ✓</u>
Sup. time keeping	0.008
Bracing	0.010
Backfilling	0.050
	<u>0.386</u>
General office expenses etc 3%	0.011
	<u>0.397</u>
Say \$0.40 ✓	

De Gaspe St. (St. Louis to Messing) -  
 4" pipe Length = 930' Corporation -  
 Average depth of earth = 1.60 ft -  
 " " " rock = 3.90 "



earth  $\frac{3.16}{2.66} \times 1.60 = 4.256 = 0.157 \text{ c.yd.}$   
 Rock  $\frac{2.16}{1.995} \times 3.90 = 7.78 = 0.288 \text{ c.yd.}$

Therefore.

0.157 C. yds. earth excavation @ 0.20	\$0.0314 ✓
0.288 " " rock " @ 2.25	0.6480 ✓
	<u>0.6794</u>
Sup. time keeping etc	0.0080
Bracing	0.01
Backfilling	0.05
	<u>0.7474</u>
General office expenses etc 3%	0.0224
	<u>0.7698</u>
Say \$0.77 ✓	

Casgrain St. (from St. Louis to Maguire)

6" pipe

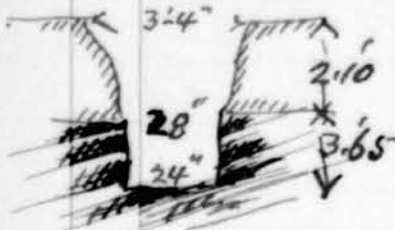
Corporation -

Length = 928 ft.

Average depth of earth = 2.10 ft.

" " " " rock = 3.65 "

5.75 ft.



earth  $\frac{3.33}{2.33} \times 2.10 = 5.943 = 0.22 \checkmark$  c.ft. c.yd.

Rock  $\frac{2.33}{2.165} \times 3.65 = 7.90 = 0.292 \checkmark$  c.ft. c.yd.

Therefore

0.22 c.yds. earth exc. @ 0.20 \$ 0.044 ✓

0.292 " " rock " @ 2.25 0.657 ✓

\$ 0.701

Sup. time keeping etc.

0.010

Bracing -

0.016

Back filling.

0.050

0.771 ✓

Several office expenses etc say 3%

0.023 ✓

Say 0.80 ✓

0.794

6" pipe Casgrain St. (from Maguire northwards)

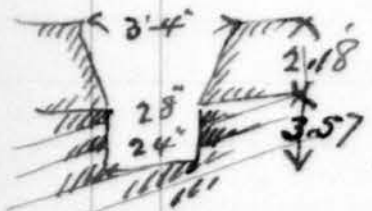
Made by Barden & Valiquette.

Length of pipe 3 1/2'-0"

average depth of earth ex. = 2.18 ft.

" " " " rock " = 3.57 "

5.75 ft.



earth  $\frac{3.33}{2.33} \times 2.18 = 6.1694 = 0.228 \checkmark$  c.ft. c.yd.

rock  $\frac{2.33}{2.165} \times 3.57 = 7.729 = 0.286 \checkmark$  c.ft. c.yd.

Therefore

0.228 c.yds. of earth excavation @ 0.20 0.0456 ✓

0.286 " " " " rock " @ 2.25 0.6435 ✓

Total trenching = \$ 0.6891 ✓

Specials.

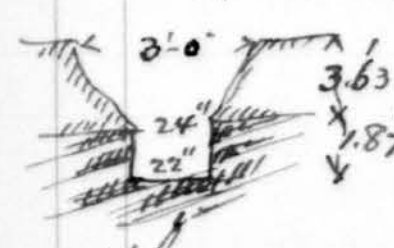
0 Specials -  
no valves -  
no hydrants.

Recapitulation.

Trenching -	\$ 0.6891 ✓
Pipe, comprising laying lead jam fuel & Cartage.	0.5760 ✓
Sup. time keeping etc.	0.0200 ✓
Backfilling	0.0500 ✓
1 Connection <sup>\$1.50</sup> <sub>372'</sub> = with existing pipe.	0.0040 ✓
Bracing.	0.0100 ✓
	<hr/> \$ 1.3491 ✓
General office expenses, use of tools, Contingencies, etc. say 5%	0.0674
	<hr/> \$ 1.4165
Contractors profit 10%	.1416
say <u>\$1.56</u> ✓	<hr/> 1.5581

4" pipe St. Dominique (From St. Eugene to Lane south  
of C.P.R.) -

Length = 2185'-0"  
average depth of earth = 3.63 ft.  
" " " " rock = 1.87 ft.  
5.50 ft.



$$\begin{matrix} \text{earth } \frac{3}{2} \\ 2.5 \times 3.63 = 9.075 = 0.336 \text{ C. yds.} \\ \text{rock } \frac{2}{1.87} \\ \frac{2(3.80)}{1.915 \times 1.87} = 3.581 = 0.1326 \text{ C. yds.} \end{matrix}$$

Therefore.

0.336 C. yds. of earth excavation	@ 0.20	\$ 0.0672 ✓
0.1326 " " " rock	@ 2.25	0.2983 ✓
		<hr/> \$ 0.3655 ✓

Specials.

4 Branches 4" x 4" x 4" @ 125# =	500#
1 Cross 6" x 6" x 4" x 4" @ 215	215
1 Cross 12" x 12" x 4" x 4" @ 590	590
3-4" plugs - @ 10	30
	<hr/> 1335#

3% deviation #  
 $1375# \times 0.02\frac{3}{4} = 37.81 \checkmark$   
 $\frac{\$37.81}{2185'} = 0.0173 \text{ per ft.} \checkmark$

Valves & Hydrants

Valves.

4-4" Valves Cost	\$935	\$37.40	✓
Cartage 4 Valves @ 80# = 320# @ 1.00 per ton		0.16	✓
Laying 4-4" Valves @ 1.10		4.40	✓
4 Valve boxes - @ 5.00		20.00	✓
		<hr/> \$61.96	

Hydrants.

Trenching same price as for  
Main Cut -

20' trench x 3 = 60'-0"	@ 0.3655 =	\$21.93	✓	21.93
3 Hydrants	@ 33.00	99.00		99.00
Cartage 3 Hydrant @ 400# each = 1200#				
@ 1.00 per ton.		0.60		0.60
5' x 0.2' of Branch pipe Compensing lead jam & fuel also backfill @ 0.44		25.08		25.08
3 Drainage pits, excavation & refilling with gravel @ 0.50		1.50		1.50
3 Cuttings of pipe @ 0.20		0.60		0.60
Lead jam & fuel for hydrant joints @ 0.70		2.10		2.10
3 Hydrant laid, Compensing & sept. tube Repairing etc. @ 3.00		9.00		9.00
		<hr/> \$192.81		159.81 ✓

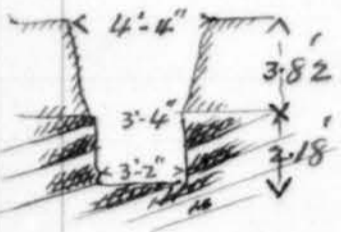
61.96 = Valves = ~~61.96~~  
 159.81 = Hydrants = ~~159.81~~  
 221.77 = ~~221.77~~ + 21.93 = 243.70  
 254.77 = 2185' = 0.116 per ft.

Recapitulation. —

Tramping per ft.	\$ 0.3655
Pipe Compensing Laying, lead gas fuel & Cartage	0.3750
Supt. time Keeping etc.	0.0160
Backfilling	0.0500
Specials per ft.	0.0173
Talos, hydraulics & valves byes.	0.1010
2 Connections with existing pipe	<del>0.0013</del>
$\frac{2185}{2185} =$	0.0013
Bracing.	0.0100
	<del>0.9511</del> 0.9361
General office expenses, use of tools, Contingencies etc 5%	0.0475 0.0468
Contractor profit 10%	0.0998 0.0982
	<del>1.0984</del> 1.0811
Say <del>1.00</del> 1.08	

12" pipe Mount-Royal Ave. (from Saginaw to Western limits)  
Madelly Corporation  
Length = 3053'-0"  
Average depth of earth = 3.82 ft  
" " " " " rock = 2.18 "

10' (14) 10'



earth	$\frac{4.33}{3.33}$	c. ft	c yds.
	27.66		
	$3.82 \times 3.82 = 14.63$		0.541 ✓
Rock	$\frac{3.33}{3.16}$	c. ft	c yds.
	6.49		
	$3.245 \times 2.18 = 7.074$		0.262 ✓

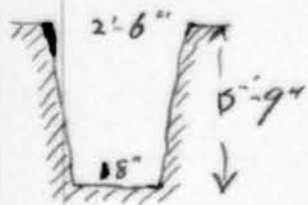
Therefore

0.541 c. yds of earth excavation @ \$20	0.1082
0.262 " " " rock " @ \$2.25	<del>0.1082</del>
	0.5895 ✓
Supt. time Keeping etc =	0.6977
Bracing	0.0150
Backfilling	0.0100
General office expenses, use of tools etc 5%	0.0500
	0.7727
	<del>0.7727</del> 0.7958

Say 0.80

6" pipe Villeneuve St. (from City Hall ave to St. Lawrence)  
 Corporation —  
 Length = 885'-0"

all in earth —



$$\frac{2.5 - 1.5}{2.0} \times 5.75 =$$

$$11.50 = \sqrt{0.425} \text{ C. yds.}$$

Therefore

0.425 C. yds. of earth excavation	\$ 0.085-
Suppl. man Repairing etc -	0.010
Backing	0.010
Back filling	0.050
	0.155-

General office expenses, use of tools etc say 2% of earth in rock use of tools would be less, except also etc)

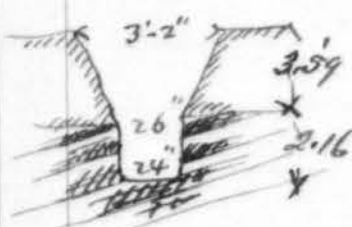
Say \$ 0.16 ✓

6" pipe Villeneuve St. (from St. Lawrence to St. Urbain. Bastien & Valiquette)

Length 528'-0"

Average depth of earth = 3.59 ft.

" " " rock = 2.16 "



$$\text{earth } \frac{3.16}{2.16} \times 2.16 = 3.59$$

$$\text{Rock } \frac{2.16}{2.08} \times 2.16 = 2.16$$

6.75 ft.

$$2.66 \times 3.59 = 9.5494 = 0.353 \text{ C. yds.}$$

$$2.08 \times 2.16 = 4.4928 = 0.166 \text{ C. yds.}$$

Therefore,

0.353 C. yds. of earth excavation	@ 0.20	\$ 0.0706 ✓
0.166 " " rock "	@ 2.25	0.3735 ✓
Trenching	—	0.4441 ✓

Specials. -

2 Branches 6x6x4' @ 185 <sup>#</sup>	370 <sup>#</sup>
1 Cross 6x6x4x4' @	215 <sup>-</sup>
1 " 6x6x6x6' @	295 <sup>-</sup>
1 - 6" plug @	20
	<hr/> 900 <sup>#</sup>

$900<sup>#</sup> @ 0.027 = 24.75 \checkmark$   
 $\checkmark \frac{24.75}{528} = 0.0468 \text{ per ft.} \checkmark$

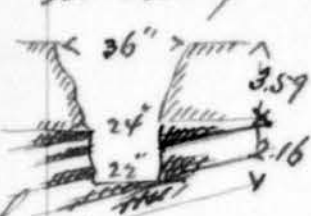
Valves & Hydrants:

Valves.

4 - 6 Valves @ 15 <sup>00</sup>	61.60 ✓
Castage, each weighing 180 <sup>#</sup> = 720 <sup>#</sup> @ 1 <sup>00</sup> per ton	0.36 ✓
Laying 4-6 <sup>in</sup> Valves, on Sept. down	
Keeping etc @ 1.45	5.80 x
4 Valve boxes laid @ 5 <sup>00</sup>	20.00
Total for Valves =	<hr/> 87.76

Hydrants.

renching



$\text{C. ft.} \quad \text{C. yds.}$   
 $\text{C. ft.} \quad \text{C. yds.}$   
 $\frac{3}{2.5} \times 3.59 = 8.975 = 0.332 \checkmark$   
 $\frac{2.83}{1.915 \times 2.16} = 4.1364 = 0.153 \text{ C. yds.}$

Therefore

0.332 C. yds. of trench etc. @ 0.20	6.64 ✓
0.153 C. yds. of rock " @ 2.25	0.3442
	<hr/> 0.4106

2 - 16' 5" branches = 33.0 of branch @ 0.41	13.53 ✓
2 hydrants @ 33 <sup>00</sup>	66.00 ✓
2 - 15' 6" branches = 31.0 of branch	
Pipe comprising <del>...</del>	
Lead jam full & pack filling @ 0.44	13.64 ✓
Castage 2 hydrants @ 400 <sup>#</sup> = 800 <sup>#</sup> @ 1 <sup>00</sup> per ton	0.40 ✓
2 Drainage pits, excavation & filling	
with gravel - @ 0.50	1.00 ✓
2 Pipe cuttings @ 0.20	0.40 ✓
Lead jam & full for hydrant joints @ 0.70	1.40 ✓
Carried over.	<hr/> 96.37 ✓



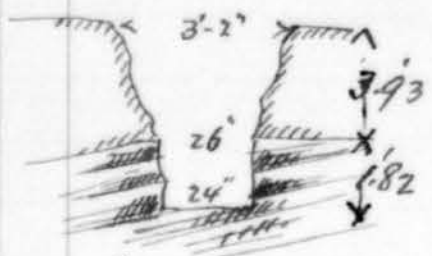
Brought forward. \$96.37  
 2 Hydrants casing Compensing, Supt etc. @ 300 6.00  
 Hydrants = \$102.37  
 Valves = 87.76  
 Hydrants = 102.37  
 Total \$190.13  
 $\frac{\$190.13}{528'-0"} = \$0.361$  ✓

Recapitulation.

Trenching per ft. @ \$0.4441 ✓  
 Pipe Compensing casing, lead, jam, Fuel, & cartage. @ 0.576 ✓  
 Supt. line keeping etc. @ 0.020 ✓  
 Backfilling. @ 0.050 ✓  
 Specials per ft. @ 0.0468 ✓  
 Valves, hydrants & valve box @ 0.3600 ✓  
 2 Connections with existing pipes  $\frac{\$6.50}{528'} = 0.0123$   
 Bracing. 0.0100 ✓  
 \$1.5292  
 General office expenses, use of tools, Contingencies etc. say 5% 0.0759  
 \$1.5951  
 Contractors profit 10% 0.1595  
 \$1.7546  
 Say \$1.76 ✓

6" pipe Boulevard. (from Languelet to Cadieux & George  
Hypolite to St. Dominique) -  
Corporation -

Length = 840 for both pieces -  
Average depth of earth = 3.93 ft  
" " " rock = 1.82 ft  
5.75 ft



earth  $\frac{2.16}{2.16} \times 3.93 = 10.4538 = 0.387$  c.ft. c.yd.  
Rock  $\frac{2.16}{2.08} \times 1.82 = 3.7856 = 0.140$  c.ft. c.yd.

Therefore.

0.387 c.yds earth excavation @ 20¢ = \$0.0774 ✓  
0.140 " " " rock " @ 22¢ = \$0.0315 ✓

\$0.3924 ✓

Sup. time keeping etc.

0.0100

Bracing.

0.0100

Backfilling.

0.0500

\$0.4624 ✓

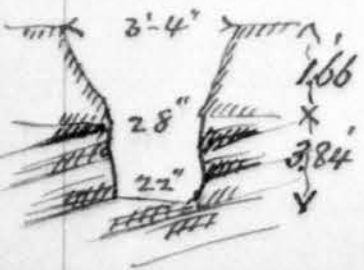
General office expenses, use of tools  
etc say 3% (on approx. work use  
of tools is greater, time consumed  
longer etc.) \$0.48 ✓

0.0138

\$0.4762 ✓

4" pipe Edouard Charles St (from Park Ave to Battemans,  
Bachon & Valiquette)

Length = 423 ft  
Average depth of earth 1.66 ft  
" " " rock 3.84 ft  
5.50 ft



earth  $\frac{2.33}{2.33} \times 1.66 = 4.6978 = 0.1739$  c.ft. c.yd.  
Rock  $\frac{2.33}{2.08} \times 3.84 = 7.9872 = 0.2958$  c.ft. c.yd.

Therefore.  
 0.1739 C. jobs of earth etc. @ 0.20 = 0.03478 ✓  
 0.2958 " " " rock " @ 2.25 = 0.66555 ✓  
 trenching = 0.70033 ✓

Specials.

1 Branch 4"x4"x4" @ 125#  
 1- 4" plug @ 10  
 135#  
 Plus 3% deviation = 4  
139# ✓

139# @ 0.02 3/4 = 3.82 ✓  
 $\frac{3.82}{423'} = 0.009$  profit ✓

Valves & Hydrants.

Valves.  
 1- 4" Valve @ 9.35 ✓  
 Cartage 80# @ 100 per ton - 0.04 ✓  
 Laying 1-4" valve. 1.10 ✓  
 1 Valve cap for 4" valve = 5.00 ✓  
15.49 ✓

Hydrant.

Trenching same as main trench  
 1 hydrant @ 33.00 ✓  
 16 ft. of trench @ 0.70 11.20 ✓  
 Cartage 1 hydrant 400# @ 1/2 a ton 0.20 ✓  
 15 ft. of branch pipe, comprising  
 lead jam & fuel & back filling @ 0.44 6.60 ✓  
 1 Drainage pit excavation & fil-  
 ling with gravel 0.50 ✓  
 1 pipe cutting - 0.20 ✓  
 Lead jam & fuel for hydrant  
 joint - 0.70 ✓  
 1 hydrant stand comprising  
 supt etc 3.00 ✓  
55.40 ✓

Valves =	\$15.49 ✓
Hydants =	55.40 ✓
	<u>\$70.89 ✓</u>
<u>\$70.89</u>	= \$0.167 ✓
423'	

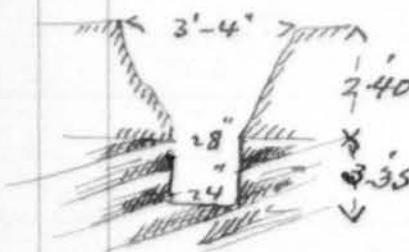
Recapitulation. -

Trenching -	\$0.7003 ✓
Pipe Compensing laying lead	
Yarn fuel & cartage -	0.3750 ✓
Supr. time keeping etc.	0.0160 ✓
Backfilling	0.0500 ✓
Specials per ft.	0.0090 ✓
Valves hydants & valve boxes.	0.1670 ✓
Bracing	0.0100 ✓
Say \$1.33 ✓	<u>\$1.3273</u>

St. Louis St. (from St. Denis Ward to Sanguinet St.)  
Corporation.

6" pipe

Length = 175' -  
Average depth of earth = 2.40 ft.  
" " " rock = 3.35 ft.  
5.75 ft.



earth	$\frac{2.33}{2.33}$	$2.83 \times 2.40 = 6.792 = 0.251 \text{ C.yd.}$
Rock	$\frac{2.33}{4.33}$	$2.165 \times 3.35 = 7.25275 = 0.267 \text{ C.yd.}$

Therefore.

0.251 C.yd. of earth excavation @ 0.20	\$0.0502 ✓
0.267 " " rock " @ 2.25	0.6007 ✓
	<u>\$0.6509 ✓</u>
Supr. time keeping etc.	0.0100 ✓
Bracing	0.0100 ✓
Backfilling	0.0500 ✓
General office expenses, use of tools	0.7209 ✓
etc - 30% say \$0.74 ✓	0.0216 ✓
	<u>0.7425 ✓</u>

St. Louis St. (St. Sanguinet to Park Ave.)

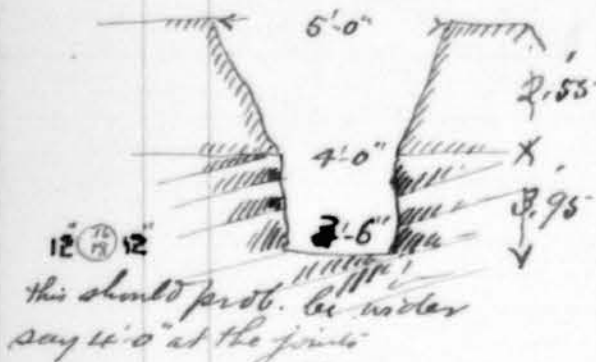
16" pipe

Corporation -  
Length = 2657 ft.

average depth of earth = 2.55 ft.

" " " rock = 3.95 ft.

6.50 ft.



earth  $\frac{5.00}{4.00} = 2 \frac{1}{4}$   
 $4.5 \times 2.55 = 11.475 = 0.4255$  c.ft. c.yds.

Rock  $\frac{4}{3.5} = 2 \frac{2}{7}$   
 $3.75 \times 3.95 = 14.8125 = 0.548$  c.ft. c.yds.

Therefore.

0.4175 C.yds. of earth excavation @ 0.20

\$ 0.0850 ✓

0.548 " " " rock " @ 2.25

1.2330 ✓

\$ 1.3180 ✓

Supt. time Keeping etc. Blacksmithing

0.0450

Bracing.

0.0100

Back filling.

0.0800

\$ 1.4530 ✓

General office expenses, use of tools etc  
 (wide trench, longer time etc) say 4%

0.0580 ✓

\$ 1.5115 ✓

Say \$ 1.51 ✓

St. Louis St. / from Park Ave. to Outremont

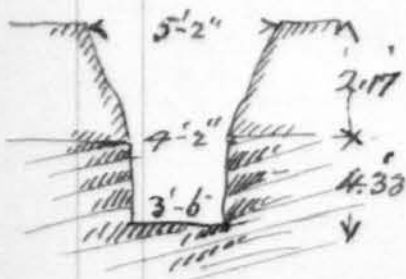
16" pipe

Bashaw & Valiquette.

Length 382'3"

average depth of earth = 2.17 ft.

" " " rock = 4.33 ft.



earth  $\frac{5.16}{4.16} = 2 \frac{1}{4}$   
 $4.66 \times 2.17 = 10.1122 = 0.374$  c.ft. c.yds.

Rock  $\frac{4.16}{3.50} = 2 \frac{2}{7}$   
 $3.83 \times 4.33 = 16.5839 = 0.614$  c.ft. c.yds.

Therefore.

0.374 c. yds. of earth excavation @ 0.20	\$ 0.0748 ✓
0.614 " " " rock " @ 2.25	<u>1.3815 ✓</u>
Trenching =	<u>\$ 1.4563</u>

Specials.

1 Branch 16" x 16" x 6" @	910 #
1 " 16" x 16" x 4" "	900 #
1 - 16" plug @	100
1 - 6" " @	20

Plus 3% deviation.

1930 #
58
<u>1988 #</u>

1988 # @ 0.02 3/4 = \$ 54.67 ✓  
 + \$ 54.67 = \$ 0.143 per ft. ✓  
 382'-3"

Valves & Hydrants:  
 0 Valves.

Hydrants.

Trenching.



earth - $\frac{3.16}{2.16} = 1.532$	@ .75	e. yds.
$2.66 \times 2.17 = 5.7722$		0.2137 ✓
Rock $\frac{2.16}{1.83} = 1.18$	@ .75	e. yds.
$2.29 \times 4.33 = 9.9157$		0.639 ✓
$1.445 \times 4.33 = 6.26685$		0.379 ✓

Therefore

0.2137 c. yds. earth excavation @ 0.20	\$ 0.04274	0.04274
0.684 " " rock " @ 2.25	<u>1.43775</u>	0.9200
Therefore	<u>\$ 1.48049</u>	0.96294
27' of trenching @ \$ 1.48	\$ 20.52	
1 Hydrant @	33.00	
26 ft. of branch pipe, comprising pipe lead, yarn, fuel, & backfilling @ 0.44	11.44	✓
Cartage 1 hydrant 400 # @ 1/2 cent.	0.20	✓
1 Drainage pit, excavation & filling with gravel.	0.50	✓
1 Pipe Cutting.	0.20	✓
Lead yarn & fuel for hydrant joint Carried over	9.70	✓
	<u>\$ 66.56</u>	

Brought forward.  
 1 hydrant laying, comprising  
 Supt. etc. \$66.56  
~~\$6.00~~  
 Hydrant. = 3.00  
\$ 69.56

Value 0.00  
 hydrant 69.56  
69.56  
 $\frac{69.56}{382'-3''} = \text{to } 232 \text{ feet. } \checkmark 0.182$

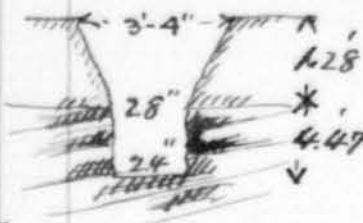
Pipe 135<sup>ft</sup> + 3%  
 = 135<sup>ft</sup> + 4 = 139<sup>ft</sup>  
 139<sup>ft</sup> @ 25<sup>¢</sup> + 75<sup>¢</sup>  
 = 100 = \$2.00  
 Lead  
 Jam for 0.16  
 Laying 0.18  
 25' gang 2.32  
 Day 200's

Recapitulation.

Trenching	\$4.563	✓
Pipe comprising laying, lead		
Jam fuel & Cartage	2.3200	✓
Supt. time keeping, blacksmithing, etc.	0.0500	✓
Backfilling	0.0800	✓
Specials per ft.	0.1430	✓
Value Hydrants <del>7.00</del>	0.1920	
	<del>2.2320</del>	
1 Connection with existing pipe		
$\frac{95}{382'3''} =$	0.0130	
Bracing	0.0100	✓
	<u>\$ 4.3043</u>	
General office expenses, use of	4.2543	
tools, Contingencies etc say 5%	0.2127	
Contractors profit - 10%	4.4670	
	4467	
Total =	<u>\$ 4.9714</u>	
	\$4.9137	

Fairmont St. (from St. Lawrence to Hutchinson).

6" pipe Section & Valiquette.  
 Length 1824'-0"  
 Average depth of earth = 1.28 ft.  
 " " " rock = 4.47 ft.  
 5.75 ft.



earth	$\frac{2.33}{2.33} \times 1.28 = 3.6224$	e.ft.	0.134	e.yds.
Rock	$\frac{2.33}{2.165} \times 4.47 = 9.6775$	e.ft.	0.358	e.yds.

Therefore.

0.134 e.yds. earth excavation	@ 0.20	0.0268 ✓
0.358 " rock	@ 2.25	0.8055 ✓
<u>Trenching =</u>		<u>\$ 0.8323 ✓</u>

Specials.

3 Branch 10' x 10' x 6"	@ 490 #	1470 #
3 10' sleeve	@ 155 #	465
4 Branch 6' x 6' x 4"	@ 185 #	740
2 " 6" x 6" x 6"	@ 195 #	390
3 - 4' plugs.	@ 10 #	30
2 - 6" "	@ 20 #	40

Plus 3% deviation -

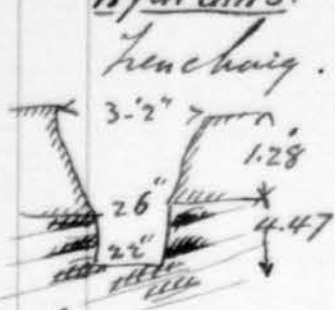
3229 #	@ 0.02 3/4	= 88.79 ✓
<u>\$ 88.79</u>		<u>= 0.0486 ✓</u>
1824'-0"		

Valves & Hydrants -

6 - 6" valves -	@ 15.40	\$ 92.40
Cartage 400' x 6 = 2400' @ 7.00 per ton		1.20
Laying 6-6" valves w/ supply etc	@ 145	8.70 ✓
6 Valve boxes laid	@ 5.00	30.00 ✓
		<u>\$ 132.30 ✓</u>



Hydrants.



Trenching earth  $\frac{3.16 \checkmark}{2.16} = 1.48$   
 $2.66 \times 1.28 = 3.4048 \approx 0.1261 \checkmark$  c.ft. @ yd

Rock  $\frac{2.16}{1.83} = 1.18$   
 $2 \frac{3.99}{1.995} \times 4.47 = 8.94 \approx 0.3302 \checkmark$  c.yd.

Therefore.

0.1261 c. yd. earth excav.	@ 0.20	\$ 0.0252 ✓
0.3302 " " rock "	@ 2.25	0.7429
Say	0.77	<u>0.7681 ✓</u>

22' trench	@ 0.77	16.94 ✓
1 hydrant		33.00 ✓
1 Drainage pit, excavation & filling with gravel.		0.50 ✓
1 Cutting pipe		0.20 ✓
Lead yarn & fuel for hydrant joint		0.70 ✓
1 hydrant laid comprising Supt. etc.		3.00 ✓
21 ft. of branch pipe comprising lead yarn, fuel & backfilling	@ 0.44	9.24 ✓
<del>Backfilling</del>		<u>\$ 63.58</u>

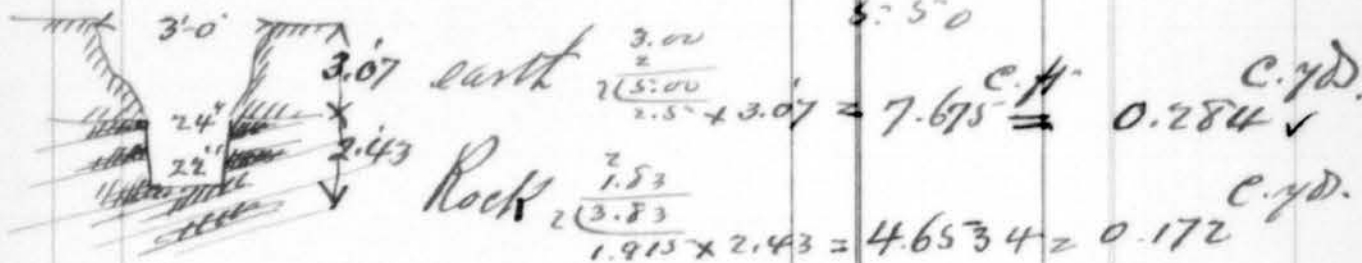
hydrant	63.58
valve	132.30
	<u>\$ 195.88</u>
+ \$ 195.88	= \$ 0.1073
1824'	

Recapitulation.

Trenching per ft.	\$ 0.8323 ✓
Pipe comprising laying, lead yarn fuel & cartage.	0.5760 ✓
Supt. time Repairing. Blacksmithing etc.	0.0200 ✓
Backfilling.	0.0500 ✓
Specials per ft.	0.0486 ✓
Valves & hydrants & valve boxes.	0.1073 ✓
Connection $\frac{30}{1824} =$	0.0164 ✓
Carried over	<u>\$ 1.6506 ✓</u>

Brought forward.	\$ 1.6506
Dracing.	0.0100
	<hr/> 1.6606
Several office expenses, use of tools, Contingencies, etc say 5%	0.0830
	<hr/> 1.7436
Contractor profit 10%	0.1743
	<hr/> 1.9179
Say \$ 1.92	

4" pipe St. Eugène St. (from St. Dominique to  
Casgrain) Bastien & Valiquette.  
Length = 372'-0"  
Average depth of earth = 3.07 ft.  
" " " rock = 2.43 "



Therefore.

0.284 c.f. earth excavation @ 0.20	\$ 0.0568 ✓
0.172 " " rock " @ 2.25	0.3870 ✓
	<hr/> \$ 0.4438 ✓

Specials.

2 Branches 4" x 4" x 4" @ 125¢	250
1 - 4" plug	10¢
	<hr/> 260¢
Plus 3%	8¢
	<hr/> 268¢

268¢ @ 0.02 3/4 = \$ 7.37 ✓  

$$\frac{7.37}{372'-0"} = 0.0198 \checkmark$$

Valves & Hydrants

4" 4" Valves	@ 9 <sup>35</sup>	\$ 37.40
Cartage 4 valves @ 80' = 320' @ 1/2 per 100'		0.16 ✓
Laying 4" 4" valves	@ 110	4.40 ✓
4" Valve boxes laid	@ 500	20.00 ✓
		<u>\$ 61.96</u>

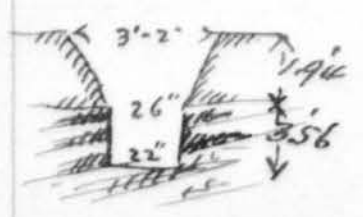
No by drafts, therefore  
 $\frac{61.96}{372} = 0.166 \text{ per ft. } \checkmark$

Recapitulation.

Trenching per ft.		\$ 0.4438 ✓
Pipe comprising laying, lead jams, fuel & cartage @		0.3750 ✓
Supt. time keeping, blacksmithing		0.0160 ✓
Backfilling		0.0500 ✓
Specials per ft.		0.0198 ✓
Valves -		0.1660 ✓
1 Connection with existing pipe $\frac{150}{372}$		0.0040 ✓
Bracing.		0.0100 ✓
		<u>\$ 1.0846</u>
General office expenses, use of tools, Contingencies etc 5%		0.0542
		<u>\$ 1.1388</u>
Contractors profit 10%		0.1138
		<u>\$ 1.2526</u>
Say \$ 1.25 ✓		

4" pipe Rue Young. (from Park Ave. to Hutchison St)  
Bashien & Valiquette

Length = 432'-0"  
 average depth of earth = 1.94 ft  
 " " " rock = 3.56 ft  
 5.50 ft



Earth =  $\frac{3.16}{2.16} \times \frac{2(5.32)}{2.66} \times 1.94 = 5.16 = 0.191 \text{ cfd.}$   
 Rock =  $\frac{2.16}{1.83} \times \frac{2(3.99)}{1.995} \times 3.56 = 7.10 = 0.262 \text{ cfd.}$

Therefore.

0.191 C. 7 d. earth excavation	@ 0.20	* 0.0382 ✓
0.262. " rock "	@ 225	0.5895 ✓
Trenching.		<u>* 0.6277 ✓</u>

Specials.

1 Branch 10" x 10" x 4" @		460#
1-10" sleeve	c	155-
1 Branch 4" x 4" x 4" @		125-
1-4" plug	c	10#
		<u>460#</u>
		22
		<u>772#</u>

Plus 30%

$772# @ 0.0274 = \$21.23 ✓$   
 $+ \frac{\$21.23}{432} = 0.0491 ✓$

Valves & Hydrants

Valves

1-4" valve	@ 9.35	9.35
Cartage 1 valve 80# @ 1 ton =		0.04
Laying 1-4" valve		1.10
1 valve box laid.		5.00
		<u>\$15.49 ✓</u>

Hydrants:

1 hydrant		33.00
22' trenching - same price as maintenance		
	@ 0.63	13.86 ✓
Cartage 1 hydrant 400# @ 1 ton.		0.20 ✓
21 ft. of branch pipe comprising lead yam, fuel & backfilling @ 0.44		9.24 ✓
1 Drainage pit, excavation & filling with gravel.		0.50 ✓
pipe cutting.		0.20 ✓
lead yam, fuel for hydrant joint		0.70 ✓
1 hydrant laid comprising supp. etc.		3.00 ✓
		<u>\$60.70 ✓</u>

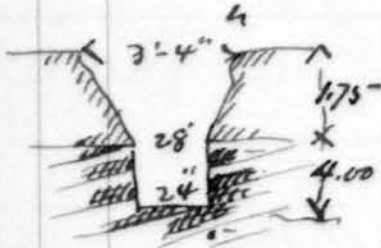
Valves = 15.49 ✓  
 Hydrant = 60.70 ✓  
 $\frac{76.19}{432} = 0.1763$  D, 1763.

