

In the Matter of the Petition of *Lucy Anderson* and others for  
Repairs County Ditch No. 38, Anoka County Minn.  
To the Board of County Commissioners of the County of Anoka;

I, the undersigned engineer, appointed by your board to re-survey the route of County Ditch No. 38 for repairs would respectfully report that I did make a complete survey of the main ditch and did cause to be set along said line of ditch stakes numbered progressively down stream at each 100 feet

I did further cause to be made in tabular form a statement showing the depth of cut, the width at the bottom, the width at the top, the number of cubic yards in the old ditch and the number of cubic yards to be excavated between each 100 foot stake, the cost of excavating same per cubic yard, the total estimated number of cubic yards to be excavated, the total estimated cost of excavating the same, the estimated preliminary expenses and the total estimated cost of said work complete to its completion; which tabular statement is hereto attached and marked exhibit No. 2

I did further cause to be set forth in tabular statement, showing the time occupied by me in making said survey and my compensation therefor; the names of assistants and laborers employed in making said survey; the time each was employed, the amount per day of each 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 statement is hereto attached and marked exhibit No. 3

I did cause to be prepared a form of contract under which the work of construction of Repairs of said public ditch is to be done, with complete specifications of the manner in which work of said construction is to be done attached thereto, which said form of contract and specifications is hereto attached and marked exhibit No. 4

*Oska S. Smith*  
May 22 1916

*Walter J. Reddy*  
Engineer Repairs Ditch No. ---

TOTAL ESTIMATED COST

of

REPAIRS COUNTY DITCH NO. 38

Printing -----	\$ 50.00
Sherrif's fees -----	20.00
Register of Deeds -----	5.00
Attorneys dees -----	50.00
Auditors fees -----	100.00
Commissioners meetings -----	77.00
Survey and report -----	49.50
Inspection -----	50.00
Cost of construction -----	<u>1039.45</u>
TOTAL	\$ 1440.95

## 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 County Ditch No. 38

SECTION	(1)	(2)	(3)	(4)		(5)	(6)	(7)
	DEPTH OF CUT	WIDTH OF CUT AT BOTTOM	WIDTH OF CUT AT TOP	No. of Cubic Yards to be Removed in Old Ditch	No. of Cubic Yards to be Removed	Estimated Cost of Excavation Per Cubic Yard		
						\$ CTS.	\$ CTS.	\$ CTS.
Between Stake No. 8	2.5	2.0	7.0	—	—	—		
8 and Stake No. 9	2.0	"	6.0	24	13	1 95		
Between Stake No. 10	2.0	"	6.0	21	16	2 40		
and Stake No. 11	2.0	"	6.0	21	16	2 40		
Between Stake No. 12	2.0	"	6.0	22	14	2 10		
and Stake No. 13	2.0	"	6.0	22	14	2 10		
Between Stake No. 14	2.3	"	6.6	24	11	1 65		
and Stake No. 15	2.5	"	7.0	27	12	1 80		
Between Stake No. 16	2.2	"	6.4	30	7	1 05		
and Stake No. 17	2.4	"	6.8	28	6	90		
Between Stake No. 18	2.4	"	6.8	25	14	2 10		
and Stake No. 19	2.4	"	6.8	22	17	2 55		
Between Stake No. 20	3.0	"	8.0	25	19	2 85		
and Stake No. 21	2.7	"	7.4	27	23	3 45		
Between Stake No. 22	2.9	"	7.8	25	25	3 75		
and Stake No. 23	2.7	"	7.4	24	23	3 45		
Between Stake No. 24	2.5	"	7.0	22	19	2 85		
and Stake No. 25	3.0	"	8.0	27	23	3 45		
Between Stake No. 26	3.0	"	8.0	34	22	3 30		
and Stake No. 27	2.5	2.0	7.0	31	16	2 40		
					310	46.50		

