

Madison County Ditch Improvement Record.

Record of

David R. Lucas,

Ditch Improvement No. 109.

London Madison County, Ohio.

March 28th A.D. 1892

To the Honorable Board of Commissioners
Madison County, Ohio

} Petitioners for locating ^{and}
deepening ^{and} widening of Ditches.

The undersigned owners of lots and land which will be drained and benefitted by the improvement here in prayer for, hereby make application to your honorable body, and now file with the Auditor of said County, this, their petition, and now and hereby pray for the location of a new ditch and the deepening and widening of certain ditches on the routes hereinafter set forth.

The necessity for the locating of a new ditch and deepening ^{and} widening old ditches, is that it will drain and reclaim the lands along the line thereof and adjacent thereto, and will promote the public health, convenience & welfare.

The following is the route and termini of said proposed improvement, to wit:

Commencing at a stake in the land of Boella Byerly in Monroe Township, Madison County, Ohio and running thence as nearly as practicable with an old ditch and in a westerly course crossing a road known as the Creamer road and through the land of J. M. Taylor, J. S. McHell, Mrs Jennie Taylor to the head of a county ditch known as the J. M. Taylor ditch, thence through the lands of G. Grevel, J. M. Taylor, Mrs Harriett Gilbert, J. M. Pimmions, W. Jones, J. Perry & James Johnson to the mouth of said J. M. Taylor ditch, thence through lands of J. M. Philips along the route of an old ditch, in an easterly course to a stake and also laterals as follows to wit: First lateral, commencing near an apple tree on the lands of F. M. Hume in Jefferson Twp. in said County and running thence in a southerly course through the lands of the said Hume, land J. Gillivan crossing the Taylor improved road, thence through the lands of A. J. Oberly and E. B. Hayes to the Lucas improved road, down the north side of said road to a stake in Mrs. Gilbert land, thence across said Lucas road, and through the lands of J. Perry, to a stake in the line of said J. M. Taylor county ditch second lateral commencing to a stake on the lands of John Byerly and at the head of a ditch heretofore located by the Trustees of Jefferson Township and running thence across said Creamer road through J. M. Taylor land and across the Taylor improved Road and through the lands of Johanna Fitzgerald, C. Creamer & Alfred Rice & down the north side of said J. M. Taylor improved road to a stake in James Gillivan land, thence across the road and through the lands of E. B. Hayes & Harriett Gilbert to a stake in the line of said Taylor County ditch and we also ask for the locations of all remaining laterals to said main ditch and to said first and second laterals

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Record of

S. R. Lucas,

Ditch Improvement No. 109.

Names of Petitioners

David R. Lucas.
Alfred F. Rice
E. Kreamer
Rosella Byerly
John W. Byerly
James Gillivan
Jacob Beers
F. M. Hume.

Names of Petitioners

David S. Fitzgerald
Johnna Fitzgerald,
Andrew J. Creely
S. P. McColluck,
Harriett E. Gilbert,
E. B. Hayes
John Penny
George Grennell,

Bond.

Know all Men by these Presents. That David R. Lucas as principal, and Alfred S. Rice and E. Kreamer as sureties, are held and firmly bound unto the State of Ohio in the penal sum of Two Hundred Dollars, good and lawful money, for which we bind ourselves, and our heirs, executors and administrators.

Signed by us and dated this Twenty eighth day of March 1892. The conditions of the above obligation is such, nevertheless, that whereas on the 4th day of April A. D. 1892, the above bounden David R. Lucas and others made application to Commissioners of Madison County, and on said day filed with the Auditor of said County he petitioned for the location of a new ditch and deepening and widening certain old ditches in pursuance of the statute in such case made and provided, on the following route and termini, to wit:

Commencing at a stake in the land of Rosella Byerly in Monroe Twp. Madison County, Ohio, and running thence as nearly as practicable with an old ditch and in a southerly direction crossing a road known as the Kreamer road and through the land of J. M. Taylor, J. D. McKell, Mrs. Jennie Taylor to the head of a County ditch known as the J. M. Taylor ditch, thence through the lands of G. Grennell, J. M. Taylor, Mrs. Harriett Gilbert, S. M. Timmons, W. Jones, J. Penny and James Johnson to the mouth of said J. M. Taylor ditch. Thence through the lands of J. N. Whitson along the route of an old ditch, in an easterly course to a stake and also laterals as follows to wit: First lateral commencing near an apple tree on the lands of F. M. Hume, in Jefferson Twp. in said County, and running thence in a southerly course through the lands of the said Hume, and J. Gillivan crossing the Taylor Druppered Road, thence through the lands of A. J. Creely and E. B. Hayes, to the Lucas Improved Road, down the north side of said road to a stake in Mrs Gilbert land, thence across said Lucas road through the lands of J. Penny, to a stake in the line of said J. M. Taylor County Ditch. Second lateral commencing at a stake

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David R. Lucas
 on the lands of John Byerly and at the head of a ditch heretofore located by the Trustees of Jeffersons Trps, and running thence across said Creamer road through J. M. Taylor land and across the Taylor Improved Road and through the lands of Johanna Fitzgerald, B. Creamer and Alfred Rice and down the north side of J. M. Taylor Improved road to a stake in James Sillivans land, thence across the road and through the lands of E. B. Kearnes and Henriett Gilbert to a stake in the line of said Taylor County Ditch, and we also ask for the location of all remaining laterals to said Main Ditch and to said fresh and second laterals.

Now if the above bounden David R. Lucas shall pay all costs, if the prayer of said petitioners be not granted, or if for any other cause the same shall be dismissed, then this obligation shall be void.

David R. Lucas.
 Alfred F. Rice.
 E. Creamer.

The above bond and the securities thereon, are approved by me this 4th day of April A.D. 1892.

