

Engineer ' S Report

Ditch No. 48 Anoka Co.

Filed in the Office of the
County Auditor of Anoka County
Minnesota, this ^{13th}..... day
of ^{June}..... 1908.

Arthur B. ...

County Auditor.

In The Matter Of The Petition Of J. W. Merrill and others
for a Public Ditch in the County of Anoka, State of Minnesota.

To the honorable Board of County Commissioners of the County
of Anoka, State of Minnesota:-

I, the undersigned civil engineer appointed by your honorable
body on the July 31st, 1907 to survey the proposed route as presented in
the petition of J. W. Merrill, and others for a public ditch would
respectfully report, that within the time specified in your
said order, I did make a complete survey of the line of the 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.

I did also upon the written request of the petitioners and their bonds-
men, survey a line for a ditch from the Sun Lake, so-called, southerly
and westerly along the natural outlet of said lake, through the lands of
Mr. Thos Lee and Mr. Townsend to Cedar Creek; and set and mark stakes
progressively down stream from the lake to the entrance of the stream
therefrom into Cedar Creek on the Lands of Harry L. Sill.

That in making said survey I did locate the source, outlet, and
line of the said public ditches and their branches, as near the points of
source, outlet and line described in said petition therefor as practi-
cable, 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 as-
sessed for its construction the full benefit thereof; and wherever the
line of said ditch 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 center line thereof, and in such a 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 there-
from in time of high water; and did, so far as practicable locate said
Public Ditch on division lines, between ~~owners~~ lands owned by different
persons, and did avoid, as far as practicable without sacrificing the
general utility thereof, laying the line of said Public Ditch diagonally

across lands owned by persons on or across which the said Public Ditch must pass.

I have caused a map of said survey to be made, showing the line and location of said Public Ditch and Its Branches, 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, the location ~~of~~ of the line of the Great Northern R.R., the location of the outlet of Swan Lake. On the same map I have shown the two different ways of draining the territory covered by the petition, which said map of the whole part is hereto attached and made a part hereof, marked "Exhibit 1" of Ditch No. 48.

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 foot stakes along the line of the said Public Ditch as petitioned and also of the route following the natural outlet of the Swan Lake, and of all the branches of both routes, the cost of excavating the same per cubic yard, the estimated cost of the removal of obstructions between each of the 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 to be excavated from said public ditch and its branches, the estimated preliminary expenses and the expense of inspecting the same until its completion, and the total estimated cost of said work complete to its completion; which tabular statement is hereto attached and made a part hereof, marked "Exhibit 2."

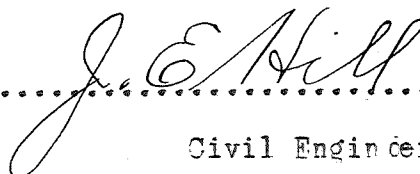
I did further cause to be specified and set forth in tabular form the depth of cut, the width at the bottom, the width at the top, between each one hundred feet stake of said Public Ditch and its branches, the obstructions to be removed, the wood or masonry work, fences, bridges or other struc-

tures, necessary to be constructed between each of the said One Hundred feet stakes, the underground work, with size and character of tile and other material 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 tabular statement is attached hereto and made a part hereof, marked " Exhibit 3 "

I did further cause to be specified and set forth in tabular 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 each and 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 tabular statement is hereto attached and made a part hereof marked " Exhibit 4 "

Where said Public Ditch or its branches runs along or across, or drains, any public or corporate road or railroad I did set forth in the said report the size of the opening for the culvert under the said road or railroad and did suggest the material of which the culvert should be built and did propose a plan for said culvert which is marked " Exhibit 6 "

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 construction of said Public Ditch and its Branches 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 "

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Civil Engineer Ditch No. 48

Dated this 10th. day of June A. D. 1908.

State of Minnesota }
 County of Anoka, } *S.S.*

John E. Hill, 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.

J. E. Hill

Subscribed and sworn to before me this day of A. D. 1908.