Recapitulation.

Trenching per ft.	\$ 0.6277 ✓
Pipe Compensing, Laying, lead, jams, fuel & Cartage @	0.3750 ✓
Supt. time keeping, blacksmithing etc.	0.0160 ✓
Back filling -	0.0500 ✓
Specials per ft.	0.0491 ✓
Valve, hydrant, valve boxes	<del>0.1532</del>
Connection with existing pipe	0.1763
$\frac{710}{432} =$	0.0231 ✓
Bracing.	0.0100 ✓
	<hr/>
	\$ 1.3041
General office expenses, misc	1.3272
tools, Contingencies etc 5%	<del>0.0663</del>
	<hr/>
	\$ 1.3693
Contractor profit 10%	1.3935
Say <del>1.50</del> 1.53 -	<hr/>
	\$ 1.5328

6" pipe Maquiere St. (from St. Dominique to Gaspi)  
 Bacher & Valiquette.

Length = 491'-0"  
 Average depth earth = 1.75 ft  
 " rock = 4.00 ft  
 5.75 ft.



Earth  $\frac{3.73}{2.73} \times 1.75 = 4.9525 = 0.183 \checkmark$  c.ft. yd.  
 Rock  $\frac{2.73}{2.165} \times 4.00 = 8.66 = 0.320 \checkmark$  c.ft. yd.

Therefore.

0.183 c. yds of earth excavated @ .20 \$ 0.0366 ✓  
 0.320 " " " rock " @ 2.25 \$ 0.7200 ✓  
 Trenching = \$ 0.7566 ✓

Specials.

2 Brass 6" x 6" x 4" x 4" @ 215#	430#
1 Cast 6" x 6" x 6" x 6" @ 295#	295
3 - 4" plugs @ 10#	30
1 - 6" plug @ 20#	20
	<hr/> 775#
Plus 3%	23
	<hr/> 798#

798# @ 0.023/4 = 21.94 ✓  
 + 21.94 = 80.0446 per ft. ✓  
 491'

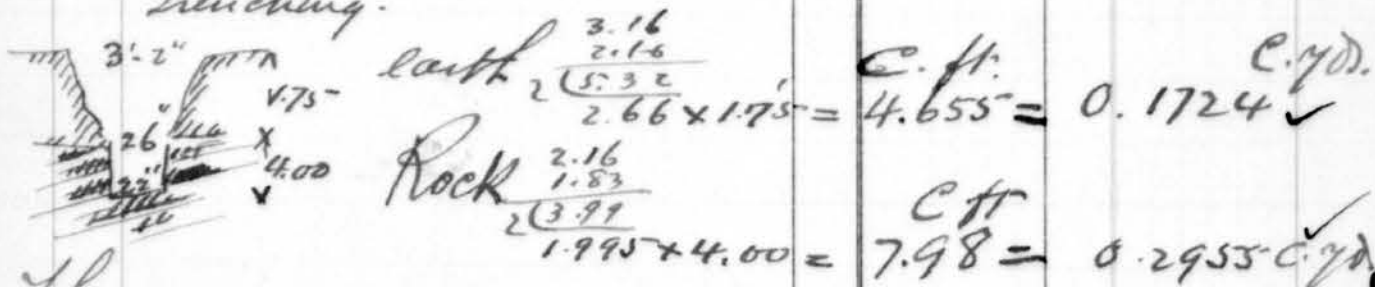
Valves & Hydrants

Valves.

5-6" Valves @ 15.40	\$77.00 ✓
2-4" " @ 9.35	18.70 ✓
Costs 5-6" valves 180# = 900#	
" 2-4" " 80# = 160#	
@ 1.00 above 1060#	0.53 ✓
Laying 5-6" valves @ 1.45	7.25 ✓
" 2-4" " @ 1.10	2.20 ✓
7 valves boxes laid @ 5.00	35.00 ✓
Total Valves =	\$140.68 ✓

Hydrants.

Trenching.



Therefore

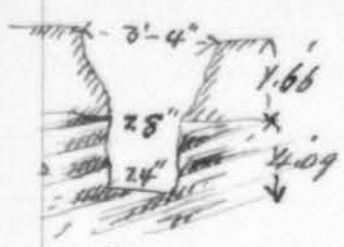
0.1724 c. yd. earth excavation @ 0.20	0.03448 ✓
0.2955 " rock " @ 2.25	0.66487 ✓
Say 0.70	<hr/> 0.69935

20' trenching - @ 0.70	14.00 ✓
1 hydrant @	33.00 ✓
19' of branch pipe comprising lead, jam, fuel & backfill @ 0.44	8.36 ✓
Carried over =	<hr/> \$55.36

Brought forward.	\$55.36
Cartage 1 hydrant 400 @ 1.00	0.20 ✓
1 Drainage pit, excavation & filling with gravel.	0.50 ✓
1 pipe cutting.	0.20 ✓
Lead yarn & fuel for hydrant joint.	0.70 ✓
1 hydrant lead, compensating Supt. hydrants -	3.00 ✓
Valves - \$140.68 ✓	
Hydrants. 59.96 ✓	
<u>\$200.64</u>	
$\frac{\$200.64}{491} = \$0.4086$ ✓	
Recapitulation -	
Trenching	\$0.7566 ✓
Pipes compensating laying, lead yarn, fuel & cartage	0.5760 ✓
Supt. time keeper et. @	0.0200 ✓
Backfilling.	0.0500 ✓
Special profit.	0.0446 ✓
Valves & hydrants & valve boxes.	0.4086 ✓
3 Connections $\frac{\$4.50}{491}$	0.0091 ✓
Bracing	0.0100 ✓
	<u>\$1.8749</u> ✓
General office expenses, use of tools	
Contingencies, etc say 5%	0.0937 ✓
	<u>1.9686</u>
Contractors profit 10%	0.1968
	<u>2.1654</u>
Say <u>\$2.16</u> ✓	

6" pipe  
 600' 0" north of Fairmont.  
 Lane between St. Urbain & ~~Mance~~ / between ~~Fairmont~~ <sup>St. Urbain</sup>

~~Mance~~ - Bastien & Valiquette.  
 Length = 754' 0"  
 Average depth of earth = 1.66 ft.  
 " " " rock = 4.09 ft.  
 5.75 ft.



earth	$\frac{2.33}{2} = 1.165$	$2.83 \times 1.66 = 4.6978$	C. ft.	C. yds.
	$\frac{2.33}{2} = 1.165$			0.1739 ✓
Rock	$\frac{2.33}{2} = 1.165$	$2.165 \times 4.09 = 8.8548$	C. ft.	C. yds.
	$\frac{2.33}{2} = 1.165$			0.3279 ✓

Therefore.  
 0.1739 C. yds. earth excavation @ 0.20 = \$0.03478 ✓  
 0.3279 " " rock " @ 2.25 = 0.73777 ✓  
 Trenching = \$0.77255 ✓

No specials - Counted on up streets.  
 No hydrants.  
 Valves.

2-6" Valves -	@ \$15.40	\$30.80 ✓
Castings 2 valves 180° = 360° @ 1.00 per foot		0.18 ✓
Laying 2-6" valves.	@ 1.45	2.90 ✓
2 Valve boxes laid.	@ 5.00	10.00 ✓
Valves =		\$43.88 ✓
$\frac{\$43.88}{754}$		\$0.0581 ✓

Recapitulation.

Trenching per ft.	\$0.7725 ✓
Valves & valve boxes	0.0581 ✓
Pipe, Compensating laying, lead, jam, fuel, & castings.	0.5760 ✓
Supt. time keeping etc.	0.0200 ✓
Backfilling -	0.0500 ✓
Bracing -	0.0100 ✓
General office expenses use of tools	\$1.4866 ✓
Contingencies etc 5%	0.0743 ✓
Contractor profit 10%	0.1550 ✓
	<u>\$1.7159</u> pay 6/72



formerly Lauretta

12" pipe St. Viateur - (from St. Lawrence to St. Dominique)

Basin & Valiquette  
 Length = 293'-0"  
 Average depth of earth = 5'-0"  
 " " " " rock = 1'-0"  
 " " " " " = 6'-0"



earth	$\frac{4.5}{2} \times 3.33$		c. ft	c. yds.
	$\frac{7.83}{2}$	$3.915 \times 5'-0"$	$= 19.575$	$= 0.425 \checkmark$
Rock	$\frac{3.33}{2}$		c. ft	c. yds.
	$\frac{6.49}{2}$	$3.245 \times 1'-0"$	$= 3.245$	$= 0.1201 \checkmark$

Therefore.

0.425 c. yds. earth excavation @ 0.30	\$ 0.145 \checkmark
0.1201 " rock " @ 2.25	0.270 \checkmark
Trenching =	\$ 0.415 \checkmark

Specials.

2 Reducers 12" to 10" @ 240#	480# \checkmark
1-10" sleeve @	155 \checkmark
2 Branches 12" x 12" x 12" @ 650#	1300 \checkmark
1 " 12" x 12" x 4" @	500 \checkmark
2-12" plugs @ 55#	110 \checkmark
2-4" " @ 10#	20 \checkmark

2565#	
77	
<u>2642#</u>	

2642# @ 0.02 3/4 = 42.76  
 $\frac{42.76}{293'} = 0.146$   
 $\frac{42.76}{293'} = 0.146$  \checkmark

Valves & Hydrants -

Valves -

2-12" Valves - @ 41.80	\$ 83.60 \checkmark
Cartage 2 x 490# = 980# @ 1/2 per ton	0.49 \checkmark
Laying 2-12" Valves @ 2.70	5.40 \checkmark
2 valves by hand @ 5.00	10.00 \checkmark
Valves	\$ 99.49

Hydrants.

Trenching.



$$\text{c.c.ft} = \frac{\frac{3}{2}}{2.5} \times 5^2 \times 0 = 12.5 = 0.4629 \checkmark$$

$$\text{Rock} = \frac{2.83}{1.83} \times 1.915 \times 1^2 \times 0 = 1.915 = 0.0709 \checkmark$$

Therefore.

0.4629 c.c. of earth excavation @ \$0.20 = 0.0925 ✓  
 0.0709 " " " rock " @ \$2.25 = 0.1595 ✓

\$0.2520 ✓

20' of trenching

@ \$0.25

\$5.00 ✓

1 hydrant

33.00 ✓

1-1/2" branch comprising, lead joint

fuel & backfilling @ \$0.44

8.36 ✓

Cartage 1 hydrant 400# @ \$0.50

0.20 ✓

1 Drainage pit, excavation, & filling with sand -

0.50 ✓

1 Pipe Cutting.

0.20 ✓

Lead joint & fuel for hydrant joint

0.70 ✓

1 hydrant laying, comprising

sup. etc. -

3.00 ✓

Hydrant =

\$50.96

Value = \$99.49

Hydrant = 50.96

\$150.45

$\frac{\$150.25}{293'} = \$0.513$

Recapitulation.

Trenching per ft.

\$0.4150 ✓

Pipe comprising, laying lead joint

fuel & cartage - @

1.4463 ✓

Sup. time keeping blacksmithing etc

0.0300 ✓

Backfilling.

0.0650 ✓

Specials per ft.

0.2480 ✓

Value hydrants & valves boxes

0.5130 ✓

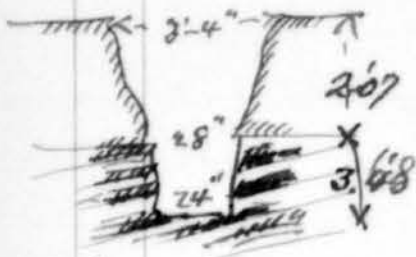
Carried over

\$2.7173 ✓

Brought forward	\$ 2.7173 ✓
Large Connection $\frac{155}{293} \times 2$	0.0511 ✓
Bracing.	0.0100 ✓
	<hr/> 2.7784
General office expenses, use of tools	0.1389
Contingencies, etc say 5%	<hr/> 2.9173
Contractors profit say 10%	2917
Say <u>\$3.20</u>	<hr/> 3.2080

6" pipe Lane North of Victoria St (between St. Lawrence & St. Dominique) —  
 Bastien & Valiquette

Length = 308'-0"  
 Average depth of earth = 2.07 ft  
 " " " rock = 3.68 "



earth  $\frac{3.33}{2.33} \times 2.07 = 5.8581 = 0.2169 \checkmark$   
 Rock  $\frac{2.33}{2.165} \times 3.68 = 7.4259 = 0.275 \checkmark$   
 7.9672 = 0.295

Therefore

0.2169 C-70 earth excavation @ 0.20	\$ 0.04338 ✓
0.275 " " rock " @ 2.25	0.61375 ✓
Trenching =	<hr/> 0.65713

Specials

1-Branch 10'x10'x4' @ 460#  
 1-10" sleeve @ 155#  
 633# @ 0.02 3/4 = \$17.40  $\frac{17.40}{208'} = 0.056 \checkmark$  Plus 3% de.  $\frac{61.8}{633}$

Valves & hydrants

Valves.	
2-4" Valves. @ 9.35	18.70 ✓
Castings 2-4" Valves @ 80# = 160# @ 1.00 per ton	0.08 ✓
Laying 2-4" Valves. @ 110	2.20 ✓
2 Valve boxes laid @ 5.00	10.00 ✓
Valves	<hr/> \$ 30.98

No hydrants consequently.

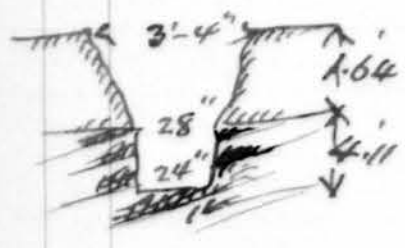
$$\frac{\$30.98}{308'} = 0.1005 \text{ per ft.}$$

Recapitulation.

Trenching.	\$0.66213	
Pipe comprising laying, lead yam, fuel & cartage - @	0.71713	✓
Supt. time keeping, blacksmithing	0.37500	✓
Back filling	0.01600	
Specials.	0.05000	
Values - \$10	0.05600	✓
1 Connection $\frac{10}{308}$	0.10050	✓
Bracing.	0.03200	✓
	0.01000	
	<u>\$1.30663</u>	1.35663
General office expenses, use of tools, contingencies etc 5%	1.30663	
	0.065	0.06783
	<u>\$1.366</u>	1.42446
Contractors profit 10%	0.136	0.14244
Say \$1.57	<u>\$1.502</u>	<u>1.56690</u>

6" pipe Bernard St. (from St. Lawrence to Hutchison)

Bastien & Valiquette  
 Length = 1893'-0"  
 Average depth of earth = 1.64 ft.  
 " " " " " rock = 4.11 ft.  
 " " " " " " = 5.75 ft.



earth	$\frac{2.33}{2}$		e ft	e. 7d.
	2.33			
	<u>2.66</u>			
	2.83 x 1.64 =	4.6412 =	0.1718 ✓	
Rock	$\frac{2.33}{2}$		e ft	e. 7d.
	2.33			
	<u>4.66</u>			
	2.165 x 4.11 =	8.898 =	0.329 ✓	

Therefore.

0.1718 C. yds. earth excavation @ 0.20	\$0.0343	✓
0.329 C. yds. rock " @ 2.25	0.7402	✓
Trenching =	<u>\$0.7745</u>	✓

Specials.

3 Branches 6x6x4x4 @ 185#	555#
4 " 6x6x6x6 @ 195#	780
5- 4" plugs @ 10#	50
8- 6" " @ 20#	160

1545#

Plus 3% deviation -

46

1591#

$1591# @ 0.02 \frac{3}{4} = \$43.75 \checkmark$

$\frac{\$43.75}{1893} = 0.0231 \checkmark$

Valves & Hydrants.

Valves.

6- 6" Valves - @ 15#	92.40 ✓
Cartage 6- 6" valves 180# = 1080# @ 1/2 lb	0.54 ✓
Laying 6- 6" valves @ 1.45	8.70 ✓
6 Valve box laid. @ 5.00	30.00 ✓
	<u>\$131.64</u>

No hydrants consequently.

$\frac{\$131.64}{1893} = 0.069 \checkmark$

Recapitulation.

Trenching. \$0.7745 ✓

Pipe comprising laying, lead  
Jarn fuel, & Cartage @ 0.5760 ✓

Subst. time keeping, blacksmithing @ 0.0200 ✓

Backfilling - @ 0.0500 ✓

Specials. 0.0231 ✓

Valves & valve box. 0.0690 ✓

1 Connection  $\frac{\$1.52}{1893} =$  0.0007 ✓

Bracing. 0.0100 ✓

\$1.5233 ✓

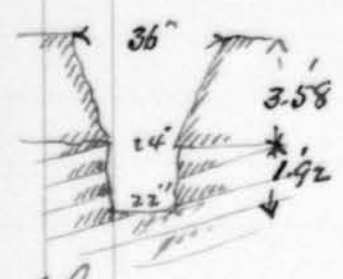
General office expenses, used  
tools, contingencies etc 5% 0.0761 ✓

\$1.5994 ✓

Contractors profit 10% 0.1599 ✓

Sum \$1.7593 ✓

4" pipe Length = 245 ft. ~~Beattie~~ Corporation.  
 Average depth of earth = 3.58 ft  
 " " rock = 1.92 "



Earth =  $\frac{3}{2} \times 2.5 \times 3.58 = 8.95 = 0.331 \text{ C. yds.}$   
 Rock =  $\frac{7}{2} \times 1.92 = 3.6768 = 0.136 \text{ C. yds.}$

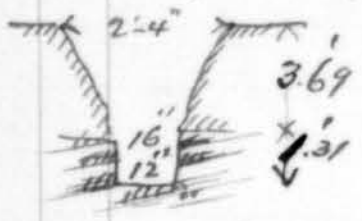
Therefore

0.331 C. yds. of earth excavation @ 20	\$ 0.066 ✓
0.136 " " rock " @ 225	0.306 ✓
	<hr/> \$ 0.372 ✓
Supt. time keeping, backfilling.	0.010
Bracing -	0.000
Backfilling	0.050
	<hr/> \$ 0.442 ✓
General office expenses, use of tools etc - 3% \$	0.013 ✓
	<hr/> 0.455 ✓
	<hr/> <u>Any 0.455 1/2 per ft.</u>

# Private Services

Sanguinet St.  
 Services laid by Co. By Corporation —  
 Average length 22.42 ft.  
 Average depth of earth. 3.69 ft.  
 " " " rock 1.31 ft.  
 5.00 ft.

Remark The Co laid its services & refilled the trenches, consequently the trenching only is to be charged.



earth  $\frac{2.33}{1.33} \times 3.69 = 6.7527 = 0.25$  e.ft. Cyd.  
 Rock  $\frac{1.33}{1.165} \times 1.31 = 1.526 = 0.056$  e.ft. Cyd.

Trench

Therefore.  
 0.25 Cyds of earth excavation @ 0.20 \$ 0.05  
 0.056 " " rock " @ 2.50 \$ 0.14  
 \$ 0.19  
 Sup. time keeping, blacksmithing 0.01  
 Bracing 0.01  
 \$ 0.21

Therefore.  
 22.42 ft. of trench @ 0.21 \$ 4.708, say 4.71

Remark - Rock has been counted at \$2.50 because it is worth more to take out rock out of a narrow service trench than out of a wide one also it requires more precautions against accidents.

Remark - By Bastien & Valiquette -  
 Small services laid by Bastien & Valiquette trenching, refilling, service pipe & fittings, also labor putting in, must be taken into ac

3 Double services.

Average length of services = 27'-0"  
" " " " trenches = 27'-0"

Same section as above same price per ft. assuming 23'-0" of  $\frac{5}{8}$ " pipe and ~~with~~ 2 branches of  $\frac{1}{2}$ " each of  $\frac{1}{2}$ " pipe we have.

Price of one service -

27 ft. of trench -	@ 0.21	5.67 ✓
27 ft. of backfilling -	@ 0.05	1.35 ✓
Undoing & replacing sidewalk		0.10
23 ft. of $\frac{5}{8}$ " lead pipe 9 lbs. per yd. @		
or 69# detoured on works @ 0.05		3.45 ✓
8 ft. of $\frac{1}{2}$ " lead pipe 6# per yd or $\frac{1}{8}$ "	@ 0.05	0.80 ✓
1 $\frac{5}{8}$ " nozzle -	@ 0.45	0.45 ✓
1 3 way lock.	@ 1.30	1.30 ✓
1 Box Complete	@	1.40 ✓
Laying one service		0.60
Subst. time Keeping general office expenses		15.425
At rate of 5% on work.		0.77125
Laying a double service		15.87

Contractor profit 10%  
15.87  
1.587  
17.45

2 men and a horse wagon will lay on average 6 services a day

1 man can drill 20 holes - at a cost of  $\frac{1.25}{20} = 0.0625$

Therefore  
Laying -

2 men	@ 1.25	2.50 ✓
1 horse & wagon		0.75 ✓
		<hr/>
		3.25

Laying =  $\frac{3.25}{6} = 0.5416$

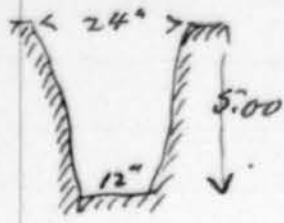
Drilling hole  $0.0625$   
 $0.6041$   
say 0.60 each ✓

City Hall St.

By Corporation -

Average length of trenches = 25'  
all in earth.





$$\frac{24}{1.5} \div 2 = 7.5 \text{ ft}$$

$$0.277 \text{ Cyd.}$$

Therefore

0.277 Cyd

@ 0.20

0.0554

~~Sup. time keeping~~

~~0.0080~~

Backfilling -

0.0000

Sup. time keeping, blacksmithing, contract fees on use of tools, general office exp. 5%

0.0554

0.0027

Therefore. Day 0.06.

0.0581

25'-0"

@ 0.06

1.50 ✓

By Bachin & Valiquette

2 - Single services -

Average length - 27'

" " of trench = 27'

average depth trench = 3.83  
 rock = 1.17  
 1' = trench: 0.259 Cyd.  
 rock: 0.050 ...  
 0.259 Cyd @ 0.20 = 0.0518  
 0.05 @ 2.59 = 0.1295 ✓

27'-0" of trench

@ 0.172

4.72 ✓

27' of 1/2" lead pipe = 54'

@ 0.05

2.70 ✓

27' of backfilling -

@ 0.05

1.35 ✓

Undoing & replacing sidewalk

0.10

1 1/2" nozzle

@ 0.272

0.272 ✓

1 Stop Cock 1/2"

@ 0.74

0.74 ✓

1 Bal Complete

@ 1.40

1.40 ✓

27' Laying one service

@ 0.01

0.27 ✓

Single

~~12.10~~

12.10

Sup. time keeping, general office expenses  
 use of tools, contract fees on the 5%

0.60

0.60

12.70

12.70

1.20

13.92

Contractor profit 10%

Say \$13.92

13.92

3 Double services 30'-0" long on average.  
 trenches 30' ft. long on average

Double

30' of trenching	@ 0.175	\$5.25
30' of backfilling	@ 0.05	1.50
26' of 5/8" pipe = 78#	@ 0.05	3.90
8' of 1/2" " = 16#	@ 0.05	0.80
1-5/8" nozzle	@ 0.45	0.45
1 3 way cock stop cock	@	1.30
1 Box Complete	@	1.40
Laying one service	@	0.60
		<hr/> \$15.20

Supt. time keeping, use of tools -  
 general office expenses, Contingencies etc. 4% 0.608

Contractors profit 10% 1.580

Say \$14.39 

---

\$17.388

Laval. Ave.

6 services. Trenching by Corp. Backfilling by Co.  
 Average length = 10'-0"  
 average depth of each. 3.78 ft.  
 " " " " rock 1.22  
 " " " " 5'00 ft:

Diagram



Earth  $\frac{2.33}{1.33} \times 3.78 = 6.917 \approx 0.256 \text{ c.yd.}$

Rock  $\frac{1.33}{1.165} \times 1.22 = 1.421 \approx 0.05 \text{ c.yd.}$

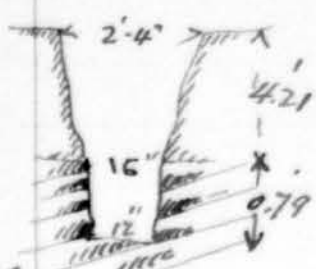
Therefore.

0.256 c.yd. earth etc.	@ 0.20	\$0.051
0.05 " " rock "	@ 2.32	0.121
		<hr/> \$0.182
10' of trenching	@ 0.182	\$1.82
10 Supt time keeping, blacksmithing,		0.07
used tools, contingencies, etc. general		0.07
office expenses - 4%		0.04
		<hr/> \$1.99

Trench

George Hypolite St. / 44 Trenches made by Corporation.

Average length = 25'-0"  
 Average depth of earth = 4.21 ft.  
 " " " rock = 0.79 ft.  
 " " " " 6'-0" ft.



earth  $\frac{2.33}{1.33} \times 4.21 = 7.70 = 0.28$  c.ft. C.Y.D.  
 Rock  $\frac{1.33}{1.165} \times 0.79 = 0.92 = 0.034$  c.ft. C.Y.D.

Therefore -

0.28 C.Y.D. of earth @ 0.20  
 0.034 " " rock " @ 2.50

0.056 ✓

0.088 ✓

0.141 ✓

0.010

0.151 ✓

Bracing.

Supt. time Keeping, blacksmithing.  
 General office expenses, use of tools Contin-  
 gencies etc 5%

0.0075 ✓

0.1585 ✓

Say 0.16 cts.

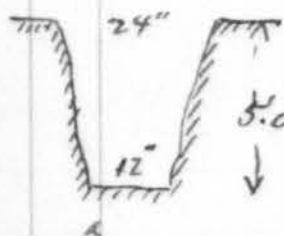
25'-0" of trench @ 0.16

\$4.00

Trench

Cadieux St. / 48 Trenches made by Corporation.

Average length = 25'-6"  
 Average depth of earth = 5.00 ft.  
 " " " rock = 0.00



Contents per lineal ft. = 0.277 C.Y.D. (see page 64.)

0.277 C.Y.D. earth @ 0.20

\$0.0554 ✓

Bracing.

0.0000 ✓

use of tools, time Keeping, blacksmithing  
 Contin. gen. office expenses 5%  
 Say \$0.06 per ft.

0.0554 ✓

0.0027 ✓

0.0581 ✓

25'-0" long.

C 008

\$1.50

Bachman Valiquette

Cadieux St.

1 Special private double service laid to Mr. Germain, notary. Service laid by Bachman & Valiquette.

Length = 95'-0"

Average depth of earth = 3.58 ft.

" " " rock = 1.42 "



Earth  $\frac{2.33}{1.33} \times 3.58 = 6.55$  c.ft.

$1.83' \times 3.58 = 6.55 = 0.242$  c.yd.

Rock  $\frac{1.33}{2.33} \times 1.42 = 1.65$  c.ft. = 0.061 c.yd.

Therefore:

0.242 c.yd. earth excavation @ 0.20

\$0.048

0.061 " " rock " @ 2.50

0.152

0.200

95 ft. of trenching

@ 0.20

\$19.00

19.00

91 ft. of 5" pipe = 273 ft.

@ 0.05

13.65

13.65

8 ft. of 1/2" pipe = 16 ft.

@ 0.05

0.80

0.80

Underpinning & replacing sidewalk

0.10

0.10

1 5" nozzle

0.45

0.45

3 1/2" Stop Cocks -

1.30

1.30

1.30

1 1/2 Bar Complete

@

1.40

1.40

Back filling

@

0.05

4.75

Laying service (Special)

1.00

1.00

\$37.45 = \$42.45

Sept tank keeping blacksmithing  
General office of houses, Contin. pipes  
incl. of roots etc 5.76

1.88

2.12

39.63

\$44.57

3.96

4.46

\$43.59

\$49.03

Contractor profit 10%  
Total

Corbeil lane. (This service is entered on Sanguinet St. as it is connected to the Sanguinet St. main.)

Trench

169' Trenching from Sanguinet St. to Corbeil lane made by Proprietor: service laid by Co. & refilled by Co.

Trenching all in earth.

Cost the same as earth trenching elsewhere = \$0.06 a ft.

195' ft. of trenching in earth @ 0.06 \$11.70 ✓

St. Dominique St.

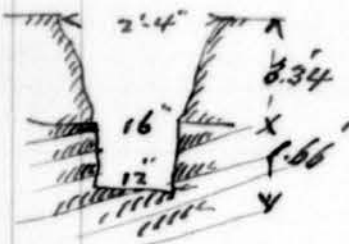
Trench

61 Trenches by Corporation.

Average length 21' 3"

Average depth of earth = 3.34 ft.

" " " " rock = 1.66 ft.



earth  $\frac{2.33}{1.33} = 3.66$   
 $1.83 \times 3.66 = 6.11 = 0.226 \text{ C. yds.}$

Rock  $\frac{1.33}{1.165} = 2.33$   
 $1.165 \times 1.66 = 1.93 = 0.0714 \text{ C. yds.}$

0.226 C. yds. earth & excavation @ 0.20 \$0.045 ✓

0.0714 " " rock " @ 2.50 \$0.178 ✓

\$0.045 ✓

\$0.178 ✓

\$0.223 ✓

\$0.010

\$0.233 ✓

Pracings.

Suppl. time keeping, etc. general office expenses, use of tools, Contingencies 5%

\$0.0116

Say 0.24 1/2

\$0.2446

21.25 ft. of trenching @ 0.24 1/2

~~\$5.20~~

\$5.20

Barton St. Single

St. Dominique St.

2 Single services  
 average length of service 32'  
 " " " trench 32'  
 Average depth of earth = 3.63 ft.  
 " " " rock = 1.37 ft.  
 5.00 ft.



$$\frac{2.33}{1.37} = 1.69$$

$$1.69 \times 3.63 = 6.14 = 0.245 \text{ Cyls.}$$

$$\frac{1.37}{1.165} = 1.17$$

$$1.17 \times 1.37 = 1.596 = 0.059 \text{ Cyls.}$$

Therefore

0.245 Cyls. earth excavation @ 0.20	\$0.049 ✓	
0.059 " " rock " @ 2.50	0.147 ✓	
	<u>0.196</u>	
32 ft. of trenching @ 0.196	\$6.272 ✓	6.272
32 ft. of 1/2 pipe = 64 # @ 0.05	3.20 ✓	3.200
Uncovering & replacing sidewalk	0.10 ✓	0.100
1 1/2 hazle.	0.275 ✓	0.275
1 1/2 stop cock	0.75 ✓	0.750
1 Box Complete	1.40 ✓	1.400
32 Back filling	0.05 ✓	1.600
32 Laying service	0.55 ✓	0.530
32 Bracing @ 0.00	\$12.597 ✓	\$14.467

Supt. time keeping, blacksmithing  
 General office expenses, Contingencies  
 used tools etc 5%

0.629 ✓	0.723
<u>13.226</u>	16.190
1.327 ✓	1.819
<u>\$14.548</u>	16.339
	\$16.709

Contractor profit 10%

2 Doubles -  
 average length service = 32'-6"  
 " " " trench = 32'-6"

Cost of excavation same as for  
 Singles -  
 Then

Barton St. Double

32.5	Trenching	@ 0.196	\$ 6.37 ✓	6.37
28.5	ft. of 3/8" pipe = 85.5'	@ 0.05	4.27 ✓	4.27
8	ft. of 1/2" pipe = 16'	@ 0.05	0.80 ✓	0.80
	Undoing & replacing sidewalk		0.10 ✓	0.10
	1 5/8" nozzle		0.45 ✓	0.45
	1 3way stop cock		1.30 ✓	1.30
	1 Box complete		1.40 ✓	1.40
32.50	Backfilling		0.05	
	Laying service		0.60 ✓	1.62
32.5	Bracing			0.60
	Suppt. time Keeping etc. Contingencies			17.23
	General office expenses, use of tools etc 5%		0.76 ✓	0.86
	Contractor profit 10%		1.68	1.80
			<u>\$ 15.34</u>	<u>\$ 16.91</u>
				<u>17.23</u>
			<u>\$ 16.00</u>	<u>\$ 18.09</u>
			<u>1.68</u>	<u>1.80</u>
			<u>\$ 17.76</u>	<u>\$ 19.89</u>

St. Lawrence St.

St. Dominique.

Tap into lane of St. Dominique  
 Length of trench all in earth 121'-0" long.  
 Same price as for other earth excavation = 0.06 a ft

121'-0" of earth trench	0.06	\$ 7.26 ✓
-------------------------	------	-----------

St. Lawrence St.

8' Trenches by Corporation. average length = 23.4'  
 average depth earth = 3.24 ft. ✓  
 " " rock = 1.76 ft. ✓  
 " " " = 5.00 ft.



earth -  $\frac{2.33}{1.83} \times 3.24 = 5.929 = 0.219 \text{ c yd.}$  ✓  
 Rock  $\frac{1.33}{1.165} \times 1.76 = 2.05 = 0.075 \text{ c yd.}$  ✓

Therefore.

0.219 c yd. earth etc.	@ 0.20	\$ 0.0438 ✓
0.075 " rock "	@ 2.50	0.1875 ✓
		<u>0.2313</u>

Bracing  
 Suppt. time Keeping, etc for office expenses  
 use of tools Contingencies etc 5%  
 23.4' trenches @ 0.25 = 5.86 Total ✓

		0.01
		0.2413
		0.012
		<u>0.2533</u> ✓



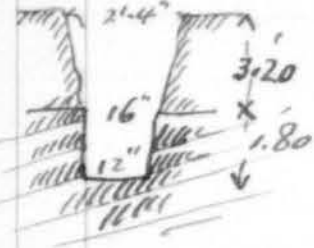


Brought forward.	\$25.38 ✓	\$25.38
1 5/8" nozzle.	0.45 ✓	0.45
1 3 Way Cock.	1.30 ✓	1.30
1 Box complete.	1.40 ✓	1.40
44 Backfillers.	2.20 ✓	2.20
44 Laying service	0.65 ✓	0.65
44 Pricing	29.23 ✓	29.23
Supt. time Keeping etc. Contingencies		\$31.82
Journal office expenses, use of tools. @ 25%	1.46 ✓	1.59
Contractors profit 10%	30.69	33.41
	3.06	3.34
	<del>\$33.45</del>	\$36.75

Double & Valign  
 Single

### Clarke St.

22 Single services  
 Average length = 36.12 ft  
 " of trench = 34.39 ft.  
 Average depth of earth. 3.20 ft.  
 " " " rock. 1.80 ft.  
 5.00 ft.



Earth  $\frac{2.33}{1.33} \times 3.66 = 6.33$  e.ft.  
 $1.83 \times 3.20 = 5.856 = 0.216$  e.ft. ✓  
 Rock  $\frac{1.33}{2.33} \times 2.097 = 1.165$  e.ft.  
 $1.165 \times 1.80 = 2.097 = 0.077$  e.ft.