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 County Ditch No. 38

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 <small>No. of cu. Yds. to be removed in old Ditch</small>	(5) Estimated Cost Per Cubic Yard \$ CTS.	(6) Character of Other Expenses, Including Preliminary Expenses and Expense of Inspecting Works Until Completed With Total per Section		(7) Total Estimated Cost per Section		
						\$	CTS.	\$	CTS.	
Between Stake No. 27 and Stake No. 28	2.5	2.0	7.0	—	—					
Between Stake No. 29 and Stake No. 30	2.9	"	7.8	28	19	2	85			
Between Stake No. 31 and Stake No. 32	2.8	"	7.6	30	20	3	00			
Between Stake No. 33 and Stake No. 34	3.2	"	8.7	31	22	3	30			
Between Stake No. 35 and Stake No. 36	3.2	"	8.4	39	23	3	45			
Between Stake No. 37 and Stake No. 38	3.1	"	8.2	41	17	2	55			
Between Stake No. 39 and Stake No. 40	3.2	"	8.4	41	17	2	55			
Between Stake No. 41 and Stake No. 42	2.6	"	7.2	33	17	2	55			
Between Stake No. 43 and Stake No. 44	3.5	"	9.0	33	23	3	45			
Between Stake No. 45 and Stake No. 46	2.7	"	7.4	36	21	3	15			
Between Stake No. 47 and Stake No. 48	2.9	"	7.8	30	20	3	00			
Between Stake No. 49 and Stake No. 50	2.7	"	7.4	25	25	3	75			
Between Stake No. 51 and Stake No. 52	3.0	"	8.0	24	26	3	90			
Between Stake No. 53 and Stake No. 54	3.0	"	8.0	25	31	4	65			
Between Stake No. 55 and Stake No. 56	2.6	"	7.2	22	28	4	20			
Between Stake No. 57 and Stake No. 58	2.8	"	7.6	22	26	3	90			
Between Stake No. 59 and Stake No. 60	2.9	"	7.8	25	25	3	75			
Between Stake No. 61 and Stake No. 62	3.0	"	8.0	37	19	2	85			
Between Stake No. 63 and Stake No. 64	3.0	"	8.0	36	17	2	55			
Between Stake No. 65 and Stake No. 66	3.0	2.0	8.0	30	26	3	90			
<b>422</b>					<b>63.30</b>					

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 County Ditch No. 38.

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 Yard		(6) Character of Other Expenses, Including Preliminary Expenses and Expense of Inspecting Works Until Completed With Total per Section		(7) Total Estimated Cost per Section	
						\$	CTS.	\$	CTS.	\$	CTS.
Between Stake No. 47 and Stake No. 48	3.3 3.4	2.0 ..	8.6 8.8	31 30	31 35	4 65 5 25					
Between Stake No. 49 and Stake No. 50	3.3 3.3	.. ..	8.6 8.6	28 20	37 42	5 55 6 30					
Between Stake No. 51 and Stake No. 52	3.6 3.6	.. ..	9.0 9.2	20 22	45 49	6 75 7 35					
Between Stake No. + 53 and Stake No. + 60	{3.5 3.7 5.7 3.5	.. .. .. ..	9.0 Road 9.0	17	19 52	2 85 7 80	30 feet of 30" Cor. I. Pipe				\$ 51.00
Between Stake No. 53 and Stake No. 54	2.5 2.8	.. ..	9.0 9.6	17 16	19 28	2 85 4 20					
Between Stake No. 55 and Stake No. 56	4.0 4.3	.. ..	10.0 10.6	25 37	57 59	8 55 8 85					
Between Stake No. 57 and Stake No. 58	3.8 3.7	.. ..	9.6 9.4	36 31	54 47	8 10 7 05					
Between Stake No. 59 and Stake No. 60	3.8 3.8	.. ..	9.6 9.6	31 31	51 47	7 65 7 05					
Between Stake No. 61 and Stake No. 62	3.8 3.5	.. ..	9.6 9.0	31 27	47 48	7 05 7 20					
Between Stake No. 63 and Stake No. 64	4.0 3.8	.. ..	10.0 9.6	28 30	50 52	7 50 7 80					