W. C. Ward
 County Auditor.

Auditors Office, Madison County, Ohio
 Loudon O. April 7th A.D. 1892.

For the Matter of Ditch Improvement,
 Petitioned for by David R. Lucas & others, } Finding.

This day the Board of Commissioners of Madison County, met in Special Session. The following members present, A. W. Coofbourn A. C. Meilikin and M. S. Rea, and the Auditor of said County, having delivered to said Board a copy of the petitions filed by D. R. Lucas and others for the location of a new ditch and the deepening and widening of certain ditches filed with the Auditor of said County, on the 4th day of April A.D. 1892 on the following route and termini,

commencing at a stake in the land of Rosella Byerly in Monroe Trps, Madison County, Ohio, and running thence as nearly as practicable with an old ditch and in a southerly direction crossing a road known as the Creamer road and through the land of J. M. Taylor, J. S. McHell, Mrs. Jennie Taylor, to the head of a county ditch, known as the J. M. Taylor ditch thence through the land of E. Grewell, J. M. Taylor, Mrs. Henriett Gilbert, J. M. Timmons, W. Jones, J. Penny and

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James Johnson to the mouth of said J. M. Taylor, ditch through the lands of J. N. Wilson along the route of an old ditch in an easterly course to a stake and also laterals as follows; to wit: First lateral commencing near an apple tree on the lands of F. M. Steune in Jefferson town ship in said County and running thence in a southerly course through the lands of the said Steune and J. Gillivan crossing the Taylor improved road thence through the lands of A. J. Orley & E. B. Steunes to the Lucas improved road down the north side of said road to a stake in Mrs Gilbert land thence across said Lucas road and through the lands of J. Penny, to a stake in the line of said J. M. Taylor County ditch. Second lateral commencing at a stake on the lands of John Byerly, and at the head of a ditch heretofore located by the Trustees of Jefferson Twp, and running thence across said Lucas road through J. M. Taylor land and across the Taylor improved Road and through the lands of Johana Fitzgerald, E. Breauer & Alfred Rice and down the north side of said J. M. Taylor, improved road to a stake in James Gillivans land thence across the road and through the lands of E. B. Steunes, & Harriet Gilbert land to a stake in the line of said Taylor County ditch, and we also ask for the location of remaining laterals to said Main ditch and to said first and second laterals.

And it appearing to said Board that the said petitioners have given bond conditioned according to law, duly approved by the Auditor of said County, the Board of Commissioners taking to their assistance Elmer E. Harbey a Competent Engineer proceeded to view the lines of said proposed improvement, and determine by actual view of the premises along and adjacent thereto, whether the said improvement is necessary and will be conducive to the public health, convenience & welfare, and whether the proposed line is the best route, And on consideration whereof we do find that said improvement is necessary and that it will be conducive to the public health, convenience & welfare and that the proposed route is the best route therefor. And the said Board now here report their said findings in the premises, in writing, and order that the Auditor of said County enter the same on the journal of the Commissioners of said County.

A. W. Soffbourn }
 A. C. Mellichie } Commissioners of
 M. L. Rea. } Madison County, Mo.

W. C. Ward
 County Auditor.

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David R. Lucas.

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Auditors Office, Madison County,
London O. April 7th A.D. 1892.In the Matter of Ditch Improvement }
Petitioned for by D. R. Lucas & others } Order to the Engineer.

This day the Board of Commissioners of Madison County being in session, with the following members present, to-wit: A. W. Loofbroun, A. C. Millikin & M. L. Rea the further considerations of this matter was resumed, and the said Board of Commissioners having heretofore found that said improvement was necessary and would be conducive to the public health, convenience and welfare, and that the line thereof is on the best route. It is now here ordered that an entry be placed upon the Commissioners' Journal directing Elmer E. Hearse a competent Engineer, to go upon the line of said improvement and survey and level the same, and set a stake at every hundred feet numbering down stream, note the intersections of lines and boundaries of lands, township and County lines, land marks, bench marks, and road and railway crossings; and make a report ^{and} profile, and plat of the same, and estimate the number of cubic yards of earth or other substance to be removed, and the cost per cubic yard for each working section, and of each section of one hundred feet. It is also directed that said Engineer make and return a schedule of all the lots and lands and public and corporate roads, municipal corporations, and railroads, that will be affected by said improvement, ^{and} an apportionment of the cost of location and construction, in money to each lot ^{and} tract of land, road and railroad ^{and} municipal corporations, according to the benefits which will result to each from the said improvement, and a specification of the manner in which the improvement shall be made and completed; the number of flood gates, water ways, farm crossings and bridges necessary, including all kinds and dimensions thereof, and that the said Engineer report his proceedings at his earliest convenience.

A. W. Loofbroun }
A. C. Millikin } Commissioners of
M. L. Rea } Madison Co. Ohio.

W. C. Ward,
County Auditor,

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David R. Lucas

Ditch Improvement No. 109

Auditors Office, Madison County, Ohio,
September 21st A.S. 1892.

In the Matter of Ditch Improvement
Petitioned for by D. R. Lucas & others

Report & Schedules of Engineer.

To the Honorable, the Board of Commissioners of Madison County, Ohio.

The undersigned engineer, in obedience to the directions of your honorable Body, made on the 4th day of April A.S. 1892, has proceeded in the above matter, and has made a level and survey of said proposed ditch improvement, and set a stake at every hundred feet numbering down stream; and I have made a note of the intersections of lines and boundaries of lands, township and county lines, landmarks, bench marks, and road & rail-road crossings; and I herewith make report of the same, with profile, and plan and an estimate of the cost number of cubic yards of earth, or other substance to be removed, and the cost per cubic yard for each working section on said report indicated and of each section of one hundred feet. I have also made, and return herewith, a schedule of all the lots of lands, of public & corporate roads & railroads, together with the name of the owners of such railroad companies, & the name of the lessees operating the same, that will be benefitted by said improvement; and an apportionment of the cost of location and construction, in money, to each lot & tract of land, road & railroad, according to the benefit which will result to each from the said improvement, and a specification of the manner in which the improvement shall be made and completed; the number of flood gates, water ways, farm crossings & bridges, including kinds and dimensions thereof; and such other matters as the undersigned deems important. The said survey, level report & schedules are herewith attached and make a part thereof.