Therefore:  
 0.216 e. ft. of earth @ 0.20  
 0.077 e. ft. of rock @ 2.50

0.0432  
 0.1925 ✓  
 0.2357 ✓

Say \$0.24

34.39 ft. of trenching @ 0.24  
 36.12 ft. of 1/2" pipe = 72.24 # @ 0.05  
 Undoing & replacing sidewalk @  
 1 1/2" nozzle  
 1 Stop cock.  
 1 Box complete. @  
 Laying service @

\$25	8.25
3.61	3.61
0.10 ✓	0.10
0.275 ✓	0.275
1.30 ✓	1.30
1.40 ✓	1.40
0.55 ✓	0.55
<del>12.55</del>	15.48 ✓
15.48	

34.39	Back filling	1.4195	1.719
		<del>0.05</del>	0.343
34.39	Bracing - @.01	0.2439	17.547
	Brought forward	15.485	
	Supt. time keeping, blacksmithing	<del>15.535</del>	0.877
	General office expenses, Contingencies		
	used tools etc 5%	0.776	
		18.361	18.424
	Contractors profit 10%	1.626	1.842
	Say <del>17.89</del> 17.94	<del>17.897</del>	20.266
		17.947	

Boston & Caliquette  
Double

115 Double services  
Average length of service = 34.98 ft.  
" " " trenches = 27.07 ft.  
Average depth of earth = 3.20 ft.  
" " " rock = 1.80 ft.  
5.00 ft.  
trenching the same as for the single services.

27.07 ft. of trenching	@ 0.24	6.50	6.50
30.98 ft. of 5" pipe = 9294#	@ 0.05	4.65	4.65
8 ft. of 2" pipe = 16#	@ 0.05	0.80	0.80
Mud on & replacing sidewalk @		0.10	0.10
1 5/8" nozzle.		0.45	0.45
1 3 way stop cock.		1.30	1.30
1 Box Complete		1.40	1.40
27.07 Back filling		0.87	1.35
27.07 Laying service		0.60	0.60
27.07 Bracing @.01		0.27	0.27
Supt. time keeping, etc. general office expenses,			17.42
Contingencies used tools etc 5%		0.77	0.87
		18.29	18.29
Contractors profit 10%		1.83	1.83
		20.12	20.12
		<del>18.30</del>	

Boston & Caliquette  
Special

1 Special service 2" pipe 38'-0" long.  
at Milk factory.  
trenching 6" wider or in plus.  
3.20 x 0.5 = 1.60 <sup>eff</sup> 2 0.05 <sup>eff</sup> 9 <sup>eff</sup> d. in plus - earth  
Rock 1.80 x 0.5 = 0.90 <sup>eff</sup> = 0.033 " " " " " " Rock

or earth - 0.216 c yds. ✓  
 in addition earth 0.059 ✓  
 Total earth = 0.275 ✓  
 Rock = 0.077 c yds.  
 in addition " = 0.033  
 0.110 c yds

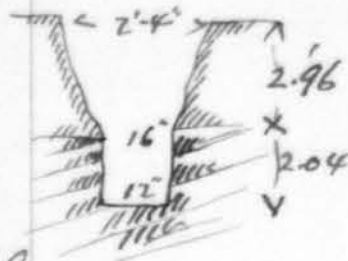
Therefore

0.275 C yds. earth excavation @ 20	\$ 0.055 ✓	
0.110 " " rock " @ 25	0.275 ✓	
	<u>\$ 0.330</u>	
38'-0" of trenching.	@ 0.33	<del>12.54</del> ✓ 12.54
38'-0" of 2" galv. iron pipe.	@ 0.20	7.60 ✓ 7.60
1- 2" galv. iron nipple.	@ 0.20	0.20 ✓ 0.20
1- 2" stop cock with rod	@ 2.25	2.25 ✓ 2.25
Undoing & replacing sidewalk.		0.10 ✓ 0.10
1 4" T 125#	@ 0.0275	3.43 ✓ 3.43
1 4" sleeve 55#		
1- 4" plug 10" / 65"	@ 0.0275	1.10 ✓ 1.10
Tapping & heading plug.		0.50 ✓ 0.50
Making connection with main pipes		2.00 ✓ 2.00
Lead gam of fuel		1.70 ✓ 1.70
Laying concrete		2.00 ✓ 2.00
38' Bag complet		1.90 ✓ 1.90
38' Bracing	@ 0.01	1.40 ✓ 1.40
Supp. time Repairing etc. General office expenses, Contingencies, unexp. etc 5%		0.38 ✓ 0.38
		<u>37.78</u>
		1.773 ✓ 1.773
		<u>39.67</u>
Contractors profit 10%		3.96 ✓ 3.96
		<u>43.63</u>
		<del>41.059</del>
Day		<u>42.06</u>

Boston Water Dept  
Single services

## St. Urbain St.

13 Single services of an average length = 34.61  
 average length of trench = 34.61  
 Average depth of earth = 2.96 ft.  
 " " " rock = 2.04 ft.  
 5'00 ft.



$2.96 \text{ earth} = \frac{2.33}{1.33} \times 2.96 = 5.4168 = 0.20 \text{ cfd.}$   
 $2.04 \text{ Rock} = \frac{1.33}{1.165} \times 2.04 = 2.3766 = 0.088 \text{ cfd.}$

Therefore.

0.20 cfd. earth etc.	@ 0.20	\$0.04	
0.088 " rock "	@ 2.50	0.22	
		<u>\$0.26</u>	
34.61 ft. of trenching	@ 0.26	9.00	9.00
34.61 ft. of 1/2" pipe = 69.22	@ 0.05	3.46	3.46
Undoing & replacing sidewalk		0.10	0.10
1 1/2" nozzle		0.275	0.2750
1 1/2" stop cock		0.750	0.750
1 Box Complete		1.40	1.40
34.61 Back filling -		0.55	1.4305
34.61 laying service		0.55	0.55
34.61 Bracing	@ 0.01	\$15.585	0.3461
Contingencies, Dist. time keeping,			\$ 17.5616
use of tools, general office expenses 5%		0.779	0.88
		<u>16.764</u>	18.49
Contractor profit 10%		1.636	1.85
		<u>\$18.000</u>	20.34

Boston Water Dept  
Double

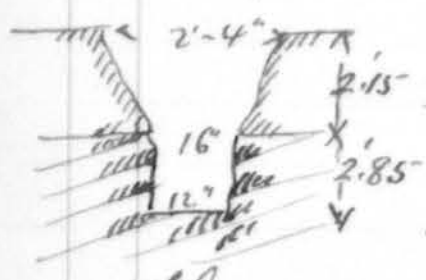
19 Double  
 average length of service = 33.47.  
 " " " trench = 29.95.  
 trenching same as  
 for single  
 as follows -

29.95 ft. of trenching	@ .26	7.79 ✓	7.79
28.47 ft. of 5" pipe = 85.41 #	@ .05	4.27 ✓	4.27
10 ft. of 1/2" " = 16 #	@ .05	1.00 ✓	1.00
Undoing & replacing sidewalk		0.10 ✓	0.10
1- 5" nozzle.		0.45 ✓	0.45
1- 3 way stopcock.		1.30 ✓	0.30
1 Box Complete.		1.40 ✓	1.40
29.95 Backfilling.		2.05 ✓	1.4975
29.95 Laying service		0.60 ✓	0.60
29.95 Braising @ .01.		0.2995 ✓	0.2995
Suppl. time keeping etc. Contingencies			17.7070
use of tools, fuel oil etc. 5%		0.848 ✓	0.848
		<del>17.808</del>	18.5970
Contractor profit 10%		<del>1.780</del>	1.86
Say = <del>19.30</del> 19.58		<del>19.290</del>	20.45
		19.588	

Boston Waterworks  
Sump

## Waverly St.

18 Sings.  
 average length of service = 35.55  
 " " " trench = 35.55  
 average depth earth = 2.15 ft.  
 " " " rock = 2.85 ft.  
 " " " " = 5.00 ft.



earth  $\frac{2.33}{1.33} \times 2.15 = 3.66$  e-ft. c.7d.  
 $1.83 \times 2.15 = 3.9345 \approx 0.145$  ✓  
 Rock  $\frac{1.33}{1.33} \times 2.85 = 3.32$  e-ft. c.7d.  
 $1.165 \times 2.85 = 3.32 \approx 0.122$

Therefore.  
 0.145 c.7d. of earth work @ .20 = 0.029 ✓  
 0.122 " " " rock " @ .25 = 0.0305 ✓  
 \$ 0.334 ✓

35.55 ft. of trenching	# @ .334	11.87 ✓
35.55 ft. of 1/2" pipe = 71.10	@ .05	3.55 ✓
Undoing & replacing sidewalk		0.10 ✓
Carnet order		15.52 ✓

Brought forward.		\$15.52	15.52
1 1/2" Nozzle -		0.295	0.295
1 1/2" stop Cock.		0.750	0.750
1 Box Complete Black filling -		1.40	1.40
35.55 Laying service		2.05	1.7890
35.55 Bracing @ 0.01.		2.55	0.35
Supt. time Keeping etc Contingencies,		18.545	0.35
use of tools, general office expenses etc. 5%			20.62
Contractors profit 10%		0.927	1.03
Total		\$49.469	21.65
		4.946	2.16
		\$24.463	23.81

Boston  
 Valiquette  
 Double

11 Double services.  
 Average length of service = 36.09 ft.  
 " " " " " " " " " " " " = 35.50  
 trenching same as for single service

35.5 ft. of trenching	@ 0.334	\$11.85	11.85
32.09 ft. of 5/8" pipe = 96.27 #	@ 0.05	4.81	4.81
8 ft of 1/2" pipe = 16 #	@ 0.05	0.80	0.80
Undoing & replacing sidewalk		0.10	0.10
1 5/8" Nozzle	@	0.45	0.45
1 3 way stop Cock	@	1.30	1.30
1 Box Complete Black filling -		1.40	1.40
35.5 Laying service		2.05	1.795
35.5 Bracing @ 0.01		2.55	0.60
Supt. time Keeping, etc Contingencies,		21.36	0.355
use of tools, general office expenses. 5%			23.440
Contractors profit 10%		1.068	1.17
		22.428	24.61
		2.242	2.46
		\$24.670	27.07

Boston & Valiquette  
Singles

St. George St.

3 Singles -

Average length of service = 33.33 ft

" " " trench = 33.33 "

Average depth of earth = 2.58 ft

" " " rock = 2.42 "



$$\text{Earth } \frac{2.33}{1.33} \times 2.58 = 4.72 = 0.174 \text{ cfd.}$$

$$\text{Rock } \frac{1.33}{1.165} \times 2.42 = 2.82 = 0.104 \text{ cfd.}$$

Therefore.

0.174 c. yds. earth excavation @ 0.20	\$ 0.0348 ✓
0.104 " " rock " @ 2.50	0.26 ✓
Trenching.	<u>\$ 0.2948 ✓</u>

33.33 ft. of trenching	@ 0.29	\$ 9.66 ✓	9.66
33.33 ft. of 1/2" pipe = 66.66'	@ 0.05	3.33 ✓	3.33
Undoing & replacing sidewalk	@	0.10 ✓	0.10
1 1/2" nozzle	@	0.275 ✓	0.275
1 1/2" stop cock	@	0.75 ✓	0.75
1 Day Complete	@	1.40 ✓	1.40
33.33 Paving	@ 0.05	1.67 ✓	1.67
33.33 Bracing	@ 0.01	0.33 ✓	0.33
Jawal piece of pipe, time keeping, Sept.			
Contingency, use of tools etc 5%		0.805 ✓	0.9032
		<u>16.920</u>	18.9680
Contractor profit 10%		1.894 ✓	1.894
		<u>\$ 18.615 ✓</u>	20.862

Boston & Valiquette  
Doubles

1 1/2" Double.

average length of service = 35.47 ft.

" " " trench = 29.35 ft.

trench same price as for singles -

29.35 ft. of trench	@ 0.29	\$ 8.51	✓	8.51
31.44 ft. of 5" pipe = 94.41#	@ 0.05	4.72	✓	4.72
8 ft. of 2" pipe = 16#	@ 0.05	0.80	✓	0.80
Undoing & replacing sidewalk	@	0.10	✓	0.10
1 5/8" nozzle	@	0.45	✓	0.45
1 3way stopcock	@	1.30	✓	1.30
1 Box Complete	@	1.40	✓	1.40
29.38 Sheet piling	@ 0.05	1.4675	✓	1.4675
29.35 Faying service	@ 0.02	0.60	✓	0.60
29.35 Pracing	@ 0.01	0.2935	✓	0.2935
Supt time Keeping, etc. Contingencies, use of tools, guard office expenses etc.		\$ 19.6410		\$ 19.6410
		0.982		0.982
		18.876	✓	20.623
Contractors profit 10%		4.887	✓	2.06
<u>Total =</u>		<u>\$ 20708</u>	✓	<u>\$ 22.68</u>

1 Special 2" galv. iron service to  
Fairmont School -

Length = 33 ft.

renching 33 ft. long & would be 6" wider  
than for lead service, consequently by adding  
on the contents of the additional 6" we have  
earth =  $2.58 \times 0.55 = 1.29$  c.ft. = 0.047 c.yd. ✓

Rock =  $2.42 \times 0.55 = 1.21$  c.ft. = 0.044 " ✓

Therefore total trenching

= earth = 0.174 c.yd. ✓

addition =  $\frac{0.047}{0.221}$  c.yd. ✓

Rock = 0.104 c.yd.

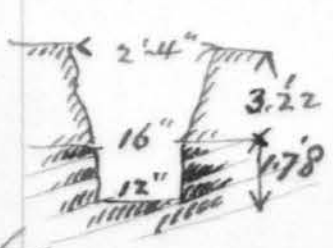
addition =  $\frac{0.044}{0.148}$  c.yd.

Therefore -

✓ 0.221 c.yds. of earth @ 2.00	\$ 0.442	✓
0.148 " " " rock " @ 2.50	0.370	
Trenching =	<del>0.410</del>	
	0.410	



Boston & Albany Special	33 ft. of trenching	@ 0.41	<del>13.53</del>	13.53
	33 ft. of 2" galv. iron pipe	@ 0.20	6.60	6.60
	1- 2" galv. iron supply -	@ 0.20	0.20	0.20
	1 2" stop cock + rod.	C	2.25	2.25
	Undoing & replacing sidewalk		<del>0.10</del>	0.10
	1 6" x 6" x 4" T @ 185#			
	1- 4" plug C 10"			
	1- 6" sleeve @ 85#			
	3% dev. - $\frac{280}{18} = 15.55$		<del>7.92</del>	7.92
	$\frac{288}{18} = 16$	@ 0.0274	<del>13.15</del>	
	tapping & threading 4" plug		<del>0.50</del>	0.50
	Making connection with main pipe -		<del>2.50</del>	2.50
	Lead for fuel		<del>2.80</del>	2.80
	Laying service		<del>2.00</del>	2.00
	33 Backfilling		<del>1.65</del>	1.65
33 Day Complete		<del>1.40</del>	1.40	
33 Working	@ 0.01	<del>4.33</del>	0.33	
Supt. time keeping, etc Contingencies,		<del>37.81</del>	41.78	
use of tools, general office expenses @ 5%		<del>2.36</del>	2.09	
		<del>47.59</del>	43.87	
Contractors profit 10%		<del>4.75</del>	4.38	
Total		<del>52.35</del>	48.26	

Boston & Albany Single	<u>Mance St.</u>			
	20 Single services.			
	average length = 30.50 ft			
	" " of trench = 28.90 ft			
	Average depth of earth = 3.22 ft			
	" " " " rock = 1.78 "			
	5.00 ft			
		earth	$\frac{2.33}{1.33} = 1.75$	e. ft. C. rd.
		Rock	$\frac{1.03}{1.165} = 0.88$	e. ft. C. rd.
	Therefore	0.218 C. rd. earth		
	0.076 " " rock			
	Trenching =	0.0436	✓	
		0.19	✓	
		0.2336	✓	

28.90 ft. of trenching.	@ 0.23	<del>6.647</del> ✓	6.647
30.50 ft. of 1/2" pipe = 61.00	@ 0.05	<del>3.050</del> ✓	3.050
Undoing & replacing sidewalk		0.10	0.10
1 1/2" nozzle	@	<del>0.275</del>	0.275
1 1/2" stop cock	@	0.75	0.75
1 Bay Complete	@	1.40	1.40
28.90 Back filling		<del>0.55</del>	1.445
laying service		0.55	0.55
28.90 Oracing	@ .01	<del>0.289</del>	0.289
Contingencies, use of tools Gen. office			14.506
Suppl. time keeping etc 5%		<del>0.725</del> ✓	0.725
		<del>12.462</del> ✓	15.231
Contractors profit 10%		<del>1.523</del>	1.523
		<del>14.99</del> ✓	16.754

1 Paotey & Valiquette Double

14 Double -  
 Average length of service = 32.28 ft.  
 " " " trench = 32.28 ft.  
 " trenching same price as for single.

32.28 ft. of trenching	@ 0.23	<del>7.42</del> ✓	7.42
28.28 ft. of 5/8" pipe = 84.84	@ 0.05	<del>4.24</del> ✓	4.24
8 ft. of 1/2" pipe = 16	@ 0.05	0.80 ✓	0.80
Undoing & replacing sidewalk		0.10 ✓	0.10
1 5/8" nozzle	@	<del>0.42</del> ✓	0.42
1 3Way Stop Cock.	@	1.20 ✓	1.20
1 Bay Complete	@	1.40 ✓	1.40
32.28 Back filling		<del>0.60</del>	1.614
laying service		0.60	0.60
32.28 Oracing	@ 0.01	<del>0.3228</del>	0.3228
Suppl. time keeping etc. Contingencies,			17.2468
use of tools, general office expenses etc 5%		<del>0.8180</del>	0.9123
		<del>17.1780</del> ✓	19.1591
Contractors profit 10%		<del>1.9159</del>	1.9159
Total =		<del>18.8380</del> ✓	21.0750
		<del>18.8958</del>	

say \$ 18.90

Park Ave-

Trench

22 Trenches made by Corporation  
 Average length = 40 ft.  
 Average depth of earth = 2.42 ft.  
 " " " rock = 2.58 ft.  
 5.00 ft.



earth  $\frac{2.33}{1.73} \times 2.42 = 4.4286 = 0.164$  c.yd.  
 Rock  $\frac{1.33}{1.73} \times 2.58 = 3.00 = 0.111$  c.yd.

Therefore.

0.164 c.yd. earth trenching @ 0.20	\$0.0328	✓
0.111 " " rock " @ 2.50	0.2775	✓
	<u>\$0.3103</u>	✓
40 ft. of trenching @ 0.31	\$12.40	✓
Pracuing.	0.01	✓
Sup't time keeping, contingencies, use of tools, general office expenses 5%	12.41	✓
	0.62	
	<u>\$13.03</u>	✓

2 Single services.

average length of service = 41.5 ft.  
 " " trench = 41.5 ft.  
 Trenching same as above.

Backin & Halpnette Single

41.5 ft. of trenching @ 0.31	\$12.865	✓	12.865
41.5 ft. of 2" lead pipe = 83.0' @ 0.05	4.15	✓	4.15
Widening & replacing sidewalk	0.10	✓	0.10
1 1/2" nozzle @	0.275	✓	0.275
1 1/2" stop cock.	0.750	✓	0.750
1 Box complete.	1.40	✓	1.40
41.5 Back filler - laying service.	2.075	✓	2.075
41.5 Pricing @ 0.01	0.550	✓	0.550
Contingencies, sup't time keeping etc	0.415	✓	0.415
use of tools, general office expenses 5%	22.580	✓	22.580
Contractors profit 10%	1.13	✓	1.13
	23.71	✓	23.71
	2.87	✓	2.87
<b>Total</b>	<b>\$26.08</b>		<b>\$26.08</b>

## Beaudry St.

*Trench*

1 trench made by Corporation = 20 ft. long.  
 Average depth of earth = 2.65 ft  
 " " " " rock = 2.35 ft  
 " " " " " = 5.00



Earth  $\frac{2.33}{1.33} \times 2.65 = 4.8495 = 0.179$  c.ft. c.yds.  
 Rock  $\frac{1.33}{2.33} \times 2.35 = 2.73775 = 0.101$  c.ft. c.yds.

Therefore,

0.179 c. yd. of earth @ 2.00	0.0358
0.101 " " " rock " @ 2.50	0.2521
	<u>\$0.2883</u>

20 ft. trench	@ 0.2783	5.766
Bracing		0.01
		<u>5.776</u>

Contingencies, use of tools, general office expenses, Supt. time Keeping etc 5%  
 Total \$6.064

*Booster & Valignette Double*

1 Double service 23'0" long.  
 trenching same as above

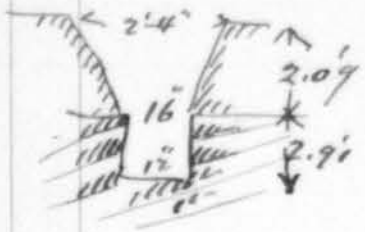
20 ft. trenching	@ 0.2883	6.63	✓	6.63
19 ft. of 5" pipe = 57'	@ 0.05	2.85	✓	2.85
8 ft. of 2" " = 16'	@ 0.05	0.80	✓	0.80
Removing & replacing sidewalk		0.10	✓	0.10
1 5" nozzle		0.45	✓	0.45
1 3way stop cock		1.30	✓	1.30
1 Box completely		1.40	✓	1.40
23 Backfilling		0.05		1.15
laying service		0.60		0.60
23 Bracing	@ 0.01	13.95		0.23
				<u>15.51</u>

Supt. time Keeping etc. use of tools, general office expenses, Contingencies etc 5%  
 Contractor profit 10%  
 Total = \$17.91

Barton & Halimault  
Single

Hutchison St.

2 Single services.  
 average length of service = 33'  
 " " " trench = 33'  
 Average depth of earth = 2.09 ft.  
 " " " rock = 2.91 ft.  
 5.00 ft.



Earth  $\frac{1.33}{2.33} \times 3.66 = 1.83 \times 2.09 = 3.8247 = 0.141$  c.ft. c.yd.  
 Rock  $\frac{1.33}{2.33} \times 1.165 \times 2.91 = 3.3952 = 0.126$  c.ft. c.yd.

Therefore.

0.141 Cyds. earth excavation	@ 0.20	\$ 0.028	
0.121 " " rock	@ 2.50	0.305	
	Trenching	\$ 0.343	
33' of trenching	@ 0.34	\$ 10.87	11.22
33' of Backfilling.	@ 0.05	1.65	1.65
Undoing & replacing sidewalk		0.10	0.10
33' of 2" pipe = 66'	@ 0.05	3.30	3.30
1 2" nozzle	@	0.275	0.275
1 2" stopcock.	@	0.75	0.75
1 Box complete -	@	1.40	1.40
33' of Bracing -	@ 0.01	0.33	0.33
laying		0.55	0.55
		\$ 19.945	\$ 19.575
Supt. time Keeping, etc. General office expenses, use of tools, Contingencies etc 5%		0.975	0.978
		19.344	20.553
Contractors profit 10%		1.934	2.055
Total -		\$ 21.272	\$ 22.608

Barton & Halimault  
Double

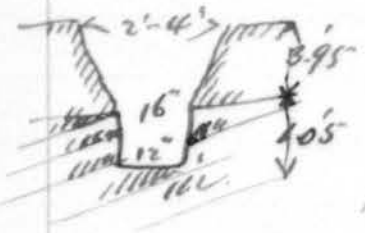
3 Doubles  
 average length of service = 29.33  
 " " " trench = 19.33  
 Trenching same as  
 above

19.33 ft. of trenching	@ 0.34	<del>6.378</del>	6.57
19.33 ft. of backfilling	@ 0.05	<del>0.966</del>	0.966
Undoing & replacing sidewalk		<del>0.10</del>	0.10
25.33 ft. of $\frac{3}{8}$ " pipe = 75.99'	@ 0.05	<del>2.799</del>	3.799
8 ft. of $\frac{1}{2}$ " " = 16'	@ 0.05	<del>0.80</del>	0.80
1 $\frac{5}{8}$ " nozzle	C	<del>0.45</del>	0.45
1 3 way stopcock	C	<del>1.30</del>	1.30
1 Box Complete		<del>1.40</del>	1.40
19.33 ft. of laying	@ 0.01	<del>0.193</del>	0.193
		<del>0.60</del>	0.60
		<del>15.998</del>	16.178
Supst. time Keeping etc. use of tools, General office repairs, Contingencies etc 5%		<del>0.799</del>	0.809
		<del>16.789</del>	16.987
Contractors profit 10%		<del>1.678</del>	1.698
<b>Total =</b>		<del>18.467</del>	18.685

Trenches

Albina.

10 Trenches made by Co-operation -  
 average length = 12.50  
 average depth of earth = 3.95 ft.  
 " " " rock = 1.05 ft.  
 5.00 ft.



Earth  $\frac{1.33}{1.33} \times 3.95 = 5.2535 = 0.267$  c-yd.  
 Rock  $\frac{1.33}{1.33} \times 1.05 = 1.223 = 0.045$  c-yd.

Therefore.

0.267 c-yd. of earth @ 0.20 = 0.0534 ✓  
 0.045 " " rock " @ 2.50 = 0.1125 ✓

12.5 ft. of trench @ 0.1659 = 2.07 ✓  
 12.5 ft. Backfilling = 0.62 ✓  
 2.69 ✓

Supst. time Keeping, Contingencies, general  
 office & repairs etc. use of tools 5% = 0.10  
**Total = 2.79 ✓**

De Gaspé

Trenches

15 Trenches made by Corporation -  
 average length = 25 ft.  
 average depth of earth = 1.60 ft.  
 " " " rock = 3.40 ft.  
 5.00 ft.



earth  $\frac{2.33}{1.33} \times 1.60 = 2.928 = 0.108$  c.ft. c.yd.  
 Rock  $\frac{1.33}{2.33} \times 3.40 = 3.96 = 0.146$  c.ft. c.yd.

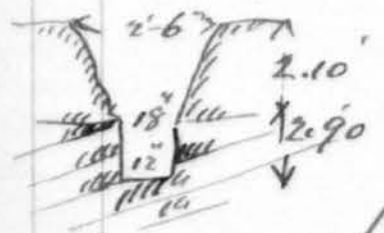
Therefore:

0.108 c.yd. earth excavation	@ 0.20	\$0.0216
0.146 " " rock	@ 2.50	0.365
		<u>\$0.3866</u>
25 ft. of trenching	@ 0.3866	\$9.66
25 ft. of Bracony.	@ 0.01	.25
		<u>9.91</u>
Subst. min. Keeping etc. use of tools, Contingencies, contingencies general Office expenses etc 5%		0.495
		<u>\$10.405</u>

Casgrain St.

Trenches

16 Trenches made by Corporation.  
 average length = 30 ft.  
 average depth of earth = 2.10 ft.  
 " " " rock = 2.90 ft.  
 5.00 ft.



earth  $\frac{2.5}{1.5} \times 2.10 = 4.20 = 0.155$  c.ft. c.yd.  
 Rock  $\frac{1.5}{2.5} \times 2.90 = 3.625 = 0.134$  c.ft. c.yd.

Therefore:

0.155 c.yd. earth excav.	@ 0.20	\$0.031
0.134 " " rock	@ 2.50	0.335
		<u>0.366</u>
		Trenching =

30 ft. of trenching	@ \$0.366	10.98 ✓
30 ft. of Bracing	@ 0.01	0.30 ✓
		<hr/> 11.28
Supp. time Keeping etc. use of tools, Contingencies, general office expense 5%		0.56 ✓
<b>Total</b>		<hr/> <b>\$ 11.84 ✓</b>

Boston & Valiquette  
Single

1 Single service.  
Average length of service = 33'  
" " " trench = 33'  
Average depth of earth = 2.18 ft.  
" " " rock = 2.82 ft.  
" " " " = 5.00 "



2.18 earth  $\frac{2.5}{1.5} \times 2.18 = 4.36 = 0.161 \checkmark$  e-ft. C-10  
2.00 x 2.18 = 4.36 = 0.161 ✓  
Rock  $\frac{1.5}{1.25} \times 2.82 = 3.525 = 0.131$  e-ft. C-10

Therefore.

0.161 Cyd. earth year.	@ 0.20	\$ 0.0322 ✓
0.131 <del>0.179</del> rock "	@ 2.50	<del>0.4475</del> 0.3275 ✓
Trenching =		<hr/> <b>\$ 0.3597</b>

33' of trenching	@ 0.3597	11.87
33' of backfilling	@ 0.05	1.65 ✓
33' of bracing.	@ 0.01	0.33 ✓
in doing & replacing sidewalk		0.10
33 ft. of 2" pipe = 66 lbs.	@ 0.05	3.30 ✓
1 1/2" nozzle	@	0.275 ✓
1 1/2" stop cock.		0.75 ✓
1 Box complete.		1.40
laying service		0.55
		<hr/> 20.225

Supp. time Keeping, etc. use of tools, contingencies general office expense, etc. 5%		1.002
		<hr/> 21.227
Contractor profit 10%		2.122
<b>Total</b>		<hr/> <b>\$ 23.349</b>



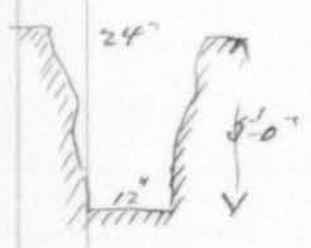


25 ft. of trenching	@ 0.220	<del>5.50</del>	5.50
25 ft. of Bracing	@ 0.01	<del>0.25</del>	- 25
		\$ 5.375	✓ 5.75
Supt. time Keeping, etc. use of tools, Contingencies, general office expenses @ 5%		0.268	✓ .29
Total =		\$ 5.643	✓ 6.04

Villeneuve.

Trenches

12 Trenches made by Corporation  
 average length = 21.88 ft.  
 average depth of earth = 5 ft.  
 no rock.



Cubic yds. per ft. run of trench = 0.277 c yd. ✓

Price for the kind of earth

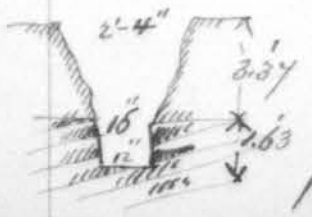
0.277 c yd. of excavation	@ 0.20	0.0554
Supt. time Keeping, etc. general office exp. use of tools, contingencies 5%		0.00275 ✓
		0.05815 ✓
Say 0.06		
21.88 ft. of excavation	@ 0.06	\$ 1.31 ✓
Total		✓

no Bracing

Boulevard.

Trenches

8 Trenches made by Corporation  
 average length of trench = 50 ft.  
 " depth of earth = 3.37 ft.  
 " " " rock = 1.63 ft.  
 " " " " = 5.00 ft.



earth =  $\frac{2.33}{1.33} \times 3.37 = 6.167 = 0.228$  c yds. ✓  
 Rock =  $\frac{1.33}{1.165} \times 1.63 = 1.8989 = 0.07$  c yds. ✓

Therefore.  
 0.228 C.yds. of earth excav. @ 0.20 = 0.0456 ✓  
 0.07 " " " rock " @ 2.50 = 0.175 ✓  
 Trenching = 0.2206 ✓

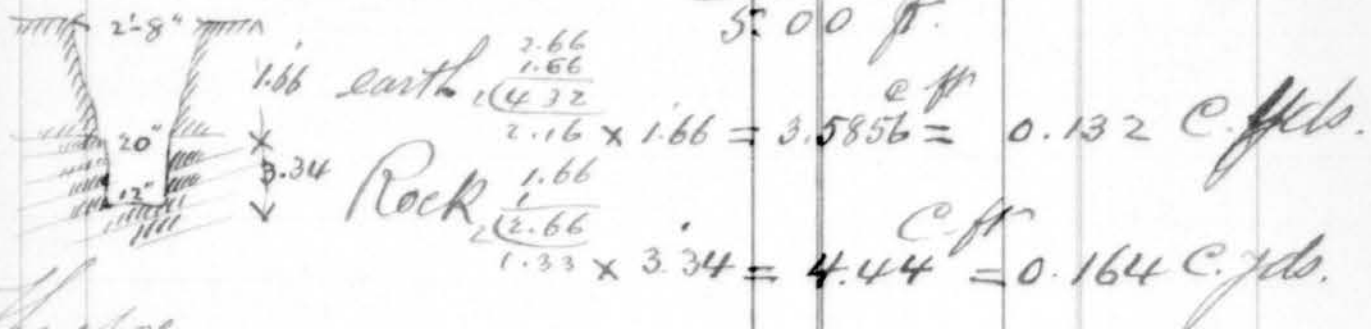
50 ft. of trenching @ 0.22 = 11.00 ✓  
~~50 ft. of backfilling @ 0.05 = 2.50~~  
 50 ft. of bracing @ 0.01 = 0.50 ✓  
 11.50 ✓

Supt. time keeping & te. general office expenses, use of tools etc 5%  
 Total = 0.57 ✓  
 \$ 12.07 ✓

Edouard Charles.

Basin & Calypso  
Doubt.

2 Double services.  
 Average length of service = 26'-0"  
 " " " trench = 26'-0"  
 Average depth of earth = 1.66 ft.  
 " " " rock = 3.34 ft.  
 5.00 ft.



Therefore.  
 0.132 C.yds. of earth excavation @ 0.20 = 0.0264 ✓  
 0.164 " " " rock " @ 2.50 = 0.41 ✓  
 Trenching = 0.4364 ✓

26'-0" ft. of trenching @ 0.4364 = 11.3464 ✓  
 26 ft. of backfilling @ 0.05 = 1.30 ✓  
 26 ft. of bracing @ 0.01 = 0.26 ✓  
 Removing & replacing sidewalk @ 0.10 ✓  
 22 ft. of 3/8" pipe = 66 ft @ 0.05 = 3.30 ✓  
 8 ft. of 1/2" pipe = 16 ft @ 0.05 = 0.80 ✓  
 Carried over = 17.1064 ✓

Brought forward.		\$17,106.4	✓
1 5" nozzle.	@	0.45	✓
1 3way stopcock	@	1.30	✓
1 Box Complete.		1.40	✓
laying service.		0.60	✓
		<hr/> 20.8564	
Supt. time keeping etc. General office expenses, use of tools, Contingencies 5%		1.0428	✓
		<hr/> \$21,899.2	
Contractor profit 10%		2.18	✓
		<hr/> \$24,079.2	
Say \$24.08			✓

St. Louis.

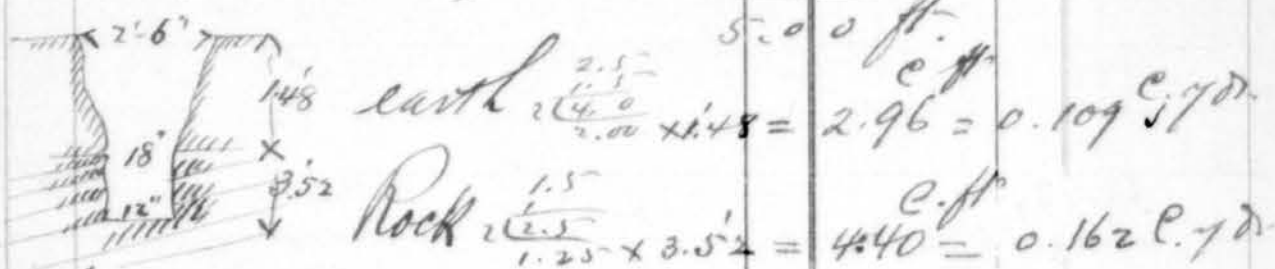
Trenches

19 Trenches made by Corporation.

Average length of trenches = 22.53 ft.

" depth of earth = 1.48 ft

" " " rock = 3.52



Therefore.