869 130.35

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 County Ditch No. 38

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 Yard		(6) Character of Other Expenses, Including Preliminary Expenses and Expense of Inspecting Works Until Completed With Total per Section		(7) Total Estimated Cost per Section	
					\$	CTS.	\$	CTS.	\$	CTS.
Between Stake No. 65 and Stake No. 66	3.6	2.0	9.2	27	48	7 20				
Between Stake No. 67 and Stake No. 68	3.7	"	9.4	27	48	7 20				
Between Stake No. 69 and Stake No. 70	3.6	"	9.2	25	50	7 50				
Between Stake No. 71 and Stake No. 72	3.6	"	9.2	24	47	7 05				
Between Stake No. 73 and Stake No. 74	3.1	"	9.4	25	50	7 50				
Between Stake No. 75 and Stake No. 76	3.9	"	9.8	27	51	7 65				
Between Stake No. 77 and Stake No. 78	3.8	"	9.6	28	54	8 10				
Between Stake No. 79 and Stake No. 80	3.8	"	9.6	28	50	7 50				
Between Stake No. 81 and Stake No. 82	3.7	"	9.4	27	51	7 65				
Between Stake No. 83 and Stake No. 84	3.9	"	9.8	28	54	8 10				
Between Stake No. 85 and Stake No. 86	3.7	"	9.4	27	56	8 40				
Between Stake No. 87 and Stake No. 88	3.9	"	9.8	28	50	7 50				
Between Stake No. 89 and Stake No. 90	3.6	"	9.2	30	49	7 35				
Between Stake No. 91 and Stake No. 92	3.2	"	8.4	25	43	6 45				
Between Stake No. 93 and Stake No. 94	4.0	"	10.0	21	51	7 65				
Between Stake No. 95 and Stake No. 96	4.0	"	10.0	24	65	9 75				
Between Stake No. 97 and Stake No. 98	4.0	"	10.0	24	65	9 75				
Between Stake No. 99 and Stake No. 100	3.8	"	9.6	22	46	6 90				
Between Stake No. 101 and Stake No. 102	3.8	2.0	9.6	17	17	2 55				

991 @ \$1.15 = \$1148.65

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 County Ditch No. 38

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 Yard		(6) Character of Other Expenses, Including Preliminary Expenses and Expense of Inspecting Works Until Completed With Total per Section	(7) Total Estimated Cost per Section	
					\$	CTS.		\$	CTS.
Between Stake No. 83 and Stake No. 84	3.8 4.1	2.0 ..	9.6	—					
Between Stake No. 85 and Stake No. 86	4.2 4.2	.. ..		85 93	12	75 95			
Between Stake No. 87 and Stake No. 88	4.3 4.3	.. ..		96 100	14	40 00			
Between Stake No. 89 and Stake No. +35	4.4 4.4	.. ..		100 41	15	00 15			
Between Stake No. +65 and Stake No. 90	6.7 4.5	.. ..		48 38	7	20 70			
Between Stake No. 91 and Stake No. 92	4.5 4.2	.. ..		100 100	15	00 00			
Between Stake No. 93 and Stake No. 94	4.4 4.2	.. ..		96 96	14	60 60			
Between Stake No. 95 and Stake No. 96	4.4 4.0	.. ..		93 93	13	95 95			
Between Stake No. 97 and Stake No. 98	4.2 4.1	.. ..		89 89	13	95 35			
Between Stake No. 99 and Stake No. 100	4.0 4.0	.. ..		85 85	12	75 75			
				1623		\$243.45			

34" of 36" Cor. I Pipe

\$95.20

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 County Ditch No. 38

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 Yard		(6) Character of Other Expenses, Including Preliminary Expenses and Expense of Inspecting Works Until Completed With Total per Section		(7) Total Estimated Cost per Section		
					\$	CTS.	\$	CTS.	\$	CTS.	
Between Stake No. 101	3.9	2.0	9.8	85	12	75					
and Stake No. 102	3.9	"	9.8	85	12	75					
Between Stake No. 103	3.9	"	9.8	85	12	75					
and Stake No. 104	4.1	"	10.2	82	13	35					
Between Stake No. 105	3.6	"	9.2	82	12	30					
and Stake No. +73	4.0	"	10.0	57	8	55					
Between Stake No. 106	3.9	"	9.8	3	22	30					
and Stake No. 107	3.7	"	9.4	11	66	90					
Between Stake No. 108	3.8	"	9.6	14	68	1020					
and Stake No. 109	3.8	"	9.6	20	58	870					
Between Stake No. 110	3.6	"	9.2	18	38	570					
and Stake No. 111	2.5	"	7.0	12	44	660					
Between Stake No. 112	3.6	"	9.2	13	62	930					
and Stake No. 113	3.6	"	9.2	13	65	975					
Between Stake No. 114	3.9	"	9.8	13	68	1020					
and Stake No. 115	3.6	"	9.2	13	58	870					
Between Stake No. 116	3.5	"	9.0	15	56	840					
and Stake No. 117	3.5	"	9.0	15	53	795					
Between Stake No. 118	3.3	"	8.6	13	52	780					
and Stake No. 119	3.3	2.0	8.6	18	47	785					
				1240	186.80						