The following is an itemized cost bill, made by me, in the proper discharge of my duty under your order.

Elmer Hearsey	Engineer	30 days at \$4.00 per day	\$120.00
Peter Evans	Rodman	20 " " 1.50 "	30.00
Wm. Athey	Chairman	3 " " 1.25 "	3.75
John Cabrell	"	3 " " 1.25 "	3.75
F. M. Henne	"	3 " " 1.25 "	3.75
John Stolbert	"	3 " " 1.25 "	3.75
Wm. Evans	Stake driver	6 " " 1.25 "	7.50
Thos. Hubbard	"	2 " " 1.25 "	2.50
George Frewell	Taking bearings & making map	"	1.25
Peter Evans	Taking bearings & making map	"	15.00
J. M. Taylor	1500 stakes & setting	"	20.00

over

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David R. Lucas,
 Extra cost added by the change of Lateral 10 ^{aug 11} ~~aug 11~~ ^{aug 11} and the added lateral to Main Ditch.
 Elmer Hearsey Engineer 5 days at \$4.00 per day \$20.00
 Peppu Evans taking bearings of extra lateral & work on same \$11.75
 Wm Evans stake driver 2 days 2.50
 George Pennell chainman 1 " 1.25
 S. Fitzgerald, hand 1 " 1.25

Elmer Hearsey,
 Engineer.

Station	Surface Elevation	Grade Elevation	Total Fall	Entire Depth	Course & Distance	Remarks
B.M.	50.00					Cherry tree to left 100 ft.
0	47.74	44.00	.13	3.74	0 to 5.10 470 ft. S. 32° E.	
1	47.15	43.87	.26	3.88		
2	47.06	43.74	.32	3.82		
3	46.96	43.61	.39	3.85		
4	47.57	43.48	.53	4.09		
5	48.30	43.35	.65	4.95	5.10 to 10.490 ft. S. 14° W.	5.65 juv. Byrd & Wilson road
6	47.51	43.22	.78	4.29		Elm to left.
B.M.	48.71					
7	46.66	43.09	.91	3.57		
8	46.57	42.96	1.04	3.55		
9	46.32	42.83	1.17	3.49		
10	46.31	42.70	1.30	3.61	10 to 14.30 430 ft. S. 38° 20' W.	
11	45.92	42.57	1.43	3.35		11.25 Taylor & McCall line Elm to left.
B.M.	47.86					
12	46.11	42.44	1.56	3.67		
13	43.33	42.31	1.69	4.02		
14	46.63	42.18	1.82	4.45	14.30 to 16.170 feet S. 20° 52' E.	
14.35	46.35	42.13	1.87	4.22		
15	46.17	42.05	1.95	4.12		
16	45.84	41.92	2.08	3.92	16 to 23.27. 727 ft. S. 28° 06' E.	
17	45.54	41.79	2.21	3.75		
18	45.48	41.66	2.34	3.82		
19	45.00	41.53	2.47	3.47		
20	45.00	41.40	2.60	3.60		
21	44.92	41.27	2.73	3.65		
22	44.45	41.14	2.86	3.31		
23	44.38	41.01	2.99	3.37	23.27 to 24.25. 98 ft. S. 19° 26' E.	
23.27	44.45	40.97	3.03	3.48		
24	44.11	40.85	3.12	3.23		24.10 McCall & Maske line
24.25	43.93	40.83	3.16	3.08	24.25 to 28.05. 383 ft. S. 56° 35' W.	
25	43.42	40.70	3.25	2.67		

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Station	Surface Elev.	Grade Elev.	Total fall	Entire depth	Course & Distance	Remarks
26	43.42	40.62	338	280		
27	43.21	40.49	351	272		
28	43.57	40.36	364	315	28.08 to 34.20, 612 ft. S 31° E	
B.M.	45.73					Maple to Right
29	42.17	40.23	377	194		
30	42.23	40.10	390	213		
31	42.20	39.97	403	223		
32	42.56	39.84	416	272		
33	42.21	39.71	429	250		
34	42.29	39.58	442	271	34.20 to 38.94, 474 ft. S 34° 10' E	
35	42.15	39.45	455	270		
36	41.96	39.32	468	264		
37	41.97	39.19	481	278		
B.M.	43.74					Maple to left
38	41.71	39.06	494	265	38.94 to 47.20, 826 ft. S 18° 15' E	
39	41.76	38.93	507	283		
40	41.86	38.80	520	306		
41	41.43	38.67	533	276		
42	41.00	38.54	546	246		
43	41.21	38.41	559	280		
44	41.08	38.28	572	280		
45	41.09	38.15	585	294		
46	40.87	38.02	598	285		
47	41.06	37.89	611	317	47.20 to 50.250 ft. S. 56° E	
B.M.	44.06					Bus oak stump to R
48	41.13	37.76	624	337		
49	40.89	37.63	637	326		
50	40.69	37.50	650	319	50 to 56.50, 650 ft. S 50° 30' E	
51	40.61	37.37	663	324		
52	40.94	37.24	676	370		
53	40.62	37.11	689	367	56.50 to 58.150 ft. S 23° 50' E	
54	40.34	36.98	702	336		
55	40.42	36.85	715	357		
56	40.23	36.72	728	367		
57	39.91	36.59	741	332		
58	39.69	36.46	754	323	58 to 60.50, 250 ft. S 14° 30' W	58.78 Marke ^{and} Grenwell line
59	41.95	36.33	767	562		
60	39.14	36.20	780	284	60.50 to 67.23, 673 ft. S. 7° E	
B.M.	42.68					Maple to right.
60.50	39.20	36.13	787	307		
61	39.45	36.07	793	338		
62	39.31	35.94	806	337		
63	39.78	35.81	819	397		
64	39.43	35.68	832	375		