0.109 c. ft. of earth excav.	@ \$2.20	\$0.2418	✓
0.162 " " " rock "	@ \$2.50	0.405	✓
		<hr/> \$0.4268	✓
22.53 ft. of trenching	@ \$0.4268	9.6158	✓
22.53 ft. of tracing	@ 0.01	0.2253	✓
		<hr/> 9.8411	✓

Supt. time keeping, etc. general office exp. Contingencies, use of tools etc 5%

Say \$10.33

0.442	
<hr/> 10.3331	✓

Boston & Albany  
Double

Double services -  
 Average length of service = 42.12 ft.  
 " " " trench = 31.62 ft.  
 Average depth of earth = 2.17 ft.  
 " " " rock = 2.83



5.00 ft.  
 earth  $\frac{2.5}{1.1} \times 2.17 = 4.34 = 0.16$  c.ft.  $\sqrt{10}$   
 Rock  $\frac{1.5}{1.25} \times 2.83 = 3.5375 = 0.131$  c.ft.  $\sqrt{10}$

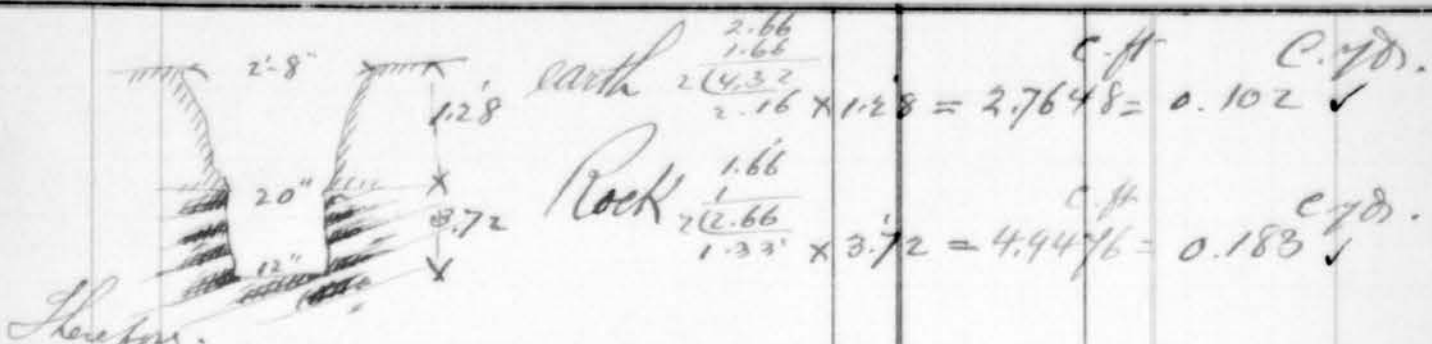
Therefore.

0.16 c.yd. of earth @ 200	\$0.032
0.131 " of rock " @ 250	0.3275
	<u>\$0.3595</u>
31.62 ft. of trenching @ 0.3595	\$11.367
31.62 ft. of backfilling @ 200	1.581
31.62 ft. of bracing @ 0.01	0.316
Removing & replacing sidewalk @	0.10
1 $\frac{5}{8}$ " nozzle @	0.45
1 3way stopcock @	1.30
1 Box Complete @	1.40
Laying service	0.60
	<u>\$17.114</u>
Supt. time keeping, etc. general office expenses, Contingencies, cost of tools etc 5%	0.855
	<u>\$17.969</u>
Contractor profit 10%	1.796
<b>Total =</b>	<u><b>\$19.765</b></u>

Boston & Albany  
Single

Fairmount St.

4 Single services -  
 Average length of service = 27.75 ft.  
 " " " trench = 27.75 ft.  
 Average depth of earth excar. = 1.28 ft.  
 " " " rock " = 3.72 ft.  
 " " " " " = 5.00



Therefore.		
0.102 Cyds. of earth excavation	@ 0.20	0.0204
0.183 " " rock	@ 2.50	0.4575 ✓
Trenching	=	0.4779 ✓
27.75 ft. of trenching	@ 0.4779	13.2617 ✓
27.75 ft. of backfilling	@ 0.05	1.3875 ✓
27.75 ft. of bracing	0.01	.2775 ✓
Undoing & replacing sidewalk.		0.10 ✓
1 1/2" nozzle.		0.275 ✓
1 1/2" stopcock.		0.250 ✓
1 Box Complete		1.400 ✓
laying sewer.		0.550 ✓
		<u>18.0017 ✓</u>
Suppl. time keeping the use of tools from office expenses, contingents etc 5%		0.90
		<u>18.90 ✓</u>
Contractor profit 10%		1.89
Total	=	<u>20.79 ✓</u>

Boston Waterworks Double

6 Doubles.  
Average length of services . 34.66 ft.  
" " " trench = 24 ft.  
Trench same as for singles

24 ft. of trench	@ 0.4779	11.4696 ✓
24 ft. of backfilling	@ 0.05	1.200 ✓
24 ft. of bracing	0.01	0.24 ✓
Undoing & replacing sidewalk.		0.10 ✓
1 5/8" nozzle.		0.45 ✓
1 3way stopcock.		1.30 ✓
Carried over =		<u>14.7596 ✓</u>

Baird & Helgrette  
Special

Brought forward.	\$14.7596	✓
1 Bag Complete.	1.40	✓
Laying service.	0.60	
	<u>\$16.7596</u>	✓
Supt. time Keeping, etc. General office expenses, use of tools, Contingencies etc. - 5%	0.8379	✓
	<u>17.5975</u>	
Contractor profit. 10%	1.7597	
<b>Total</b>	<b>\$19.3572</b>	✓

Special service at Picards - length = 201' 1" galv. iron pipe. trenching same as for single & double service.

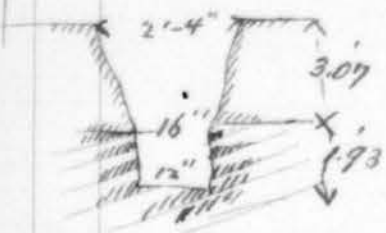
201 ft. trenching	@ 0.0779	\$15.6579	✓
201 ft. of back filling	@ 0.05	10.05	✓
201 ft. of bracing	@ 0.01	2.01	✓
thinning & replacing sidewalk		0.10	✓
1 6x6x4 Tc 185 <sup>th</sup>			
1 4" plug @ 10 <sup>th</sup>			
1-6' sleeve @ $\frac{85^{th}}{280^{th}}$ @ 0.0274		7.70	✓
threading plug		0.50	✓
201 ft. galv. 1" W.D. pipe	@ 0.07	14.07	✓
1 1" stopcock & rod	@	1.00	✓
1 Bag Complete		1.40	✓
Laying service & inserting T		5.00	✓
Lead yarn & fuel		2.75	✓
		<u>140.6379</u>	

Supt. time keeping, etc. use of tools, Contingencies, general office expenses, etc. 2% (on dp of long length)	2.81	
	<u>143.4479</u>	✓
Contractor profit 10%	14.3447	✓
<b>Say</b>	<b>\$157.7926</b>	✓
	<del>\$169.00</del>	

1 Paillon & Lalonde  
Trench

St. Eugène.

1 triple service ~~triple~~  
 Length of pipe = 29'-0"  
 " " trench = 29'-0"  
 Average depth of earth = 3.07 ft.  
 " " rock = 1.93 ft.  
 5.00 ft.



$$\text{Earth } \frac{1.33}{1.83} \times 3.07 = 5.6181 = 0.208 \text{ c.ft. e. yd.}$$

$$\text{Rock } \frac{1.33}{1.165} \times 1.93 = 2.248 = 0.083 \text{ c.p. e. yd.}$$

Therefore.

0.208 C. yds. of earth excav.	@ 0.20	\$0.0416 ✓
0.083 " " " rock "	@ 2.50	0.2075
		<u>0.2491</u>
	Say 0.25-	

29 ft. of trenching	@ 0.25	\$7.25 ✓
29 ft. of back filling	@ 0.05	1.45 ✓
29 ft. of bracing	0.01	0.29 ✓
25 ft. of 3" pipe = 75 ft	@ 0.05	3.75 ✓
12 ft. of 1 1/2" pipe = 24 ft	@ 0.05	1.20 ✓
1 5/8" nozzle	@	0.45 ✓
1 3 Way Y	@	0.65 ✓
3 1/2" stop cocks	@ 0.75	2.25 ✓
3 Boxes Complete.	@ 1.40	4.20 ✓
Laying services	@	0.70 ✓
		<u>\$22.19 ✓</u>

Supt. time keeping etc. Contingencies,  
 use of floats, general office expenses 5% 1.105  
 Contractor's profit 10% 2.329  
Total \$25.624



Baskin & Nabzqueta  
Special

1 Special service  
galv. iron of 1" diameter  
length of service 38'-9"  
Same trenching as for lead service

38.75 ft. of trenching	@ 0.25	\$ 9.6875	✓
38.75 ft. of backfilling	@ 0.05	1.9375	✓
38.75 ft. of bracing	0.01	0.3875	✓
38.75 ft. of 1" galv. iron pipe	@ 0.07	2.7125	✓
1 1" galv. iron nipple	@ 0.07	0.0700	
1 1" Stop Cocks rod	@	1.0000	
1 Box Complete -	@	1.40	
laying service	@	0.75	✓
Underlaying & relaying sidewalk	@	0.10	
		<u>\$ 18.0450</u>	✓

Supst. timekeeping, etc, General office expenses,  
Contingencies, use of tools etc. 5%

0.902 ✓

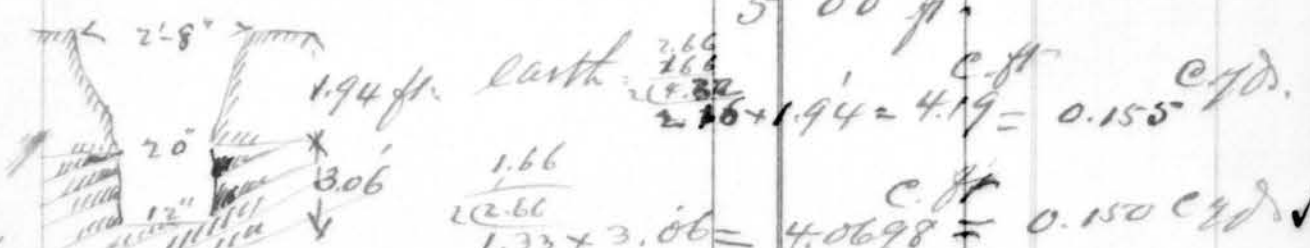
Contractors profit 10%  
Total =

18.947  
1.894  
\$ 20.841 ✓

Baskin & Nabzqueta  
Double

Young St.

12 Doubles -  
Average length of service = 33.69 ft  
" " trench = 30.86 ft.  
Average depth of earth = 1.94 ft.  
" " rock = 3.06 ft.  
5' 00 ft.



Therefore:

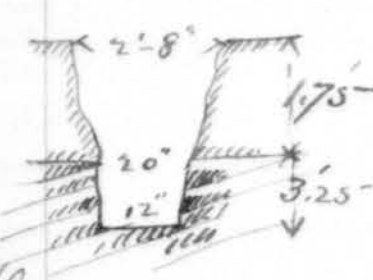
0.155 c.yds of earth excavation	@ 0.20	\$ 0.03	✓
0.150 " " rock	@ 2.50	0.375	✓
trenching		<u>\$ 0.405</u>	✓

30.85 ft. of trenching	0.405	\$12.49	✓
39.69 ft. of 5/8 pipe = 89.07 ft	@ .05	4.45	✓
8 ft. of 1/2" " = 16 ft	@ .05	0.80	✓
30.85 ft. of backfilling	@ .05	1.54	✓
30.85 ft. of bracing	0.01	.30	✓
Whiding & replacing sidewalk		0.10	✓
1 5/8 nozzle		0.45	✓
1 3Way stop Cock.		1.30	✓
1 Poly Complete		1.40	✓
Laying service		0.60	✓
		<u>\$23.43</u>	✓
Suppl. time keeping str. Javeral office			
expenses, use of tools Contingents to 5%		1.17	✓
		<u>24.60</u>	✓
Contractors profit 10%		2.46	✓
<u>Total</u>		<u>\$27.06</u>	✓

Maquie.

Cachim & Lalymette  
Double

4 Double services.  
 average length of service = 32 ft.  
 " " " trench = 32 "  
 average depth of earth = 1.75 ft  
 " " " rock = 3.25 "



5.00 ft.  
 2.66  
 1.66  
4.32  
 2.16 x 1.75 = 3.78 = 0.14 c-yds. ✓  
 1.66  
2.66  
 1.33 x 3.25 = 4.32 = 0.16 c-yds. ✓

Therefore 0.14 c-yds of earth excav @ .40 0.028 ✓  
 0.16 c-yds of rock excav. @ 2.50 0.40 ✓  
 Trench = \$0.428 ✓

32 ft. of trenching	@ 0.428	\$13.696	✓
32 ft. of backfilling	@ 0.05	1.600	✓
32 ft. of bracing	@ 0.01	0.32	✓
Undoing & replacing sidewalk	@	0.10	
28 ft. of 5/8" pipe = 84#	@ 0.05	4.20	✓
8 ft. of 1/2" " = 16#	@ 0.05	0.80	✓
1 5/8" nozzle	@	0.45	✓
1 3Way Stopcock.	@	1.30	✓
1 Box Complete.	@	1.40	✓
laying service.		0.60	✓
		<u>\$24.466</u>	✓

Supt. time keeping etc. general office expenses  
use of tools, Contingencies, etc 5%

1.223 ✓

25.689 ✓

Contractors profit 10%  
Total -

\$25.68  
\$28.257 ✓

Bastin & Valiquette  
Triple

1 Triple service  
length = 32 ft.  
Trenching the same as for the double

32 ft. of trenching	@ 0.428	\$13.696	✓
32 ft. of backfilling	@ 0.05	1.60	✓
32 ft. of bracing	@ 0.01	0.32	✓
Undoing & replacing sidewalk	@	0.10	✓
28 ft. of 5/8" pipe = 84#	@ 0.05	4.20	✓
12 ft. of 1/2" " = 24#	@	1.20	✓
1 5/8" nozzle	@	0.45	✓
3 - 1/2" stopcocks	@ 0.75	2.25	✓
1 - 3Way Y.	@	0.65	✓
3 boxes Complete	@	1.40	✓
laying service		0.70	✓
		<u>26.566</u>	

Supt. time keeping etc. general office  
expenses, use of tools, Contingencies etc 5%

1.328 ✓

27.894 ✓

Contractors profit 10%  
Total -

\$27.89  
\$30.683 ✓

Backfill 1/2" gravel  
single

Lane at 600' north of Fairmount between St. Wilamie  
& Manoe -

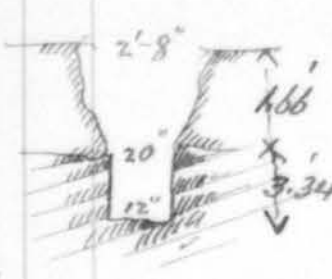
5 Single services.

Average length of service = 6.50 ft.

" " " trench = 6.50 ft.

Average depth of earth = 1.66 ft.

" " " rock = 3.34 ft.



$$\begin{aligned} & \text{earth } \frac{2.66}{1.66} = 1.60 \\ & \text{Rock } \frac{1.66}{3.34} = 0.50 \\ & 2.16 \times 1.66 = 3.5856 = 0.132 \text{ c.f.s.} \\ & 1.33 \times 3.34 = 4.44 \text{ c.f.} = 0.164 \text{ c.f.s.} \end{aligned}$$

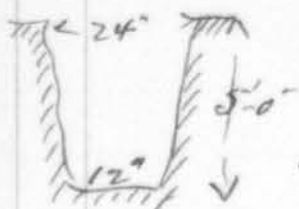
Therefore:

0.132 c.yds. of earth @ 0.20		\$ 0.026 ✓
0.164 " " rock " @ 2.50		0.41
	Trenching.	0.436 ✓
6.5 ft. of trenching	@ 0.436	\$ 2.834 ✓
6.5 ft. of backfilling	@ 0.05	0.325 ✓
6.5 ft. of bracing	@ 0.01	0.065 ✓
<del>the</del> No sidewalk.		
6.5 ft. of 1/2" lead pipe = 13.0 #	@ 0.05	0.650 ✓
1 1/2" angle	@	0.275 ✓
1 1/2" stop cock.	@	0.75 ✓
1 Box Complete.	@	1.40 ✓
Laying service		0.55 ✓
		<hr/> 6.849 ✓
Supt. time Keeping etc, General office		
Expenses, used tools, Contingencies		0.342 ✓
<del>Total</del>		<hr/> \$ 7.191 ✓
Contractor profit 10%		0.719 ✓
Total		<hr/> \$ 7.910 ✓

Buckton & Laberge  
Double

St. Viateur -

6 Double services.  
 Average length of service = 35.16 ft.  
 " " " trench = 11.83 ft.  
 Average depth of earth = 5.00 ft  
 " " " rock = 0.00



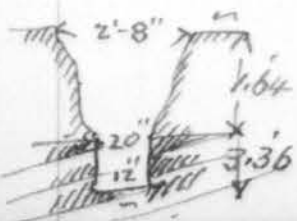
Same price as already found on page 64 = ~~0.06~~ per ft.

11.83 ft. of trenching	@ 0.06	0.7098 ✓
11.83 ft. of backfilling	@ 0.05	0.5915 ✓
11.83 ft. of bracing	@ 0.01	0.1183 ✓
Mudring & replacing sidewalk		0.10 ✓
31.16 ft. of 5/8" lead pipe = 93.48'	@ 0.05	4.674 ✓
8 ft. 1/2" " = 16'	@ 0.05	0.80 ✓
1 5/8" nozzle	@	0.45 ✓
1 3-way stopcock	@	1.30 ✓
1 Box Complete	@	1.40 ✓
Laying service		0.60 ✓
		<hr/>
		\$ 10.7436 ✓
Supt. time keeping, etc. general office expenses, Contingencies, use of tools, etc 5%		0.5371
		<hr/>
		\$ 11.2807 ✓
Contractor profit 10%		1.1281 ✓
		<hr/>
		\$ 12.4094 ✓

Buckton & Laberge  
Double

Bernard St. -

3 Double.  
 Average length of service = 36 ft.  
 " " " trench = 24 ft.  
 " " " depth of earth = 1.64 ft  
 " " " rock = 3.36



earth =  $\frac{2.66 \times 1.64}{2} = 2.16 \times 1.64 = 3.54 \text{ cu ft.} = 0.131 \text{ cu yd.}$   
 Rock =  $\frac{1.66 \times 3.36}{2} = 2.66 \times 3.36 = 8.94 \text{ cu ft.} = 0.165 \text{ cu yd.}$

Therefore.

0.131 C. job. of earth excav. @ 0.20	0.026 ✓
0.165 " " " rock " @ 2.50	0.4125 ✓
<u>Total trenching = 0.4385 ✓</u>	

24 ft. of trenching	@ 0.4385	\$10.52	
24 ft. of backfilling.	@ 0.05	1.20	✓
24 ft. of bracing.	@ 0.01	0.24	✓
Undoing & replacing sidewalk		0.10	✓
32 ft. of $\frac{5}{8}$ " pipe = 96'	@ 0.05	4.80	✓
8 ft. of $\frac{1}{2}$ " " = 16'	@ 0.05	0.80	✓
1 $\frac{5}{8}$ " nozzle.	@	0.45	✓
1 3way stop cock.	@	1.30	✓
1 Box complete.	@	1.40	✓
Laying service		0.60	✓
		<u>21.41</u>	✓

Supt. time keeping, etc  
 used tools, general office expenses 5%

1.04  
22.48 ✓

Contractor profit 10%

2.24 ✓

Total = \$24.72 ✓



# Private Services laid by M.W. & P.C.

in trenches made by Corporation  
between Feb 1899 and Sept 18<sup>th</sup> 1900

## St. Lawrence.

1 Single service to No 1294 St. Lawrence

Length = 26 ft.  
average depth of earth = 1.9 ft.  
" " " " " rock = 3.2 ft.  
5'0"



earth  $\frac{2.56}{1.66}$   
 $\frac{2.56}{1.66} \times 1.75 = 3.78 = 0.14$  c.ft. ✓ c.yd.  
Rock  $\frac{1.66}{2.66}$   
 $1.33 \times 3.25 = 4.32 = 0.16$  c.ft. ✓ c.yd.

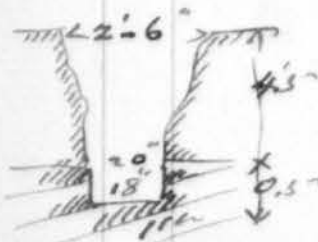
Therefore

0.14 c.yds. of earth excav.	@ \$0.20	\$ 0.028 ✓
0.16 " " " rock "	@ \$2.50	0.40 ✓
		<u>\$ 0.428</u>
Sup't. time keeping, etc. Contingencies		0.01 ✓
Jan. at office 4 pers., use of tools 5%		0.021 ✓
		<u>0.459 ✓</u>
26 ft. of trenching	Day \$0.46 @ 0.46	\$11.96 ✓

## Boulevard.

opp. Church.

Trench for 2" galv. pipe service.  
Length = 45'0"  
Average depth of earth = 4'-6"  
" " " " " rock = 0'-6"  
5'-0"



earth  $\frac{2.5}{1.66}$   
 $\frac{2.5}{1.66} \times 4.5 = 4.86 = 0.18$  c.yds. ✓  
Rock  $\frac{1.66}{1.50}$   
 $1.58 \times 0.5 = 0.79 = 0.029$  c.yd. ✓

0.346 ✓

~~0.18~~ Cys. of earth trenching @ 0.20  
 0.029 ✓ - rock @ 2.50

4.069  
~~0.000~~  
 0.072 ✓  
~~7.408~~  
 141  
 01  


---

 0.151

Pracmg -  
 Supt. time Keeping stry, use of  
 tools, Contingencies, Journal office exps

0.0075  
~~0.1239~~  
 0.1585

Say 0.16 cts.

St. Hypolite St. 75 ft @ 0.16 = \$12.00

2 Cuts, one for a double service & 1 for a single  
 one cut for double service = 25 ft. long.  
 " " " single " = 29 ft. long.  
 average depth of earth = 5 ft. (no rock).

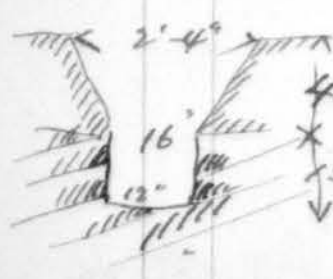
Trenching as before 6 cts aft. ✓  
 54 ft. of trenching @ 0.06 = 3.24 ✓

Cadioux St.

1 Single service op. No 1330  
 Cut - 29 ft. long.  
 All earth - (no rock)  
 29 ft. of trenching in earth @ 0.06 = \$1.74 ✓

City Hall St.

Cut for single service  
 Length of cut 30 ft.  
 average depth of earth = 4'0"



" " " rock = 1'00" -  
 5.00  
 e. ft.

Rock 1.33  
 2(2.93)

1.83 x 4'-0" = 7.32 = 0.27 ✓ Cys. ✓  
 1.165 x 1'-0" = 1.165 = 0.04 ✓ Cys. ✓



0.27 Cyds. earth excavation @ 0.20	0.054 ✓
0.04 " rock @ 2.50	0.100 ✓
Bracing -	0.01
	<hr/> 0.164 ✓
Supt: time Keeping etc use of tools	
General office expenses, Contingents 5%	0.008 ✓
	<hr/> 0.172 ✓
30 ft.	
	@ 0.17
	<hr/> \$5.10

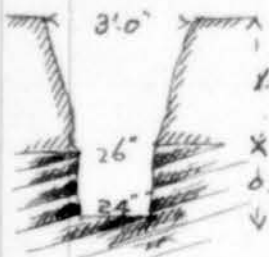
Town St. Louis.

Estimate of amount to be permitted by the  
St. W. W. Co. to the Town of St. Louis for  
trenching and back filling  
on the following  
Street -

Boulevard. (From St. Urbain to Park Ave.)

6" pipe.

Length 940 ft.  
Average depth of earth excavation = 1.66 ft.  
" " " rock " = 0.92 ft.



$$\frac{3.16}{2.58} \times 1.66 = 1.9968 = 0.158 \text{ C. yds.}$$

$$\frac{2.16}{2.08} \times 0.92 = 0.9468 = 0.073 \text{ C. yds.}$$

Therefore.

0.158 C. yds. of earth excavation @ \$0.20	* 0.0316
0.07 " " rock " @ 2.25	0.1576
Bracing: (no bracing).	<del>0.0100</del>
Back filling.	0.0500
	* 0.2392

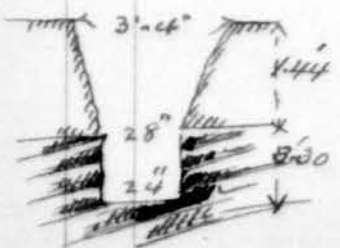
Supt. time keeping, blacksmithing,  
General office expenses, use of tools, Contingents -  
General - etc. 5%

0.0129  
\$ 0.2511

Say \$ 0.25 per ft.

6" pipe: Boulevard. (From Park Ave. westwards.)

Length = 402 ft.  
Average depth of earth excav. = 1.44 ft.  
" " " rock " = 3.30 ft.



$$\frac{3.33}{2.58} \times 1.44 = 1.8752 = 0.150 \text{ C. yds.}$$

$$\frac{2.33}{2.165} \times 3.30 = 3.5745 = 0.264 \text{ C. yds.}$$

Therefore.

0.150 C. yds. of earth excavation	@ 0.20	\$0.03
0.264 " " " rock	@ 2.25	0.594
Bracing (no bracing)		<del>0.010</del>
Backfilling.		0.050
		<u>\$0.674</u>

Supt. time keeping, blacksmithing, general office expenses, use of tools, contingencies etc. 5%.

		0.033
		<u>\$0.707</u>

Say \$0.71

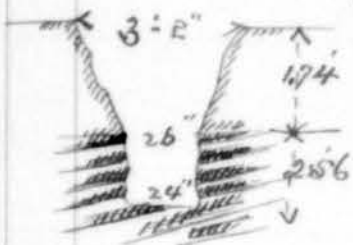
Villeneuve. (From St. Urbain to Park Ave.)

6" pipe.

Length = 930 ft.

Average depth of earth excavation = 1.74 ft.

" " " rock " = 2.56 ft.



earth =  $2 \frac{3.16 + 2.16}{2.66} \times 1.74 = 4.6284 = 0.171 \text{ C. yds.}$

Rock =  $2 \frac{2.16 + 2}{2.08} \times 2.56 = 5.3248 = 0.194 \text{ C. yds.}$

Therefore.

0.171 C. yds. of earth excavation	@ 0.20	\$0.034
0.194 " " " rock	@ 2.25	0.443
Bracing (no bracing)		<del>0.01</del>
Backfilling.		0.05
		<u>\$0.527</u>

Supt. time keeping, blacksmithing, general office expenses, use of tools, contingencies etc. 5%

		0.026
		<u>0.553</u>

Say \$0.55

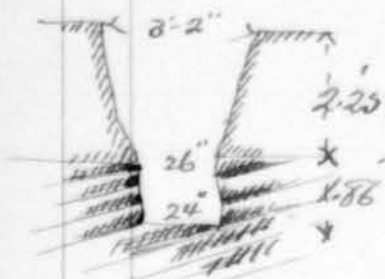
6" pipe.

Esplanade Ave. (From Mount-Royal to Boulevard.)

Length = 1516 feet.

Average depth of earth excavation = 2.25 ft.

" " " " rock = 1.86 "



earth  $\frac{3.16 \times 2.16}{2.66 \times 2.25} = 5.985 = 0.221$  C.ft. C.yds.

Rock  $\frac{2.16 \times 2.16}{2.08 \times 1.86} = 3.8688 = 0.143$  C.yds.

Therefore.

0.221 C.yds. of earth excavation	@ 0.20	\$ 0.0442
0.143 " " " rock	@ 2.25	0.3217
Bracing (no bracing)		<del>0.0100</del>
Backfilling.		0.0500
		<u>0.4159</u>

Supt. time keeping, blacksmithing, use of tools, Janitor office expenses, Contingencies say 5%

0.0207  
\$ 0.4366

Say \$ 0.46

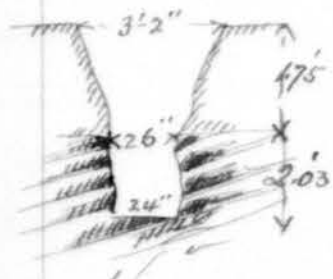
6" pipe.

Mance St. (From Mount Royal to Boulevard.)

Length = 1518'-6"

Average dept of earth = 1.75 ft.

" " " " " 2.03 "



earth exc.  $\frac{3.16 \times 2.16}{2.66 \times 1.75} = 4.655 = 0.172$  C.ft. C.yds.

Rock  $\frac{2.16 \times 2.16}{2.08 \times 2.03} = 4.2224 = 0.156$  " " "

Therefore.

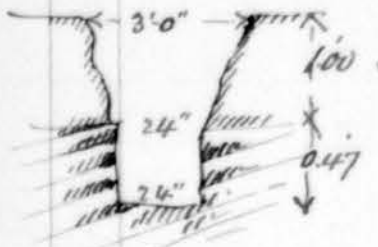
0.172 C.yds. of earth excavation	@ 0.20	\$ 0.0344
0.156 " " " rock	@ 2.25	0.3510
Bracing (no bracing)		<del>0.0100</del>
Backfilling.		0.0500
		<u>0.4354</u>

Supt. time keeping, blacksmithing, Jan. office expenses, use of tools, Contingencies say 5%

0.0217  
0.4  
\$ 0.4571

Say \$ 0.46

6" pipe. Casgrain St. (From north of Maguire to north of Viateur St.)  
 Length = 100 ft.  
 Average depth of earth = 1.00 ft.  
 " " " rock = 0.47 ft.



100 earth  $\frac{3}{2.5} \times 1.0 = 3.5 = 0.09$  c.ft. c.yd.

Rock  $\frac{2}{2} \times 0.47 = 0.94 = 0.034$  c.ft. c.yds.

Therefore,

0.09 c. yds. of earth excavation @ 0.20  
 0.034 " " " rock " @ 2.25  
 Back filling

\$ 0.018  
 0.0765  
 0.05  
 \$ 0.1445 ✓

Supt. time keeping, blacksmithing, general office  
 expenses, use of tools, contingencies etc. 5%  
 Total =

0.0072  
 \$ 0.1517

J. EMILE VANIER

Civil Engineer

Trenching & backfilling  
done by Corporation by  
day labor. 1<sup>st</sup> Contract.

Offices:  
107 ST. JAMES STREET.

- Town St. Louis.

Montreal, Sept 21<sup>st</sup> 1900

Trenching & backfilling  
done by Bastien & Valiquette  
2<sup>d</sup> Contract.

Pipe & Specials Bastien  
& Valiquette's work.  
2<sup>d</sup> Contract.

1 <sup>st</sup> Contract		2 <sup>d</sup> Contract		2 <sup>d</sup> Contract	
Location	Cost	Location	Cost	Location	Cost
Sanguinet St.	\$ 880.00	Sanguinet St.	\$ 355.50	Sanguinet St.	\$ 462.15
" "	411.00	City Hall	281.60	City Hall	399.36
Laval Ave	98.64	St. Dominique	1092.50	St. Dominique	1267.30
City Hall	459.60	St. Lawrence	636.85	St. Lawrence	859.07
George Hypolit.	672.32	Clark Ave.	2838.60	Clark	3037.80
Cadieux St.	264.00	St. Urbain	3382.40	St. Urbain	4397.12
"	125.12	Waverly	1752.52	Waverly	1479.40
St. Dominique	1065.00	St. George	1614.25	St. George	1497.28
St. Lawrence	3390.60	Mance	1535.82	Mance	2280.46
Park Ave.	2441.92	Park Ave.	1431.40	Park Ave.	2995.70
Beaudry	208.08	Beaudry	24.42	Beaudry	39.93
Albina	185.20	Hutchison	2755.11	Hutchison	2909.40
De Gaspé	716.10	Casgrain	239.36	Casgrain	340.96
Casgrain	742.40	Villeneuve	311.52	Villeneuve	617.76
Mount Royal	2442.40	Edouard Charles	376.47	Edouard Charles	186.12
Villeneuve	141.60	St. Louis	691.87	St. Louis	1184.98
Boulevard	403.20	Fairmount	1896.96	Fairmount	1605.12
St. Louis	4141.57	St. Eugène	219.48	St. Eugène	246.52
	18788.75	Young	345.60	Young	315.36
		Maquire	466.45	Maquire	594.11
		Lane 600 N. Fairmount	731.38	Lane 600 N. Fairmount	565.50
		St. Viateur	169.94	St. Viateur	770.59
		Lane N. St. Viateur	280.28	Lane N. St. Viateur	203.28
		Bernard	1845.67	Bernard	1485.99
			25275.95		29740.26
Trenches now open or in the course of being opened.					
= 6311'-6"					
Estimated Cost = \$ 2548.22					

P49/C5,34

1 0 9

1 2 3 4 5 6 7 8

J. EMILE VANIER

Civil Engineer

AND  
LAND SURVEYOR.

Offices:  
107 ST. JAMES STREET.

- 2 -

Montreal, 189

Total length of trenches made by Corporation = 27279'0"  
at a total estimated cost of = \$18788.75 or an  
average of = \$1.451 per ft.

Total length of trenches made by Bastien & Valiquette  
for mains = 34246.75 ft. at a total estimated  
cost of \$25275.95 or an average of  
= 0.738 cts per ft.

The total length of trenches for mains made  
by the Corporation and Bastien & Valiquette  
Combined = 61525.75 ft. at a total cost of  
\$44064.70 or an average of  
= 0.716 per ft.

#### Private Services.

Total length of trenches made by Corporation for private  
services = 11218.25 ft. at a total estimated  
cost of \$2245.14 or an average of  
= 0.20 per ft.

Total length of trenches made by Bastien & Valiquette for  
private services = 9961.25 ft. at a total estimated cost  
of \$3991.31 or an average of  
\$0.40

Total length of trenches dug for private services by Corp.  
and Bastien & Valiquette Combined = 21179.48 ft. at a total  
estimated cost of \$6236.75 or an average of  
= 0.294 cts per ft.

P49/C5,34

1 2 3 4 5 6 7 8

14 Septembre 1900

F.C.Bailargé Ecr-  
Ingénieur  
Hotel de Ville de Québec  
Q u é b e c P.Q.

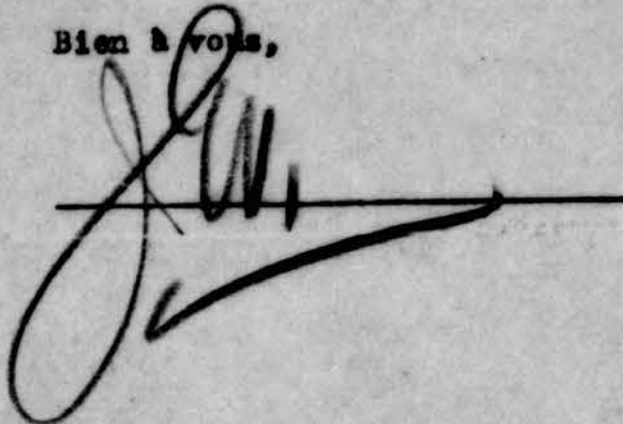
Cher Monsieur,

J'ai l'honneur d'accuser réception des renseignements  
que vous m'avez donnés au sujet des tranchées de tuyaux à l'eau .