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 County Ditch No. 38

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 Yard		(6) Character of Other Expenses, Including Preliminary Expenses and Expense of Inspecting Works Until Completed With Total per Section		(7) Total Estimated Cost per Section		
					\$	CTS.	\$	CTS.	\$	CTS.	
Between Stake No. 120 and Stake No. 121	3.3	2.0	8.6	18	@ \$15	7	05				
Between Stake No. 122 and Stake No. 123	3.4	.	8.8	20	45	6	75				
Between Stake No. 124 and Stake No. 125	3.3	.	8.6	20	46	6	90				
Between Stake No. 124 and Stake No. 125	2.4	..	6.8	20	30	4	50				
Between Stake No. 126 and Stake No. 127	3.6	..	9.2	21	34	5	10				
Between Stake No. 126 and Stake No. 127	3.7	..	9.4	22	53	7	95				
Between Stake No. 127 and Stake No. 128	3.7	..	9.4	30	48	7	20				
Between Stake No. 128 and Stake No. 129	3.9	..	9.8	49	33	4	95				
Between Stake No. 129 and Stake No. 130	3.9	..	9.8	53	32	4	80				
Between Stake No. 130 and Stake No. 131	4.0	..	10.0	58	27	4	05				
Between Stake No. 131 and Stake No. 132	3.5	..	9.0	58	20	3	00				
Between Stake No. 132 and Stake No. 133	3.8	..	9.6	53	22	3	30				
Between Stake No. 133 and Stake No. 134	3.5	..	9.0	<del>58</del>	19	2	85				
Between Stake No. 134 and Stake No. 135				500		75	00				

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..... Ditch No.....

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 Yard		(6) Character of Other Expenses, Including Preliminary Expenses and Expense of Inspecting Works Until Completed With Total per Section	(7) Total Estimated Cost per Section	
					\$	CTS.		\$	CTS.
Between Stake No. and Stake No.	<i>Totals Brought Forward</i>								
Between Stake No. and Stake No.	<i>Sheet</i>	<i>No</i>		<i>1</i>	<i>310</i>	<i>46</i>	<i>50</i>	<i>30ft of 30" Cor-I Pipe</i>	<i>51 00</i>
Between Stake No. and Stake No.	"	"		<i>2</i>	<i>422</i>	<i>63</i>	<i>30</i>	<i>34ft of 36" .. I Pipe</i>	<i>95.20</i>
Between Stake No. and Stake No.	"	"		<i>3</i>	<i>869</i>	<i>130</i>	<i>35</i>		<i>\$146 20</i>
Between Stake No. and Stake No.	"	"		<i>4</i>	<i>991</i>	<i>148</i>	<i>65</i>		
Between Stake No. and Stake No.	"	"		<i>5</i>	<i>1623</i>	<i>243</i>	<i>45</i>		
Between Stake No. and Stake No.	"	"		<i>6</i>	<i>1240</i>	<i>186</i>	<i>00</i>		
Between Stake No. and Stake No.	"	"		<i>7</i>	<i>500</i>	<i>75</i>	<i>00</i>		
Between Stake No. and Stake No.				<i>5955 cu. yds</i>	<i>\$893</i>	<i>25</i>			
Between Stake No. and Stake No.				<i>Pipe</i>	<i>146</i>	<i>20</i>			
Between Stake No. and Stake No.				<i>Total =</i>	<i>\$1039</i>	<i>45</i>			

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

Exhibit <sup>3</sup>/<sub>4</sub>, showing Time and Compensation of Engineer, Names and Compensation of Assistants and Laborers, and all other Expenses of Survey of Repairs of Ditch No. 38

ENGINEER'S TIME AND COMPENSATION			NAMES OF ASSISTANTS AND LABORERS	No. of Days Employed	Amount per Day		Total Amount		OTHER EXPENSES, NATURE AND CHARACTER OF SAME	Amounts Other than Assistants and Laborers	
Time	\$	Cts.			\$	Cts.	\$	Cts.		\$	Cts.
3 days		18 00							Bond Livery Meals Lath		# 12 25
			K. P. Caswell	4 1/2	2 50	11 25					
			Harold Blewett	4	2 00	8 00					
TOTALS,	#	18 00				#	19 25				# 12 25