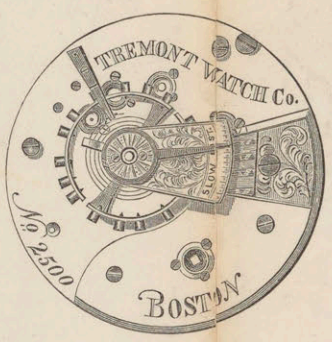
mc 218 Edward S. Philbrick Box B

The follows is a discription of the Southerly side of said sewer.
beginning at a point 180 ft distant westerly from the N. Wly corner of the
Southern abutment of the Nashua St. R.R. Bridge, said Pt. being 94 ft from
the Wly line of Boylston St. on lands of T. Jos Quinlan, Thence Southerly, 180 ft
to said corner of said abutment & Thence in same direction for a
further dist of 500 ft. to a point on the Southerly boundry of the lands
of the B & A R.R. Co. 23 ft southerly from the center of the main track of the B.B.R.R.
Thence Ely along said southerly Boundry of said R.R. Co lands. 299 ft.
thence Cuving to the left on a Rad of 960 ft for a further dist of
185 ft. thence Cuving to the left. along the southerly line of the location
of said Co. Bos Br. R.R. on a radius of 2917 ft. for a further
dist of 674 ft. Thence still along said southerly line, cuving to the left on a
Rad of 2375 ft. parallel to & 55 ft from the center of the track of said
Bos. Bos. passing thence ark ave. for a further dist of 334 ft. Thence
still along said southerly line of said location, 100 ft to a pt. 337 337 674
& dist 46½ ft from said center of said track Thence 337
Easterly parallel with & 46½ ft from said center of
said track, 454 ft. Thence Cuving to the Rt on a Rad
of 80 ft. for a further dist of 110 ft. to the old Channel
of Muddy River, across a point of marsh belonging to Chas. M. Stone.
The Northerly side of said sewer is parallel with &
15 ft from the above described Southerly side, for a dist of
680 ft from the above named Pt of beginning thence diverging
to a dist of 20 ft from said Sly line in a further dist
of 299 ft thence 20 ft. from said Sly line to the end.

Description of Sewer. along R R



THE

TREMONT WATCH

COMPANY,

OF

BOSTON, MASS.,

Beg leave to call the attention of the public to an important improvement now attached to all their Watch Movements, by which they are kept *free from dust.* It consists in a ring-cap, adapted to the movements now in use, and is so arranged as to require no change in the Case now used.

The Tremont Company believe that they have hereby remedied a serious defect hitherto existing in all American Watches, viz: the liability to collect dust from the pocket in such quantities as to require frequent cleaning. The ring-caps are now ready to be furnished to fit all Tremont Co. movements now in use at the low rate of $4.00 per doz. They will be furnished and applied to all movements hereafter leaving the Tremont factory, *without extra charge.*

Address

Messrs. WHEELER, PARSONS & Co.,
No. 2 Maiden Lane, New York.

Or Messrs. BGELOW BROS., & KENNARD,
Boston.

Selling Agents.

Office of Superintendent of Sewers.
City Hall.

Dear Sir Boston. 22 Sept 1869

I have your communication asking my opinion as to a choice ~~of routes for a sewer~~, between Aspinwall Av. opposite the Episcopal Church, & the present Channel of the brook, as routes for a sewer and also as to the Expediency of Enclosing the brook as a sewer as far as Park St.

My own Experience has been, — & it is confirmed by Observation in other Cities — that the natural water-courses in growing Suburbs invariably become nuisances, & are either made directly into sewers or completely absorbed by sewers in the streets of their immediate vicinity. I do not regard it as feasible to intercept sewage in a street sewer & reserve a brook channel for clear water when the population is dense or growing so; the brook invariably becomes foul because the surface drainage gradually becomes filthy & house drainage will get in to it in Spite of provisions & precautions.

Referring to the location at Aspinwall Av. it is apparent that the element of cost is entirely in favor of adopting the brook channel & there can be nothing in the future maintenance to counterbalance this difference. I should therefore adopt that route, improving the Channel in line & grade as much as possible

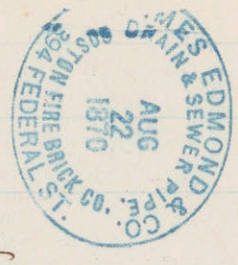
As to the portion above Harvard St. for the General reasons above & from the probability that with the brook converted into a sewer there would be no necessity for anything but surface drainage on Washington St. for a long time. I should recommend Enclosing the brook at least as far as could be done without violent opposition from the

Aug 22 '65
Wm H Bradley

Abutters,

Yours
Very truly
W. H. Bradley
Supt & Engr

E. S. Philbrick Esq
Brookline
mass.



C. J. Philbrick Esq
Brooklin.

Dear Sir

We have remaining of the lot of 24 inch Scotch Sewer Pipe (Imported last year)

259	Straight lengths	647 1/2 feet
4	Branches	10 "
2	Angles	6 "
265	lengths	663 1/2 feet

We have 215 Rings whole
" 8 " in pieces

We will place the same in Brooklin at two dollars per foot - including the Branch & Angle Pipe - At this price we make a large loss - but need the room which the pipe now occupy -

Respectfully Yours
James Edmond & Co

Boston, August 22/70.

