

IN THE MATTER OF,  
PETITION  
OF  
T. H. SCHOLBROCK, And Others,  
FOR  
A  
PUBLIC DITCH.

Engineer's

Report.

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# DRAINAGE BLANK.

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IN THE MATTER OF THE PETITION OF

.....  
**AND OTHERS.**  
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## ENGINEER'S REPORT

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*Ditch No.*.....

*Filed*..... *190*.....

*County Auditor.*

*Approved and adopted*.....

..... *190*.....

*County Auditor.*

In the Matter of the Petition of T. H. SCHOLBROCK -----

----- 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 Sixth (6th) day of May, 1908, to survey the route proposed in the petition of said T. H. SCHOLBROCK ----- 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 ----- 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, ----- as 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 its 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 its branch, diagonally across lands owned by persons on or across which the said Ditch or its 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 the point in Ford Brook, so-called, where the ditch will empty its water into the said Ford Brook, and the outline of the marshy and wet lands which the said drain will benefit.

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."

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 and its branch 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 runs along or across, or drains, any public or corporate road or railroad, I did plan for the same to be carried under the said road by vitrified pipe of sufficient size to carry the water in extreme flood that would be caused by heavy rainfall on the area outlined in the report and shown on "Exhibit 1".

I did further give a description of the route of the proposed ditch and its branch relative to the descriptions of the lands over which the proposed ditch and its branch will flow. Also I have prepared a circular of description of the proposed ditch and the quantities that will be required to construct the same, with the nearest railroad point and the distance to the said Railroad point.

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."

*John E. Hill*

Civil Engineer.

Dated this --- 23rd. --- day of January, --- A. D. 1909.

State of Minnesota, }  
County of Anoka, } ss.

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.

*John E. Hill*

Subscribed and sworn to before me this 25th day of January A. D. 1909

*Arthur A. Caswell*

Auditor of Anoka Co., Minn.

Description of Ditch No. 50

Anoka County Minn.

Main Ditch.

Commencing near the center of the SW.  $\frac{1}{4}$  of the SW.  $\frac{1}{4}$  of Sec. Fourteen ( 14 ) Township number Thirty Three ( 33 ) ; Range Twenty Five ( 25 ) West of the 4th. Principal Meridan, in the Town of Burns and running thence easterly through the SW.  $\frac{1}{4}$  of SW.  $\frac{1}{4}$ ; SE.  $\frac{1}{4}$  of SW.  $\frac{1}{4}$ ; SW.  $\frac{1}{4}$  of SE.  $\frac{1}{4}$ ; and the SE.  $\frac{1}{4}$  of SE.  $\frac{1}{4}$  and emptying into Ford brook in the center of the said SE.  $\frac{1}{4}$  of SE.  $\frac{1}{4}$ ; All in Sec. Fourteen ( 14 ) Township Thirty Three ( 33 ) North, Range Twenty Five ( 25 ) West of the Fourth ( 4th. ) Principal Meridan in the Town of Burns.

Branch One ( 1 )

Commencing at a point Fifty (50) feet west of Section Corner to Sections Fourteen ( 14 ); Fifteen ( 15 ); Twenty Two ( 22 ); Twenty Three ( 23 ) Township Thirty Three ( 33 ); Range Twenty Five ( 25 ) Town of Burns and running thence East on the section lines to a point Two Hundred and Fifty ( 250 ) feet East of the said Section corner and thence Northeasterly to Sta Zero ( 0 ) of the Main Ditch near the center of the SW.  $\frac{1}{4}$  of SW.  $\frac{1}{4}$  of Section Fourteen ( 14 ) of said Township.

The lands effected by the proposed ditch are as follows:-

All in Township Thirty Three ( 33 ) North ; Range Twenty Five ( 25 ) West of the 4th. Principal Meridan. Town of Burns.

Description.		Owner.
NE. $\frac{1}{4}$ of SE. $\frac{1}{4}$ of	Sec. 15	Eric Mattson,
SE. $\frac{1}{4}$ of SE. $\frac{1}{4}$ of	Sec. 15	A. A. Johnson,
EA. $\frac{30$ ft. E. of NE. $\frac{1}{4}$ of NE. $\frac{1}{4}$	Sec. 22	A. Hovind.
NE. $\frac{1}{4}$ of NE. $\frac{1}{4}$	Sec. 23	St. P. M. & M. Ry.
NE. $\frac{1}{4}$ of NW. $\frac{1}{4}$	Sec. 23	Henry Richter.
N. $\frac{1}{2}$ of SW. $\frac{1}{4}$	Sec. 14	D. E. Shannon.

