

Engineers Report
County Ditch No. 57

To the Board of County Commissioners
of Anoka County, Minn.

In the matter of County Ditch No. 57

To the County Commissioners above named:
I, the undersigned engineer appointed by your order dated the 26th day of October 1915 and duly filed herein, reference to which is hereby made, to survey the route of the drain above specified, respectfully report as follows:
FIRST: That I did take the oath required by law, and executed the bond required by law, which bond has been approved by the County Attorney and filed in the office of the County Auditor.

SECOND: That immediately thereafter I did proceed to make such survey of said drain from its sources to its outlets and of the branches thereof which in my opinion are necessary to give the land owners likely to be assessed for the construction thereof the full benefit thereof, and that I did proceed to make a careful and complete survey of the territory proposed to be drained by said ditch, drain and watercourse, and did cause to be set along the line of said drain and the said branches thereof, stakes numbered progressively down stream at each one hundred feet hereof; that in making such survey I did locate the sources and outlets and lines of said drain as near as practicable to the points and lines specified in the petition therefor; that wherever the line of said drain is along an established highway I did locate it at a sufficient distance from the center line of said highway to admit of good drainage thereof and good roads along the center line thereof and of the working and improving of the same as hereinafter specified; that I did, so far as practicable, locate said drains on division lines between lands owned by different persons, and did avoid as far as possible without sacrificing the general utility thereof, laying or locating the lines of said drain diagonally across lands owned by one person.

THIRD: That I did cause to be ascertained the number of cubic yards to be excavated between each two of the stakes set as aforesaid every one hundred feet along the line of said drain and the branches thereof; the cost of excavating the same per cubic yard; the obstructions to be removed and the structures necessary to be built, such as bridges, fences, masonry and woodwork between each of said one hundred feet stakes, and the estimated cost thereof; the underground work necessary to be done and the character thereof, together with the size and kind of tile and other material therefor and the estimated cost of same between each of said one hundred feet stakes; the total estimated number of cubic yards of earth to be removed from said drain and the branches thereof; the estimated preliminary expenses, expenses of inspection and other expenses of said drain and its branches to its completion; and did cause all the same to be shown in a tabular statement which is hereto attached as a part hereof marked "Exhibit 1".

FOURTH: That I did cause to be ascertained the necessary depth of cut, the width thereof at the bottom, the width thereof at the top, between each of said one hundred feet stakes along the line of said drain and of the branches thereof; the manner and the time in which said work is to be done between each of said one hundred feet stakes along the line of said drain and the branches thereof; and have caused the same to be shown in a tabular statement which is attached hereto and made a part hereof, marked "Exhibit 2".

FIFTH: That I have caused to be ascertained and set forth in a tabular statement, the time occupied by me in making said survey and my compensation therefore, the names of the assistants employed by me in making said survey, the time each was employed, the amount per day to be paid to them and the total amount to be paid to each; all of the other expenses of every kind and nature incurred by me in making said survey; the amounts thereof and the total expenses of said survey; which said tabular statement is hereto attached as a part hereof and marked "Exhibit 3".

SIXTH: That with the assistance of the County Attorney of said county, I did cause to be prepared a form of contract under which said work of construction of said drain is to be done, with complete specifications and plans of said work and the manner in which the same is to be done, which said form of contract is hereto attached as a part hereof, marked "Exhibit 4".

SEVENTH: This drainage is proposed by me to be an open ditch in its entirety, and the excavation will consist of loam, peat, clay and gravel, and is to be a dredge job on the main ditch and wherever possible on the branches thereof.
Dated May 9th 1916.

Respectfully submitted
Wayne L. Ridge,
Engineer

Subscribed and sworn to before me this 9th day of May 1916
Mildred A. Swice
County Auditor of Anoka County.

This report certified as to plat sheets, S Profile and Estimate sheets, Contract, specifications and bond.
Wayne L. Ridge,
Engineer.

Manner in which work is to be done and time for completion.
Main ditch to be open ditch dredge work and to be completed on or before June 1st 1917.
Branch ditches are to be open ditch dredge work and are to be completed on or before June 1st 1917.