J. Edmonds & Co

24th June.

Aug. 1870

~~Begining~~ Thence Easterly along the southerly side of the main track of the Franklin Branch R.R. for a dist of 800 ft. ~~to a~~ ~~Straight~~ line to a point 60 ft ~~from~~ Washington St. the ~~same~~ ~~being~~ at the ~~end~~ of ~~the~~ ~~Curve~~ ~~of~~ the land of the Boston & Albany R.R. from the R.R fence. crossing Thence curving conforming to the curve of ~~the~~ said fence ~~to where it~~ ~~is ended~~ keeping 10 feet from said curved fence for a dist of 520 ft. to a point distant 44 ft from the center of the main track of the Franklin Branch R.R. thence curving to the Rt on a radius of 120 ft. for a dist of 160 ft. crossing lands of James Driscoll ~~the~~ ~~Ashinvall Estate~~ to a point on the North land of the Ashinvall estate. Thence curving to the left on a radius of 120 ft. for a dist. of 168 ft. to the ~~the~~ present channel of Muddy river Thence in a St. line parallel with & 44 feet from the Northerly side of Weston ave so called, crossing the said Cedar St. & Ashinvall ave. for a dist of 1022 ft. to the original channel of Muddy river.

The sewer line from the Takhan St. to Muddy river is described as follows. Being 20 feet in width on each side of said line

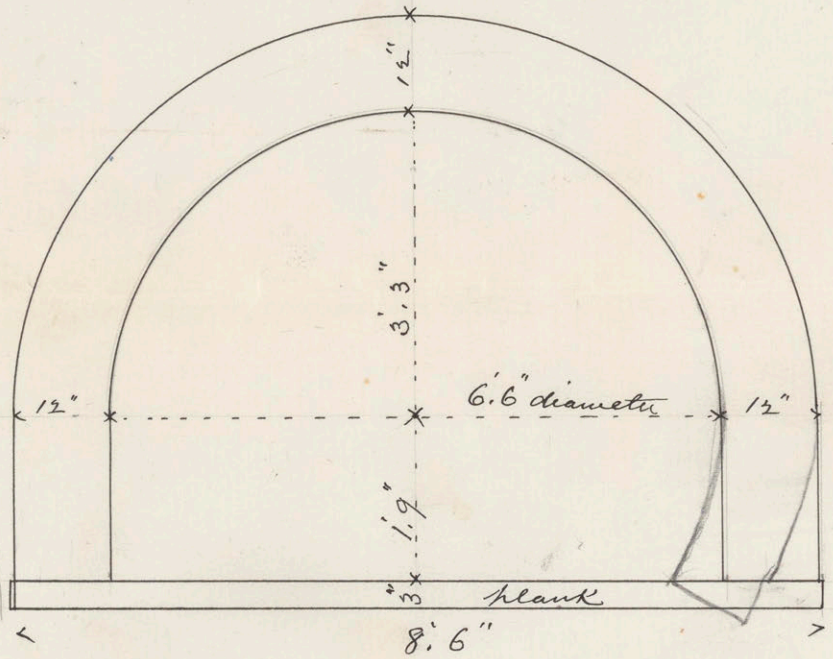
Beginning at a point on Takhan St. 10 ft from the South side of said St. +432 ft from the corner of Cypress St. Thence Easterly parallel with +10 ft from the said South side of Takhan St. for a dist of 226 ft. to the point where Takhan St. begins to curve to the North. Thence continuing in same direction as the foregoing straight line for a further dist of 74 ft. Thence curving to the left with a Radius of 628 ft for a dist of 363 ft. crossing the lands of the Bost Harbor & Erie R.R Co. Cypress St. to a point on the Estate of Mines Jones distant 10 ft northerly from the R.R fence. Thence Easterly parallel with +10 ft from said R.R fence for a dist of ~~356~~ 829 ft. crossing said Estate of Mines Jones & the lands of ~~Mines Jones~~ Saml A. Shurtleff to a point on lands of E.C. Emerson near the R.R. culvert. Thence turning to the Right on a curve of [redacted] ft radius passing with same Radius through said culvert & again to the left to a point on lands of Town of Brookline 10 ft. from the ~~location~~ line of the R.R South side of the same. Thence Easterly parallel with +10 ft from said R.R. location for a distance of 500 feet crossing said lands of said Town of B. lands of Mrs. Maley-Catherine Kelley, Margaret Mc Dermott, Thos McCarthy, Cordis Linnahan James Mungovan Ellen McCarthy. Thos Crotty Michl Barret, Morris Dea, Owen Gerry to the point on lands of Michl Rourk. Thence Easterly nearly parallel with said R.R. location but

136
178
250
556
273
829

converging towards said R.R. for a distance of
485 ft. to a point in the Westerly line of Partington ~~for~~
~~a distance of~~ distant 7 feet from the face of the
Southern bridge abutment. Across said
lands of Michl. Rough. Joseph Moore, Pat
Bowen Philip Duffy R. Woodward & Duffy,
James Healy Pat Kelly Nicholas Cantwell
Andrew Carrick, Thos Quinlan F Lo Jr &
M. W. Quinlan & John Webber.