SW. $\frac{1}{4}$ of SW. $\frac{1}{4}$	Sec. 14	Franklin Benner
SE. $\frac{1}{4}$ of SW. $\frac{1}{4}$	" "	John Iverson Jr.
SW. $\frac{1}{4}$ of SE. $\frac{1}{4}$	" "	John Iverson Sr.
SE. $\frac{1}{4}$ of SE. $\frac{1}{4}$ of	" "	State Bank of Anoka,

Summary of estimates of

Ditch No. 50

Anoka County Minn.

Sheet No. 1	1,728.86	\$ 207.82	\$ 170.64	\$ 378.26
Sheet No. 2	3,481.43	724.70	161.16	885.86
Sheet No. 3.	588.87	70.06	56.88	126.94

Branch No. 1.

Sheet No. 1	<u>967.01</u>	<u>104.05</u>	<u>106.67</u>	<u>210.72</u>
	6,781.17	\$ 1,106.43	\$ 495.35	\$1,601.78



Estimate of Preliminary Expenses

Ditch No. 50

Anoka County Minn.

Auditors Fees,	\$	50.00	
Printing,		30.00	
Sheriff fees,		50.00	
Register of Deeds fees.		5.00	
Commissioners,		100.00	
Viewing		75.00	
Inspecting finished work,		50.00	
Survey,		<u>135.05</u>	\$ 495.05

## EXHIBIT 2 OF ENGINEER'S REPORT IN DITCH PROCEEDINGS.

Showing Estimated Depth of Cut, Width, No. of Cubic Yards Removed and Cost of Same, in MAIN Ditch No. 50

SECTION	(1) DEPTH OF CUT	(2) WIDTH OF CUT AT BOTTOM	(3) WIDTH OF CUT AT TOP	(4) NO. OF CUBIC YARDS TO BE REMOVED	(5) Estimated Cost Per Cubic Yards		(6) Character of Other Expenses, Including Preliminary Expenses and Expense of Inspecting Work until Completed With Total Per Section			(7) Total Estimated Cost per Section	
					\$	CTS.	\$	CTS.	\$	CTS.	
Between Stake No. 0	1.9 ft.	2.0 ft.	5.8 ft.								
and Stake No. 1.	2.0 "	2.0 "	6.0 "	28.40	0.12	\$ 3.40		9	48	12	88
Between Stake No. 2.	2.3 "	2.0 "	6.6 "	30.78	0.12	3.68		9	48	13	16
and Stake No. 3.	2.3 "	2.0 "	7.6 "	42.98	0.12	5.16		9	48	14	64
Between Stake No. 4.	2.7 "	2.0 "	7.4 "	43.38	0.12	5.82		9	48	15	30
and Stake No. 5.	3.2 "	2.0 "	8.4 "	54.09	0.12	6.49		9	48	15	97
Between Stake No. 6.	3.3 "	2.0 "	8.6 "	63.10	0.12	7.57		9	48	17	05
and Stake No. 7.	3.3 "	2.0 "	8.6 "	64.77	0.12	7.78		9	48	17	26
Between Stake No. 8.	3.7 "	2.0 "	8.4 "	71.28	0.12	8.56		9	48	18	04
and Stake No. 9.	4.1 "	2.0 "	10.2 "	104.29	0.12	12.51		9	48	21	99
Between Stake No. 10.	5.0 "	2.0 "	12.0 "	110.37	0.12	13.29		9	48	22	77
and Stake No. 11.	4.3 "	2.0 "	11.6 "	125.20	0.12	15.08		9	48	24	56
Between Stake No. 12.	4.3 "	2.0 "	11.6 "	120.37	0.12	14.50		9	48	23	98
and Stake No. 13.	5.1 "	2.0 "	12.2 "	127.40	0.12	15.31		9	48	24	79
Between Stake No. 14.	5.2 "	2.0 "	12.4 "	132.00	0.12	15.84		9	48	25	32
and Stake No. 15.	5.5 "	2.0 "	13.0 "	145.87	0.12	17.48		9	48	26	96
Between Stake No. 16.	5.6 "	2.0 "	13.2 "	153.10	0.12	18.39		9	48	27	87
and Stake No. 17.	5.5 "	2.0 "	13.0 "	153.10	0.12	18.38		9	48	27	86
Between Stake No. 18.	5.6 "	2.0 "	13.2 "	153.10	0.12	18.38		9	48	27	86
and Stake No.				1,728.88		\$ 207.62		170	64	378	26