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Station	Surface Elev.	Grade Elev.	Total Fall	Entire Depth	Course & Distance.	Remarks.
65	39.80	38.55	8.45	3.95		
66	39.59	38.42	8.58	4.17		
667	39.64	38.29	8.71	4.35	67.23 to 70.277 ft	S. 70° 20' E.
67.50	39.13	35.22	8.78	3.91		
68	39.62	38.16	8.84	4.46		
69	39.09	38.03	8.97	4.06		
B.M.	43.44					Clear to right
70	38.65	34.90	9.10	3.75	70 to 71.100 ft	S. 39° 45' E.
71	41.23	34.77	9.23	6.46	71 to 72 100 "	S. 50° 15' E.
72	41.94	34.64	9.36	7.30	72 to 78.64, 66.4 ft	N. 86° E.
73	38.49	34.51	9.49	3.98		
74	38.87	34.38	9.63	4.49		
75	38.66	34.25	9.75	4.31		
76	38.39	34.12	9.88	4.27		
77	38.69	33.99	10.01	4.61	78.64 to 80.136 ft	S. 32° 30' E.
78	38.47	33.86	10.27	4.38		
79	38.11	33.73	10.40	4.39	80 to 83.300 ft	S. 36° 12' E.
80	37.99	33.60	10.53	4.64		80.06. Taylor & Gilbert's line
81	38.11	33.47	10.14	4.64		
82	37.95	33.34	10.66	4.61		
B.M.	41.82					Maple to left.
83	40.78	33.21	10.79	7.57	83 to 86.60, 360 ft	S. 71° 10' E.
84	37.62	33.08	10.92	4.54		
85	37.19	32.95	11.05	4.24		
86	37.63	32.82	11.18	4.81	86.60 to 88.140 ft	S. 84° E.
87	37.18	32.69	11.31	4.49		
88	37.86	32.56	11.44	5.30	88 to 89.33, 133 ft	S. 73° 52' E.
89	36.68	32.43	11.57	4.20	89.33 to 91.50, 217 "	N. 86° 12' E.
90	36.68	32.30	11.70	4.38		
91	36.65	32.17	11.83	4.48	91.50 to 96.450 ft	S. 57° E.
92	36.50	32.04	11.93	4.46		
93	36.23	31.91	12.09	4.32		
94	35.88	31.78	12.22	4.10		
95	35.82	31.65	12.35	4.17		
B.M.	38.07					Maple to right.
96	35.53	31.52	12.48	4.01	96 to 97.33, 133 ft	S. 34° 34' E.
97	35.39	31.39	12.61	4.00	97.33 to 98.50, 117 "	S. 22° 48' E.
98	35.50	31.26	12.74	4.24	98.50 to 106.750 "	S. 18° 32' N.
98.50	35.53	31.19	12.81	4.34		
99	38.37	31.13	12.87	7.24		
100	38.34	31.00	13.00	7.34		
101	37.53	30.90	13.10	6.63		
102	38.56	30.80	13.20	7.76		
B.M.	37.41					Clear to right.

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Station	Surface Eleva.	S. R. Lucas		Entire Depth	Ditch Improvement No.	Remarks
		Grade Eleva.	Total Fall			
103	37.98	30.70	13.30	7.28		
104	36.93	30.60	13.40	6.33		
105	34.70	30.50	13.50	4.20		
106	36.56	30.46	13.60	6.16	106 to 108.50. 250 ft. S. 33° 24' W.	
107	36.84	30.30	13.70	6.54		107.53 Gilbert & Timmons line.
108	36.75	30.20	13.80	6.55	108.50 to 111.250 ft. S 17° W.	
109	37.69	30.10	13.90	7.59		
110	37.31	30.00	14.00	7.31		
111	36.97	29.90	14.10	7.07	111 to 113.20. 220 ft. S. 36° 45' E.	
112	36.76	29.80	14.20	6.96		
113	34.07	29.70	14.30	4.37	113.20 to 115.70. 250 ft. S 18° W.	
114	36.30	29.60	14.40	6.70		
115	36.20	29.50	14.50	6.70	115.70 to 119.43. 373 ft. S 50° E.	
116	35.91	29.40	14.60	6.51		
117	36.13	29.30	14.70	6.83		
118	35.28	29.20	14.80	6.08		
B. M.						Clear to right
119	36.44	29.10	14.90	6.52	119.43 to 121.80. 237 ft. S 31° 45' E	
120	35.62	29.00	15.00	5.99		
121	34.99	28.90	15.10	7.11	121.80 to 123.70. 190 ft. S. 21° E	
122	36.01	28.80	15.20	6.97		
123	35.77	28.70	15.30	6.64	123.70 to 125.130 ft. S 26° E.	123.45 Timmons & Lucas pike
124	35.34	28.60	15.40	4.95		124.11 Lucas Pike & Jones line
125	33.53	28.50	16.50	6.47	125 to 127. 200 ft. S. 61° 56' E.	
126	34.97	28.40	16.60	6.84		
127	34.24	28.30	16.70	6.20	127 to 130. 300 ft. S. 74° 06' E.	
128	34.50	28.20	16.80	6.69		
129	34.89	28.10	16.90	5.82		
130	33.92	28.00	16.00	5.85	130 to 131. 100 ft. S 18° E.	
131	33.85	27.90	16.10	4.80	131 to 132. 60. 160 ft. S. 32° 40' E.	
132	32.76	27.80	16.20	6.15	132.60 to 134. 140 ft. S 61° 50' E.	
133	33.95	27.70	16.30	6.30		
134	34.00	27.60	16.40	5.67	134 to 136. 200 ft. S 73° 36' E.	
135	33.27	27.50	16.50	5.98		135.85 Jones & Penny line. Clear to left. 100 ft.
B. M.	34.91					
136	32.98	27.40	16.60	5.58	136 to 140. 400 ft. S 67° 30' E.	
137	33.95	27.30	16.70	6.65		
138	32.49	27.20	16.80	5.29		
139	30.81	27.10	16.90	3.71		
140	32.59	27.00	17.00	5.59	140 to 145. 50 ft. S 48° 32' E.	140.45 Penny & Johnson line.
140.50		26.95	17.05			