Lower Brown
Park Lawn Sk Co
Muddy Run
Abandoned &
Reconsidered

Scale 2 ft. = one inch



Section of Sewer along Rail Road tracks, near Depot.

Bottom to be of 3 in. thick plank laid level and tight.

Walls & arch to be of hard brick to be furnished by the Town. laid in best of North River Cement.

Outside of arch to be plastered with Cement.

Excavation 8. ft 6 in below tracks. near Depot. & 10 ft. at a point East of Depot. of such width as found necessary

Specification
Brick Sewer
along R R Track.
Nov. 1869

finished Dec 1869

Section of sewer to be laid in
Ashmead Ave from Corner of
Harvard St. about 350 feet.

Brick to be laid in Cement,
& top of arch plastered with
Cement for 2 ft. each side of
Crown of arch.

Bottom to be laid brick & even

Excavation about 7 ft. below Street
& of such width as necessary to
put in the brick work.

Specification

Sewer in

Aspinwall ave.

1869

For ohm sewer along-side of Rail Road tracks below the Brookline Depot.

Foundation to be of Spruce plank 3 in. thick & 15 to 16 ft. long. laid level & tight to such grade as may be given.

Walls 3 1/2 ft. thick at bottom & 2 1/2 ft thick on top. to Batter on inside 6 in. To be from 4 to 5 ft. heigh. of good sized Roxbury stone. laid on good beds. & pinned close. The top stone to be large. & the Walls finished to receive arch.

Specification
for Stone Sewer
along 7th
Nov. 1869.

* Beginning at a point in Ashinuoll ave 213 ft. from the Northerly Corner of Harvard St. ~~south~~ & twelve feet distant from the W'ly side of said Ash ave. Thence curving to the Right from a direction parallel with said Ash ave on a Radius of 205 ft. for a distance of 198 ft. to a point on ~~to the East~~ Ashinuoll ave. 60 ft south of the East side of Ash ave. measured at right angles with the same. Thence by a St. line tangent to said curve. 198 ft. thence curving to the left on a Rad of 205 ft. for a distance of 82 ft. Thence by a St line tangent to said curve for a dist of 348 ft. to a point on land of Geo E Steadman distant 5 ft from his back line. Thence curving to the Rt. on a radius of 165 ft. for a distance of 147 ft. Thence by a St line ~~five feet from said~~ following five feet from the back lines of said Steadmans land & curving to the ~~East~~ said Ashinuoll estate & continuing parallel to & 5 ft. from the line of said Estate for a distance of 760 ft. Thence turning to the left & running in a straight line to the center of the culvert under the Bx. Bx RR. for a distance of 200 ft. thence through said culvert & continuing in the same direction nearly 270 ft. to a point in the present channel of Muddy River distant 260 ft from the South side of Ash ave. measured at Rt angles with the same.

* The center line of said river is described as follows & the sides are everywhere five feet distant from the center. being 10 ft. in width.

Sewer from
Asp. Ave to
Muddy Run
Rejected by Town

Specifications for a Sewer to be constructed for the Town of Brookline from the upper Culvert on ~~Cyp~~ Tappan St. to the Eastern part of lands of Dr. S. A. Shurtleff. on the Northerly side of the Rail Road.

Excavation to be made to the depth of two and one half feet below the Rail Road tracks of the Boston Hartford & Erie Rail Road. & a width of Eighteen feet.

The Walls & Shuting to be laid of a good sound quality of Stone, as good as that found in Roxbury, and to be laid up without mortar, to conform with the accompanying drawings. The Stone to be ~~laid~~ shaked by the hammer somewhat, when laid, to secure good horizontal beds, & fitted to the place they are to fill. The stone used in the Walls are to have broad flat beds. The Shuting is to be at least two feet wide through the whole length of every stone: to be from four to eight inches thick on the face, with thicker backs to conform to the shape of the arch. No pinning allowed in the face of the shuting, but the back is to be well pinned & the pinnes driven home, wherever an opening for them occurs. The Key stone to be fitted to their places & driven home with wooden mauls. All shuting to be so laid & shaked as to bring their beds square with the centreing.

The paving may be of any sound stone nine inches thick, laid to a form to correspond with plan. well mauled down & filled in with coarse gravel or Stone Chips.

The Sewer from Tappan St. to the Rail Road Culvert on lands of Dr. S.A. Shurtleff, is to Conform to Plan Marked A. Flat below the Culvert & on South Side of Rail Road from the lower Rail Road Culvert to Washington St. is to

Conform to plan marked B.