Je vous en suis bien reconnaissant car vous m'avez  
rendu un fort service.

S'il vous plaît, cher Monsieur, me donner l'occa-  
sion de vous retourner le compliment, comme disent M.M .les Anglais.

Bien à vous,





**J. EMILE VANIER**  
Ingénieur - et - Architecte

BUREAUX:  
NO. 107 RUE ST-JACQUES,  
MONTREAL

Montréal 17 Septembre 1900.

A son Honneur le Maire et à  
M.M. les Echevins de la Corporation  
de la Ville St. Louis,  
Comté d'Hochelega, P. Q.

Messieurs,

En réponse à la demande qui m'a été faite par les Membres de votre Comité spécial, après la non réussite du projet d'achat du "plant" de la "MONTREAL WATER & POWER Co." chez vous, d'il y a quelques semaines, de réviser à date la réclamation que votre Ville a contre la Compagnie d'Eau, j'ai l'honneur de vous présenter l'état de compte ci-joint.

Au mois de Février 1899, M.M., il vous a été présenté, en cartons, un travail contenant la série des rapports divers, que je vous avais adressés depuis l'année 1893 environ, sur ce que la Compagnie d'Eau vous devait, et j'y avais ajouté les listes de répartition des remises à faire aux propriétaires, sur leurs cotisations d'égouts, pour les excavations et remplissages exécutés se rapportant aux conduites d'eau principales, mises en place par la "MONTREAL WATER & POWER Co." ainsi qu'aux branchements ou services privés.

Ces rapports faits graduellement depuis 1893, étaient basés, comme j'ai eu maintes occasions de le rappeler à votre Conseil depuis l'origine, sur des indications et une marche à suivre qui différaient beaucoup de ce que je croyais être, et de ce que je crois encore aujourd'hui être la véritable interprétation du contrat du 12 Février 1891, intervenu entre la Compagnie d'Eau et votre Ville.

Ainsi tous les comptes produits jusqu'à présent M.M., étaient basés sur des taux d'hiver et d'été correspondants aux saisons diverses durant lesquelles les travaux d'excavation pour égouts chez vous avaient été exécutés, c'est-à-dire un peu durant toutes les

saisons de l'année, mais surtout en hiver, comme vous le savez tous.

Ce n'était pas à M.M., mon opinion et là-dessus ce que j'en pensais alors, n'a pas varié depuis.

Si l'on se reporte, M.M. à l'article 3 de ce contrat du 12 février 1891, en y trouve, en substance, que:

- La Municipalité ayant décidé de construire ses égouts, en même temps
- que la Compagnie doit poser ses tuyaux à eau, dans les rues de la
- dite Municipalité, la Corporation fera les excavations nécessaires
- pour l'exécution de ses travaux d'égouts, et elle remplira alors ces
- tranchées, jusqu'à la hauteur voulue pour y asseoir les tuyaux à
- eau, et la dite Compagnie y mettra ensuite en place ses conduites
- d'eau et la dite Corporation en complètera après le remplissage
- jusqu'au niveau de la rue. La Compagnie remboursera au comptant à la
- dite Corporation les sommes que la Compagnie elle-même aurait été
- obligée de déboursier pour poser ses propres tuyaux à eau, sur ces
- mêmes rues, dans le cas où la Corporation n'aurait pas construit ses
- égouts.

En résumé M.M., ce que la Compagnie D'Eau, d'après moi, devait ou doit rembourser à votre Ville, c'est ce qu'elle aurait dépensé elle-même en creusant et remplissant ses tranchées pour tuyaux à eau sur ces mêmes rues, dans le même sol, dont on connaît à présent la nature exacte. Car vous n'ignorez pas, M.M., qu'en vue de calculer ce remboursement, j'ai dû, depuis l'origine, mesurer spécialement les profondeurs de terre au-dessus du roc, au fur et à mesure de l'avancement des travaux et consigner le tout sur des plans et rapports qui sont aux archives de votre Corporation.

Examinons à présent, si vous voulez, M.M., dans quelles conditions la Compagnie en question se serait trouvée pour exécuter les ouvrages que votre Ville, par des circonstances particulières, a

(3)

faits, pour le compte de cette Compagnie.

La Compagnie d'Eau, ici intéressée, aurait d'après moi, M.M., fait ce que toutes les Compagnies d'Eau, ou propriétaires et constructeurs d'aqueducs, y compris même les Corporations municipales qui possèdent et font des travaux d'aqueduc, font invariablement, c'est-à-dire des travaux d'aqueduc durant la saison ordinaire durant laquelle se font de semblables travaux sous notre climat, c'est-à-dire du 1er ou du 15 Mai environ de chaque année à aller au 15 Novembre ou au 1er Décembre, suivant la température.

Tout le monde sait, et vous aussi, M.M., qu'à Montréal par exemple, les travaux d'aqueduc courants ne se font pas en-dehors de l'époque de l'année que je viens de mentionner, et que même au commencement et à la fin de chaque saison d'ouvrage, des avis paraissent même dans les journaux à l'effet, qu'à partir de telle époque au commencement de la saison on commencera à faire des travaux d'aqueduc et qu'après telle autre date à la fin de la même saison on ne posera plus de services etc.

Comme question de fait M.M., la Cité de Montréal n'a jamais posé de conduites d'eau dans ses rues, en-dehors de la saison limitée que j'ai indiquée, à moins qu'il n'ait arrivé des choses urgentes, comme ruptures de tuyaux, ou dégels à faire etc.

Aussi comme question de fait M.M., la même Compagnie d'Eau, dans les autres Municipalités qui entourent Montréal où son système d'aqueduc s'étend aussi et où les travaux de voirie sont aussi sous mon contrôle d'Ingénieur, cette même Compagnie dis-je n'a jamais, à ma connaissance, depuis son début en 1891, entrepris l'exécution d'aucun ouvrage de ce genre en-dehors de la saison d'ouvrage que j'ai mentionnée.

Enfin j'ajouterai, M.M., que dans ma pratique de 20 années,

dans la construction d'aqueducs, dans la Province de Québec, je n'ai jamais pensé un seul instant à faire exécuter des travaux d'aqueduc du genre de ceux qui nous occupent dans le moment, en-dehors de la saison que j'ai citée plus haut, c'est-à-dire en-dehors de l'époque de l'année qui s'écoule entre Mai à Décembre.

Chez vous M.M., les circonstances étaient particulières, la nature du sol était telle que votre Corporation pouvait et était en droit de changer les habitudes reconnues, et pour favoriser la classe ouvrière, faire, durant ce qu'on est convenu d'appeler la mauvaise saison et à des taux nécessairement plus élevés, ces travaux que toute Compagnie ou propriétaire d'aqueduc exécute dans un temps plus favorable et par conséquent à un taux moins onéreux.

Dans tous les cas M.M., si l'on revient au contrat du 12 février 1891, on trouve que la "MONTREAL WATER & POWER CO." doit rembourser à votre Corporation, ce qu'elle aurait dépensé elle-même (la Cie.) pour exécuter ces mêmes ouvrages que votre Ville a faits pour elle (la Cie.)

Pour moi, M.M., il n'y a pas à aller au-delà et tout expert en la matière appelé à aviser un tribunal quelconque sous les circonstances ne dirait pas autrement, j'en ai l'intime conviction.

Conséquemment, M.M., les comptes envoyés jusqu'à présent à la Compagnie d'eau et basés sur le désir et l'ordre exprimés par un Conseil qui vous a précédé, ont dû depuis quelques semaines être révisés en entier, les calculs des déblais et remblais refaits, et un inventaire minutieux a dû aussi être refait en totalité, enfin M.M., toute cette question dont l'origine, remonte à 1891 pour se continuer jusqu'à présent et encore quarante années durant, s'il n'y a rien de changé, a dû être reprise à neuf, entièrement, pour en arriver à l'état ci-joint qui représente, je dois le déclarer, mes vues exactes

et impartiales sur le sujet important que je soumetts à votre considération.

En tout ceci, M.M., je n'ai eu en vue, que l'intérêt bien entendu de votre Ville, et le souci de ma réputation professionnelle.

La question a été traitée exclusivement M.M., au point de vue de l'équité et de l'expérience acquise en semblable matière.

Les mêmes considérations s'appliquent aussi M.M., aux travaux que vous avez fait faire sous l'autorité du précédent créé par le 2e. contrat avec la Compagnie d'eau, c'est-à-dire le contrat du 16 Juillet 1895, contrat supplémentaire si vous voulez, ou arrangement spécial et temporaire qui est intervenu dans un moment et des circonstances particulières, et ne devant s'appliquer alors qu'à un petit nombre de rues prévues. D'après cet arrangement M.M., et pour faciliter le développement de votre Ville, et ce qui est arrivé depuis en a justifié les prévisions d'alors, votre Corporation, M.M., a poussé ses égouts à travers des terrains relativement vacants alors et a exécuté en avant ou à l'avance comme on pourrait dire certains travaux d'aqueduc, remboursables par la Compagnie d'eau dans certaines conditions détaillées à ce contrat du 16 Juillet 1895.

L'état de compte ci-joint comprend aussi ces ouvrages, et le tout a été basé sur les 2 contrats du 12 Février 1891 et 16 Juillet 1895, dont j'ai longuement et aussi consciencieusement <sup>que possible</sup> étudié l'interprétation qu'en devait leur donner.

Comme mémoire M.M., je vous rappellerai les clauses 6 et 8 du 2e. contrat qui se rapportent particulièrement au remboursement à faire à votre Ville par la Compagnie, et lesquelles ont servi à établir une portion importante de la réclamation révisée ci-jointe; ces clauses

(6)

seraient en substance les suivantes, savoir:

- CLAUSE 6. "Aussitôt que le revenu de la taxe d'eau perçue le long
- des extensions d'aqueduc introduites par la Ville St. Louis attein-
- drent 10 pour cent de leur coût, la dite Municipalité pourra alors
- requérir la Compagnie de prendre possession des dites extensions
- et d'en payer le coût comme il est pourvu plus loin, etc- "

- CLAUSE 8. "Le montant payable par la Compagnie dans l'éventualité
- d'une prise de possession des extensions aux conduites d'eau, d'a-
- près les termes du présent contrat, sera le prix coûtant, avec inté-
- ret au taux de 6% par an. Le dit prix coûtant ne devant pas excéder
- une valeur marchande raisonnable ("fair market value"), et tout ou-
- vrage exécuté ne devant pas avoir été fait en-dehors de la saison
- d'été."

Ainsi M.M., la marche à suivre dans l'établissement de votre réclamation contre la Compagnie d'Eau était pour moi bien indiquée.

L'état de compte ci-joint, M.M., couvre tout, depuis l'origine en 1891 jusqu'à date, serait classifié comme suit, savoir:

- 1o Le creusage et le remplissage des tranchées faites par votre Corporation, à la journée et par entrepreneurs, sur les diverses rues et parties de rues de votre Municipalité où la MONTRÉAL WATER & POWER Co. a ensuite placé ses conduites d'eau principales et accessoires.
  
- 2o Le creusage et le remplissage des tranchées faites par votre Corporation, à la journée ou par entrepreneur, sur les rues où on a introduit pour votre compte les conduites d'eau principales, avec accessoires et raccordements aux portions

d'aqueduc mises en opération antérieurement par la Compagnie d'eau.

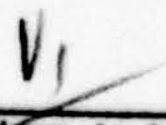
3e Enfin le creusage des tranchées pour branchements ou services d'eau privés, exécutés par les propriétaires riverains de chacune des rues, soit que le tuyautage y ait été ensuite introduit par la Compagnie d'eau en premier lieu ou ultérieurement par votre Corporation sous l'autorité du 2e. contrat. Tout ce travail, M.M., se trouve réparti sur environ 62,000 pieds de rues et ruelles, pour les conduites principales, et comprendrait 21,000 pieds courants de tranchées, approximativement, pour les services privés. Ici, M.M., je dois attirer votre attention qu'avec le 1er contrat, de février 1891, l'évaluation des ouvrages faits doit être d'après le coût à la journée, c'est-à-dire en conformité avec la pratique suivie par la Compagnie d'Eau, tandis que les travaux exécutés en vertu de 2e. contrat, de Juillet 1895, la valeur marchande y mentionnée comporte un bénéfice de contracteur en plus du coût à la journée.

Mon estimation pour le tout M.M., se monte à la somme de \$83591.68, et j'ai été suffisamment libéral, dans la considération de mes chiffres, pour vous laisser à un moment donné dans la discussion de cette réclamation avec la Compagnie d'Eau, la latitude nécessaire quelquefois, pour l'obtention d'un règlement rapide. Tout de même cette estimation peut être aisément maintenue devant un tribunal d'arbitrage et je suis tout prêt à y comparaître et à soutenir cette évaluation. La question d'intérêt pourrait être traitée par Mr. VINCENT, votre Secrétaire Trésorier, et les tranchées ouvertes actuellement, comme sur les rues BOULEVARD, VILLENEUVE & CASGRAIN, feraient au besoin

(8)

l'objet d'une évaluation supplémentaire.

Le tout humblement soumis,

  
\_\_\_\_\_  
Ingénieur de la Ville St.Louis.

P49/C5,34

1 2 3 4 5 6 7 8



**J. EMILE VANIER.**  
Civil Engineer & Architect,

PROVINCIAL LAND SURVEYOR.

OFFICE

107 St. James Street.

**ESTIMATE OF WORK DONE & MATERIALS FURNISHED TO  
MONTREAL WATER & POWER Co. BY THE TOWN OF  
St. LOUIS UNDER CONTRACTS OF FEBRUARY  
18th, 1891 & JULY 16th, 1895  
RESPECTIVELY.**

<b>SANGUINET St. (from Mount Royal to St. Louis)</b> 2000 running ft. of trenching and backfilling, for 10" pipe, made by Corporation.....at (from Mt. Royal to Boulevard completed 1st Sept. 1892)	0.44	\$880.00		
686 running ft. of trenching and backfilling, from St. Louis to St. Ignace Sts. for 4" pipe made by Corporation.....at (completed March 1st 1894)	0.60	411.00		
711 running ft. of 4" cast iron pipe, comprising specials, valves, hydrants, trenching, cartage & backfilling, work done by BASTIEN & VALIQUETTE, from St. Ignace to du Carmel.....at (completed April 1st 1897.)	1.15	817.65	\$2108.65	
63 trenches for private services without refilling, made by Corporation.....at	4.71	296.73		
3 double services complete, made by BASTIEN & VALIQUETTE.....at	17.45	52.35		
1 trench for large service to Corbeil's lane off Sanguinet St. no back filling, made by proprietor.....at		11.70	360.78	\$2469.43
<b>LAVAL Ave. (from Mount Royal northwards)</b> 274 running ft. of trenching and backfilling made by Corporation for 2" pipe.....at (completed 1st May 1894)	0.36	98.64	98.64	
6 trenches for private services, no refilling, made by Corporation.....at	1.99	11.94	11.94	110.58
Carried over.....				\$2580.01

P49/C5,34

1 2 3 4 5 6 7 8

Brought forward.....				\$2580.01
<u>CITY HALL Ave.</u> (from Mount Royal to Boulevard). 1532 running ft. of trenching and backfilling for 6" pipe made by Corporation.....at (completed 1st May 1892)	\$0.30	\$459.60		
512. running ft. of 4" cast iron pipe, comprising specials, valves, hydrants, trenching, cartage and backfilling, work done by BASTIEN & VALIQUETTE, from Boulevard to St. Louis.....at (completed 1st Nov. 1895)	1.33	680.96	1140.56	
43. trenches for private services, without refilling, made by Corporation.....at	1.50	64.50		
2 single services, laid, complete, by BASTIEN & VALIQUETTE.....at	13.56	27.32		
3. double services, laid, complete by BASTIEN & VALIQUETTE .....at	17.92	53.76	145.58	1286.14
<u>GEORGE HYPOLITE St.</u> (from Mount Royal to Boulevard.) 1528 running ft. of trenching and backfilling for 6" pipe, made by Corporation.....at (completed 31st Dec. 1898)	0.44	672.32	672.32	
44.- trenches for private services, no refilling, made by Corporation.....at	4.00	176.00	176.00	848.32
<u>GADIEUX St.</u> (from Mount Royal to Elmire St.) 1200.- running ft. of trenching and backfilling for 4" pipe, made by Corporation.....at (completed 31st December 1892)	0.22	264.00		
Carried over.....		264.00		\$4714.47

Brought forward.....		\$234.00		\$4714.47
(from Boulevard northwards.) 273.- running ft. of trenching and backfilling for 4" pipe, made by Corporation.....at (completed 1st May 1899)	\$0.45/2	125.12	\$389.12	
48.- trenches for private ser- vices, no backfilling, made by Corporation.....at	1.50	72.00		
1.-double service laid to Mr. Germain's, notary, by BASTIEN & VALIQUETTE, extra long.....at		49.03	121.03	510.15
St. DOMINIQUE St. (from Mount Royal to Boulevard & St. Louis to St. Eugene) 2180.-running ft. of trenching and backfilling for 4" pipe, made by Corporation.....at (completed 1st July 1892 at Boulevard and at St. Eugene 1st June 1892)	0.50	1065.00		
(from St. Eugene to Lane south of C.P.R'y ) 2185.-running feet of 4" cast iron pipe, comprising trenching, backfilling, specials, valves, valve boxes, hydrants, cartage & laying, work done by BASTIEN & VALIQUETTE.....at	1.08	2359.80	3424.80	
(from St. Eugene to McGuire, comple- ted 1st August 1895, and from McGuire to Lane near C.P.R'y on 1st June 1899.) 61. trenches for private services, no backfilling, made by Corpe- ration.....at	5.20	317.20		
2.-single services, laid complete, by BASTIEN & VALIQUETTE.....at	16.71	33.42		
2.-double services, laid complete, by BASTIEN & VALIQUETTE.....at	19.89	39.80		
1.-trench made by Corporation for service to Lapointe Lane. at		7.26	397.68	3322.48
Carried over.....				\$9047.10

Brought forward..				\$9047.10
<u>St. LAWRENCE St.</u> (from Mount Royal Ave. to above Lauretta St. opposite Charbonneau's)				
<u>4292.</u> - running ft. of trenching and backfilling for 10" pipe, made by Corporation.....at (completed to creek above St. Louis, 1st January 1893 and to Charbonneau's Mills on 1st of March 1894)	\$0.79	\$3890.68		
(from opposite Charbonneau's to Bernard St.)				
<u>542.</u> - running ft. of 10" cast iron pipe comprising, specials, valves, hydrants, trenching, backfilling, cartage and laying, work done by BASTIEN & VALIQUETTE .....at (completed 1st January 1893)	2.76	1495.92	4986.60	
<u>87.</u> -trenches for private services, no backfilling, made by Corporation.....at	5.86	509.82		
<u>1.</u> -Single service, laid complete, by BASTIEN & VALIQUETTE.....at	19.58	19.58		
<u>1.</u> - double service, laid complete by BASTIEN & VALIQUETTE.....at	36.75	36.75	566.15	5452.75
<u>CLARKE St.</u> (from Mount Royal Ave. to Bernard St.)				
<u>4980</u> running ft. of 4" cast iron pipe, comprising specials, valves, hydrants, trenching, backfilling, cartage and laying, work done by BASTIEN & VALIQUETTE .....at (from St. Louis to 119 ft. above Bernard on 1st Sept. 1895, from Mt. Royal to Villeneuve on 1st August 1897, and from Villeneuve to St. Louis on 1st of May 1898)	1.18		5876.40	
Carried over.....			\$5876.40	\$14499.85

Brought forward....			\$5878.40	\$14499.85
<u>22.</u> - single services, laid complete by BASTIEN & VALIQUETTE .....at	20.26	445.72		
<u>115.</u> -double services, laid complete by BASTIEN & VALIQUETTE .....at	20.12	2313.80		
<u>1.</u> -special 2" galvanised iron service for the silk factory, laid complete by BASTIEN & VALIQUETTE.....at	48.63	48.63	2803.15	8679.55
<u>St. URBAIN St.</u> (from Mount Royal to Bernard) <u>4832.</u> - running ft. of 6" cast iron pipe comprising specials, valves, hydrants, trenching, back-filling, cartage and laying, work done by BASTIEN & VALIQUETTE .....at (from St. Louis to 140 ft. above Viateur, completed 1st June 1896, from above Viateur to Bernard, completed 1st June 1897 and from Mt. Royal to St. Louis completed 1st June 1899)	1.61		7779.52	
<u>13.</u> - single services, laid complete by BASTIEN & VALIQUETTE .....at	20.34	264.42		
<u>19.</u> -double services, laid complete by BASTIEN & VALIQUETTE .....at	20.45	388.55	652.97	8432.49
<u>WAVERLY St.</u> (from Fairmount to Bernard.) <u>2276.</u> -running ft. of 4" cast iron pipe, comprising specials, valves, hydrants, trenching, back-filling, cartage and laying, work done by BASTIEN & VALIQUETTE .....at (completed Mar 1st 1897.)	1.42		3231.92	
Carried over.....			\$3231.92	\$31611.89

Brought forward.....			\$3231.92	\$31611.99
10.- single services, laid complete by BASTIEN & VALIQUETTE .....at	\$23.61	\$423.58		
11.- double services, laid complete by BASTIEN & VALIQUETTE .....at	27.07	297.77	726.35	3958.27
<u>St. George St.</u> (from Fairmount to Bernard.) 2222 1/2.- running feet of 4" cast iron pipe, comprising specials, valves, hydrants, trenching, backfilling, cartage and laying, work done by BASTIEN & VALIQUETTE .....at (from Fairmount to Lane completed Oct. 1st 1896, from Lane to Viateur, completed 1st of June 1897, and from Viateur to Bernard completed January 1898).	1.33		3111.53	
3.- single services, laid complete by BASTIEN & VALIQUETTE .....at	20.86	62.58		
17.- double services, laid complete by BASTIEN & VALIQUETTE .....at	22.69	295.56		
1.- 2" galvanised iron service for Fairmount School, laid complete by BASTIEN & VALIQUETTE .....at	48.26	48.26	496.40	3607.93
<u>MAJOR St.</u> (from Fairmount to Bernard.) 2227.- running ft. of 6" cast iron pipe, comprising specials, valves, hydrants, trenching, backfilling, cartage and laying, work done by BASTIEN & VALIQUETTE.....at ( from Fairmount to 140 ft. above Viateur, completed 1st June 1896, and 1st June 1898 to Bernard).	1.64		2816.23	
20.- single services, laid complete by BASTIEN & VALIQUETTE.at	18.75	335.00		
14.- double services, laid complete by BASTIEN & VALIQUETTE.at	21.07	294.98	629.93	4446.23
Carried over.....				\$43624.23

Brought forward.....				\$43924.35
<u>PARK Ave.</u> -(from Mount Royal 400'-0" northwards)				
400.- running ft. of trenching and backfilling for 8" pipe made by Corporation.....at (completed March 1st 1894).	30.68	\$264.00		
(from the end of the above to St. Louis St.)				
1545.-running ft. of 10" cast iron pipe, comprising specials, valves, hydrants, trenching, backfilling, cartage and laying, work done by BASTIEN & VALIQUETTE at (completed July 1st 1896.)	2.20	3553.50		
(from St. Louis to 273'-0" south of Bernard St.)				
2624.- running ft. of trenching and backfilling, for 10" pipe, made by Corporation.....at (completed February 1895)	0.83	2177.92		
(from 273'-0" south of Bernard to Bernard)				
273.- running ft. of 10" cast iron pipe, comprising specials, valves, hydrants, trenching, backfilling, cartage and laying, work done by BASTIEN & VALIQUETTE .....at (completed July 1st 1897.)	3.20	873.60	6869.02	
22.-trenches for private services, made by Corporation.....at	13.08	286.86		
2.- single services laid complete, by BASTIEN & VALIQUETTE .....at	26.08	52.16	338.82	7207.84
<u>BEAUDRY St.</u> -(from Mount Royal to northern extremity).				
408.-running ft. of trenching & backfilling for 4" pipe, made by Corporation.....at (completed January 1st 1894).	0.51	208.08		
Carried over.....		\$208.08		\$50832.19

Brought forward.....		\$208.08		\$50882.19
<u>22.</u> -running ft. of 4" cast iron pipe, comprising valves, valve boxes, backfilling, trenching, cartage and laying, work done by BASTIEN & VALIQUETTE.....at (completed Nov. 1st 1897).	\$1.95	\$64.35	\$272.43	
<u>1.</u> trench for private service, made by Corporation.....at	6.06	6.06		
<u>1.</u> - double service, laid complete, by BASTIEN & VALIQUETTE.....at	17.91	17.91	23.97	296.40
<u>HUTCHISON St.</u> - (from Beaudry St. to Boulevard). <u>1198.</u> -running ft. of 6" cast iron pipe, comprising specials, valves, hydrants, trenching, backfilling, cartage and laying, work done by BASTIEN & VALIQUETTE.....at (completed Nov. 1st 1897).	1.31	1510.43		
(from Fairmount to Bernard). <u>2267.</u> - running ft. of 6" cast iron pipe, comprising specials, valves, hydrants, trenching, backfilling, cartage and laying, work done by BASTIEN & VALIQUETTE.....at (completed May 1st 1898)	1.75/2	4184.68	5864.51	
<u>2.</u> - single services, laid complete by BASTIEN & VALIQUETTE.....at	22.61	45.22		
<u>2.</u> - double services, laid complete by BASTIEN & VALIQUETTE.....at	16.68	56.04	101.26	5765.77
<u>ALBINA St.</u> - (from Boulevard to St. Louis.) <u>488.</u> running ft. of trenching and backfilling for 4" pipe, made by Corporation.....at (completed May 1st 1894.)	0.40		185.20	
<u>10.</u> trenches for private services, made by Corporation....at	2.29	22.90	22.90	208.10
Carried over.....				\$57102446



Brought forward.....				\$67102.46
<u>DeGASPE St.</u> from St.Louis to Maguire St.) 980.-running ft.of trenching and backfilling for 4" pipe,made by Corporation.....at (completed 1st Nov.1894)	\$0.77		\$716.10	
<u>15.-trenches for private services,</u> made by BASTIEN & VALIQUETTE.at	10.40	156.00	156.00	872.10
<u>CASGRAIN St.</u> -(from St.Louis to Maguire) 988.-running ft.of trenching and backfilling for 6" pipe, made by Corporation.....at (completed 1st Sept.1894.)	0.80	742.40		
(from Maguire northwards) 872.-running ft.of 6" cast iron pipe,comprising trenching,backfilling, specials, valves, hydrants, valve boxes, cartage & laying, work done by BASTIEN & VALIQUETTE .....at (completed Nov.1st 1897.)	1.56	580.32	1322.72	
<u>16.-trenches for private services,</u> made by Corporation.....at	11.64	189.44		
<u>1.- single service laid complete</u> by BASTIEN & VALIQUETTE.....at	23.35	23.35		
<u>4.- double services, laid complete</u> by BASTIEN & VALIQUETTE .....at	21.40	85.60	296.39	1621.11
<u>MOUNT ROYAL Ave.</u> (from Sanguinet St. to Western limits of Town.) 3083.-running ft. of trenching and backfilling for 12" pipe, made by Corporation.....at (from Sanguinet to City Hall Ave. completed Jan 1st. 1892; from City Hall Ave. to St. Urbain Dec. 1st 1892; from St. Urbain to Outremont on Dec. 1st 1892).	0.60	2442.40	2442.40	
Carried over.....			\$2442.40	\$57595.67

Brought forward.....			\$2442.40	\$59595.67
<u>24.</u> -trenches for private services, made by Corporation.....at	\$6.04	144.98	\$144.98	2587.36
<u>VILLENEUVE St.</u> -(from City Hall Ave. to St.Lawrence.) <u>888.</u> -running ft.of trenching and backfilling for 6" pipe,made by the Corporation.....at (completed Sept.1st 1892.)	0.18	141.60		
(from St.Lawrence to St. Urbain) <u>888.</u> - running ft.of 6" cast iron pipe,comprising trenching,back- filling,specials,valves, valve boxes,hydrants, cartage & laying work done by BASTIEN & VALIQUETTE .....at (from St.Lawrence to Clark,com- pleted July 1st 1897, and from Clarke to St.Urbain,completed 1st May 1900.)	1.78	929.28	1070.88	
<u>12.</u> -trenches for private services, made by Corporation.....at	1.31	15.72	15.72	1086.60
<u>BOULEVARD.</u> (from Sanguinet to Cadioux and from George Hypolite St. to St.Dominique.) <u>840.</u> -running ft. of trenching and backfilling for 6" pipe, made by Corporation.....at (from Sanguinet to City Hall Ave. completed May 1st 1904; from Hy- polite to St.Dominique,completed Sept.1st 1898.)	0.48	408.20	408.20	
<u>8.</u> - trenches for private services, made by Corporation.....at	12.07	96.58	96.58	499.76
<u>EDOUARD CHARLES St.</u> (from Park Ave.to Outremont). <u>422.</u> -running ft. of 4" cast iron pipe,comprising trenching,back- filling,laying,specials,valves, hydrants, valve boxes, cartage, work done by BASTIEN & VALIQUETTE .....at (completed July 1st 1896.)	1.33	562.59	562.59	
Carried over.....			\$562.59	\$63769.39


Brought forward.....			\$562.59	\$63769.99
<u>2.</u> -double services,laid complete by BASTIEN & VALIQUETTE.....at	\$24.08	\$48.16	\$48.16	\$610.75
<u>St. LOUIS St.</u> -(from St. Denis Ward to Sanguinet St). <u>175.</u> -running ft. of trenching and backfilling for 6" pipe, made by Corporation.....at	0.74	129.50		
(from Sanguinet St. to Park Ave.) <u>2657.</u> -running ft. of trenching and backfilling for 16" pipe, made by Corporation.....at	1.51	4012.07		
(from Park Ave. to limit Outremont.) <u>282'-9"</u> running ft. of 16" cast iron pipe, comprising trenching backfilling, specials, valves, valve boxes, hydrants, cartage & laying, work done by BASTIEN & VALIQUETTE.....at (completed from St. Denis Ward to St. Lawrence St. on June 1st 1892; from St. Lawrence St. to St. Urbain on Jan. 1st 1893 and to Park Ave. on June 1st 1893, and to Hutchison 1st Oct. 1893.)	4.91	1276.95	\$618.42	
<u>12.</u> - trenches for private services, made by Corporation....at	10.33	126.27		
<u>8.</u> - double services, laid complete by BASTIEN & VALIQUETTE.....at	19.76	158.08	\$54.35	\$6372.77
<u>FAIRMOUNT St.</u> -(from St. Lawrence to Hutchison.) <u>1824.</u> -running ft. of 6" cast iron pipe, comprising trenching, backfilling, specials, valves, valve boxes, hydrants, cartage & laying, work done by BASTIEN & VALIQUETTE.....at (completed Dec. 1st 1896.)	1.92	3502.08	\$502.08	
Carried over.....			\$8502.08	\$70752.91

Brought forward.....			\$8502.08	\$70782.91
<u>4.-</u> single services, laid complete, by BASTIEN & VALIQUETTE.....at	820.79	888.18		
<u>6.-</u> double services, laid complete by BASTIEN & VALIQUETTE.....at	19.36	116.18		
<u>1.-</u> 1" galvanized iron special service, laid complete at Mr. Picard's, by BASTIEN & VALIQUETTE.....at		157.79	807.11	3859.19
<u>St. EUGENE St.</u> - (from St. Dominique to Casgrain.) <u>372.-</u> running ft. of 4" cast iron pipe comprising trenching, back-filling, specials, valves, hydrants, valve boxes, cartage & laying, work done by BASTIEN & VALIQUETTE.....at (completed Aug. 1st 1895.)	1.25	465.00	465.00	
<u>1.-</u> triphases, laid complete by BASTIEN & VALIQUETTE.....at	25.62	25.62		
<u>1.-</u> special 1" galvanized iron service, laid complete by BASTIEN & VALIQUETTE.....at	20.84	20.84	46.46	511.46
<u>YOUNG St.</u> - (from Park Ave. to Hutchison St.) <u>482.-</u> running ft. of 4" cast iron pipe comprising trenching, back-filling, specials, valves, hydrants, valve boxes, cartage & laying, work done by BASTIEN & VALIQUETTE. at (completed Sept. 1st 1895.)	1.52	660.98	660.98	
<u>12</u> double services, laid complete, by BASTIEN & VALIQUETTE.....at	27.06	324.72	324.72	985.88
<u>MAGUIRE St.</u> (from St. Dominique to Gaspé St.) <u>491.-</u> Running ft. of 6" cast iron pipe, comprising trenching, back-filling, specials, valves, hydrants, valve boxes, cartage & laying, work done by BASTIEN & VALIQUETTE. at Carried over.....	2.18	1060.56	1060.56	\$1060.56 \$76109.24

Brought forward..... (completed Jan. 1st 1898.)			\$1080.56	\$78209.24
4.- double services, laid complete by BASTIEN & VALIQUETTE.....at	28.26	113.04		
1.- triple service, laid complete by BASTIEN & VALIQUETTE.....at	30.00	30.68	143.72	1204.28
<u>LANE at 600'-0" north of Fairmount.</u> (between St. Urbain & Mance). 724.-running ft. of 6" cast iron pipe comprising trenching, backfil- ling, valves & valve boxes, cartage and laying, work done by BASTIEN & VALIQUETTE.....at (completed July 1st 1898.)	1.72	1296.88	1296.88	
5.- single services laid complete by BASTIEN & VALIQUETTE.....at	7.91	39.55	39.55	1386.43
<u>St. VIATEUR. formerly Lauretta</u> (from St. Lawrence to Beaubien) 222.-running ft. of 12" cast iron pipe comprising trenching, back- filling, specials, valves, hydrants, valve boxes, cartage & laying, work done by BASTIEN & VALIQUETTE .....at (completed Sept. 1st 1897.)	3.21	940.53	940.53	
6.- double services, laid complete by BASTIEN & VALIQUETTE.....at	\$12.42	74.52	74.52	1015.05
<u>LANE NORTH OF VIATEUR St.</u> (between St. Lawrence & St. Domi- nique.) 308.-running ft. of 4" cast iron pipe, comprising trenching, back- filling, specials, valves, hydrants, valve boxes, cartage & laying, work done by BASTIEN & VALIQUETTE.at (completed february 1st 1899.)	1.57		488.56	488.56
<u>BERNARD St.</u> (from St. Lawrence to Hutchison.) 1893.-running ft. of 6" cast iron pipe, comprising trenching, backfil- ling, specials, valves, hydrants, valve boxes, cartage & laying, work done by BASTIEN & VALIQUETTE.at (from Clarke to Hutchison, completed June 1st 1897; from Clarke to St. Lawrence, completed Jan. 1st 1898)	1.76	3331.68	3331.68	
Carried over.....			\$3331.68	\$80148.56

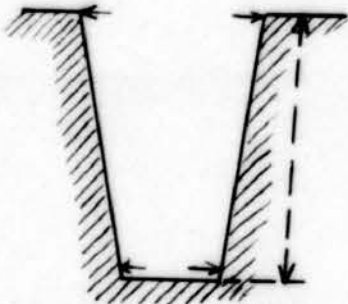
Brought forward.....			\$3381.68	\$80148.59
<u>2.- double services, laid complete by BASTIEN &amp; VALIQUETTE.....at</u>	\$24.72	\$74.16	\$74.16	\$405.84
<u>SERVICES LAID IN TRENCHES MADE BY THE CORPORATION. (from Feb. 1899 to 18th, Sept. 1900.-</u>				
<u>St. LAWRENCE St.</u>				
1.- trench for private service, made by Corporation.....at			11.98	
<u>BOULEVARD.</u>				
1.- trench for 2" galvanised iron service made by Corporation...at			12.00	
<u>St. HYPOLITE St.-</u>				
2.- trenches for private services, made by Corporation....at	3.24		6.48	
<u>CADIEUX St.</u>				
1.- trench for private service, made by Corporation.....at			1.74	
<u>CITY HALL Ave.-</u>				
1.- trench for private service made by Corporation.....at			5.10	37.88
GRAND TOTAL.....				\$83594.68

Montreal 17th September 1900.