Description of County Ditch No. 57, Anoka County, Minn.
MAIN DITCH

Commencing at a point in the N.W. 1/4 of the S.E. 1/4 of Sec. 30, T. 32, R. 23, which point is S. 78 1/2° E. 8' 00" from the center of said Sec. 30, thence running S. 1/2° W. 93' to Sta. 9+32, thence S. 63° W. 628' to Sta. 15+60, thence West along the East 1/2 West 1/2 line, 2845' to Sta. 44+05 which point is the N.W. 1/4 corner of the S.W. 1/4 of said Sec. 30, T. 32, R. 23, thence West along the East 1/2 West 1/2 line, in the S. 1/2 of Sec. 25, T. 32, R. 24, 2193' to Sta. 65+98, thence S. 73 1/4° W. 1425' to Sta. 80+23, N. 55° W. 1903' to Sta. 99+26 which point is on the West line of said Sec. 25 and 578' South of the N.W. 1/4 corner of said Sec. 25, thence continuing N. 55° W. 712' into Sec. 26, T. 32, R. 24 to Sta. 106+38, thence S. 47 3/4° W. 279' to Sta. 109+17, thence S. 16° E. 1049' to Sta. 119+66, thence S. 03 1/2° W. 773' to Sta. 127+39, thence S. 52 3/4° W. 757' to Sta. 134+96 which point is on the South line of said Sec. 26, thence West along the Sec. line 226' to Sta. 137+22, thence S. 85 1/2° W. 308' into Sec. 35, T. 32, R. 24 to Sta. 140+30, thence N. 75 1/4° W. 157' to Sta. 141+87 which point is on the South line of Sec. 26, T. 32, R. 24, thence West along the Sec. line 1366' to Sta. 155+53, thence N. 55 1/2° W. 952' to Sta. 165+05, thence N. 71 1/4° W. 1244' to Sta. 177+49, thence N. 57 1/4° W. 918' to Sta. 186+67 which point is in Sec. 27, T. 32, R. 24, thence N. 37 1/2° W. 922' to Sta. 195+89, thence N. 88 1/4° W. 829' to Sta. 204+13, thence N. 19 1/2° W. 487' to Sta. 209+05, thence S. 83 1/4° W. 679' to Sta. 215+84, thence N. 47 1/2° W. 1161' to Sta. 227+45, thence N. 84 3/4° W. 1038' to Sta. 237+83, thence N. 89° W. 790' to Sta. 245+73 which point is in Sec. 28, T. 32, R. 24, thence N. 41 1/2° W. 505' to Sta. 250+78, thence S. 55 1/4° W. 662' to Sta. 257+40, thence N. 75 1/2° W. 1064' to Sta. 268+04, thence S. 80 1/2° W. 866' to Sta. 276+30, thence S. 71 1/2° W. 1556' to Sta. 291+86, thence S. 35 1/2° W. 1036' to Sta. 302+22, thence S. 0° 30' E. 225' to Sta. 304+47, thence S. 25 1/4° E. 2041' to Sta. 324+88 which point is in Sec. 33, T. 32, R. 24, thence S. 67 3/4° E. 690' to Sta. 331+78, thence S. 47 1/2° E. 1038' to Sta. 342+16, thence S. 14° W. 860' to Sta. 350+76, thence S. 43 1/2° E. 704' to Sta. 357+80, thence S. 83 3/4° E. 1093' to Sta. 368+73, thence S. 32° E. 1003' to Sta. 378+76, thence S. 19° E. 727' to Sta. 386+03 which point is on the S. line of said Sec. 33, thence S. 31° W. 597' into Sec. 4, T. 31, R. 24 to Sta. 392+00, thence S. 15 1/2° W. 931' to Sta. 401+31, thence S. 12 1/4° W. 1126' to Sta. 412+57, thence South 799' to Sta. 420+56, thence S. 32 1/2° E. 1624' to Sta. 436+80, thence S. 53 1/2° E. 345' to Sta. 440+25, thence S. 30 1/2° E. 418' to Sta. 444+43, thence S. 4 1/2° W. 157' to Sta. 446+00 which point is 33' North and 567 1/2' West of the S.E. corner of said Sec. 4, T. 31, R. 24, and there terminating at Sta. 00 of County Ditch No. 57.

BRANCH No. 1

Commencing 350ft West of the East 1/2 Corner of the S.E. 1/4 of Sec. 25 Twp. 32, R. 24, thence S. 43° E. 470ft. to East line of said Sec. 25, thence S. 26° E. 380ft. to the end in S.W. 1/4 of S.E. 1/4 of Sec. 30 Twp. 32, R. 24.

Engineer's Statement of Cost of Survey and Report

Names of Assistants	No. of Days	Rate per Day	Total	Other Charges	Amount	Grand Total
W.L. Ridge Engineer	19	\$6.00	\$114.00		57.35	\$171.35
James Carr Consulting Engineer	4	6.00	24.00			24.00
H.C. Richardson Asst	57 1/2	6.00	345.00			345.00
H.P. Caswell Rodman	17	2.50	42.50			42.50
H.E. Blewett Chairman	13	2.50	32.50			32.50
H. Dinsmore do.	30	2.00	60.00			60.00
Fred Merrill Livery	14	2.50	35.00			35.00
						\$746.35

Engineer's Estimate of Laying out, Establishing and Constructing County Ditch No. 57 Anoka County, Minnesota

Cost of Survey and Report	\$746.35
Legal Publications required	1.00
Posting Notices	2.00
Auditor's Compensation	2.00
Attorney's Fees	2.00
Register of Deeds	10.00
Supervising, Inspecting & Accepting Work	2.00
Viewer's report & hearings	1.50
Estimated of Constructing of Main Ditch and Branches	2190.70
Total	\$23,538.05