The sewer from the brook Channel on Marsh up to a point on the Rail Road land, about 600 ft in length will be laid with two stone walls on a plank foundation. Plank to be 3 inches thick and 14 ft. long. Walls to be 4 ft high. 3½ ft thick at bottom & 2½ ft. thick at top. with a batter of 6 inches on face. To be laid without Mortar, of Roxbury stone, and covered with an arch of stone 8 ft. span. of work similar to that described above. for such portion of the sewer as lies along side the Rail Road tracks. The portion across the marsh may be left open.

Lewis Sheaffer

Stone arch

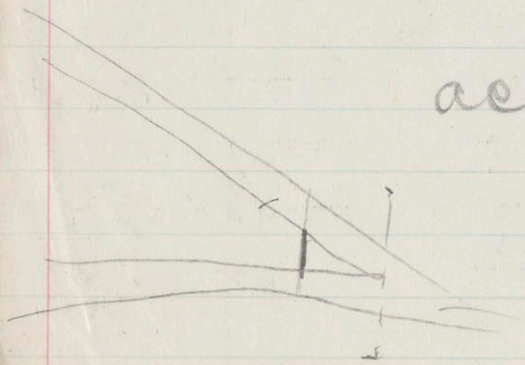
along R. R. 1869

Not built

		Stone	Silk	Exc.
Driscoll		3.00	25.	37½ cts
O'Horne	3	3.00.		
	2	3.00.	25.60	37½ cts
	1	3.20.		
Ebon Reed		2.75		
		3.00.	24.	33 cts cts
Hennessy		3.00.	25.50	37½ " East
" "		3.25.	25.50	40 " mid
" "		3.25.	25.50	40 " West

	R.R. silk	ave
Jones-	13.50 + 28.	14.
Little	11.—	12.—

accepts the enclosed figures



Bids for Sewers
opened Sept 5th 69

3/615
7/1205
29.42

H Fay

136

84.5

S 30 W

261

Corey

Thos Archibald

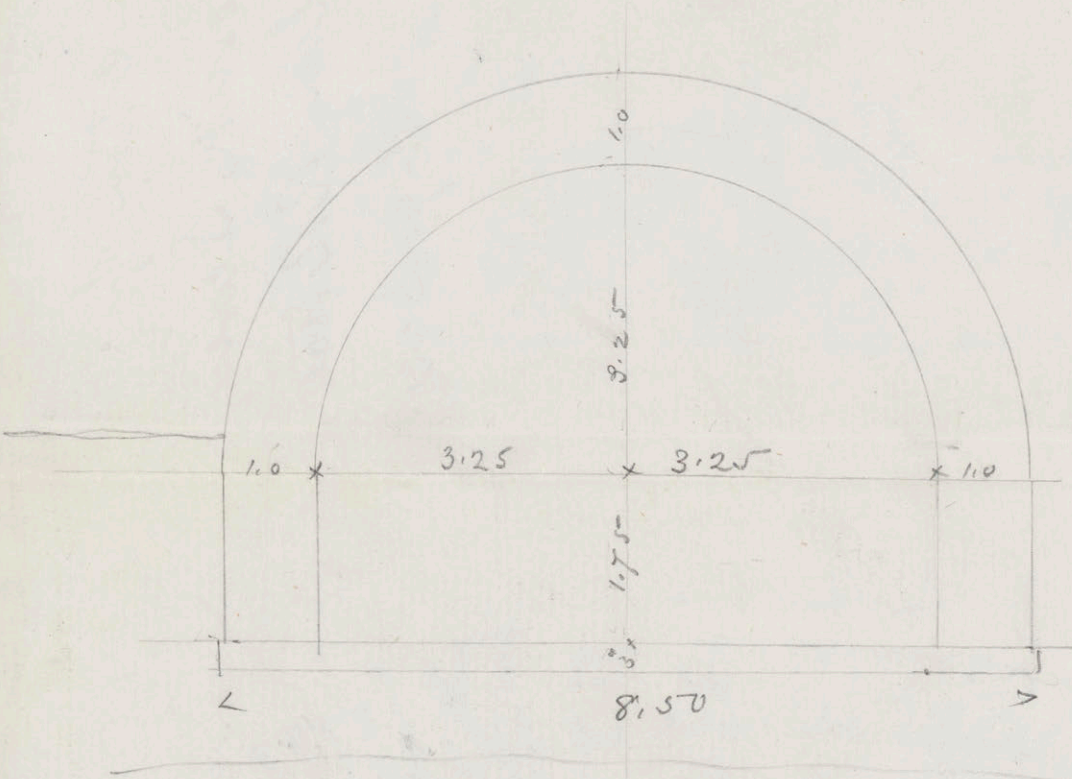
Chas Stearns

M. Walker

D. Quigley

H Fay

Widths of R/R
location from
Maps in R/R office



1.0
3.25
1.75
.25
6.25 whole Hts.
22.00 grade
15.75
2.00 grade
13.75 foundation

area ○ = 16.6
below = 11.4
28.