  
 \_\_\_\_\_  
 Engineer Town of St. Louis.

Quebec

SOLID ROCK TRENCHES



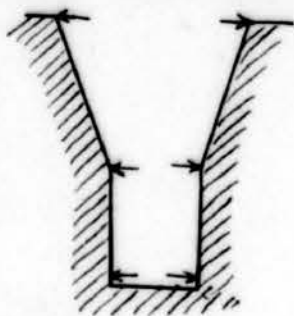
<u>4 INCH PIPE</u>	<u>WIDTH AT TOP</u>	<u>WIDTH AT BOTTOM</u>	<u>DEPTH OF TRENCH</u>
6 " " " -	3.0	2.6	6.6
8 " " " -	3.0	2.8	6.8
8 " " " -	3.3	2.10	6.10
10 " " " -	4.6	4.0*	7.0
12 " " " -	4.6	4.2	7.2
14 " " " -	4.9	4.4	7.4
16 " " " -	5.0	4.6	7.6

\* Depths of trench based on 6'0" of filling over pipe as protection against frost.

EARTH & ROCK TRENCHES

say lower half in solid rock  
upper " " earth

N.B. Rock supposed to be limestone  
and all blasted out.



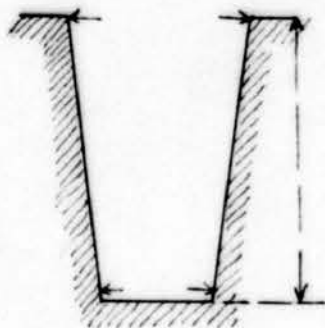
x

<u>4 INCH PIPE</u>	<u>WIDTH AT BOTTOM</u>	<u>WIDTH TOP OF ROCK</u>	<u>WIDTH STREET SURFACE.</u>
	2.6	2.6	4.6
6 " "	2.8	2.8	4.6
8 " "	2.10	2.10	4.9
10 " "	4.0	4.0	5.0
12 " "	4.2	4.2	5.2
14 " "	4.4	4.4	5.4
16 " "	4.6	4.6	5.6

x N.B. The width of rock branching will depend on getting at the desired width at the bottom, it is the interest of the Contractor to make his trench in rock wide enough to easily blast down to desired depth. if it can be done vertically from 1/2 depth down (as supposed above) which is hardly possible, & no loose rock left overhanging, it would answer. at top or half depth



EARTH TRENCHES



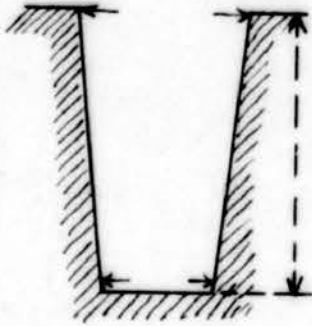
10  
 12  
 14  
 16  
 18  
 20  
 22  
 24  
 26  
 28  
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 76  
 78  
 80  
 82  
 84  
 86  
 88  
 90  
 92  
 94  
 96  
 98  
 100

4 INCH PIPE	WIDTH AT TOP	WIDTH AT BOTTOM
4	4.6	2.6
6	4.6	2.8
8	4.9	2.10
10	5.0	4.0 * N.B
12	5.2	4.2
14	5.4	4.4
16	5.6	4.6

\* N.B = Same width through level. Rock or earth at bottom based on 1.0" on each side of pipe for 4"-8", and 1 1/2" on each side of pipes up to 16" to allow of staving lead joint with comfort.

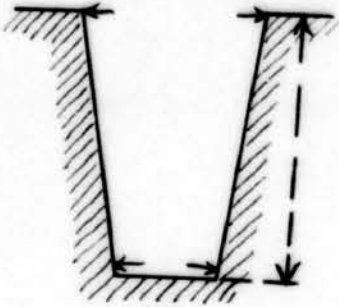
\* Width at top + slope of sides will naturally vary and depend on nature of ground - sometimes the trench may be carried up almost vertically, shored up here and there, but then a wider space must be left at one or both sides <sup>on top</sup> to allow of men walking along it.

EARTH TRENCHES



<u>4 INCH PIPE</u>	<u>WIDTH AT TOP</u>	<u>WIDTH AT BOTTOM</u>
6	▪	▪
8	▪	▪
10	▪	▪
12	▪	▪
14	▪	▪
18	▪	▪

SOLID ROCK TRENCHES



<u>4 INCH PIPE</u>	<u>WIDTH AT TOP</u>	<u>WIDTH AT BOTTOM</u>	<u>DEPTH OF TRENCH</u>
6 " "	" "	" "	" "
8 " "	" "	" "	" "
10 " "	" "	" "	" "
12 " "	" "	" "	" "
14 " "	" "	" "	" "
16 " "	" "	" "	" "

P49/C5,34

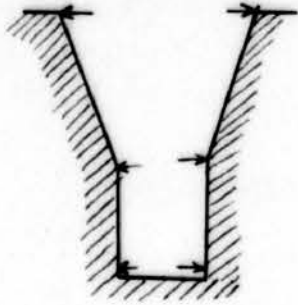
1 3 8

1 2 3 4 5 6 7 8

EARTH & ROCK TRENCHES

say lower half in solid rock  
upper " " earth  
----- " -----

N.B. Rock supposed to be limestone  
and all blasted out.



<u>4 INCH PIPE</u>	<u>WIDTH AT BOTTOM</u>	<u>WIDTH TOP OF ROCK</u>	<u>WIDTH STREET SURFACE.</u>
6 "	"	"	=
8 "	"	"	=
10 "	"	"	=
12 "	"	"	=
14 "	"	"	=
16 "	"	"	=

OTTAWA, CANADA.

JOHN GALT, C.E. AND M.E.  
CITY ENGINEER.



NEWTON J. KER, C.E.  
ASST CITY ENGINEER.

S ept. 18, 1900.

J. Emile Vanier, Esq.,  
Montreal,  
P.Q.

Dear Sir:-

In reply to yours of the 11th. I return herewith the three sheets with dimensions marked thereon. Of course you will understand that these are only approximate, as a great deal depends upon the conditions, for example, the character of the rock, also care and skill with which blasting is done, the material overlying the rock, etc.

Yours truly,

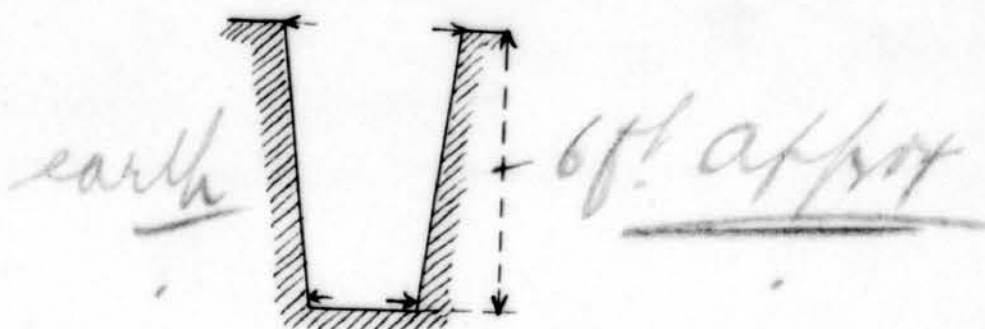
City Engineer.

Encl.

P49/C5,34

1 2 3 4 5 6 7 8

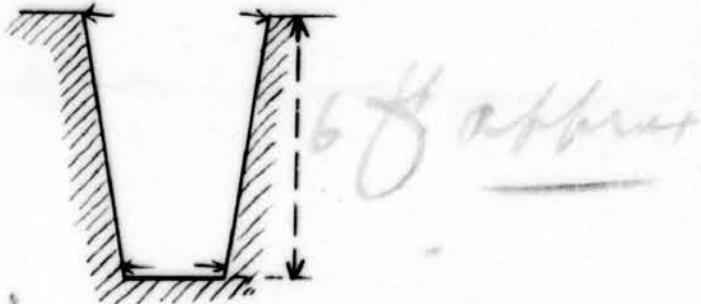
EARTH TRENCHES



<u>4 INCH PIPE</u>	<u>WIDTH AT TOP</u>	<u>WIDTH AT BOTTOM</u>
6 " "	24 18	18
8 " "	24 18	18
10 " "	30 24	24
12 " "	30 24	24
14 " "	30 24	24
16 " "	33 30	28

*Part*

SOLID ROCK TRENCHES



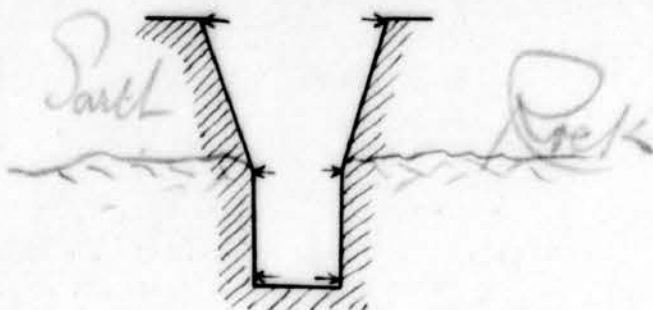
<u>4 INCH PIPE</u>	<u>28</u> <u>WIDTH AT TOP</u>	<u>WIDTH AT BOTTOM</u>	<u>DEPTH OF TRENCH</u>
6 " "	- 28	18	
8 " "	- 28	18	
10 " "	- 24	22	
12 " "	- 24	22	
14 " "	- 30	26	
16 " "	- 30	26	

*Spelt*

EARTH & ROCK TRENCHES

say lower half in solid rock  
 upper " " earth  
 ----- " -----

N.B. Rock supposed to be limestone  
 and all blasted out.



<u>4 INCH PIPE</u>	<u>WIDTH AT BOTTOM</u>	<u>WIDTH TOP OF ROCK</u>	<u>WIDTH STREET SURFACE.</u>
6 " " "	18 "	18 "	30
8 " " "	18 "	18 "	30
10 " " "	22 "	22 "	33
12 " " "	22 "	22 "	33
14 " " "	26 "	26 "	36
16 " " "	26 "	26 "	36

Depth. 6 ft. approx  
 Salt  
 Ottawa





Montreal Water Works Shop,  
GRAND TRUNK STREET,

Montreal, 13<sup>th</sup> Sept 1890

R. Jos. Marin. Esq  
Supt  
M. W. W.

Dear Sir I have yours of the 12<sup>th</sup> inst  
with enclosure, which I now return  
along with the information you  
ask for. I have made no variation;  
in my past or present experience  
between all clay,  $\frac{1}{2}$  &  $\frac{1}{2}$  or Solid  
Rock Cuttings or Trenches. The figures  
now furnished you; are based on  
the supposition that the earth  
has not been previously disturbed  
or not close to other cuts for Sewers  
Gas pipes &c. Yours Resp  
J. Thompson

P49/C5,34

1 4 4

1 2 3 4 5 6 7 8



Montreal Water Works Shop,

GRAND TRUNK STREET,

Montreal, *Sept 13* 189*9*00

*Earth Trenches*

<i>4 in pipe</i>	<i>2 1/2 + 2 1/2 + 5 1/2</i>	<i>depth</i>
<i>6 do</i>	<i>2 1/2 + 2 1/2 + 5 1/2</i>	<i>do</i>
<i>8 do</i>	<i>3 + 3 + 6</i>	<i>do</i>
<i>10 do</i>	<i>3 + 3 + 6</i>	<i>do</i>
<i>12 do</i>	<i>3 1/2 + 3 1/2 + 6</i>	<i>do</i>
<i>16 do</i>	<i>4 + 4 + 7</i>	<i>do</i>

*J. Thompson*

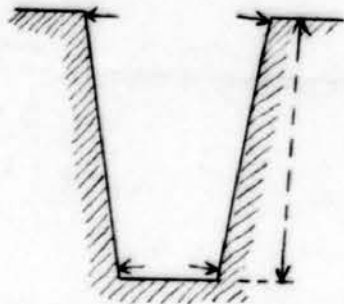
*The Same Measurements will  
Apply to Cuts 1/2 Rock & 1/2 Clay  
100 - 100. All Rock.*

P49/C5,34

1 4 5

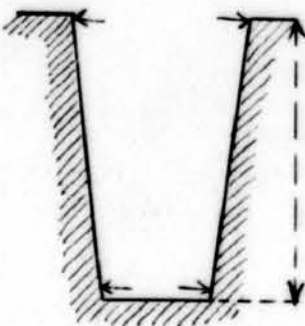
1 2 3 4 5 6 7 8

SOLID ROCK TRENCHES



<u>4 INCH PIPE</u>	<u>WIDTH AT TOP</u>	<u>WIDTH AT BOTTOM</u>	<u>DEPTH OF TRENCH</u>
6 " " =			
8 " " =			
10 " " =			
12 " " =			
14 " " =			
16 " " =			

EARTH TRENCHES



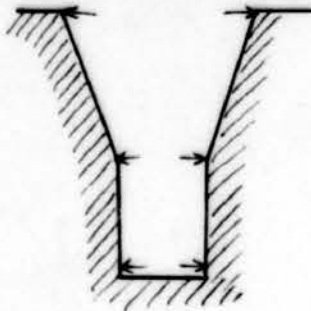
<u>4 INCH PIPE</u>	<u>WIDTH AT TOP</u>	<u>WIDTH AT BOTTOM</u>
6	▪	▪
8	▪	▪
10	▪	▪
12	▪	▪
14	▪	▪
16	▪	▪

EARTH & ROCK TRENCHES

say lower half in solid rock  
 upper " " earth

XXXXXXXXXX " XXXXXXXXXXXXX

N.B. Rock supposed to be limestone  
 and all blasted out.



*Water pipe trench  
 2 1/2 ft deep*

<u>INCH PIPE</u>	<u>WIDTH AT BOTTOM</u>	<u>WIDTH TOP OF ROCK</u>	<u>WIDTH STREET SURFACE.</u>
" "	"	"	"
8 "	"	"	"
10 "	"	"	"
12 "	"	"	"
14 "	"	"	"
16 "	"	"	"

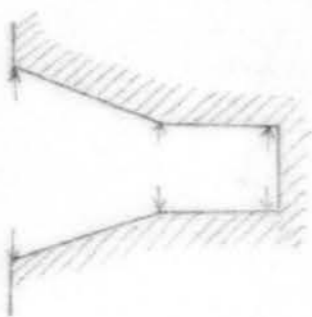
Water pipe trenches  
City of Montreal

8	"	"	"
10	"	"	"
12	"	"	"
14	"	"	"
16	"	"	"

INCH SIZE

DEPTH AT BOTTOM WIDTH TOP OF TRENCH

SPACING



and all placed out.  
 E.g. Jack removed to be removed

width of trench  
 and lower part in width  
WIDTH OF TRENCH

0

0

*Drummond, McCall & Co.*  
*Iron, Steel and Metal Merchants.*

*Montreal, Sept. 21st, 1900*  
*Canada.*

OFFICES:  
CANADA LIFE BUILDING,  
ST. JAMES & ST. PETER STS

J. E. Vanier Esq.,

Montreal.

My Dear Vanier,

I have to leave for Ottawa at 10 o'clock unexpectedly. I have seen Wm. Hanson and told him to meet you at 11 o'clock, and have also given him an idea of what is necessary. You had better call him up on the phone however and have him meet you about 10 o'clock, so that you can give him any advice necessary.

Yours faithfully,

*Thos. J. Drummond*

Dict. by T.J.D.

P49/C5,34

1 5 0

1 2 3 4 5 6 7 8

**J. EMILE VANIER.**  
 Civil Engineer & Architect,

PROVINCIAL LAND SURVEYOR,

OFFICE

107 St. James Street.

Montreal, Sept. 21st, 1900.

TOWN OF St. LOUIS  
ESTIMATE OF AMOUNT TO BE PAID BY MONTREAL WATER  
& POWER Co. FOR TRENCHING AND BACKFILLING,  
TO THE CORPORATION OF THE TOWN OF St.  
LOUIS ON THE FOLLOWING Sts. WHICH  
ARE EITHER ACTUALLY OPEN OR IN  
THE COURSE OF BEING OPENED

340	BOULEVARD (from St. Urbain to Park Ave.) Running ft. of trenching and back filling for 6" pipe, made by the Corporation.....at	0.25	\$235.00	
402	(From Park Ave. Westwards.) Running ft. of trenching and backfilling for 6" pipe made by Corporation.....at	0.71	285.42	
930	<u>VILLENEUVE St.</u> (from St. URBAIN St. to PARK Ave.) Running ft. of trenching and backfilling for 6" pipe, made by Corporation.....at	0.55	511.50	
1516	<u>ESPLANADE St.</u> (from Mount Royal to Boulevard St.) Running ft. of trenching and backfilling for 6" pipe, made by Corporation.....at	0.44	667.04	
1518 1/2	<u>MANCHE St.</u> (from Mount Royal to Boulevard.) Running ft. of trenching and backfilling for 6" pipe, made by Corporation.....at	0.48	698.51	
1005	<u>CASGRAIN St.</u> - (from north of Maguire to north of Visteur.) Running ft. of trenching and backfilling for 6" pipe, made by Corporation.....at	0.15	150.75	\$2548.22
	TOTAL.....			\$2548.22

P49/C5,34

1 5 1

1 2 3 4 5 6 7 8



complément P.C.

28 Sept. 1900

A.F. Vincent Ecr-  
Sec. Trés.  
Corporation Ville St. Louis P.Q.

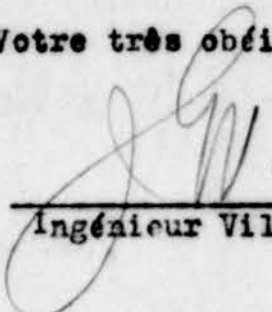
Cher Monsieur,

J'ai l'honneur de vous adresser ci-jointe la lettre  
supplémentaire à la proposition de la MONTREAL WATER & POWER, re regle-  
ment de comptes avec votre Ville.

J'ai vu M.M., les directeurs et je leur ai donné  
les explications que vous m'aviez chargé de leur transmettre, je crois  
que cette lettre couvre tout et la proposition devient ainsi très com-  
plète.

J'ai l'honneur d'être, cher Monsieur,

Votre très obéissant serviteur,

  
\_\_\_\_\_  
Ingénieur Ville St. Louis.

P49/C5,34

1 5 2

1 2 3 4 5 6 7 8

CANADA  
PROVINCE DE QUÉBEC.  
DISTRICT D  
COUR SUPÉRIEURE  
Pour la Province de Québec.

*Comptes de la Co  
des par la Co  
A. W. and B.*

*L'honorable Louis Bouchard.*

DEMANDE *en*

*La ville St Louis, <sup>1858</sup>  
Leonidas Villeneuve et*

DÉFENSE *en*  
*mis en cause*

VICTORIA, par la grâce de Dieu, reine du Royaume-Uni de la Grande-Bretagne et d'Irlande, défenseur de la foi, et impératrice des Indes ;

*A James Laurin, ingénieur des côtes et des ports  
de Montréal*  
A la demande de *la défenderesse*

en cette cause nous vous commandons sous les peines de droit, de comparaître personnellement devant notre dite cour Supérieure siégeant au palais de Justice, à *Montréal*, à dix heures et demie de l'avant-midi le *neufième* jour de *Octobre courant* pour rendre votre témoignage en cette cause et votre présence y sera requise heure par heure et jour par jour jusqu'à ce que vous soyez légalement libéré

En foi de quoi nous avons fait apposer aux présentes le sceau de notre dite Cour Supérieure, à *Montréal*, ce *huitième* jour de *Octobre* mil neuf

(Signé) *Edmund Barry*  
*Protonotaire.*

(VRAIE COPIE)

*Bessillon & Brossard*  
Avocat de la défenderesse

P49/C5,34

1 5 3

1 2 3 4 5 6 7 8

No. 3130

ENQUÊTE ET MÉRITE  
CHAMBRE NO.

**Cour Supérieure.**

DISTRICT DE *Montréal*

*L'honorable Louis Beaudin*

*Demande en*

*La Ville de St-Louis*

*L. Villeneuve*

*Défense en  
sa cause.*

**SUBPŒNA.**

Copie pour

No. 78

rue

*Avenue LaSalle*

Montréal.

Pour renseignements le témoin peut s'adresser à

M

Procureur d

No.

rue

*trouvé à  
St 8.00  
9 oct 1902*

C. TINKER, Editeur en Loi, 11 et 13 rue St-Jacques, Montréal.

No. 59

P49/C5,34



CANADA  
PROVINCE DE QUÉBEC.  
DISTRICT D  
COUR SUPERIEURE  
Pour la Province de Québec.

L'honorable Louis Beaubien

DEMANDE *en*

La Ville de St Louis <sup>vs</sup>

Leonidas Villeneuve *et al.*

DÉFENSE *mise*  
*en cause*

VICTORIA, par la grâce de Dieu, reine du Royaume-Uni de la Grande-Bretagne et d'Irlande, défenseur de la foi, et impératrice des Indes;

A J. Emile Vanier, *Commissaire civil, des cités & District de Montréal*  
A la demande de *la défendesse*

en cette cause nous vous commandons sous les peines de droit, de comparaître personnellement devant notre dite cour Supérieure siégeant au palais de Justice, à *Montréal* à dix heures et demie de l'avant-midi le *dix-septième* jour de *Décembre courant* pour rendre votre témoignage en cette cause et votre présence y sera requise heure par heure et jour par jour jusqu'à ce que vous soyez légalement libéré

En foi de quoi nous avons fait apposer aux présentes le sceau de notre dite Cour Supérieure, à *Montréal* ce *quinzième* jour de *Décembre* mil neuf cent *vingt*

(Signé) *L. D. Gervais*

*Dep.* Protonotaire.

(VRAIE COPIE)

*Bessillon & Brossard*

*Avocat des Demandes.*

P49/C5,34

1 2 3 4 5 6 7 8

No. 3130

ENQUÊTE ET MÉRITE  
CHAMBRE NO.

**Cour Supérieure.**

DISTRICT D

*Demande*

73

*Défense*

**SUBPOENA.**

Copie pour *M. Emile Vandi.*

No.           rue

Montréal.

Pour renseignements le témoin peut s'adresser à

M

Procureur d

No.           rue

*ai été taxé pour  
2 jours les 17 + 18 Dec 1900  
? \$  
M. des Vallées Greffier*

C. TUBOURT, Editeur en Loi, 11 et 13 rue St-Jacques, Montréal.

No. 3130

P49/C5,34

1 5 6

1 2 3 4 5 6 7 8

WHITE, O'HALLORAN & BUCHANAN

ADVOCATES

W. J. WHITE, QC      G. F. O'HALLORAN

A. W. P. BUCHANAN

Cable Address: "WHITESCO"

New York Life Building

Montreal, 12th. Jan., 1901

*Wishes to see  
off. reference to P. 10  
see 11-12-13*

J. Emile Vanier Esq.,

City.

My dear Vanier,

I tried to get you yesterday on the telephone in reply to yours of the 11th., but you were unfortunately out. No doubt Mr. Drummond has communicated with you before this. The Company insist on having legislation to make matters right.

Yours faithfully,

*W. J. White*

P49/C5,34

1 2 3 4 5 6 7 8

*St. Louis  
refferment Engle  
avec M. W. P. Co.*

14 Janvier 1901

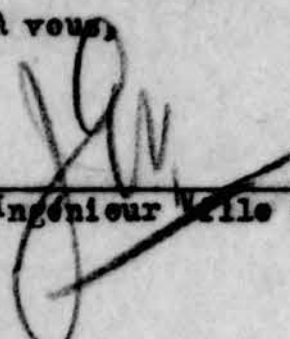
A.F. Vincent Sec-  
Sec. Tres.  
Ville St. Louis P.Q.

Cher Monsieur,

Pour faire suite à la conversation que nous avons eue  
aujourd'hui avec Mr. BISAILLON au sujet de la Montreal Water & Power  
Co., je crois qu'il serait opportun que vous demandiez au Maire et à  
M.M. les membres du Comité spécial de venir me rencontrer ici demain  
à 9 heures. Mr. BISAILLON sera ici et je crois qu'il y aura du nouveau  
qui pourra rencontrer les vues des intéressés.

Venez aussi.

Bien à vous,

  
\_\_\_\_\_  
Ingénieur Ville St. Louis.

P49/C5,34

1 5 8

1 2 3 4 5 6 7 8

le 14 Janvier 1901

après midi 4 1/2 h.

rite End & M. W. P. Co.

examen nouvelles propositions  
de la Cie — clause de 10% —  
enlevée —

West Louis

off. règlement  
compte  
avec Cie 2<sup>e</sup> an



1<sup>st</sup> - 5 years on interest on whole amount  
of \$63,000.00. present value = \$51,783.65  
at Compound int at 4%.

2<sup>d</sup> - \$3,000.00

Payable.

- 1<sup>st</sup> - 20,000. in 5 years on interest
- 2<sup>d</sup> - 21,000. " 10
- 3<sup>d</sup> - 21,000 " 15
- 4<sup>th</sup> - 21,000 " 20

All based on 4% Compound interest  
Present value as follows.

1 <sup>st</sup> =	\$16,438.17
2 <sup>d</sup> =	14,186.88
3 <sup>d</sup> =	11,660.51
4 <sup>th</sup> =	9,584.09
	<hr/>
	\$51,869.65
	51,783.65
	<hr/>
	86.00

*Valley from  
an account with  
for M. W. P. Co*

15th January 1901

Hanson Brothers  
Canada Life Building  
C i t y.

Dear Sirs,

Re adjustment of accounts with MILE END, I have this morning in my office the Mayor with Committee and legal adviser all discussion pending matter.

The question of relative cash values of former and present proposal of your Company is under discussion.

The point is this, viz:

1st PROPOSAL \$68000.00, \$15000.00 payable in five years without interest, \$16000.00 payable in 10 years with interest at 4%.

\$16000.00 payable in 10 years de \_\_\_\_\_ de \_\_\_\_\_

\$16000.00 de \_\_\_\_\_ de \_\_\_\_\_ de \_\_\_\_\_

For these last three amounts interest at 4% to run only after one first payment of \$15000.00 has been made.

2nd. PROPOSAL \$23000.00, \$20000.00 payable in 5 years without interest.

\$21000.00 \$21000.00 de \_\_\_\_\_ 10 years without interest.

(2)

\$21000.00 de \_\_\_\_\_ in 15 years without interest

\$21000.00 de \_\_\_\_\_ in 20 years without interest.

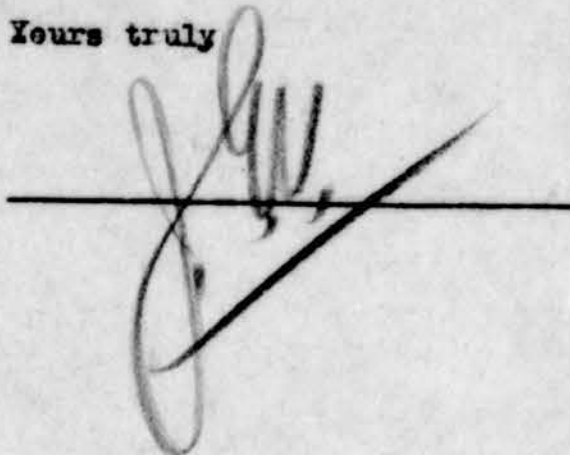
The problem to resolve will be the following:

What would a party going to bank with these two series of amounts to discount on a 4% interest basis would get in actual cash at once?

As I say interest to be 4% all around.

A private answer to the above in the shortest time possible would greatly accommodate,

Yours truly

A handwritten signature in dark ink, appearing to be 'J. H. W.', is written over a horizontal line. The signature is stylized and somewhat cursive.

P49/C5,34

1 2 3 4 5 6 7 8

Cable address.  
"HANSON" MONTREAL.  
MEMBERS MONTREAL STOCK EXCHANGE

EDWIN HANSON.  
WILLIAM HANSON

*Hanson Bros.,*  
*Government, Municipal & Railway Ventures.*  
*Canada Life Chambers, St. James Street.*

*Montreal, Jan. 15th, 1901.*

J.E. Vanier, Esq.,  
City.

Dear Sir:-

We have yours of the 15th, and in reply may say that, as we make the calculation, the present value of the offer contained in the Montreal Water & Power Company's letter of yesterday is exactly \$90.00 more than the offer contained in their letter of September last, so that the rough calculation that was made in the Company's office turns out to be almost right to a dollar.

Yours very truly,

*Hanson Bros.*

*P.S. It is noted the two offers are  
practically the same thing  
HHS*

P49/C5,34

1 2 3 4 5 6 7 8

*V. M. H. from  
H. H. H. H. H.  
Comp. Co. H. H.  
M. H. H. H. H.*

Montreal 22nd January 1901.

Joseph Beaubien Esq-  
M.S.R'y Building  
C i t y.

Dear Sir,

Referring to your letter of January 21st addressed to our President Mr. EDWIN HANSON, I beg to say in reply that the propositions therein contained have been very fully discussed by the directors of this Company, and I think the decision of the Board was clearly placed before you verbally yesterday.

So far as the 1st part of your letter is concerned which applies to settlement of past claims, we cannot see our way clear to accept your suggestions.

In regard to the alterations you suggested in our proposal of the 14th instant relative to the future, we may say that we are really indifferent, and we are inclined to think that the changes you propose would be to our benefit.

However, the whole affair is now before the Council and as a member of that body (Mr. Gohier) was present at the meeting Yesterday at which we explained our position to you. The Council will doubtless be fully advised of the result of that conference.

Yours faithfully,  
(signed Thos. J. Drummond Vice-Prest. M.W & P. Co.)

25 Jan 1901

ville de Louis  
généralment  
Comptes  
par M. P. G.

A son Honneur le Maire et  
à M.M. les Echevins de  
la Ville St. Louis -

Messieurs,

Les soussignés constitués en Comité Spécial en vertu d'une  
résolution aux fins de discuter avec la Cie.

MONTREAL WATER & POWER, les moyens de régler les difficultés pendan-  
tes entre elle et la Corporation et fixer ses rapports quant à l'ave-  
nir relativement à l'extension de l'aqueduc dans les nouvelles rues,  
ont l'honneur de faire rapport:

Qu'à la suite des procédures prises par l'Hon. LOUIS BEAUBIEN  
pour faire mettre de côté l'acceptation par votre Conseil, les propo-  
sitions faites par la Compagnie en date des 27 et 28 Septembre derniers,  
les soussignés ont demandé et obtenu la permission de discuter à nou-  
veau les diverses questions en litige entre la Compagnie et la Corpo-  
ration et obtenir si possible des propositions plus favorables.

Que la Compagnie a accédé à la demande des soussignés, et  
qu'à la suite de nombreuses entrevues, la Cie. a finalement consenti  
à faire les propositions contenues dans trois lettres, marquées res-  
pectivement 1, 2, 3, lesquelles sont annexées au présent rapport.

Les soussignés ont maintenant l'honneur de suggérer:

1<sup>o</sup> Que la proposition de la Cie. mentionnée dans la lettre No. 1  
ne devait pas être acceptée par le Conseil à moins que l'ar-  
ticle 1<sup>er</sup> soit modifié en substituant après les mots,

"The following sums on the dates stated"

\$22500.00 le 1<sup>er</sup> Janvier 1906  
\$22500.00 le 1<sup>er</sup> Janvier 1911  
\$22500.00 le 1<sup>er</sup> Janvier 1916  
\$22500.00 le 1<sup>er</sup> Janvier 1921

2<sup>o</sup> Que la proposition mentionnée dans la lettre No. 2 ne soit  
acceptée qu'en autant que l'article 2, soit amendé comme suit:

(2)

\* The Corporation to have the right to extend the system for the supply of water on streets north of the CANADIAN PACIFIC RAILWAY tracks the cost of which chargeable to the Company shall not exceed the sum of fifty thousand dollars -

When desirable the Corporation may connect said system to the water mains of St. Denis Ward provided the Company shall not be compelled to obtain or pay for right of way and provided further that the Company shall not be bound to supply water through the said St. Denis Ward system in contravention of agreement entered into between the Company and the City of Montreal, or in the case of the sale by the Company of the said St. Denis Ward system.


In all cases where such connections are made proper valves shall be placed as directed by the Company's Engineer."

Et que l'article "5" soit amendée en y ajoutant les mots suivants:

"When the Corporation shall have notified the Company of its intention of laying pipes on a certain street, the Company will state in writing the amount for which it can supply, and lay such pipes, and is willing to contract for same if so desired by the Corporation."

Et que \$50,000.00 soit substitué au montant de \$25,000.00 dans le paragraphe 8.

Le tout respectueusement soumis,

  
\_\_\_\_\_  
Ville St. Louis  
ce 25 Janvier 1901.

P49/C5,34

1 2 3 4 5 6 7 8

*Atkins compte  
avec M. G. V. B. Es*

29 Janvier 1901

Personnelle.

P.J. Bisailon Ecr- Avocat  
C i t é -

Cher Monsieur,

Dans l'affaire de la Ville St. Louis et de la MONTREAL WATER & POWER Co. les choses sont réglées pour ce qui concerne les résolutions adoptées de part et d'autre, mais il reste un document notarié à préparer basé sur le règlement effectué.

La compagnie a transmis à M. WHITE, son avocat, tous les documents qui concernent cette affaire et l'a prié de s'entendre avec vous pour dresser ce document.

La compagnie a déjà autorisé ses officiers à signer pour elle, et à St. Louis il reste à donner l'autorisation au Maire et au secrétaire de signer ce document.

Maintenant, cher monsieur, j'attire votre attention sur les faits importants suivants, savoir:

1<sup>o</sup> Que la dernière assemblée du Conseil actuel de St. Louis doit avoir lieu jeudi soir de cette semaine.

2<sup>o</sup> Qu'il est de toute importance que le document en préparation



(2)

soit signé par le maire VILLENEUVE, le nouveau maire devant être élu  
lundi prochain -

3o. Que M. WHITE part en voyage pour sa santé demain soir mercredi.

4o. Qu'il est absolument nécessaire que la révision de ce document soit faite par vous et arrive au conseil jeudi soir tout révisé et prêt à signer.

Ainsi vous voyez qu'il n'y a pas de temps à perdre et que tous les amis comptent absolument sur vous pour que vous fassiez tous les pas et démarches nécessaires pour voir M. WHITE et clore cette affaire sans délai.

Il y a là, la dernière main à mettre à cette affaire qui nous occupent déjà depuis longtemps.

