

# DRAINAGE BLANK.

IN THE MATTER OF THE PETITION OF

*Hudson Guy*  
AND OTHERS.

## ENGINEER'S REPORT

Ditch No. *41-*

Filed *March 30* 190*7*.

*Arthur D. Aspell*  
County Auditor.

Approved and adopted.....

.....190.....

.....  
County Auditor.

Ditch and its branches

Ditch and branch

D I G H

Ditch or its branch.

Ditch and branch

Ditch or branch.

Ditch or branch

D I G H

the remainder live of the said lake.  
and have also an outline of the remainder live of said  
lake so called which is in the center to define and the number of acres within

D I G H

D I G H

I did further cause to be specified and set forth in tabular form the depth of cut, the width at the bottom, the width at the top, between each one hundred feet stakes of said Ditch, the obstructions to be removed, the wood or masonry work, fences, bridges, or other structures, necessary to be constructed between each of said one hundred feet stakes, the underground work, with-size and character of tile and other materials necessary to be constructed between each of said one hundred feet stakes, the manner in which the several kinds of work is to be done, and the time within which the work on each of said sections between said one hundred feet stakes is to be done; which said tabular statement is hereto attached and made a part hereof, marked "Exhibit 3."

I did further cause to be specified and set forth in tabular form a statement, showing the time occupied by me in making said survey and my compensation therefor; the names of the assistants and laborers employed in making said survey, the time each was employed, the amount per day of their compensation, and the total amount each is to be paid; and the other expenses of every kind and nature incurred by me in making said survey, and the amounts thereof; which said tabular statement is hereto attached and made a part hereof, marked "Exhibit 4."

Where said Ditch or its branches along or across, or drains, any public or corporate road or railroad, I did specify the manner in which the earth shall be deposited and in case of bridges did specify that the bridges shall be built by the Town board and they shall be allowed damages for the construction of the same.

I also specified the kind of tile that shall be used in crossing some of the roads and the manner of laying the same.

I did cause to be prepared, with the assistance of the County Attorney of said Anoka, County, a form of contract under which the work of the construction of said Ditch and its branch is to be done, with complete specifications of the manner in which the work of said construction is to be done attached thereto, which said form of contract and said specifications is hereto attached and made a part hereof, marked "Exhibit 5."

In the Matter of the Petition of Hudson Guy and others and others  
 for a Public Ditch in the County of Anoka,  
 State of Minnesota.

TO THE BOARD OF COUNTY COMMISSIONERS OF Anoka, County, STATE OF MINNESOTA:

I, the undersigned civil engineer appointed by your order dated the Thirtieth of August, 1906, to survey the route proposed in the petition of Hudson Guy, and others, for a public Ditch, respectfully report that, within the time specified in your said order, I did make a complete survey of the line of said proposed Ditch and its branches from its source to its outlet, and of the branches thereof; and did cause stakes to be set along said line, and along the branches thereof, numbered progressively down stream at each one hundred feet.

That in making said survey I did locate the source, outlet, and line of said Ditch and branch as near the points of source, outlet, and line described in said petition therefor as practicable, and did consider and specify such branches of said Ditch in my opinion are necessary to give the land owners likely to be assessed for its construction the full benefit thereof; and wherever the line of said Ditch or its branch is along established highways I did locate it at a sufficient distance from the center of said highways to admit of good roads along the central line thereof, and in such manner as to provide sufficient and suitable culverts and openings to drain away the surface water therefrom, and so as not to obstruct the flow of surface water therefrom in time of high water; and did, so far as practicable, locate said Ditch and branch on division lines between lands owned by different persons, and did avoid, as far as practicable without sacrificing the general utility thereof, laying the line of said Ditch or branch, diagonally across lands owned by persons on or across which the said Ditch or branch must pass.

I have caused a map of said survey to be made, showing the line and location of said Ditch, and of the branches thereof, the highways along which any part thereof runs, the stakes placed along the line thereof and along said branches thereof and the number of each stake, the separate tracts of land over or across which any part thereof and its branches pass, a description of each tract, the number of acres in each tract, the boundaries of each tract, and the name of the owner of each tract, and have made an outline of the meander line of Swan Lake so called which it is the desire to drain, and the number of acres within the meander line of the said lake.

which said map is hereto attached and made a part hereof, marked "Exhibit 1."  
 I did further cause to be made in tabular form a statement, showing the number of cubic yards to be excavated between each of the one hundred feet stakes along the line of said Ditch, and the branches thereof, the cost of excavating the same per cubic yard, the estimated cost of the removal of obstructions between each of said one hundred feet stakes, the estimated cost of all wood and masonry work, fences or bridges necessary between each of said one hundred feet stakes, the estimated cost of all underground work with tile or other material between each of the one hundred feet stakes, the total estimated number of cubic yards of earth to be excavated from said

Ditch, and the branches thereof, the estimated preliminary expense and expense of inspection of the same until its completion, and the total estimated cost of said work complete to its completion; which said tabular statement is hereto attached and made a part hereof, marked "Exhibit 2."

It is the desire of the parties interested in the construction of ditch to drain the Swan Lake so-called in a certain direction. The route chosen in the petition was surveyed and found to be an expensive piece of work, so another route was surveyed going to right of way of the Great Northern Railway and following along the outer side of the said right of way to a culvert in the roadbed of the said railroad and thence through the culvert across private lands to Cedar Creek at a short distance down stream from the point selected by the petitioners. Both routes were plotted and estimated and this route proved to be some Three Thousand (3,000) feet shorter than the one originally fixed. This shorter route has been platted and is the one selected in this report. In order to avoid placing a deep wide ditch on some of the property No. 2 Sewer pipe has been specified for this work at this place.

The ditch as here designed will thoroughly drain Swan Lake and leave no water in the lake when built.

Done this 30th day of March A. D. 1907.

Dated this 30th day of March A. D. 1907.

State of Minnesota, }  
County of Stone } ss.

being duly sworn, on oath says that he is the civil engineer who made the foregoing report and made the survey therein referred to; that he has read the foregoing report and the exhibits thereto attached and knows the contents thereof, and that the same are true and correct of his own knowledge.

Subscribed and sworn to before me this 30th day of March A. D. 1907.

Notary Public  
County of Stone