Equal to 6 ft. circle
+ 1.75 lower.

Semicircle of 7.5 = 11.78 + 3.5 for sides = 15.3

15.3 × 5 × 1.5 × 3 = 344.

Say 350 Brick per foot.

Walls 24
24
arch 53
48
58
207
103½
310 ft Brick per lin ft as laid

Section of
Brick Sewer
along R.R tracks
Jan'y 1869. Dec.

394 Federal St.

E. J. Philbrick Esq.
Brookline

Dear Sir

Having a portion of the lot of "24 inch Sewer Pipe" (which we ordered last year for the Town) now in stock and being desirous to close off the balance (some 600 to 650 ft.) we offer it to the Town at 2½ ¢ per foot delivered

We fix the above low rate without regard to cost. ~~at too~~

We will sell and deliver the Town whatever * Pipe they may require the present year, at following rates

Viz	10 inch	at .55¢	per foot
Port 12 — 570	12 "	" .75	
	15 "	" 1.12½	
	18 "	" 1.50¢	

* Scotch and Welsh Pipe, which weighs One third heavier than American.

Respectfully Yours
James Edmond & Co
Boston

Brookline April 6/70.

N.B.
If Mr Philbrick is not at present time acting for the Town as its Engineer we will be obliged if Mr P will please hand this proposition to the proper person. J. E. & Co

Jas Edmunds

Jas Edmunds
Co. Brien
1870

James Driscoll

Excavating per cubic yard 37½ cts
Plank foundation —25¢ pr M.
Stone walls 3¢ pr perch

Eben W Reed

Excavating 33 cts pr cubic yd
Plank foundations —24¢ pr M
Stone walls 2,75 cts pr cubic yard.

On Brook through Dan's Heirs

Excavating dry part 33 cts pr yd
" 300 ft of the easterly end } 40 cts pr cubic yd
and 200 ft of the Westerly end }
walls 2,75 per perch.
pairing 1,50 " cubic yd

Contract
Sewer Frames
1869

J. HERBERT SHEDD,
Civil Engineer,
Barristers' Hall, No. 7 Court Square.

Boston, April 7 1869

Edward S. Philbrick Esqr.

Dear Sir;

I find that the drainage area of the brook leading from the grounds about the Reservoirs of the Boston Water Works, at the point where it crosses Washington Street in Brookline, as measured from the best maps in my possession corrected by my personal knowledge of the ground, is about 2314 Acres.

Of this about 148 acres is occupied by the Chestnut Hill and Brookline reservoirs, leaving say 2166 acres from which water is to be expected to come into the brook. From this surface in its original and unimproved state I should expect about 108 cubic feet per second to pass Washington Street in storms and freshets such as may be expected at any time in the Spring when the ground is frozen or covered with snow. From exceptional storms I think it may

be possible that double this quantity may be received.

If the whole drainage area were covered as a city, with conductors leading from the roofs of houses to the sewers, it would be necessary to provide for about 1092. cubic feet per second. Between these two wide extremes it will be a matter of calculation and judgment as to what quantity of water it will be true economy to provide for in any structure built at the present time. From a careful examination of the ground and estimates as to its probable occupation and use within a reasonable number of years, I think it would not be difficult to establish very nearly the quantity that true economy would require present provision for.

Very respectfully,

J. Herbert Shedd.

J. H. Shedd

Abt. Feb. 1869

Brookline April 18th 1870

To the Selectmen of the Town of Brookline

Gentlemen

In regard to the subjects referred to me for investigation on the 12th inst. I would Report as follows.

1st Drainage of Walnut St. near Corner of Cypress St.

To accomplish this, a ~~pipe~~ conduit should be laid from Walnut St. through Cypress St. to the brook, ~~at least~~ 24 inches diameter. The whole length is 1000 feet. There is but about 650 to 700 ft. of 24 inch stone pipe in the city, so that we should probably have to use brick, which is cheaper at any rate. The Expense would be about $3.600. including the necessary inlets. There are no large brick in the market, but we may get some during the mo. of May ~~from the Manto brick Co. who Expect to receive some thro.~~

2d Drainage of pool near old Curtis house, Warren St. I would Put in a 12 in. pipe about 400 ft. long turning down Dudley St. Costing with one catch pool $ 800.

3d Drainage of highway below Saml Goddard's gate in Warren St. I would Put in say 400 ft. of 6 inch porous tiles on N. W. side of St. costing say ——— $ 200. laid

4th Drainage of Cottage St. beyond Goddard's ave. Put in 300 ft. porous tiles costing about $150. laid

5th Boylston St. Drainage of Mud hole just above E. W. Reed's Get right of Mr. Fay to lay 6in tile pipe to his pond. costing about $150. laid

5th Heath St. — A Stream of water has been running along the out for some weeks. from the avenue of the Rev. Whyte place down to the School House. There should be a stone Drain put in across Heath St. just above this avenue. to dispose of this water. It would run into the opposite field, but is not of sufficient amount to do any harm there.