S'il vous plaît ne pas oublier -

Bien à vous,



---

*Ville de  
Louis +  
la M. W. P. Co  
réglément  
Compte*

1er Février 1901

*Règlement de compte  
avec la "M. W. and P. Co."*  
COMPTES RENDUS

A.F. Vincent Ecr-  
Sec, Tres.  
Corp. Ville de St. Louis -

DEC31 1900

Cher Monsieur,

En réponse à la remarque que vous me faisiez ce matin je  
dois vous dire que la réclamation de votre Ville qui a été soumise à  
la "MONTRÉAL WATER & POWER Co." pour travaux d'aqueduc et accessoires,  
en septembre dernier, et qui a été discutée depuis qu'on projette de  
régler finalement pour \$90,000.00, comprend tous les ouvrages énumérés  
en détail dans les états que j'ai préparés et qui sont datés les 17 &  
21 septembre 1900 respectivement, pas plus ni moins.

C'est exactement et absolument tout ce qui a été trans-  
mis à la Compagnie, et par conséquent les tuyaux à l'eau posés sur les  
rues du terrain de l'exposition et la rue Casgrain, ainsi que tous ser-  
vices par M.M. les contracteurs BASTIEN & VALIQUETTE l'automne dernier  
après le 21 Septembre resteront à réclamer de la Compagnie d'Eau en sus  
de ce qui peut être porté au contrat d'arrangement adopté hier soir

P49/C5,34

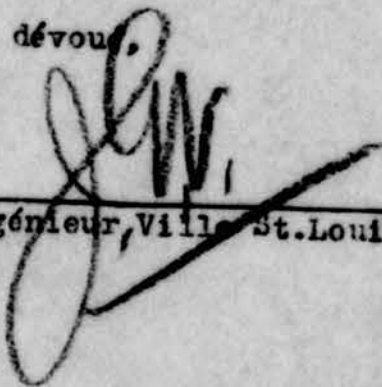
1 2 3 4 5 6 7 8

(2)

par votre Conseil.

Il n'y peut y avoir de doute là-dessus la chose est très bien établie.

Votre tout dévoué.

  
Ingénieur, Ville St. Louis.

P49/C5,34

1 2 3 4 5 6 7 8

3 copies

1

# The Montreal Water & Power Co.

Dr. To.

## The Corporation of the City of St. Louis

Statement showing the amount of <sup>water</sup> pipes laid by the Corporation of the Town of St. Louis for the Montreal Water & Power Co. according to the agreement of Feb. 1<sup>st</sup> 1901

### I. North of C.P.R'y.

#### Park St. (from Van Hornes to Pacific Av.)

791 feet of 10" pipe with specials, valves, hydrants etc.	\$	1262	84	
791 feet of trenching and backfilling @ 0.30		237	30	
20 " " " " (1 hydrant) @ 0.30		6	00	✓ 1506 14

#### Manice St. (from Pacific Av. to C.P.R.)

1490 feet of 6" pipe with specials, valves, hydrants etc.	\$	1365	44	
1490 " of trenching and backfilling @ 0.30		447	00	
39 " " " " (3 hydrants) @ 0.30		11	70	✓ 1823 14

#### St. George Street (from Pacific Av. South)

380 feet of 6" pipe with specials, valves, hydrants etc.	\$	371	17	
380 " of trenching and backfilling @ 0.30		114	00	
16 " " " " (1 hydrant) @ 0.30		4	80	✓ 489 97

#### Clarke Street (from Atlantic to Chemin)

1611 feet of 6" pipe with specials, valves, hydrants etc.	\$	1417	55	
1611 " of trenching and backfilling @ 0.30		483	30	
32 " " " " (2 hydrants) @ 0.30		9	60	✓ 1910 45

#### St. Lawrence (from Pacific Av. to Comte)

1249 feet of 10" pipe with specials, valves, hydrants etc.	\$	1945	81	
1249 " of trenching and backfilling @ 0.30		374	70	
42 " " " " (3 hydrants) @ 0.30		12	60	✓ 2333 11

#### St. Dominic Street (from Beaubien Southward)

446 feet of 6" pipe with specials, valves, hydrants etc.	\$	417	92	
446 " of trenching and backfilling @ 0.30		133	80	
11 " " " " (1 hydrant) @ 0.30		3	30	✓ 555 02

#### De Gaspé Ave. (from Beaubien to Comte)

924 feet of 6" pipe with specials, valves, hydrants etc.	\$	872	32	
924 " of trenching and backfilling @ 0.30		277	20	
22 " " " " (2 hydrants) @ 0.30		6	60	1156 12

Forward

\$ 9773.95

<u>Brought forward</u>				9773 95
<u>Olma Ave (Susan to Combe)</u>				
2588 feet	6" pipe with specials, valves, hydrants etc.	2245 93		
2588	of trenching and backfilling @ 0.30	876 40		7
33	(3 hydrants) @ 0.30	9 90	✓	3132.23
<u>Sanguinet St. (North and South of Beaubien)</u>				
700 feet	10" pipe with specials, valves, hydrants etc.	1200 42		
700	of trenching and backfilling @ 0.30	210 00		
22	(2 hydrants) @ 0.30	6 60	✓	1417.02
<u>Susan Street (from Maize to Sanguinet)</u>				
166 feet	10" pipe with specials, valves, hydrants etc.	345 29		
166	of trenching and backfilling @ 0.30	49 80		
10	(1 hydrant) @ 0.30	3 00	✓	398.09
<u>Atlantic Ave. (from Maize to Maize)</u>				
54 feet	12" pipe with specials, valves, hydrants etc.	143 11		
54	of trenching and backfilling @ 0.30	16 20	✓	159.31
<u>Pacific Ave. (from Sans to St. Lawrence St.)</u>				
1617 feet	10" pipe with specials, valves, hydrants etc.	2633 16		
1617	of trenching and backfilling @ 0.30	485 10		
31	(3 hydrants) @ 0.30	9 30	✓	3127.56
<u>Beaubien St. (from St. Lawrence to limits)</u>				
1246 feet	10" pipe with specials, valves, hydrants etc.	1943 25		
1246	of trenching and backfilling @ 0.30	373 80		
24	(3 hydrants) @ 0.30	7 20	✓	2324.25
<u>II. South of C.P.R'y.</u>				
<u>Waverley St. (from Mansard St. Northward)</u>				
350 feet	6" pipe with specials, valves, hydrants etc.	372 48		
350	of trenching and backfilling @ 0.30	105 00		
22	(1 hydrant) @ 0.30	6 60		484.08
150 feet	6" pipe (between the 150' meeting with above St. W. St. Ave.) @ 1.25	159 60		
150	of trenching and backfilling @ 0.30	45 00		688.68
<u>Gaspare Ave. (from end of actual pipe to end of back trench)</u>				
581 feet	6" pipe with specials, valves, hydrants etc.			632.67
<u>Maize Ave (from Mont Royal to Mansard)</u>				
1518 feet	6" pipe with specials, valves, hydrants etc.			1511.33
<u>Forward</u>				23165.09

Brought forward			23165 09
<u>Esplanade Ave.</u> (from Mount Royal to Boulevard)			
1516 feet	6" pipe with specials, valves, hydrants etc.		1368 51
<u>Villeneuve St.</u> (from St. Urbain to Park)			
930 feet	6" pipe with specials, valves, hydrants etc.		950 54
<u>Boulevard</u> (from St. Urbain to end of pipe and from Park to St. Joseph St.)			
620 feet	6" pipe with specials, valves, hydrants etc.		677 54
<u>Boulevard</u> (from Cadieux St. to George St. - 1/2 mile)			
275 feet	6" pipe with specials, valves, hydrants etc.	345 04	
275 .	trenching and backfilling @ 0.30	82 50	427 54
<u>Colmie Street.</u>			
450 feet	4" pipe with specials, valves, hydrants etc.	341 03	31
450 .	trenching and backfilling @ 0.30	135 00	476 03
<u>Total</u> for pipes, specials, hydrants, lead, gas fuel and labor, etc.			27065 25

Montreal, <sup>December 31 1902</sup> ~~January 24<sup>th</sup> 1903~~.

Prepared by:  
 ✓  
 Engineer Town of St. Louis -

aguedes  
 30/10/11

January 24 - 1903

(4)

Statement showing amounts payable to the ~~City~~ Corporation of the Town of St. Louis by the Montreal Water & Power Co. for cuts for private services as per agreement of the 1st of February 1901. —

1900

Villeneuve Street  
 October 15 J. Beaudet 25' of trenching and backfilling @ 0.20 4.60  
 St. Dominick Street.

26 Eng. Thémont 21.5' . . . . . @ 0.20 4.25  
 Mount Royal Ave.

November 19 A. F. Riopelle 25' . . . . . @ 0.20 5.00  
 13.95

1901

St. Lawrence Street

A. G. Morin 32' of trenching and backfilling @ 0.20 6.40

F. Gobeille 42' . . . . . " " 8.40

J. Guilbault 42' . . . . . " " 8.40

Jos. Mantel 22' . . . . . " " 4.40

F. Gobeille 42' . . . . . " " 8.40

St. Urbain Street

Reeves, brothers 35' of trenching and backfilling @ 0.20 7.00

L. Gallary 35' . . . . . " " 7.00

St. George Street

Paquette 33' of trenching and backfilling @ 0.20 6.60

Mance Street

Walker 30' of trenching and backfilling @ 0.20 6.00

A. G. Fraser 30' . . . . . " " 6.00

F. G. Wooster 30' . . . . . " " 6.00

Boulevard

F. Smith 50' of trenching and backfilling @ 0.20 10.00

Park Ave.

R. A. Mason 40' of trenching and backfilling @ 0.20 8.00

City Hall Ave.

L. Parent 25' of trenching and backfilling @ 0.20 5.00

Forward 115.73  
 111.45

P49/C5,34

1 7 4

1 2 3 4 5 6 7 8

1902

Brought forward.		\$
<u>City Hall Ave (continued)</u>		<del>111</del> 73 111 4.5
P. Ducharme - 25' of trenching and backfilling at	0.20	5 00
<u>Waverley Street.</u>		
Thos. Mc. Bean 30' of trenching and backfilling at	0.20	6 00
<u>Carduiz Street</u>		
G. Germani 25' of trenching and backfilling at	0.20	5 00
<u>St. Dominick Street.</u>		
Victor Esdus. 30' of trenching and backfilling at	0.20	6 00
<u>Clarke Street.</u>		
Joseph Beaumont 30' of trenching and backfilling at	0.20	6 00
J. O. Larose 30' " " " " "		6 00
H. Gobeille 28' " " " " "		5 60
<u>St. Urbain Street</u>		
Reeves, Brothers 36' of trenching and backfilling at	0.20	7 20
George Ebel 33' " " " " "		6 60
J. Maranda 30' " " " " "		6 00
<u>Waverley Street</u>		
Rock Magnan 30' of trenching and backfilling at	0.20	6 00
Robert Neville, jr 30' " " " " "		<del>6 00</del>
W. Swift 25' " " " " "		5 00
Robert Neville, jr 30' " " " " "		6 00
A. Wand 25' " " " " "		5 00
George Soliquin 25' " " " " "		5 00
Eli Savoi. 25' " " " " "		5 00
<u>Mance Street.</u>		
W. J. Bailey 25' of trenching and backfilling at	0.20	5 00
F. J. Wooster 30' " " " " "		6 00
W. J. Bailey 30' " " " " "		6 00
George Moritt 30' " " " " "		6 00
<u>Park Ave.</u>		
Adolphe Duperrault. 35' of trenching and backfilling at	0.20	7 00
R. Hubert 37' " " " " "		7 40
R. Neville 42' " " " " "		8 40
Forward		<del>254.93</del> 254.65



Brought forward		<del>259 43</del>
<u>Park Ave. (continued)</u>		255 65
R. Neville	42' of trenching and backfilling @ 0.20	8 40
<u>St. Georges Street</u>		
J. Frappier	24' of trenching and backfilling @ 0.20	4 80
<u>Boulevard</u>		
C. David (M <sup>re</sup> )	50' of trenching and backfilling @ 0.20	10 00
<u>St. Louis Street</u>		
Alphonse Gauthier	37' of trenching and backfilling @ 0.20	7 40
<u>St. Dominique Street</u>		<del>286 25</del>
Paul Demers	28' of trenching and backfilling @ 0.20	5 60
A. Daigneault	10' " " " " " "	2 00
<u>Casgrain Ave.</u>		293 85
Brother Charest	29' of trenching and backfilling @ 0.20	5 80
D. Plouffe	30' " " " " " "	6 00
<u>Cardina Street</u>		
V. Paquette	30' of trenching and backfilling @ 0.20	6 00
D <sup>r</sup> Demers	30' " " " " " "	6 00
<u>City Hall Ave.</u>		
Montreal Street & Over	25' of trenching and backfilling @ 0.20	5 00
<u>Villeneuve Street</u>		
Economist Villeneuve	30' of trenching and backfilling @ 0.20	6 00
<u>Elmire Street</u>		
J. Demers	24' of trenching and backfilling @ 0.20	4 80
J. Demers	24' " " " " " "	4 80
<u>Exe (South Dept. Ave)</u>		
O. H. Setage	15' of trenching and backfilling @ 0.20	3 00
<u>Sanguin Street</u>		
M <sup>re</sup> Delorme	20' of trenching and backfilling @ 0.20	4 00

~~329 53~~  
344 25

Montreal, December 31, 1902  
January 24<sup>th</sup> 1903.

Prepared by:  
Engineer Town of St. Louis.

19 Oct. 06  
 Montréal le 19 Octobre 1905

*A copies fautes  
 avec suite dans le coin  
 pour chaque copie à la 1<sup>re</sup> feuille*

Etat des sommes dues <sup>la Ville</sup> et à être remboursées à  
 la Corporation de la Ville de St Louis, Comté d'Hotelaga P.Q.  
 par la Municipal Water & Power Co<sup>te</sup> pour travaux d'égout  
 exécutés par la dite Ville depuis au vertu d'arrangements spéciaux  
 consignés dans des actes notariés.

*à g. de  
 des*

1<sup>o</sup> Reflément de comptes antérieurs  
 travaux exécutés antérieurement au 1<sup>er</sup> Février 1901.  
 (Voir document notarié n° 2598. Mc Lemay, Fair Cameron  
 1<sup>er</sup> février 1901).

La Compagnie d'eau par ce reflément  
 doit rembourser à échéances fixes à la  
 Ville de St Louis, la somme de \$ 90,000.00

2<sup>o</sup> Travaux exécutés en 1901 et 1902  
 (voir état du 31 décembre 1902)

<u>Avenue du Parc</u> , de Van Home à Ave. Pa-	\$	1506 14	ces chiffres comprennent la branche à 30 <sup>de</sup> du pied courant.
cifique,		1823 14	
<u>Rue Manca</u> , de Ave. Pacifique à C.P. Riv.		489 97	
" <u>St Georges</u> , " " " en allant		1910 45	
vers le nord,		2333 11	
" <u>Charles</u> , de rue Atlantique à Chénier,		555 02	
" <u>St Laurent</u> , " " Pacifique à Cante,		1156 12	
" <u>St Dominique</u> , " Beaubien en allant vers		3132 23	
le sud,		1417 02	
" <u>de Gaspé</u> , de Beaubien à Cante,		398 09	
" <u>Alma</u> , " Suzanne " "		159 31	
" <u>Sauvegarde</u> , au sud et au nord de		3127 56	
Beaubien,		2324 25	
" <u>Suzanne</u> , de Alma à Sauvegarde,		688 68	
" <u>Atlantique</u> , de Manca à Manca,			
" <u>Pacifique</u> , de Parc à St Laurent,			
" <u>Beaubien</u> , " St Laurent à limite			
" <u>Waverley</u> , de Bernard vers le nord			
" <u>Casparin</u> , du bout actuel du tunnel			
d'eau à aller au bout de			
l'égout construit,			
à reporter			
	\$	632 67	
	\$	21653 77	

		Report	\$2165376	90000 00
	Rue <u>Mance</u> , de Mont Royal à Boulevard		1511 33	
	" <u>Eplanade</u> , " " " "		1368 51	
	" <u>Villeneuve</u> , " St Urbain à Parc,		2453 360	
X	" <u>Boulevard</u> , " " à aller au bout du tuyau d'eau actuel, et de Parc à Hetchis ou,		950 54	
X	" <u>de</u> de Cadieux à Georges Hypolite		677 54	
X	" <u>Eluire</u> , En culter,		427 54	
			476 03	2706525

3<sup>e</sup> travaux de 1903 et 1904

	<u>Rue Sanguinet</u> , de l'extrémité actuelle du tuyau d'eau au nord de Beaulieu, à St Zolique, et de de au sud de Beaulieu, à Coute,		2762 83	
	" <u>de Gaspé</u> , de Coute vers le sud " St Zolique " " "			
	" " " à Sanguine,		1266 77	
	" <u>Caspeur</u> , de Coute vers le sud " " " " nord " Beaulieu " " sud " " " " " sud " St Zolique " " "		1696 98	
	" <u>St Laurent</u> , de Pacifique à aller à la dernière maison au nord de Atlantique,		2266 52	
	" <u>St Urbain</u> , de Pacifique vers le nord " Atlantique " " sud " " " à Beaumont		1512 73	
	" <u>Waverley</u> , de " " "		1376 86	
	" <u>Grande Ave</u> , " Waverley à limite nord,		1878 84	
	" <u>St Georges</u> , " bout à duel tuyau d'eau au nord de Pacifique, à aller à dernière maison, et de Atlantique à C.P. Ry.		889 38	
	" <u>du Parc</u> , de Pacifique vers le nord jusqu'à la dernière maison, et de Atlantique à Beaumont, à reporter		1148 86	
			\$14799 77	1706525

do - do - do -

	Report	
Rue <u>Mance</u> , de Beauumont à limites nord,		\$1479977
" <u>Hutchison</u> , de Beauumont à limites nord et de Beauumont vers le sud,		\$1706525
" <u>Atlantique</u> , de St Laurent à St Urbain, de St Urbain à Mance et de Mance à Parc,		70806
" <u>Beauumont</u> , En autres,		95492
" <u>Comte</u> , de de Gaspe à Caspian,		451981
" <u>St Zotique</u> , " <u>Saufrant</u> à C		231181
" <u>St Jeanne</u> , " " <u>Cote ouest</u> à		90723
" <u>Comte</u> de <u>do</u> ,		156178
" <u>Mance</u> , de Bernard vers le nord,		3075
" <u>Waverley</u> , de bout actuel jusqu'au cur nord de Bernard à aller à Van House,		16640
" <u>St Georges</u> , de Bernard en allant vers le nord,		23029
" <u>St Urbain</u> , de Bernard en allant vers le nord		111220
" <u>Lauretta</u> , " <u>St. Dominique</u> à Caspian,		61288
" <u>Atlantique</u> , <sup>valoir de 12" sur le plan C.P.R. pour la ville de St. Jean sur le plan de 1866</sup> <u>St. Jeanne</u> <sup>1866</sup>		31791
<u>St. Jeanne</u> <sup>1866</sup>		63973
		10000
		28973.54
		214785
<u>Rue Saugouinet</u> , de Comte en allant vers le sud jusqu'à 30 pieds de la ligne sud de St Charles,		
" " <u>del'avenue du depot</u>		219444
" " <u>a'aller à la rue Carmel</u> ,		77750
" " <u>à partir de 30 pieds au sud de St Charles, en allant vers l'ave. du depot.</u>		23311
		320505
		149943.84

N.B. Les travaux d'aqueduc tels que St Charles récents pour le compte de la Cie. Philipp ne sont pas compris ici.  
 sur #2749.60

518.30  
 259.20  
 777.50

do-do-do

do-do-do

Report

Services de l'Ingenieur sur do soit 5%  
 Total pour tout ce qui est prévu -  
 Total, y compris franchises  
 30 centim le p.d. comme  
 suivant Convention notariée.

\$14924384  
 746219  
 \$15670603

5<sup>o</sup> franchises des services prévus  
à 20 centim le p.d. comme à  
été remboursés à la Ville par  
la Cie d'eau, suivant arrange-  
ments.

Franchises de services pour l'année 1901.	#	11960	
" " " " " 1902		21080	
" " " " " 1903		27540	
" " " " " 1904		57590	209593
" " " " " 1905		91823	118170
Grand total dû par la Cie. d'eau à la Ville de St Louis, au 31 dec. 1904			<u>15788473</u>

~~N.B. Les franchises de services pour 1905 lesquelles sont en l'absence au moins égales à celle de 1904 seront établies vers la fin oct. 1906.~~

\$ 158801.96

Montreal 19 Octobre 1906

x VI

Ingenieur Ville de St Louis

Ville de St. Louis.

18 mars 1907.

Monsieur Tauxer,

Contrairement à ce que vous  
a signalé M<sup>r</sup> Vincent, les  
sommes dues par la Montreal  
Water and Sewer Co<sup>re</sup> pour  
les travaux d'aqueduc exécutés  
par la Corporation dans les rues  
ci-après désignées, figurent  
dans le rapport ci-joint  
du 19 octobre 1906 :

- 1<sup>re</sup> Elmest (en entier) — 476.03
- 2<sup>o</sup> Boulevard <sup>de St. Urbain en haut 677.54</sup>  
<sup>de St. Urbain en bas 677.54</sup>  
<sup>de St. Urbain en haut 677.54</sup>  
<sup>de St. Urbain en bas 677.54</sup>
- 3<sup>o</sup> Tanguet (Dépôt à Carniel)
- 4<sup>o</sup> Laurette (de St. Dominique  
Cadieux) 639.73

*[Signature]*

le 30 Mai 1907.

A.F. Vincent, Scr.,  
Secrétaire - Trésorier  
Ville de St. Louis -

*La copie au bureau a été  
renuise à Vincent  
ici au bureau (20 fois)  
le 23 sept 1909  
D.*

Cher Monsieur,

Au sujet de ce que vous me parliez il y a quelques jours  
et se rapportant à ce que la MONTRÉAL WATER & POWER COMPANY devait à  
la VILLE DE ST. LOUIS au 31 décembre dernier, je ne puis faire mieux que  
de vous renvoyer au mémoire très complet et très détaillé que je vous  
adressais l'automne dernier et lequel est daté le 19 Octobre 1906 de con-

*ten de tous les comptes rapportés au 31 décembre 1905. excepté pour ce qui concerne  
le contrat de location au bureau.*

Au montant mentionné à ce rapport, soit,..... \$158801.96  
*Il faut ajouter; les ouvrages faits à la Philippe electoral* 2749.60

~~Il faut ajouter,...~~  
*444* L'Ordre de paiement No.1 du 1er. Avril 1906  
pour travaux de tuyautage d'aqueduc et ac-  
cessoires, donné à Mr. RASTIEN, soit..... 11336.52

*444* L'ordre No.2 du 6 Nov. pour do, soit,..... 14971.68

*444* Tranchées de services privés pour 1906,  
environ,..... 827.20

*444* Les longueurs de tranchées principales  
à 30 cts. sur lesquels les travaux RASTIEN  
de 1905 et 1906 ont été faits et compris  
dans les deux ordres ci-dessus, lesquelles  
longueurs se montent à 9950 pieds environ,  
ou à,..... 2985.00

*444* Honoraires payés à J. Hauman en 1906, re aqueduc,  
ou un total de,..... 1124.43

duquel il faudrait déduire la somme ~~de 22500.00~~  
*perçues par votre Ville en accor-*  
*perçues de la Co d'o au au a Compt, le 1<sup>er</sup> Janvier 1906, soit 22500.00*  
~~de 22500.00, et enfin tenir compte des intérêts.~~ 170321.39

J'ai l'honneur d'être, cher Monsieur,  
Votre bien dévoué,

Ingénieur Ville de St. Louis -

P49/C5,34

1 8 2

1 2 3 4 5 6 7 8

Ag-Ville  
Arb.

3 Juin 1907.

A.F.Vincent, Ecr.,  
Secrétaire - Trésorier  
Ville de St.Louis -

Cher Monsieur,

J'ai l'honneur de vous expédier présentement copie clavigraphiée d'un des comptes de votre Ville vs "MONTRÉAL WATER & POWER COMPANY" et portant la date du 19 Octobre 1906 - Le tout en conformité avec la demande que vous me faisiez vendredi de la semaine dernière.

J'ai l'honneur d'être, cher Monsieur,

Votre très obéissant serviteur,

V.  
-----  
Ingénieur Ville de St.Louis -



Montreal le 17 Mars 1908

M. A. F. Vincent, Secrétaire Trésorier de la  
Ville de St. Louis

Cher Monsieur

J'ai l'honneur de vous transmettre  
un état détaillé des sommes dues par  
la Montreal Water & Power Co à la Corporation  
de la Ville de St. Louis, pour travaux  
d'égoutte exécutés en 1907, par la  
dite Ville en vertu d'arrangements  
spéciaux avec la Compagnie.

Le montant total se chiffre à \$ 74237.31.  
dont détail suit:

~~Les~~ Travaux exécutés par le  
Contracteur J. Badiou

(a) Rues au Nord du C.P.R.

Maquart	6643 91
Rauquinet	2742 00
Alues	3471 94
de Gache	3516 84
Cooprain	6828 96
St. Dominique	453 00
Clarke	1152 51
St. Urbain	2550 00
Comte	6000 00
St. Louis	2733 37
Neaud	58 68
Suzanne	3422 08
Bulle	1576 80
Meril	1711 46
Cherrier	967 63

à reporter

43829 18

765 74

	Repart		
Beaumont		43829 18	
Shauley		219 20	
Boss		1506 00	
		<u>152 11</u>	
<del>Materiaux sur les lieux</del>		<del>3000</del>	45706 49

(b) Rues au sud du C.P.R.

Vau Noire		11550 00	
St Laurent		3428 62	
Clarke		356 26	
St Urbain		4146 20	
Waverley		334 81	
St Georges		4184 89	
Maire		7409 39	
Claremont		552 00	
St Viateur		11342 24	
Mazure		1451 40	
de Roche		1693 60	
Lauretta		1033 21	46982 62
			<u>192689 11</u>

De ce montant il faut deduire les mandats 1 et 2 emis en 1906, soit

26308 20

\*66380 91

Balance pour 1907

Le montant a ete paye par les mandats 3, 4, 5, 27 + 31 -

2° Le remboursement a raison de 0,30¢ par pied de tranchée principale pour les rues sur lesquelles les travaux Bastien ont ete faits

La longueur totale approximative se monte a environ 8604 pieds pour 1907, y compris les branchements aux bornes fontaines, @ 30¢

\* 2581 20

68962 11

18554  
2950  
8604

Report

68962.11

3<sup>e</sup> Tranches de services  
précis pour 1907.

1827.10.

4<sup>e</sup> Honoraires des Juges  
sur les deux 1<sup>o</sup> et 2<sup>o</sup> soit  
5% sur une somme de 41947.15.

3448.10

Total =

74237.31

4 copies

Montreal March 17<sup>th</sup> 1908

A. F. Vincent Esq.  
Sec. Treas. Town of St Louis,  
County of Hochelaga P. Q.

Dear Sir,

I beg to hand you herein below a detailed statement of the amounts due by Bygon Corporation by the Montreal Water Power Co. for pipe laying done in 1907 under existing agreements, and this exclusively for the year 1907.

1<sup>st</sup> Work done under contract by

Mr. J. Bastien.

(a) Work done at the C.P. Ry Tracks

St. Lawrence Street	#6643.90
Saufermet — "	2742.00
Alma — "	3471.94
de Gaspé — "	3516.84
Casparin — "	6828.96
St. Dominique — "	453.00
Clarke — "	1152.51
St. Urbain — "	2550.00
Comte — "	6000.00
St. Zoti'que — "	2733.37
Maud — "	58.68
Suzanne — "	3422.08
Bulles — "	1576.80
Marcil — "	1711.46
Cherries — "	967.63
Beaumont — "	219.20
Stanley — "	1506.00
Baff — "	152.11
	<u>45706.92</u>

(b) South of the C.P. Rights

Vauclerc Street	#11050.00
St Lawrence "	3428.62
Clarke "	356.26
St Urbain "	4146.20
Waverley "	334.81
St George "	4184.89
Mance "	7409.39
Claremont "	552.00
St Viateur "	11342.24
McJannet "	1451.40
de Gaspe "	1698.60
Laquette "	1033.21
	<u>46982.62</u>

From which there is to deduct that  
 as per  
~~the~~ ~~Company~~ in 1905-1906 and  
 charged to  
~~the~~ ~~Company~~ in a previous  
 report, viz:

Balance for 1907 = 26308.20  
66380.91

(as included in certificate of payment ~~to~~ N<sup>o</sup> 2  
 3.14.5.27 + 31 to Mr T. Bastien)

2<sup>o</sup> Trenching and refilling of main  
 trenches as per agreement with Company

8604 running of trenching, including hydrant  
 in inches @ 30¢ 2581.20  
 (see credit assessment rolls for above also -  
 by sent to Sec. Treas. with sewer rolls)

3<sup>o</sup> Trenching for private services  
 as per agreement

See detailed report of private services  
 trenches already sent to Sec. Treas. for

year 1907.  
 4<sup>o</sup> Engineer's services on ~~work~~ #68962.11 1827.10  
 1 that work done in 1907 and  
 chargeable to Company - } 3448.10  
74237.21

4448.00  
 74237.21  
 3  
 70789.21

\* Engineer Town of St Louis

J. EMILE VANIER  
Ingenieur Civil et Architecte

BUREAU:  
NO. 5 SQUARE BEAVER HALL  
MONTREAL

*Comptes de la M. W. P. Co.  
Aq. Vincent*

Montréal, March 17th, 1908

A.P. Vincent, Esq.,  
Secretary-Treasurer  
Town of St. Louis  
County of Hochelaga, P.Q.

*L'original de ce doc.  
resté chez moi  
avec copie a Vincent  
pour ses archives  
dupliqués d'envoyer la  
même lettre de lui*

Dear Sir,

I beg to hand you herein below a detailed statement of the amounts due by your Corporation by the MONTREAL WATER & POWER COMPANY, for pipe laying done in 1907 under existing agreements, and thus exclusively for the year 1907.

10. WORK DONE UNDER CONTRACT BY  
MR. T. BASTIEN

<u>(a) North of the C.P.R.'y tracks</u>		
+ ✓	St. LAWRENCE Street,.....	\$6643.91 ✓ +
+ ✓	SANGUINET ".....	2742.00 ✓
+ ✓	ALMA ".....	3471.94 ✓ +
+ ✓	DeGASPE ".....	3516.84 ✓ +
+ ✓	CASGRAIN ".....	6828.96 ✓ +
+ ✓	St. DOMINIQUE ".....	453.00 ✓ -
+ ✓	CLARKE ".....	1152.51 ✓ -
+ ✓	St. URBAIN ".....	2556.00 ✓
+ ✓	COMTE ".....	6000.00 ✓
+ ✓	St. ZOTIQUE ".....	2733.37 ✓
+ ✓	MAUD ".....	58.68 ✓
+ ✓	SUZANNE ".....	3422.08 ✓
+ ✓	BULLER ".....	1576.80 ✓
+ ✓	MARCIL ".....	1711.46 ✓
+ ✓	CHARRIER <i>Chemin</i> ".....	987.63 ✓
+ ✓	BEAUMONT ".....	219.20 ✓
+ ✓	STANLEY ".....	1506.00 ✓
✓	BAGG ".....	152.11 ✓ -
		<u>45706.49</u>
<u>(b) SOUTH OF THE C.P.R.'y TRACKS</u>		
+ ✓	VAN-HORNE Street,.....	11050.00 ✓ -
+ ✓	St. LAWRENCE ".....	3428.62 ✓
+ ✓	CLARKE ".....	356.26 ✓
+ ✓	St. URBAIN ".....	4146.20 ✓
+ ✓	WAVERTLEY ".....	334.81 ✓
+ ✓	St. GEORGE ".....	4184.89 ✓
+ ✓	MANCE ".....	7400.39 ✓
+ ✓	CLAREMONT ".....	552.00 ✓
+ ✓	St. VIATEUR ".....	11342.24 ✓
+ ✓	McGUIRE ".....	1451.40 ✓
+ ✓	DeGASPE ".....	1693.60 ✓
+ ✓	LAURETTA ".....	1033.21 ✓
	Carried over,.....	<u>\$46932.62</u>
		<u>\$92869.11</u>

Brought forward,.. \$92689.11

From which there is to be deduct that part made in 1905 & 1906 and charged to the Company in a previous report, viss,..... 26308.20

BALANCE FOR 1907 = \$66380.91 ( as included in certificates of payment Nos. 3,4,5,27 & 31 to Mr.T.BASTIEN)

2a. TRENCHING AND REFILLING OF MAIN TRENCHES AS PER AGREEMENT WITH COMPANY.

8604 Running feet of trenching, including hydrant branches,.....at 0.30 2581.20 ( see credit assessment rolls for above already sent to Sec. Treas. with sewer rolls)

3a. TRENCHING FOR PRIVATE SERVICES AS PER AGREEMENT -

See detailed report of private services trenches already sent to Sec. Treas. for year 1907,..... 1827.10

4a. ENGINEER'S SERVICES ON \$68962.11,. 3448.10

TOTAL WORK DONE IN 1907 AND CHARGEABLE TO COMPANY,..... \$74287.31

~~Engineer Town of St.Louis -~~

Montreal, February 22 1909.

A. Vincent Esq.

Secretary. Treasurer.

Town of St. Louis.

County of Hochelaga I.C.

Ag. Vallee St. Louis  
Comptroller  
M. St. Louis

Dear Sir.

I beg to hand you herein below a detailed statement of the accounts due to your Corporation by the "Montreal Water Board Co" for pipe laying done in 1908 under existing agreements.

1° Work done under contract by Mr. J. Bostien

(a) Streets North of C.P.R. tracks

Bagg (from St. Lawrence to N.W. limits of the Town)	3190 22
Clarke (Between Bagg & Stanley Sts.)	1602 69
Eveline do — do —	139 50
St. Claire do — do —	261 00
Alcaudra (from Avenue to Bagg)	3438 13
Laue (from Alcaudra to Grande Ave.)	894 00
Stanley (from St. Lawrence to limits of track)	2239 33
Beaumont (from Clarke going west)	323 79
Atlatique (from Park to Hutchison)	1045 40
Park (Atlatique to near Pacific)	2242 50
Laue along the C.P.R. North line of the C.P.R. from St. Urbain to near Beauv.	1413 75

(b) Streets South of C.P.R. tracks.

12-1-43 from Park to Hutchison	889 71
Tilleneuve (from City Hall Ave. to limits of Montreal)	981 82
Boulevard (St. Dominique to St. Urbain)	2534 82
Cadieux (from St. Louis towards South)	1183 55
Werguin (St. Lawrence to St. Dominique)	988 47
	<hr/>
	23208 68

From that amount shall be deducted the following amounts which were charged to the Company in my



Assessment for

Trucking

Trucking

Trucking

Trucking for 1908

(In accordance with the provisions of the Act  
No. 22 of the 22nd Session of the Legislature of the Province of Quebec)

To Trucking - Re-filling of  
tanks in the agreement with the

376 Summary list of trucking including  
by road business (C.P.)  
(The above assessment rolls for  
this class have been sent to the  
Commissioner of the Board of  
Assessment)

To Trucking for private business  
in the agreement

The above list of private business  
trucking already sent to the  
Commissioner for  
year 1908

To Trucking for private business  
in the agreement  
The above list of private business  
trucking already sent to the  
Commissioner for the year 1908

23208.68

Previous report of March 17<sup>th</sup> 1908,

viz:

Beaumont Ave.	219.70	
Stanley	1506.00	
Bagg	152.11	
Clarke	1152.51	\$ 3029.82

Balance for 1908.