Madison County Ditch Improvement Record.

Record of	D. R. Lucas,										Ditch Improvement No. 109,		Remarks.
Station	Surface Elevat.	Grade Elevat.	Total Fall	Entire Depth	Width on Bottom	Width on Top	Curve Yards	Course	Distance				
140.50		26.37	1263		2								
141	31.63	26.30	17.70	5.33	2	1799	40	140 to 145.70	570 ft. S. 48° 33' E.				
142	31.84	26.15	17.85	5.69	2	1907	72						
143	31.74	26.00	18.00	5.74	2	1922	75						
144	32.53	25.85	18.15	6.68	2	2204	72						
145	31.57	25.70	18.30	5.87	2	1961	75	145.70 to 152.630	ft. S. 33° 0' E.				
146	30.94	25.55	18.45	5.89	2	1817	60						
147	32.18	25.40	18.60	6.78	2	2234	65						
148	31.44	25.25	18.75	6.19	2	2057	70						
149	31.57	25.10	18.90	6.47	2	2141	75						
150	32.37	24.95	19.05	7.42	2	2426	32.5	Sta. 150 to sta. 153 to follow the line of the old ditch instead of line established & stated by the Engr. The line is changed to have as much fall between sta's 150 & 153 as is given in the original specifications.					
151	32.27	24.80	19.20	7.47	3	2441	34.0						
152	30.84	24.65	19.35	6.19	2	2057	32.0						152 to 153.75
153	30.76	24.50	19.50	6.26	2	2078	18.1						
154	30.75	24.35	19.65	6.40	2	2120	75	153.75 to 157.30	355 ft. S. 78° 45' E.				
155	28.71	24.20	19.85	4.57	2	1553	85						
156	28.67	24.05	19.95	4.62	2	1586	42						
157	28.46	23.90	20.10	4.56	2	1568	55	157.30 to 165.95	865 ft. East.				
B.M.	30.51											Line to left.	
158	29.41	23.75	20.25	5.66	2	1898	120						
159	27.26	23.60	20.40	3.65	2	1295	85						
160	28.80	23.45	20.55	5.85	2	1805	100						
161	27.14	23.30	20.70	3.84	2	1352	90						
162	29.87	23.15	20.85	6.72	2	2216	135						
163	28.68	23.00	21.00	5.68	2	1904	225						
164	26.16	22.85	21.15	3.31	2	1193	115						
165	27.61	22.70	21.30	4.91	2	1673	45	165.90 to 167.110	ft. N. 74° 30' E.				
166	26.93	22.55	21.45	4.38	2	1514	115						
167	25.81	22.40	21.60	3.41	2	1223	35	167 to 168.100	ft. N. 61° 45' E.				
168	25.84	22.25	21.75	3.59	2	1277	72						
169	27.16	22.10	21.90	5.06	2	1718	119	168 to 180.30	1230 ft. N. 45° 20' E.				
B.M.	25.03											Line to left.	
170	24.74	21.95	22.05	2.79	2	1037	115						
171	25.19	21.80	22.20	3.39	2	1217	75						
172	27.70	21.65	22.35	6.05	2	2015	85						
173	24.94	21.50	22.50	3.44	2	1232	175						
174	24.99	21.35	22.65	3.64	2	1292	65						
175	24.37	21.20	22.80	3.17	2	1151	70						
176	25.88	21.05	22.95	4.83	2	1649	112						
177	23.52	20.90	23.10	2.62	2	986	110						
Back slope changes to 1 to 1	178	21.78	20.40	23.60	1.38	2	614	20					
	179	22.06	19.90	24.10	2.16	2	632	19					
	180	21.42	19.40	24.60	2.02	2	604	28	180.30 to 184.30	400 ft. N. 71° 15' E.			
B.M.	22.65											180.30 Jasper Johnson Jasper Johnson line See	

Madison County Ditch Improvement Record.