*Total Estimated Cost of Whole Work,-----*

## EXHIBIT 2 OF ENGINEER'S REPORT IN DITCH PROCEEDINGS.

Showing Estimated Depth of Cut, Width, No. of Cubic Yards Removed and Cost of Same, in W. A. I. N. Ditch No. 42

SECTION	(1) DEPTH OF CUT	(2) WIDTH OF CUT AT BOTTOM	(3) WIDTH OF CUT AT TOP	(4) NO. OF CUBIC YARDS TO BE REMOVED	(5) Estimated Cost Per Cubic Yards		(6) Character of Other Expenses, Including Preliminary Expenses and Expense of Inspecting Work until Completed With Total Per Section		(7) Total Estimated Cost per Section	
					\$	CTS.	\$	CTS.	\$	CTS.
Between Stake No. 18.	5.6 ft.	2.0 ft.	13.2 ft.							
and Stake No. 19.	6.3 "	2.0 "	14.6 "	175.39	0.12	21.04		9 48	30 52	
Between Stake No. 20.	6.7 "	2.0 "	15.4 "	204.61	0.12	24.55		9 48	34 03	
and Stake No. 21.	8.7 "	2.0 "	19.4 "	280.67	0.12	33.68		9 48	43 16	
Between Stake No. 22.	15.7 "	2.0 "	20.0 "	604.00	0.10	<del>60.40</del> \$ 50.00		9 48	119 38	
and Stake No. 23.	13.6 "	2.0 "	16.0 "	575.00	0.10	57.50	50.00	9 48	113 98	
Between Stake No. 24.	11.3 "	2.0 "	14.0 "	394.00	0.10	39.40	50.00	9 48	98 38	
and Stake No. 25.	9.0 "	2.0 "	10.0 "	266.00	0.10	26.60	50.00	9 48	86 08	
Between Stake No. 26.	6.1 "	2.0 "	6.0 "	144.00	0.10	14.40	50.00	9 48	73 88	
and Stake No. 27.	5.6 "	2.0 "	6.0 "	85.00	0.10	8.50	50.00	9 48	67 98	
Between Stake No. 28.	5.8 "	2.0 "	6.0 "	85.00	0.10	8.50	<u>50.00</u>	9 48	67 98	
and Stake No. 29.	4.1 "	2.0 "	10.2 "	129.00	0.12	15.48	\$ 350.00	9 48	24 96	
Between Stake No. 30.	3.1 "	2.0 "	8.2 "	75.00	0.12	9.00		9 48	18 48	
and Stake No. 31.	3.5 "	2.0 "	9.0 "	65.00	0.12	7.80		9 48	17 28	
Between Stake No. 32.	3.5 "	2.0 "	9.0 "	72.00	0.12	8.64		9 48	18 12	
and Stake No. 33.	4.2 "	2.0 "	10.4 "	85.00	0.12	10.20		9 48	19 68	
Between Stake No. 34.	3.4 "	2.0 "	8.8 "	177.76	0.12	21.33		9 48	30 81	
and Stake No. 35.	3.1 "	2.0 "	8.2 "	34.00	0.12	7.68		9 48	17 16	
Between Stake No.				3,481.43		\$ 374.70		161 16	885 86	
and Stake No.						350.00				

724.70

Total Estimated Cost of Whole Work, .....

## EXHIBIT 2 OF ENGINEER'S REPORT IN DITCH PROCEEDINGS.

Showing Estimated Depth of Cut, Width, No. of Cubic Yards Removed and Cost of Same, in MAIN Ditch No. 49.