6th Heath St. School House lot & Cellar. I should put in 4in Drain tile from cellar along gutter of Street towards Mr Lyman's avenue. about 400 ft would be needed cost $350.

Appropriations have been made for the drain in Cypress St. also for underdraining Sts. above noted.

Respectfully Submitted

by Edw S. Philbrick Engineer

Recapitulation.

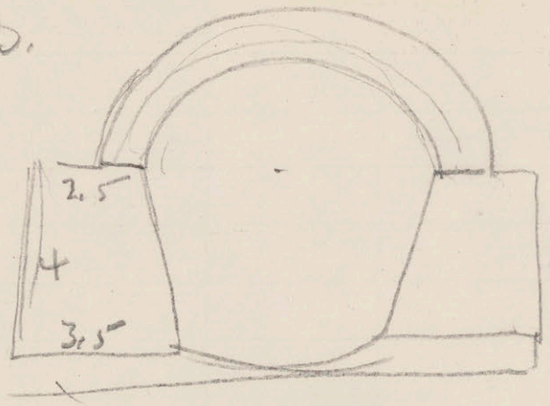
Cypress St.	$ 360.
Warren St. from Dudley's	800
Warren St. along S. Goddard	200.
Cottage St. near Town line	150.
Boylston St. thro' Mr Fay's	150.
Heath St Culvert	50.
Heath St. School lot.	350.
Total tile Drains	$1.700

Rec'd Dec 18th 70

	Wall	Pavg	digs	Chips gravel
Com. O'Hearn	3.50	3.00	.37	
Hugh M. Scanlon	3.75	3.75	.50	.50
Edwd Howe	2.50	2.00	2.00	
Etux Red. H. S. Pettingell	2.50	1.50	.40	
Mich'l Hennessy	3.25	4.00	.40	
James Driscoll	3.50	2.50	.60	

711 yds wall @ 2.50 = 1.777.
256 " pavg @ 4.00 384.
1200 " digs @ .40 480.
2.641.

3/1000 ft lin
333. yds.



4.67
3.14
1868
467
1401
3/14.6638
4.887 2
9.774 27
68418
19548
263.898

711
711
355
1777

12
24.
800
3/19200 wall
9/6400.
711.

200.
30
6000

1200
40
48000

3/13.00
4.33
8.66
800 lng
3/6928.00 pavg
9/2309.
256. yds

128
384

Sewer Proposals,

1867

Specifications for work in building a Public Sewer from the Brookline Railroad Bridge towards the Mill Dam Road : —

To furnish all material and labor necessary for construction of about 700 or 800 linear feet of Sewer, as follows : —

Foundations. A trench to be excavated thirteen feet in width according to stakes to be set by order of the Selectmen, to such depth as they may require, being always down to hard bottom.

Paving. To be laid the whole width of the trench, of whole stone, not less than eight inches in height, firmly rammed down to such lines and grades as may be given, and covered with stone chips and coarse gravel.

Walls. To be laid six feet apart at the bottom, and three and a half (3½) feet thick, at bottom, to be plumb on the back, and to batter on the inside two and a half inches to the foot, to be laid dry, with heavy stone, well ~~rammed~~ pitched throughout, and finished with stone two and a half feet wide, and not less than eight inches thick on the top, and such height as may be directed, from four to six feet.

All the work to be done to the acceptance of the Selectmen, or such agent as they may employ.

Work to be completed on or before the first of September, 1868.