Record of

Ditch Improvement No. 109

Station	Surface Eleva.	Grade Eleva.	Total Fall	Cutting Depth	Width at Bottom	Width at Top	Culvert Yds	Course & Distance	Remarks
181	19.80	18.90	2510	.90	2	386	18		
182	20.43	18.40	25.60	2.03	.	606	13		
183	20.01	17.90	2610	2.11	.	622	29		
184	18.05	17.40	2660	.65	.	330	21	184.30 to 187.65	335 ft. N. 69° 10' E.
185	17.39	16.90	2710	.49	.	298	9		
B.M.	1900								Culvert
186	17.19	16.40	2760	.79	2	358	6		
187	18.68	15.90	2810	2.78	.	756	30	187.65 to 191.335	ft. N. 57° 40' E. Fordson Road.
188	18.20	15.40	2860	2.80	.	760	29		
189	16.11	14.90	2910	1.21	.	442	25		
190	16.50	14.40	2960	2.10	.	620	20		
191	14.83	13.90	3010	.93	.	386	10	191. to 192.100	ft. N. 73° E. Nail in Butment of Bridge
B.M.	16.98								
192	14.85	13.40	3060	1.45	2	490	4		
<u>Lat. No. 1. to Lucas Meau Ditch</u>									
0	49.00	46.00		300				0 to 7, 700	ft. N. 84° 15' E.
B.M.	49.84								Run out to Right
1	48.91	45.67	33	324					
2	48.86	45.34	66	352					
3	48.63	45.01	99	380					
4	48.50	44.68	132	382					
5	48.65	44.35	165	430					
6	48.68	44.02	198	466					
7	46.96	43.69	231	327					
<u>Lat. No. 2</u>									
0	49.06	45.50		352				0 to 3, 300	ft. S 56° W.
1	48.85	45.30	20	355					
2	48.67	45.10	40	357					
3	48.70	44.90	60	380				3 to 9, 600	ft. S 28° W.
4	48.91	44.70	80	421					
5	48.48	44.50	100	398					
6	48.50	44.30	120	420					
7	48.57	44.10	140	447					
8	48.87	43.90	160	497					
9	48.30	43.70	180	460					
<u>Lat. 1 to No. 2</u>									
0	49.00	46.00		300				0 to 3, 300	ft. S 88° W.
1	48.53	45.67	33	286					
2	48.69	45.34	66	335					
3	48.91	45.01	99	390					

Madison County Ditch Improvement Record.

Record of

J. R. Lucas

Ditch Improvement No. 109

Station	Surface Elev.	Grade Elev.	Total Fall	Entire Depth	Course and Distance	Remarks
<u>Lat. 2 to No. 2</u>						
0	48.84	45.80		314	to 2, 200 ft. S 54° 30' E.	
1	48.66	45.55	25	311		
2	48.76	45.30	50	346	to 4, 200 ft. S 38° east	
3	48.56	45.05	75	357		
4	48.48	44.80	100	368		
<u>Lat. 3 to No. 2</u>						
0	48.45	46.00		345	to 3, 300 ft. N. 44° W.	0+40, Wilson road ^{and} Byely line.
1	48.44	45.50	50	394		
2	48.55	45.00	1.00	355		
3	48.50	44.50	1.50	400		
<u>Lat. No. 3 to Lucas Main Ditch</u>						
0	48.17	44.15		402	to 5, 500 ft. S 25° E.	0.43 Byely ^{and} Wilson road
1	48.16	43.83	33	434		0.95 Wilson road ^{and} McHells,
2	48.17	43.49	66	468		
3	47.52	43.16	99	436		
4	47.45	42.83	132	462		
5	46.36	42.50	165	385		
<u>Lat. No. 4 to Lucas Main Ditch</u>						
0	47.99	44.50		349	to 5, 500 ft. S. 63° E.	
1	47.70	44.30	20	340		
B.M.	48.55					Stone to left
2	47.50	44.10	40	340		
3	47.09	43.90	60	319		
4	47.02	43.70	80	333		
5	46.80	43.50	100	330	to 11, 600 ft. S. 38° 15' W.	
6	46.47	43.30	120	317		
7	46.59	43.10	140	348		
8	46.63	42.90	160	373		
9	46.46	42.70	180	376		
10	46.39	42.50	200	389		
11	46.50	42.30	220	450	to 16, 400 ft. S 24° 30' W.	
B.M.	46.63					Oak tree to right
12	44.73	42.10	240	283		
13	44.89	41.90	260	309		
14	44.95	41.70	280	325		
15	44.45	41.50	300	295		
<u>Lat. No. 5 to Lucas Main Ditch</u>						
0	45.37	42.85		252	to 11.50, 1150 ft. S 76° W.	
1	44.52	42.75	10	177		
2	44.38	42.65	20	173		
3	44.31	42.45	30	176		
4	44.27	42.45	40	183		
5	44.33	42.85	50			

Madison County Ditch Improvement Record.

Record of

Ditch Improvement No. 108

Station	Surface Elev.	Grade Elev.	Total Fall	Entire Depth	Course & Distance	Remarks
6	44.33	42.25	.60	2.08		
7	44.35	42.15	.70	2.20		
8	44.14	42.05	.80	2.09		
9	44.01	41.95	.90	2.06		
10	43.96	41.85	1.00	2.11		
11	44.12	41.75	1.10	2.37		11 Taylor ^{and} McKells line.
11.50	46.18	41.70	1.15	4.48	11.50 to 13. 100 ft. S 29° E.	
12	46.44	41.65	1.20	3.79		
13	46.22	41.55	1.30	4.67	13 to 16. 300 . S 56° 35' W,	
13.50	46.85	41.50	1.35	4.35		
14	43.88	41.45	1.40	2.43		
15	43.88	41.35	1.50	2.53		
16	43.83	41.25	1.60	2.68		
<u>Lat. No. 6 to Lucas Main ditch.</u>						
0	44.30	40.80		3.50	0 to 6. 600 ft. S. 62° 40' E	
1	43.46	40.40	.40	3.06		
2	44.28	40.00	.80	4.28		
3	44.65	39.60	1.20	5.05		
4	44.69	39.20	1.60	5.49		
5	43.80	38.80	2.00	5.00		
6	42.60	38.40	2.40	4.20	6 to 11. 500 ft. S 82° 50' E,	
7	41.56	38.00	2.80	3.56		
8	41.53	37.60	3.20	3.93		
9	40.53	37.20	3.60	3.33		9.10 Maske & Surr's line
10	41.63	37.00	3.80	4.63		10.30 Surr's ^{and} Grenell's line.
11	41.53	36.80	4.00	4.73	11 to 14. 300 ft. S 70° 36' E,	
12	41.46	36.60	4.20	4.86		
13	41.19	36.40	4.40	4.79		
14	39.78	36.20	4.60	3.58		
<u>Lat. 1 to No. 6 to Lucas Main Ditch.</u>						
0	43.25	39.00		4.25	0 to 8. 800 ft. N. 35° 45' E,	
1	42.65	38.75	.25	3.90		
2	42.20	38.50	.50	3.70		
3	41.80	38.25	.75	3.55		
4	41.45	38.00	1.00	3.45		
5	41.44	37.75	1.25	3.69		
6	41.52	37.50	1.50	4.03		
7	42.22	37.25	1.75	4.97		7.10 Surr's ^{and} Grenell's line.
8	41.53	37.00	2.00	4.53		
<u>Prong to 1 to 406</u>						
0	41.82	39.00		2.82	0 to 3. 300 ft. N. 40° 8' W,	
1	41.83	38.75	.25	3.06		
2	41.74	38.50	.50	3.24		
3	41.45	38.25	.75	3.20		

