

**DRAINAGE BLANK.**

IN THE MATTER OF THE PETITION OF

*M. C. Blanchett*

AND OTHERS.

**ENGINEER'S REPORT**

Ditch No. *49*

Filed

*September 27* 1908

*Arthur Caswell*

County Auditor.

By *C. S. Piper*  
Deputy

Approved and adopted

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County Auditor.

In the Matter of the Petition of W. C. Blanchett, and others  
 \_\_\_\_\_

for a Public Ditch, in the County of Anoka, and others  
 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 \_\_\_\_\_ day

of 190, to survey the route proposed in the petition of \_\_\_\_\_

M. C. Blanchett, 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 Public Ditch, 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 Public Ditch, 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 Public Ditch, as in my opinion are necessary to give the land owners likely to be benefited for its construction the full benefit thereof; and wherever the line of said Public Ditch or its ais 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 branches \_\_\_\_\_ 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 branches, diagonally across lands owned by persons on or across which the said ditch or branches, \_\_\_\_\_ must pass.

I have caused a map of said survey to be made, showing the line and location of said public 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 an outline of the marshes that will be drained or improved by the drainage of the lands by this public ditch and its \_\_\_\_\_ branches, \_\_\_\_\_

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 public 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 \_\_\_\_\_ public 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."

I would further report that upon a thorough examination of the tract of lands that will be drained by this ditch and its branches I find that some of the land is in two drainage basins and the division between the said basins is not well defined, the water in flood times flowing one way or the other as the grasses and weeds offer the least resistance to the flow of water. In the assessment it will be advisable to take this fact into consideration and a careful investigation of the situation should be made before the exact benefits and damages are assessed.

Dated this 16<sup>th</sup> day of September A. D. 1908  
R. E. Hill  
Civil Engineer.

State of Minnesota, }  
County of Deer } ss. R. E. Hill

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.

R. E. Hill  
Subscribed and sworn to before me this 24<sup>th</sup> day of September A. D. 1908

Carrie Stewart Dixon  
Deputy County Clerk,  
Deer River, Minn.

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.....

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 public ditch,..... runs along or across, or drains, any public or corporate road or railroad, I did specify that the bridges that shall be built by the towns in which the said bridges shall be located.

This public ditch crosses no railroad and only a few public roads.

I did cause to be prepared, with the assistance of the County Attorney of said A n o k a

County, a form of contract under which the work of the construction of said D i t c h ;  
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."