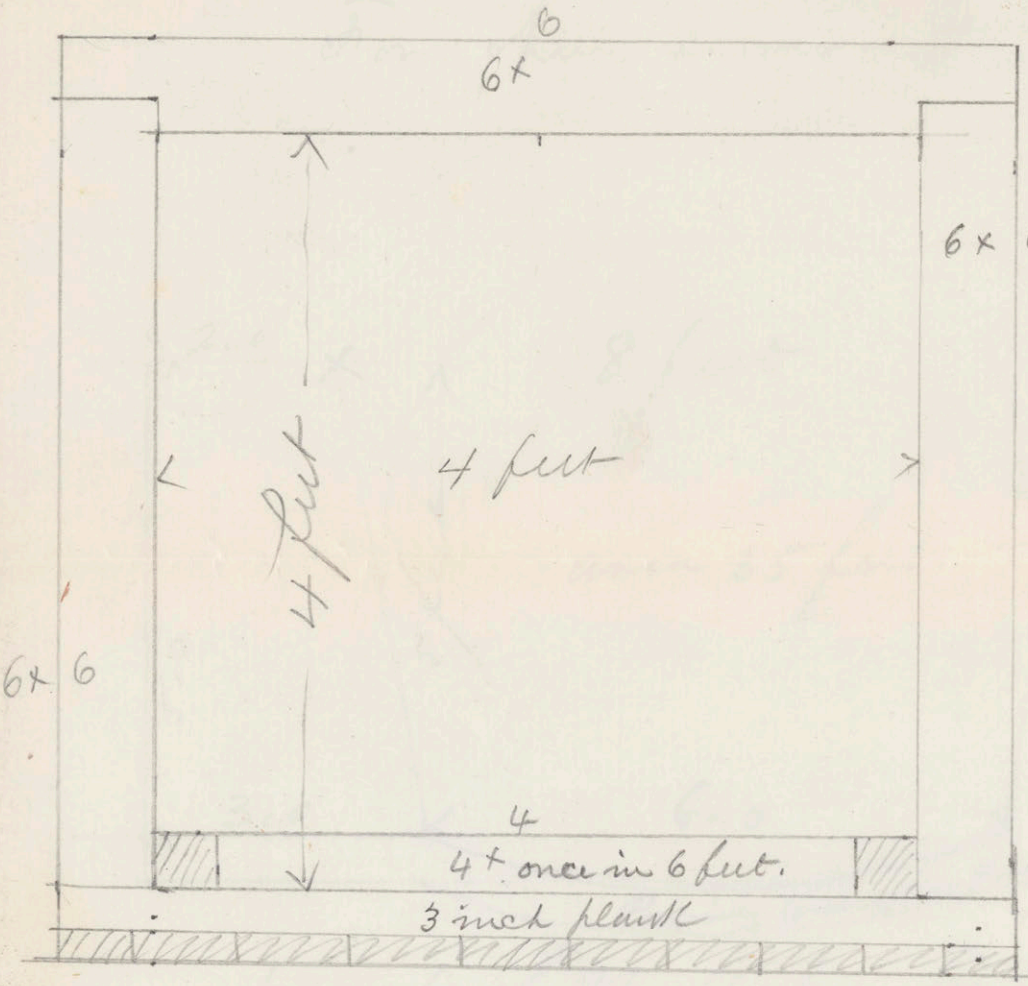
Bids will be received by the Selectmen, up to Monday, November 18, 1867,

The Selectmen reserve the right to reject all proposals.

Bids to be made for excavation, paving, and walls by the cubic yard, separately.

Brookline, Mass., Oct. 21, 1867.