Madison County Ditch Improvement Record.

Record of	D. R. Lucas				Ditch Improvement No. 109		Remarks
Station	Surface Elev.	Grade Elev.	Total Fall	Entire Depth	Course and Distance		
	Lat.	No. 7.					
0	40.48	37.00		3.48	0 to 8. 800 feet N. 31° E.	0.86. Previous ^{and} Grenell's line	
1	41.27	36.75	.25	4.52		1.30 Grenell & Taylor's line.	
2	41.21	36.50	.50	4.71			
3	40.22	36.25	.75	3.97			
4	40.28	36.00	1.00	4.28			
5	40.63	35.75	1.25	4.88			
6	41.37	35.50	1.50	5.87			
7	41.62	35.25	1.75	6.37			
8	38.56	35.00	2.00	3.56			
	Lat 1. to No. 9.						
0	42.21	38.25		3.96	0 to 4.35. 435 ft S 46° W.		
1	41.24	38.00	.25	3.24			
2	42.64	37.75	.50	4.89			
3	42.11	37.50	.75	4.61			
4	41.97	37.25	1.00	4.72	4.35 to 6. 165 ft S. 13° 13' E.		
5	42.16	37.00	1.25	5.16			
6	42.02	36.75	1.50	5.27	6 to 9. 300 ft. S 28° 24' E.		
7	41.95	36.50	1.75	5.45			
8	41.99	36.25	2.00	5.74			
9	41.90	36.00	2.25	5.90		6.10. Taylor ^{and} Gilbert's line	
	Lat No. 8 to Lucas Main Ditch.						
B. 101.	47.13					Run oak same as on Lat 10.	
0	45.69	42.30	.18	3.89	0 to 18.28. 1838 ft. S 16° 30' E.	Opposite Station 15.35	
1	45.41	42.12	.36	3.29			
2	45.30	41.94	.36	3.36			
3	45.24	41.76	.54	3.48			
4	45.20	41.58	.72	3.62			
5	45.38	41.40	.90	3.98			
6	45.57	41.22	1.08	4.35			
7	45.52	41.04	1.26	4.48			
8	45.60	40.86	1.44	4.74			
9	45.05	40.68	1.62	4.37			
10	44.92	40.50	1.80	4.42			
11	44.79	40.32	1.98	4.47			
12	45.23	40.14	2.16	5.09			
13	44.64	39.96	2.34	4.68			
14	44.14	39.78	2.52	4.36			
15	43.70	39.60	2.70	4.10			
16	43.04	39.42	2.88	3.62			
17	43.08	39.24	3.06	3.84			
18	42.77	39.06	3.24	3.71	1838 to 33.73. 15.35 ft. S 20° 51' W.		
19	41.51	38.88	3.42	2.63			
20	41.39	38.70	3.60	2.69			

Madison County Ditch Improvement Record.

Record of

J. R. Lucas

Ditch Improvement No.

Station	Surface Elev.	Grade Elev.	Total Fall	Cut & Depth	Course & Distance	Remarks
21	41.17	38.53	378	265		
22	41.39	38.34	396	305		
23	41.06	38.16	414	290		
24	41.06	37.98	432	308		
25	40.89	37.80	450	309		
26	40.69	37.62	468	307		
B.M.	43.43					Burn oak tree to left
27	40.68	37.44	486	324		
28	40.55	37.26	504	329		
29	40.24	37.08	522	316		
30	40.09	36.90	540	319		
31	40.13	36.72	558	341		
32	40.24	36.54	576	370		
33	40.28	36.36	594	392	33.73 to 37.48. 375 ft S 21° 5' E.	
34	40.02	36.18	612	384		
35	40.18	36.00	630	418		
36	40.34	35.82	648	452		
37	40.14	35.64	666	650	37.48 to 41.352 ft. South.	
38	40.23	35.46	684	676		
39	39.95	35.28	702	467		
40	39.89	35.10	720	479		
41	41.57	34.92	738	665	41 to 45. 400 ft. S 2° N.	
42	40.83	34.74	756	808		
43	38.91	34.56	774	435		
44	38.90	34.38	792	452		
45	38.11	34.20	810	391		
	Lat. No. 9.				to Lucas Main ditch.	
0	40.81	38.00		2,81	0 to 5.33. 533 ft. S 40° 10' E.	
1	41.14	37.88	12	326		
2	40.98	37.76	24	322		
3	40.76	37.64	36	312		
4	40.98	37.52	48	346		
5	41.53	37.40	60	413	5.33 to 7.75. 242 ft. S 14° N.	
6	41.86	37.28	72	458		
7	41.57	37.16	84	441	7.75 to 11.35. 360 ft. S 26° 54' N.	
8	41.55	37.04	96	451		
9	41.87	36.92	108	495		
10	41.72	36.80	120	492		
11	41.56	36.68	132	488	11.35 to 18.45. 710 ft. S. 36° N.	11.35 Pay for 1/2 decayed land.
12	41.79	36.56	144	523		
13	41.41	36.44	156	497		
14	41.11	36.32	168	479		
15	40.98	36.20	180	478		

Madison County Ditch Improvement Record.