\$ 20138.86

(as included in certificates of payment  
No 33, 35, 36, 37, 39, 41, 42 & 44 to Mr. J. Pasten)

2<sup>o</sup> Trenching & Refilling of Main  
Trenches as per agreement with the Co.

3346 Running feet of trenching including  
hydraul trencher @ 30<sup>o</sup>  
(See credit assessment rolls for  
above already sent to Sec. Treas. with  
sewer rolls)

\$ 6003.80

3<sup>o</sup> Trenching for private service  
as per agreement.

See detailed report of private service  
trenches already sent to Sec. Treas. for  
year 1908.

1674.60

4<sup>o</sup> Engineer's services on 5% \$ 21182.66  
items 1 & 2

\$ 1059.13

Total amount of work done in 1908  
and chargeable to the Company.

\$ 23916.39

Engineers Town of St Louis

Konig 13/09

Notes de Préparation du compte  
ci-joint -

Titre Supplémentaire

	Proche de principale Ponds 1815	Montant Réparti
<u>Bagg</u> - Répartition des services		
envoyé au secrétaire =	1815	272.25
A ajouter:		
Traverse Rue St. Laurent = 42' @ 0.30		12.60
" de Louis Clarke, Excluse		
St. Clair & Alameda = 264' @ 0.15		39.60
<del>Alameda</del> Pavé de bornes fontaines -		
<u>Alameda</u>		
Répartition	907	136.05
A ajouter:		
1/2 largeur de Bagg = 33 @ 0.30		9.90
1/2 " " Alameda = 33 @ 0.30		9.90
Tranche pour 2 bornes fontaines		
port 32' @ 30¢		9.60
<u>Stanley</u> (excluse et Excluse & Excluse) (excluse)		
Répartition	768	115.20
A ajouter:		
Largeur de Excluse, St. Clair port 66 @ 0.15		9.90
Tranche pour 1 borne fontaine 18' @ 0.30		5.40
<u>Atlantique</u>		
Répartition	5267	78.90
A ajouter:		
Traverse rue Parc jusqu'à l'égout port 33 @ 0.30		9.90
<del>Reconstruction</del>		
Tranche pour une borne fontaine 18' @ 0.30		5.40
<u>Parc</u>		
Répartition	1808	271.20
A ajouter:		
Revenant du l'égout Rue Atlantique = 20' @ 0.30		6.00
2 bornes fontaines port 40' @ 30		12.00
		449.90
		1003.90

**EMILE VANIER**  
**Ingenieur Civil et Architecte**

BUREAU  
 NO. 6 SQUARE BEAVER HALL  
 MONTREAL

*Montréal*, 31st. December 1909

A.F. Vincent, Esq.  
 Secretary - Treasurer  
 Town of St. Louis -

Dear Sir,

I beg to hand you herein below a complete statement of the amounts due to your Corporation by "THE MONTREAL WATER & POWER Co." for pipe laying under existing agreements.

According to my report dated the 19th of October the amount due to your Corporation on the 31st. of December 1905 was,.....

In 1906 the amount disbursed by your Corporation and chargeable to the Company was,.....

From which amount shall be deducted the sum paid by the Company to your Corporation on the 1st. of January 1906,.....

Due to your Corporation on 31st./06. (see report dated May 20th 1907) -

In 1907 the amount paid by the Corporation for pipe laying has been,.... (see report dated March 17th 1908) -

For 1908 the amount due your Corporation was (see report dated February 22nd. 1909),.....

In 1909, the expense has been as follows:

10. WORK DONE UNDER CONTRACT BY T. BASTIEN  
 (a) Streets north of C.P.R. tracks -  
SANGUINET,.....  
St. DOMINIQUE, from Maud to Chemin du Sault,.....

Carried over,..

\$58801.96	
33999.43	
\$192801.39	
22500.00	
	\$170301.39
	74237.31
	23916.39
\$11149.67	\$268455.09

Brought forward,.. \$11149.67      \$268455.09

**1e. WORK DONE UNDER CONTRACT BY  
T.BASTIEN -**

**(a) STREET NORTH OF C.P.R. TRACKS**

<u>SANGUINET</u>	
<u>St. CHARLES</u> (from DeGaspé to C.P.R.)	393.91
<u>MAUD</u> (from St. Lawrence to St. Charles)	2011.28
<u>SHAMROCK</u> , .....	695.59
<u>CLARKE</u> from Atlantic to Bagg,...	2360.62
<u>St. URBAIN</u> from C.P.R. to near Atlantic, .....	4903.91
<u>St. GEORGE</u> (esplanade) from C.P.R. to Atlantique, .....	3484.62
<u>MANCHE</u> (from C.P.R. to Pacific, ..	1680.95
<u>PARC</u> (from Atlantique to near Pacific and from Beaumont to City limits, .....	3818.24
<u>EVELINE</u> (from Stanley to Bagg)	1452.06
<u>St. CLAIRE</u> " " " "	2686.45
<u>AVENUE</u> (from Ste. Claire to Alexandra),...	761.53
<u>LANE</u> , along C.P.R. tracks, .....	2766.15
<u>PACIFIQUE</u> from Park to Hutchison	960.10

**(b) STREETS SOUTH OF C.P.R. TRACKS**

<u>DeGASPE</u> from McGUIRE to DEPOT, ..	2261.45
<u>CASGRAIN</u> from North Lauretta to Depot Avenue, .....	711.05
<u>DEPOT AVENUE</u> , from St. Lawrence to Sanguinet -, .....	3377.61
<u>St. DOMINIQUE</u> (from Depot Ave. San- guinet going south, .....	1255.34
<u>CLAIRMONT AVENUE</u> , .....	686.75
<u>VAN HORNE AVENUE</u> , .....	13621.47
	<u>\$61038.75</u>

From that amount shall be deducted  
the following amounts which were charged  
to the Company in previous reports,  
vis:

<u>SANGUINET</u>	
C.P.R. Crossing not done, .....	\$660.00
Charged in 1907, .....	2742.00
<u>St. DOMINIQUE</u> (charged in 1907)	453.00
<u>MAUD</u> " " "	58.68

Carried over, \$3918.68      \$61038.75      \$268455.09

Brought forward,....	\$3913.68	\$61038.75	\$268455.00
<u>CLARKE</u> (charged in 1908)	1602.69		
<u>St.URBAIN</u> " " 1907)	2550.00		
<u>PARK</u> " " 1908)	2242.50		
<u>EVELINE</u> " " " )	139.50		
<u>Ste.CLAIRE</u> " " " )	261.00		
<u>LANE ALONG C.P.R. TRACKS</u>			
230ft.of pipe not laid at 3.25-747.50			
Charged in 1908,.....	1413.75		
	<u>2161.25</u>		
<u>DeGASPE</u> (charged in 1907)	1693.60		
<u>CLAIREMONT Ave.</u> " " " )	552.00		
<u>VAN HORNE AVENUE</u> ,.....	11050.00		
<u>COMTE STREET</u> ever charged in 1907	280.33		
<u>DEPOT AVENUE</u>			
452 ft.of pipe not laid,....	<u>1102.88</u>	<u>27549.48</u>	
BALANCE,.....			<u>\$23489.32</u>
2c. PAID to <u>GIRARD &amp; MARSOLAIS</u> for trench for water pipe on <u>MANCHE &amp; ESPLANADE</u> Streets, between <u>BOULEVARD St.JOSEPH &amp; LAURIER Ave.</u>			241.80
3c. Work done by <u>LAURIN &amp; LEITCH</u> on <u>Cadioux street</u> between <u>EVELINE &amp; BOULEVARD St.JOSEPH</u> ,.....			794.85
4c. <u>LAURIN &amp; LEITCH</u> contract dated November the 2nd. 1909 with additions as detailed in report of December 29th/09.....		9227.01	
To deduct from that amount for work not yet done,.....		<u>227.26</u>	8949.75
5c. <u>TRENCHING &amp; REFILLING MAIN TRENCHES AS PER AGREEMENT WITH THE COMPANY.</u> See detailed report of private services trenches already sent to Sec. Treasury for year 1909,...			1333.83
 			<u>\$316870.00</u>
Carried over,.....			

Brought forward,....		\$316870.02
<u>70.</u> Engineer's service 5% on items 1,2,3,4 & 5 - <u>\$47031.10</u>		<u>2351.55</u>
TOTAL AMOUNT,.....		\$319221.57

V,

\_\_\_\_\_  
Engineer Town of St.Louis -

RECEIVED  
MAY 13 1917





Brought forward,.....

\$11149.67 \$268455.09

10. WORK DONE UNDER CONTRACT BY  
T.BASTIEN -

(a) STREET NORTH OF C.P.R. TRACKS

<u>SANGUINET</u>	
<u>St. CHARLES</u> (from DeGaspé to C/P.R.	393.91
<u>MAUD</u> (from St. Lawrence to St. Charles	2011.28
<u>SHAMROCK</u> ,.....	395.59
<u>CLARKE</u> from Atlantic to Bagg,.	2360.62
<u>St. URBAIN</u> from C.P.R. to near Atlantique,.....	4903.91
<u>St. GEORGE</u> (Esplanade) from C.P.R. to Atlantique,.....	3484.62
<u>MANCE</u> ( from C.P.R. to Pacific,..	1680.95
<u>PARC</u> ( from Atlantique to near Pacifique and from Beaumont to City limits,.....	3818.24
<u>EVELINE</u> ( from Stanley to Bagg )	1452.06
<u>Ste. CLAIRE</u> " " " " )	2686.45
<u>AVENUE</u> ( from Ste. Claire to Alex- andra ),.....	761.53
<u>LANE</u> , along C.P.R. tracks,.....	2766.15
<u>PACIFIQUE</u> from Park to Hutchison	960.10

(b) STREETS SOUTH OF C.P.R. TRACKS

<u>DeGASPE</u> from McGUIRE to DEPOT,..	2261.45
<u>CASGRAIN</u> from North Lauretta to Depot Avenue,.....	711.05
<u>DEPOT AVENUE</u> , from St. Lawrence to Sanguinet -,.....	3377.61
<u>St. DOMINIQUE</u> ( from Depot Ave. San- guinet going south,.....	1255.34
<u>CLAIREMONT AVENUE</u> ,.....	686.75
<u>VAN HORNE AVENUE</u> ,.....	13621.47

\$61038.75

From that amount shall be deducted  
the following amounts which were charged  
to the Company in previous reports,  
viz:

<u>SANGUINET</u>	
C.P.R. Crossing not done,.....	\$660.00
Charged in 1907,.....	2742.00
<u>St. DOMINIQUE</u> ( charged in 1907)	453.00
<u>MAUD</u> " " "	58.68

Carried over,..... \$3913.68 \$61038.75 268455.09

Brought forward,...	\$3913.68	\$61038.75	\$268455.09
<u>CLARKE</u> ( charged in 1908)	1802.69		
<u>St.URBAIN</u> " " 1907)	2550.00		
<u>PARK</u> " " 1908)	2242.50		
<u>EVELINE</u> " " )	139.50		
<u>Ste.CLAIRE</u> " " )	261.00		

LANE ALONG C.P.R. TRACKS

230 ft.of pipe not laid at 3.25-747.50			
Charged in 1908,....	<u>1413.75</u>	2161.25	
<u>DeGASPE</u> (charged in 1907)	1693.60		
<u>CLAREMONT Ave.</u> " " )	552.00		
<u>VAN-HORNE AVENUE</u> ,.....	11050.6		
<u>CONGRES STREET</u> ever charged in 1907	230.33		
<u>DEPOT AVENUE</u>			
452 ft.of pipe not laid,....	<u>1102.88</u>	<u>27549.48</u>	

BALANCE,..... \$23489.32

20. PAID to GIRARD & MARSOLAIS for trench for water pipe on LANCE & ESPLANADE Streets, between BOULEVARD St.JOSEPH & LAURIER Ave. + 241.80

30. Work done by LAURIN & LEITCH on Cadioux street between EVELINE & BOULEVARD St.JOSEPH,..... 794.85

40. LAURIN & LEITCH contract dated November the 2nd. 1909 with additions as detailed in report of December 29th/09 ..... 9227.01

To deduct from that amount for work not yet done,..... 277.26 8949.75

50. TRENCHING & REFILLING MAIN TRENCHES AS PER AGREEMENT WITH THE COMPANY.  
See detailed report of private services trenches already sent to Sec. Treasury for year 1909,.... 1383.83

Carried over,..... \$316870.02

Brought forward,.....


\$316870.02

To. Engineer's service 5% on items  
1,2,3 4 & 5 - \$47081.10

2351.55

TOTAL AMOUNT,.....

\$319221.57

  
\_\_\_\_\_  
Engineer Town of St. Louis -

BOND

ST. LOUIS TOWN BOND

B

J. EMILE VANIER  
Ingenieur Civil et Architecte

BUREAU:  
NO 5, SQUARE BEAVER HALL  
MONTREAL

*ce état après avoir été  
examiné a été reconnu  
avoir suffi pour le*

Montréal, le 29 Mars 1910.

*A. F. Vincent*  
*A. G. Villiers*

A. F. Vincent, Ecr.,  
Ancien Sec. trés.  
de l'ex Ville de St.-Louis.

Cher Monsieur:-

En réponse à votre demande, j'ai l'honneur  
de vous transmettre deux copies anglaises du compte des  
sommes que la Montreal Water & Power Co. devait à l'ancienne  
Ville de Saint-Louis au 31 décembre dernier 1909.

J'ai l'honneur d'être, cher Monsieur,

Votre toujours dévoué,

*J. Emile Vanier*

Ancien Ingénieur Ville de St. Louis.

*M. L.*

SON BOND

J. EMILE VANIER  
Civil Engineer and Architect

OFFICE:  
NO. 6 BEAVER HALL SQUARE  
MONTREAL

Montreal, December 31st. 1909

A.F. Vincent, Esq.,  
Secretary Treasurer  
Town of St. Louis

Dear Sir,

I beg to hand you herein below complete and revised statement of the amounts due to your Corporation by The "MONTREAL WATER & POWER COMPANY" for pipe laying according to existing agreements between your Town and the said Company.

FIRSTLY - On the 31st of December 1905 according to my report dated October 19th, 1906 the amount due was,.....

\$158801.96

To which must be added the amount of the work done for "The Phillips Electrical Works" on St. Charles and deGaspé street,.....

2749.60

Engineers service, 5% on this amount of \$2749.60,.....

137.48  
\$161689.04

From this must be deducted the sum paid by the Company to your Town on the 1st. of January 1906, viz,.....  
Balance due,.....

22500.00

\$139189.04

SECONDLY Work done by contractor T. BASTIEN in 1905 and 1906

(a) STREETS NORTH OF C.P.R. TRACKS

St. LAWRENCE,.....

\$6472.41

SUZANNE,.....

2270.02

SANGUINET,.....

1392.00

ALMA,.....

1861.56

DeGASPE,.....

2573.03

CASGRAIN,.....

3338.26

BULLER,.....

1176.00

MARCIL (Erin),.....

1664.40

COMTE,.....

1808.00

St. DOMINIQUE,.....

292.00

St. URBAIN,.....

2028.00

(b) STREETS SOUTH OF C.P.R. TRACKS

VAN -HORNE,.....

7002.00

MANCE,.....

284.00

CLAIRMONT,.....

450.07

32111.75

Carried over,.....

\$171300.79

P49/C5,34

2 0 3

1 2 3 4 5 6 7 8

Brought forward,.....	\$171300.79
Trenching for private services in 1906 as per agreement,.....	827.20
<u>Engineer's services 5% on \$32111.75</u>	<u>1805.59</u>
<u>DUE ONE THE 31st. OF DECEMBER 1906</u>	<u>\$173733.58</u>

THIRDLY - WORK DONE IN 1907

(a) STREETS SOUTH OF C.P.R. TRACKS

<u>SANGUINET</u> -	\$1576.66
<u>St. DOMINIQUE</u> -	438.00
<u>CLARKE</u> -	1233.69
<u>COMTE</u> -	4539.91
<u>St. ZOTIQUE</u> -	1555.04
<u>MAUD</u> -	36.00
<u>BULLER</u> -	1827.24
<u>MARCIL</u> (Erin)	1938.77
<u>CHENIERE</u> -	333.69
<u>BEAUMONT</u> -	216.00
<u>STANLEY</u> -	1042.08
<u>BAGG</u> -	139.92

(b) STREETS SOUTH OF C.P.R. TRACKS

<u>St. LAWRENCE</u> -	2852.28
<u>CLARKE</u> -	273.83
<u>St. URBAIN</u> -	2343.29
<u>WAVERLEY</u> -	209.13
<u>St. GEORGES</u> -	1448.56
<u>MANCE</u> -	1923.44
<u>St. VIATEUR</u>	5508.19
<u>MAGUIRE</u> -	574.85
<u>DEGASPE</u> -	1646.89
<u>LAURETTA</u> -	810.96

\$32518.41

From which there is to be deducted that  
part made in 1906 and charged to the  
Company in previous report, viz:...

6616.40      \$25902.01

Trenching for private services  
in 1907 as per agreement,.....

1827.10

Engineer's services, 5% on \$25902.01 =

1295.60

DUE ON 31st. DECEMBER 1907

\$202757.79

Brought forward,.....

\$202757.79

Brought forward,.....

\$202757.79

FOURTHLY - WORK DONE IN 1908(a) STREETS NORTH OF C.P.R. TRACKS

<u>BAGG</u> -	\$2934.14
<u>CLARKE</u> -	1712.08
<u>EVELINE</u> -	132.30
<u>Ste. CLAIRE</u>	127.80
<u>ALEXANDRA</u> -	2146.87
<u>RUMBLE Alexandra à Grande</u> -	400.00
<u>STANLEY</u>	1661.59
<u>BEAUMONT</u>	317.71
<u>ATLANTIQUE</u>	1019.52
<u>PARC</u> -	2106.00

<u>LANE ALONG C.P.R. TRACKS</u>	783.00
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(b) STREETS SOUTH OF C.P.R. TRACKS

<u>12-1-43</u>	439.11
<u>VILLENEUVE</u> -	655.90
<u>St. JOSEPH BOULEVARD</u>	1198.06
<u>CADIEUX</u> -	294.67
<u>St. EUGENE</u> -	282.63
	<u>\$16211.33</u>

From which must be deducted the amounts charged to the Company in 1906 & 1907, viz:..

2681.69

13529.69

Trenching for private services in 1908 as per agreement -

1674.60

Engineer's services 5% on \$13529.69

676.48DUE ON DECEMBER 31st. 1908\$218638.56FIFTHLY - WORK DONE IN 1909(a) STREETS NORTH OF C.P.R. TRACKS

<u>SANGUINET</u> -	\$2620.66
<u>St. DOMINIQUE</u>	5932.00
<u>St. CHARLES</u> -	221.14
<u>MAUD</u> -	1286.19
<u>SHAMROCK</u>	768.81
<u>CLARKE</u> -	2632.32
<u>St. URBAIN</u> -	2555.31
<u>St. GEORGES</u>	1616.83
<u>MADE</u>	791.65
<u>PARC</u>	3713.43
<u>EVELINE</u>	1398.17

Carried over,.....

\$23536.56\$218638.56

Brought forward,.....	\$23536.56	\$218633.56
<u>Ste.CLAIRE</u>	1319.22	
<u>AVENUE -</u>	774.44	
<u>LANE NORTH OF C.P.R.</u>	786.94	
<u>PACIFIQUE</u>	792.24	
(b) <u>STREETS SOUTH OF C.P.R. TRACKS</u>		
<u>DeGASPE</u>	2195.31	
<u>CASGRAIN</u>	450.44	
<u>DEPOT AVENUE</u>	1567.64	
<u>St.DOMINIQUE</u>	539.60	
<u>VAN - HORNE</u>	8464.66	
	<u>\$40427.05</u>	
From this amount must be deducted what has been charged to the COMPANY in the reports of 1906, 07 & 08, viz:.....	<u>17988.72</u>	22438.33
Trenching for private services in 1909 as per agreement -		1383.23
Paid to <u>GIRARD &amp; MARSOLAIS</u> for trenching and refilling of water cut on <u>MANCE &amp; ESPLANADE</u> Sts. from Boulevard to Laurier -		241.30
Work done by <u>LAURIN &amp; LEITCH</u> on <u>CADIEUX</u> from Elmire to Boulevard St. Joseph,.....		794.85
<u>LAURIN &amp; LEITCH CONTRACT OF NOVEMBER 2nd. 1909 -</u>		
Material, pipe laying etc, including addition to contract on <u>HUTCHISON</u> street - ( See report of December 29th 1909)	6395.01	
5800 Running feet of trench,.....at 0.30	<u>1680.00</u>	
TO DEDUCT,.....	\$8075.01	
Work on <u>YVONNE STREET</u> not done amounting to about,.....	<u>300.00</u>	7775.01
Engineer's services on amount above mentioned, viz: \$22438.33, \$241.80, \$794.25, 7775.01 = \$21249.99		<u>1562.50</u>
TOTAL AMOUNT DUE BY THE COMPANY ON THE 31st DECEMBER 1909.....		\$252334.83

*J. Couteau*  
 Eng. Town of St. Louis



*E. G. M. J. J. J.*

December 31st. 1910.

Stuart Howard Esq. C. E.,  
Deputy City Surveyor,  
City-Hall,  
CITY -

Dear Sir:-

According to by-laws still in force at St.-Louis, (Laurier Ward) and pertaining to the establishment of cost of sewers to be paid by proprietors etc., we had before annexation and we did also last January and February, prepare special rolls called "ROLE DES REMISES AUX PROPRIETAIRES POUR TRANCHEES DES TUYAUX PRINCIPAUX D'AQUEDUC", et "ROLE DES REMISES POUR TRANCHEES DES SERVICES PRIVES D'AQUEDUC".

These rolls are special credits to be applied against charges to proprietors for cost of sewers, and these are at the same time debited against the Montreal Water & Power Co. according to existing contracts.

If you refer the whole matter to your employee Mr. Schiffelaers, who is perfectly acquainted with this question, he will be able now to prepare rolls in question.

This work was comprised in a special yearly engagement that I had with late Town of St.-Louis, but as same terminates to-day, it is up to your department to attend to it.

Yours truly,

P49/C5,34

207

1 2 3 4 5 6 7 8



*Stuart Howard*  
City Hall

Montreal Jan. 4th. 1911. 19

Mr. J. Emile Vanier, C.E.  
5 Beaver Hall Square,  
City.

Dear Sir;---

I beg to acknowledge receipt of your letter of the 31st. ultimo, regarding special rolls called "Role de remises aux propriétaires pour tranchées des tuyaux principaux d'aqueduc" and "Role des remises pour tranchées des services privés d'aqueduc".

Starting from the first of January we will arrange to look after these rolls ourselves.

Yours Truly,

*Stuart Howard*

Supt. of Sewers.

P49/C5,34

2 0 8

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*A. G. Kelly de  
St. Louis*

le 10 mai 1911 -

Mr. L. J. Pelletier,  
Contrôleur de la Cité de Montréal,  
Hôtel de Ville,  
Montréal -

Cher Monsieur,

En réponse à la vôtre du 9 du courant au sujet des travaux d'aqueduc exécutés à St. Louis, pour le compte de la Montreal Water & Power Co. jusqu'au 31 décembre 1909, je dois vous dire que des rapports de ce genre ont été dûment faits annuellement jusqu'à l'année ci-dessus mentionnée inclusivement, lesquels rapports ont été remis à l'ancien secrétaire de la Ville de St. Louis, Mr. Vincent, pour être déposés aux archives.

En vous adressant à ce Monsieur vous auriez certainement les rapports en question.

Dans tous les cas, je me tiens toujours à votre disposition pour l'aide dont vous pourriez avoir besoin dans cette affaire, comme dans toute autre qui serait de mon ressort.

En attendant, je demeure,

Votre bien dévoué,

*W*

P49/C5,34

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Hôtel de Ville

Montréal

9 mai 1911 19

Monsieur J.E. Vanier  
Ingénieur Civil.  
Montréal.

Cher Monsieur,

Permettez-moi de vous adresser ci-joint copie  
d'une lettre que je reçois à l'instant même de la Compagnie  
Montreal Water & Power Co, relativement à la créance de la Ville  
St. Louis contre la dite Compagnie.

Vous seriez bien aimable de me laisser savoir si  
les conclusions de cette lettre sont vraies et si c'est votre  
intention de préparer un rapport final du coût de l'aqueduc  
dans St. Louis, à la date du 31 décembre 1909 - date de l'annexion.-

Votre bien dévoué.

*Bellefleur*  
Contrôleur & Auditeur.

P49/C5,34



MONTREAL WATER & POWER CO.,

Montreal, May 8th, 1911.

(COPY)

L.J.Pelletier, Esq.

City Comptroller.

Montreal.

Dear Sir:-

Following our interview of last week, I beg to say that upon my return to the Office I asked our Engineering Department if they had received a statement of work done in St. Louis de Mile End showing a total of \$302,000.00 (a copy of which you showed me that day in your Office ) and although they were quite sure that no such statement had been received by us I asked them to make a thorough search and see whether or not it might have been side-tracked, but it seems now to be quite certain that the statement has never been received by us. The only one we have being the one dated 19th. of October, 1906, showing a total of work done to the 31st. of Dec. 1905, \$ 158,801.96 and we would therefore be much obliged to you if you would have a copy of the \$302,000.00 statement sent to us.

Yours truly,

MONTREAL WATER & POWER COMPANY.

(signed) A.M. Robb

Comptroller

P49/C5,34

1 2 3 4 5 6 7 8

*Quintin Lamoignon  
Procès-verbal d'une  
M. N. P. Co*

ÉXTRAIT

Forme 305-M-6-11

Assemblée du Bureau des Commissaires,

Tenu le 10 Juin, 1912.

Il est

RESOLU: - De prier l'Ingénieur en Chef de se rencontrer avec M. l'Ingénieur Vanier pour reviser les divers montants chargés à la Cie Montreal Water & Power Co. et formant une somme totale de \$302,703.01 pour travaux d'aqueduc dans l'ancienne Ville St Louis.

*Compte fait  
25939*

(Certifié)

(Signé) L. N. Senécal,

Secrétaire.

Copie..-

*Transmis à M. l'ingénieur  
Vanier en le priant  
de s'entendre avec moi  
pour fixer l'entrevue.  
Geo. J. J. J.*

P49/C5,34

1 2 3 4 5 6 7 8



*Hôtel-de-Ville*

*Montreal* 11 Juin, 1912.

M. J. E. Vanier,  
5 Beaver Hall Square,  
Côté

Monsieur,

J'ai l'honneur de vous transmettre un extrait du  
procès verbal d'une assemblée du Bureau des Commissaires,  
tenue le 10 Juin, 1912.

*J. P. Senechal*  
Secrétaire.

P49/C5,34

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EXTRAIT

Il est

RESOLU:-De prier l'Ingénieur en Chef de se rencontrer avec M. l'Ingénieur Vanier pour reviser les divers montants chargés à la Cie Montreal Water & Power Co. et formant une somme totale de \$302,703.01 pour travaux d'aqueduc dans l'ancienne Ville St Louis.

(Certifié)



Secrétaire.

P49/C5,34

2 1 4

1 2 3 4 5 6 7 8



le 3 Juillet 1912.

Monsieur L.N. Senecal,  
Secrétaire des Commissaires de la  
Cité de MONTREAL.

Cher Monsieur.

Il y a quelques jours vous m'avez transmis la copie d'une résolution adoptée par le Bureau de M.M. les Commissaires de la Cité le 10 Juin dernier et par laquelle le bureau en question me demandait de faire la vérification d'un compte de \$302708.01 que devrait la Montreal Water & Power Co., à la Cité.

J'ai cette question à l'étude depuis quelques jours et aussitôt que j'en aurai <sup>réussi</sup> tous les éléments je communiquerai avec Monsieur Janin et avec votre bureau.

En attendant je vous prie de me croire, cher Monsieur,

Votre toujours dévoué,

*V.*

P49/C5,34

2 1 5

1 2 3 4 5 6 7 8

COMMISSAIRES:

*Le Maire Lavallée, Président*  
*Joseph Ainey*  
*L. N. Dupuis*  
*E. P. Lachapelle, M. D.*  
*C. H. Godfray*



*Toute Correspondance doit être adressée*  
*au Secrétaire du*  
*Bureau des Commissaires.*

*Compte rendu*

*Bureau des Commissaires*  
*de la Cité de Montréal.*

*Hôtel-de-Ville, Montréal, 5 Juillet 1912*

**M. J. Emile Venier,**  
**5 Square Beaver Hall,**  
**Cité.**

**Cher Monsieur:-**

J'ai l'honneur d'accuser réception de votre lettre du  
3 juillet courant, Re :- Vérification d'un compte de \$ 302,705.01  
que devrait la Montreal Water & Power Co. à la Cité.

**Votre tout dévoué,**

*M. D. Rivest*  
**Secrétaire.**

*Compte rendu*  
*à M. A. Rivest*  
*le 12 sept 1911*  
*D.*  
*Exp. du bureau = 12.61*

**P49/C5,34**

*2 1 6*

1 2 3 4 5 6 7 8

J. EMILE VANIER  
Ingenieur Civil et Architecte

BUREAU  
NO. 6 SQUARE BEAVER HALL  
MONTREAL

Montréal, le 5 Septembre 1912

Mr. L.N. Sénécal,  
Secrétaire du Bureau  
des Commissaires de la Cité  
Hotel de Ville  
Montréal -

Cher Monsieur,

Je viens de terminer la révision des comptes que devait la "MONTREAL WATER & POWER Co." à la Corporation de l'ancienne Ville de St.LOUIS, jusqu'au 31 décembre 1909, c'est-à-dire jusqu'au moment de son annexion à la Cité de MONTREAL.

Ces comptes découlent d'obligations contractées par la Compagnie en question envers la dite Ville de St.LOUIS, lesquelles sont détaillées au long dans les documents suivants, savoir:

- 1o. Contrat du 12 février 1891, JOHN FAIR, N.P. minute No.2795  
( voir article 3 particulièrement de ce contrat.)
- 2o. Contrat du 1er. février 1901, J.A. CAMETON N.P. minute No.2598.
- 3o. Contrat du 17 Juillet 1903, John Fair, N.P. minute No.11347 .

Le contrat du 1er. février 1901 se rapporte particulièrement à un règlement de comptes entre la Ville de St.LOUIS et la "MONTREAL WATER & POWERR Co."

La dette de la Compagnie envers la Ville était définitivement fixée à ce moment, à \$90,000.00, payable comme suit: \$22500.00 le 1er. Janvier 1906, ( j'ai eu connaissance que ce paiement a été fait, voir à vérifier quand même); \$22500.00 le 1er janvier 1911; \$22500.00 le 1er.janvier 1916 et \$22,500.00 le 1er. janvier 1921, le tout sans intérêt en autant que je puis voir.

Dans le contrat du 17 Juillet 1903, il est pourvu particulièrement à des taux fixes de remboursement par la Cie. à la Ville, en ce qui concerne les tranchées de tuyaux à eau creusées par la Ville, et celles des branchements particuliers faites par les propriétaires riverains. Il est aussi pourvu au remboursement des ouvrages d'aqueduc exécutés par la Ville de St.LOUIS, pour le compte de la Cie. d'eau,

P49/C5,34

1 2 3 4 5 6 7 8

toujours dans le but d'activer le développement de la Ville.

D'après le contrat du 17 juillet 1903, les remboursements à être faits à la Ville de St.Louis par la Cie. d'eau dont, comme suit: un tiers, dans 10 ans à compter de la fin de l'année durant laquelle les ouvrages ont été exécutés; un tiers 15 ans après, et un tiers, 20 ans après, le tout avec intérêt à ajouter, au taux de 4% par an. (Voir clause 8 du contrat de 1903).

Vous trouverez dans un état résumé que j'adressais à la Ville de St.Louis au 31 Décembre 1909, que la Montreal Water & Power Co. devait à cette époque à la dite Ville, à part les intérêts de 4% par an, mentionnés plus haut et que je n'ai pas compris, un total de \$319221.57.

Vous trouverez de amples détails dans les divers états annuels que j'ai adressés à la Ville de St.Louis dans le temps, et dont copies ci-jointes, savoir:

1 <sup>o</sup> .	<u>19 Octobre 1906</u> , résumant les ouvrages exécutés depuis 1901, et se montant à,....	\$158801.96
2 <sup>o</sup> .	<u>20 Mai 1907</u> , se montant à,.....	\$192801.39
	<u>à déduire</u> , état du 19 Octobre 1906, <u>158801.96</u>	
	Soit pour l'année 1906 exclusivement,	33999.43
3 <sup>o</sup> .	<u>17 Mars 1908</u> , se montant à	74237.31
	Soit pour l'année 1907 exclusivement,	
4 <sup>o</sup> .	<u>22 février 1909</u> , pour 1908 exclusivement,	23916.39
5 <sup>o</sup> .	<u>31 décembre 1909</u> , partie de cet état concernant exclusivement les ouvrages de 1909,	50766.48
	<u>A déduire</u> , 1 <sup>er</sup> . paiement fait par la Cie. à la Ville de St.Louis le 1 <sup>er</sup> . Janvier 1906	<u>22500.00</u>
	Balance au 31 Décembre 1909,...	\$319221.57
	( à part les intérêts accrus).	

Quant à ces intérêts accrus, il serait facile de les calculer en référant aux divers états annuels ci-joints.

Pour faciliter l'étude de toute cette question j'ai annexé aussi,

ici, les copies des contrats de 1901 et de 1903 - ce sont des copies non notariées mais on pourra les comparer au besoin avec celles notariées.

Enfin cher Monsieur, je dois attirer votre attention, ainsi que celle de M.M. les Commissaires et de l'Ingénieur en chef de la Ville, Mens. JANIE, que beaucoup des chiffres des états annuels représentent les prix coûtants d'ouvrages à la Ville de St.LOUIS.

Je me tiens absolument à la disposition de M.M les Commissaires ainsi qu'a celle des officiers de votre Corporation pour tout ce qui touche à cette question importante.

Bien à vous,

(signé)

J.EMILE VANIER -  
Ancien Ingénieur Ville de St.Louis  
maintenant Quartier Laurier de la Cité  
de Montréal

COMMISSAIRES:

*Le Maire Lavallée, Président*  
*Joseph Ainey*  
*L. N. Dupuis*  
*E. P. Lachapelle, M. D.*  
*C. H. Godfrey*



*Toute Correspondance doit être adressée*  
*au Secrétaire du*  
*Bureau des Commissaires.*

*Bureau des Commissaires*  
*de la Cité de Montréal.*

*Hôtel-de-Ville, Montréal, 14 Sept. 12*

M. J. E. Vanier,  
5 Square Beaver Hall,  
Cité,

Monsieur:-

J'ai l'honneur d'accuser réception de votre lettre en date du 5 courant, au sujet de la révision des comptes que devait la Montreal Water & Power Co. à la Corporation de l'ancienne Ville de St. Louis jusqu'au moment de son annexion à la Cité de Montreal, et de vous informer qu'elle a été référée au Contrôleur et Auditeur de la Cité.

Votre tout dévoué,

*J. M. Bouchard*  
Secrétaire.

P49/C5,34

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