SECTION	(1) DEPTH OF CUT	(2) WIDTH OF CUT AT BOTTOM	(3) WIDTH OF CUT AT TOP	(4) NO. OF CUBIC YARDS TO BE REMOVED	(5) Estimated Cost Per Cubic Yards		(6) Character of Other Expenses, Including Preliminary Expenses and Expense of Inspecting Work until Completed With Total Per Section		(7) Total Estimated Cost per Section	
					\$	CTS.	\$	CTS.	\$	CTS.
Between Stake No. 35. and Stake No. 36.	3.1 ft. 3.5 "	3.0 ft. 2.0 "	8.2 ft. 9.0 "	64.77	0.12	\$ 7.77	9 48	17 25		
Between Stake No. 37. and Stake No. 38.	3.9 " 4.4 "	2.0 " 2.0 "	9.8 " 10.8 "	78.10 95.00	0.12 0.12	9.37 11.40	9 48 9 48	18 85 20 88		
Between Stake No. 39. and Stake No. 40.	5.0 " 4.2 "	2.0 " 2.0 "	13.8 " 10.4 "	138.00 134.00	0.12 0.12	16.32 16.08	9 48 9 48	25 80 25 56		
Between Stake No. 40+93 and Stake No.	3.4 "	2.0 "	8.8 "	76.00 <hr/> 583.87	0.12	9.12 <hr/> \$ 70.06	9 48 <hr/> 56 88	13 60 <hr/> 126 94		
Between Stake No. and Stake No.										
Between Stake No. and Stake No.										
Between Stake No. and Stake No.										
Between Stake No. and Stake No.										
Between Stake No. and Stake No.										
Between Stake No. and Stake No.										

*Total Estimated Cost of Whole Work, .....*

## EXHIBIT 2 OF ENGINEER'S REPORT IN DITCH PROCEEDINGS.

Showing Estimated Depth of Cut, Width, No. of Cubic Yards Removed and Cost of Same, in Branch # 1 Ditch No. 49.

SECTION	(1) DEPTH OF CUT	(2) WIDTH OF CUT AT BOTTOM	(3) WIDTH OF CUT AT TOP	(4) NO. OF CUBIC YARDS TO BE REMOVED	(5) Estimated Cost Per Cubic Yards		(6) Character of Other Expenses, Including Preliminary Expenses and Expense of Inspecting Work until Completed With Total Per Section				(7) Total Estimated Cost per Section	
					\$	CTS.	\$	CTS.	\$	CTS.		
Between Stake No. 0.	4.0 ft.	2.0 ft.	10.0 ft.									
and Stake No. 1.	4.0 "	2.0 "	10.0 "	88.89	0.12	\$10.67		9	48	20	25	
Between Stake No. 2.	5.5 "	2.0 "	13.0 "	119.00	0.12	14.28		9	48	23	73	
and Stake No. 3.	6.8 "	2.0 "	15.6 "	138.00	0.12	22.32		8	48	31	80	
Between Stake No. 4.	3.3 "	2.0 "	8.6 "	132.00	0.12	15.84		9	48	25	32	
and Stake No. 5.	2.5 "	2.0 "	7.0 "	52.62	0.12	6.31		9	48	15	79	
Between Stake No. 6.	2.6 "	2.0 "	7.2 "	42.98	0.12	5.13		9	48	14	64	
and Stake No. 7.	2.8 "	2.0 "	7.6 "	47.00	0.12	5.64		9	48	15	12	
Between Stake No. 8.	2.7 "	2.0 "	7.4 "	48.33	0.12	5.81		9	48	15	29	
and Stake No. 9.	3.0 "	2.0 "	8.0 "	51.19	0.12	6.14		9	48	15	62	
Between Stake No. 10.	2.5 "	2.0 "	7.0 "	48.38	0.12	5.81		9	48	15	29	
and Stake No. 11.	2.5 "	2.0 "	7.0 "	41.67	0.12	5.00		9	48	14	48	
Between Stake No. 11+26	1.9 "	2.0 "	5.8 "	8.90	0.12	1.07		2	39	3	46	
and Stake No.				367.01		\$ 104.05		106	67	210	72	
Between Stake No.												
and Stake No.												
Between Stake No.												
and Stake No.												
Between Stake No.												
and Stake No.												