Lawn
Specification
1867

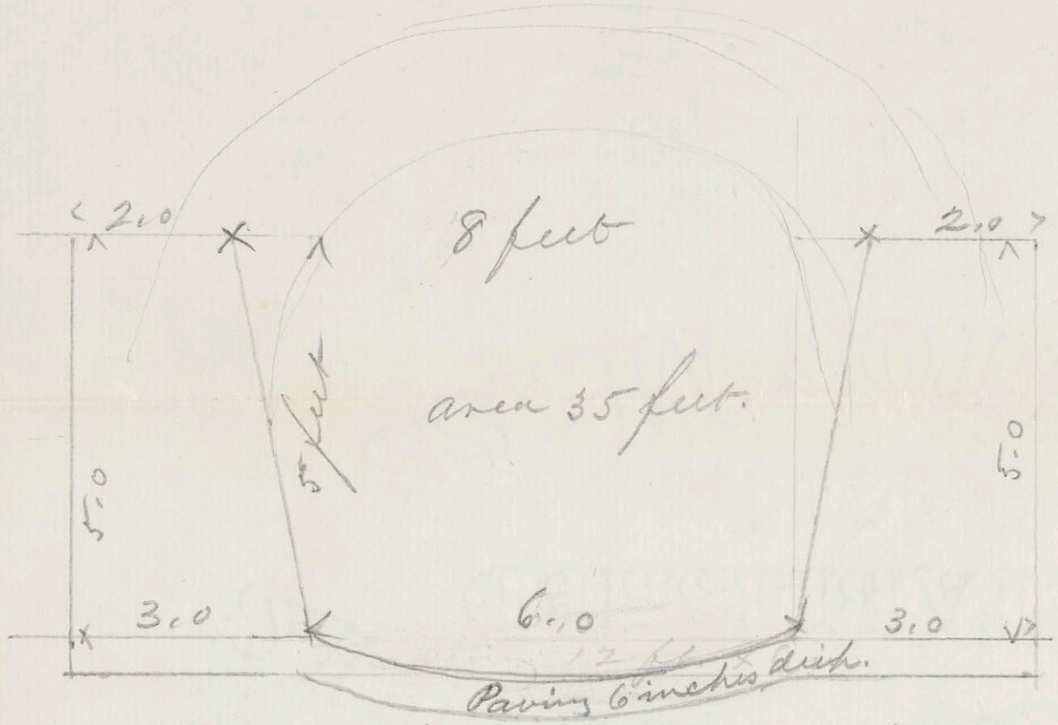


Plan of a Sewer along Mill dam road. June 12th 1866

for 600 feet in length

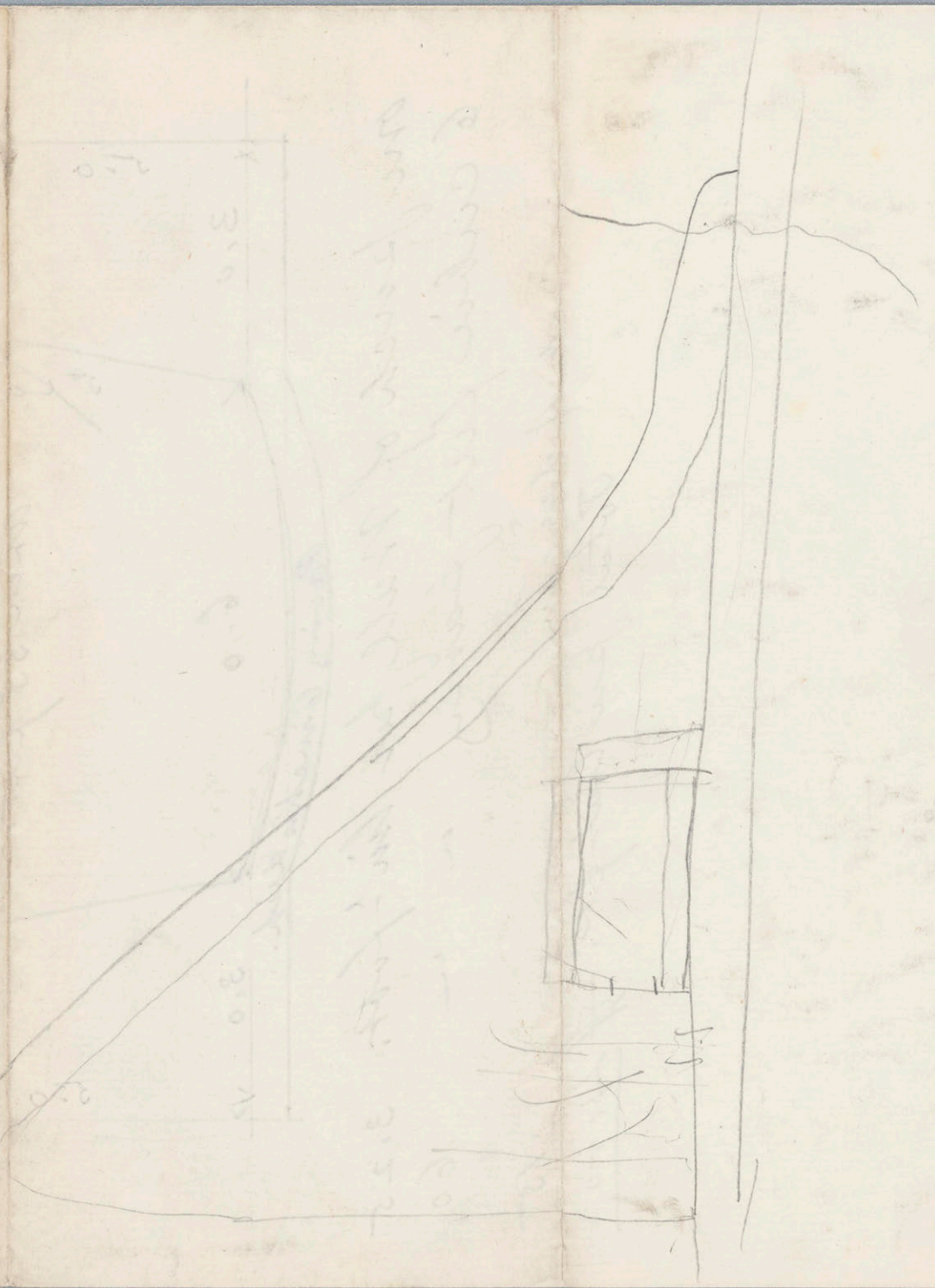
17,000 feet (bottom) spruce plank.	$ 23.	$ 391.00
48,000 " sides & top Burnetting Spruce	30.	1,440.00
200 squares digging & Carting dirt	2.	400.00
(8 ft wide & 8 ft deep.)		
carpenter work.		150.00
		$ 2,381.00

For 8 feet Sewer. Stone walls.



one perch of Wall per lin. ft. 3.25
6 cubic feet paving " " .60
Cost of digging .15
Total per lin. ft. $4.00

Sketch for a plank Lever along Mill Dam



Furnish Brick & Cement and
Build Sewer 4" thick 2 ft x 2 ft 4" in
Clear at 1.75 per foot
Build the man holes 2 x 2 ft in Clear
8 in thick 2 ft deep below the bottom
of sewer making the whole depth from
Surface of Street about 10 ft. finish
the top with Granite Curb & hard wood
covers for $73.00 Each
Build the Catch Basins or Cesspools
as per plan for $116.00 Each

Digging & filling Trench 1.00 per foot

St James.

Inscriptions

1869

4.24" E of Dividing Mon
1.18" N of P

38.8" W of Halfpenton Elm
on line between Kendall &
Brodhead.

12.12 N. of Mojada of
Brodhead
Gate Way.
2
and 50' East of B's W Lin