*Total Estimated Cost of Whole Work, .....*

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# Engineer's Report

IN

## Ditch Proceedings.

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EXHIBIT 2 OF ENGINEER'S REPORT IN DITCH PROCEEDINGS

Showing Detailed Plans of the Work, No. of Cuts, and the Location of the Same

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Exhibit No. 4 of Engineer's Report

Ditch No. 50

Statement of actual time engaged and compensation charged  
and expenses incurred.

Work done and specification of Expense charges,	No. of days	per day Amount	Total Amount	Other expenses.
J. E. Hill, Engineer,	10	\$ 5 00	\$ 50 00	
James Corr, Asst. Eng.	5½	5 00	27 50	
Wayne Ridge Rodman,	5½	2 00	11 00	
T. H. Scholbrock, Chain,	5	1 50	7 50	
John Iverson Jr. "	5	1 50	7 50	
Dan Shannon Axman.	3	1 50	4 50	
Board of Men,				
Dan Shannon				\$ 12 80
" "				75
T. H. Scholbrock				1 25
John Iverson Jr.				1 25
Teams:				
Geo. W. Merrill				6 00
Dan Shannon,				5 00
			\$ 108 00	\$ 27 05
			<u>27 05</u>	
			\$ 135 05	

### Exhibit 3 of Engineer's Report in Ditch Proceedings.

Showing Time and Manner in which same must be done. Ditch No. 49

SECTION	TIME WITHIN WHICH WORK MUST BE DONE	MANNER IN WHICH WORK MUST BE DONE	MATERIALS USED	COST OF MATERIALS AND WORK
Stake No. 0. TO Stake No. 21	Dec. 1st. 1909.	M A I N D I T C H . Open ditch, Two (2) ft. on the bottom, side slopes One to One (1-1). Berm Three (3) ft.	2,389.53 Cu. Yds of material. @ 12¢ =	\$ 286 74
Stake No. 21 TO Stake No. 28	Dec. 1st. 1909	Fifteen inch (15") No. 2 Sewer pipe, laid to grade, joints cemented with mortar of 1 part of cement and 2 parts of sand. Trench to be filled in.	2,153 Cu. Yds of material @ 12¢ 700' pipe in place @ 50¢ =	\$ 215.30  350 00
Stake No. 28. TO Stake No. 40+93	Dec. 1st. 1909	Open ditch Two (2) ft. on the bottom, side slopes One to One ( 1-1 ). Berm Three (3) feet wide.	1,251.63 Cu. Yds of material @ 12¢ =	150.19
Stake No. 0. TO Stake No. 11+26.	Dec. 1st. 1909.	B R A N C H N o . 1 . Open ditch Two (2) ft. on the bottom and side slopes one to one ( 1/1 ) Berm Three (3) ft.	867.01 Cu. Yds. of material @ 12¢ =	\$ 104 05
Stake No. TO Stake No.				81106 28
Stake No. TO Stake No.				
Stake No. TO Stake No.				



# ENGINEER'S REPORT

IN

## DITCH PROCEEDINGS.

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The first ditch was dug in 1850, and since that time it has been enlarged and improved several times. It is now a fine ditch, and is well adapted for the purpose of draining the land. The ditch is 10 feet wide at the top, and 6 feet wide at the bottom. It is 10 feet deep, and is 100 feet long. The ditch is well adapted for the purpose of draining the land, and is well adapted for the purpose of draining the land.

The second ditch was dug in 1860, and since that time it has been enlarged and improved several times. It is now a fine ditch, and is well adapted for the purpose of draining the land. The ditch is 10 feet wide at the top, and 6 feet wide at the bottom. It is 10 feet deep, and is 100 feet long. The ditch is well adapted for the purpose of draining the land, and is well adapted for the purpose of draining the land.

The third ditch was dug in 1870, and since that time it has been enlarged and improved several times. It is now a fine ditch, and is well adapted for the purpose of draining the land. The ditch is 10 feet wide at the top, and 6 feet wide at the bottom. It is 10 feet deep, and is 100 feet long. The ditch is well adapted for the purpose of draining the land, and is well adapted for the purpose of draining the land.

Engineer's Report  
Ditch 50.

Filed this 25<sup>th</sup> day  
of January 1909  
Ashes A. Caswell  
County Auditor.  
By C. J. Papp Deputy.