Record of	S. R. Lucas				Ditch Improvement No. 109		Remarks
Station	Surface Elev.	Grade Elev.	Total Fall	Entire Depth	Course & Distances.		
16	40.95	36.08	1.92	4.87			
17	41.85	36.96	2.04	5.99		17.04 Haynes & Gilbert line	
18	41.16	35.84	2.16	5.32	18.45 to 21.38 .293 ft. S 19° 57' W.		
19	41.90	35.72	2.28	6.18			
20	41.25	35.35	2.45	5.90			
21	40.30	34.98	3.02	5.32	21.38 to 24.53 .315 ft. S 40° 10' E.		
22	39.27	34.61	3.39	4.66			
23	38.87	34.24	3.76	4.63			
24	38.02	33.87	4.13	4.15	24.53 to 27.24 ft. S 14° E.		
25	38.42	33.50	4.50	4.92			
26	38.50	33.13	4.87	5.37			
27	36.50	32.76	5.24	3.74			
<u>Lat 2 to Sta 10.</u>							
0	43.59	41.00		2.59	0 to 1.00 ft. S. 39° 30' E.		
1	42.73	40.70	.30	2.03		1.80 Taylor Pike & Saily line	
2	42.98	40.40	.60	2.58	1 to 8.700 ft. N. 56° 50' E.		
3	42.88	40.10	.90	2.98			
4	42.57	39.80	1.20	2.77			
5	42.82	39.50	1.50	3.32			
6	43.10	39.20	1.80	3.90			
7	42.64	38.90	2.10	3.74			
8	41.72	38.60	2.40	3.12			
<u>Lat 3 to 10.</u>							
0	45.00	41.00		4.00	0 to 7.60 .760 ft. S 15° E.	0.73 Burrell & Saily line	
1	44.59	40.89	.11	3.70			
2	43.81	40.78	.23	3.03			
3	43.50	40.67	.33	2.83			
4	43.52	40.56	.44	2.96			
5	43.05	40.45	.55	2.60			
6	43.00	40.34	.66	2.66			
7	42.78	40.23	.77	2.55	7.60 to 13.50 .590 ft. S. 43° 20' E.		
8	42.61	40.12	.88	2.49			
9	42.21	40.01	.99	2.20			
10	42.14	39.90	1.10	2.24			
11	42.00	39.79	1.21	2.21			
12	42.07	39.68	1.32	2.39			
13	41.92	39.57	1.43	2.35	13.50 to 16.250 ft. S 16° 06' E.		
14	43.66	39.46	1.54	4.20			
15	43.16	39.35	1.65	3.81			
16	43.47	39.24	1.76	4.23	16 to 19.300 ft. S 9° 06' E.		
17	43.22	39.13	1.87	4.09			
18	43.36	39.02	1.98	4.34			
19	43.82	38.91	2.09	4.91	19 to 24.500 ft. S 55° 58' W.		
20	41.64	38.80	2.20	2.84			

Madison County Ditch Improvement Record.

Record of

D. H. Lucas,

Ditch Improvement No. 109.

Station	Subjce Eleva.	Grade Eleva	Total Fall	Entire Depth	Course and Distance	Remarks
21	41.62	38.69	2.31	2.93		
22	41.72	38.58	2.42	3.14		
23	41.68	38.47	2.53	3.21		
24	41.69	38.36	2.64	3.33		
<i>Sub. 4 to No 10 to Lucas Main ditch</i>						
0	39.84	37.40		2.44	0 to 13. 1300 ft. S. 39° E	
1	39.72	37.25	.15	2.47		
2	39.72	37.10	.30	2.62		
3	39.63	36.95	.45	2.68		
4	39.65	36.80	.60	2.85		
5	39.34	36.65	.75	2.69		
6	39.30	36.50	.90	2.80		
7	39.62	36.35	1.05	3.27		
8	39.16	36.20	1.20	2.96		
9	39.24	36.05	1.35	3.19		
10	39.45	35.90	1.50	3.55		
11	38.97	35.75	1.65	3.23		
12	39.18	35.60	1.80	3.58		
13	38.92	35.45	1.95	3.47		
<i>Sub. 5 to No 10 to Lucas Main Ditch.</i>						
0	39.98	37.17		2.81	0 to 14. 23 1423 ft. S 52° W.	
1	39.77	37.05	.12	2.72		
2	39.74	36.93	.24	2.81		
3	39.76	36.81	.36	2.85		
4	40.10	36.69	.48	3.41		
5	39.51	36.57	.66	2.84		
6	39.76	36.45	.72	3.31		
7	39.29	36.33	.84	2.96		
8	39.23	36.21	.96	3.02		
9	39.36	36.09	1.08	3.27		
10	39.21	35.97	1.20	3.24		
11	39.22	35.85	1.32	3.37		
12	39.25	35.73	1.44	3.52		
13	39.24	35.61	1.56	3.63		
14	39.34	35.49	1.68	3.85	1423 to 21. 677 ft. S 23° 30' W.	
15	39.10	35.37	1.80	3.73		
16	39.21	35.25	1.92	3.86		
17	39.13	35.13	2.04	4.00		17.37 Lucas & Gillman's Line.
18	38.89	35.01	2.16	3.88		
19	38.78	34.89	2.28	3.89		
20	38.81	34.77	2.40	4.04		
21	38.52	34.65	2.52	3.87		

Madison County Ditch Improvement Record.

Record of	S. R. Lucas				Ditch Improvement No. 109		Remarks
Station	Surface Eleva.	Grade Eleva.	Total Fall	Entire Depth	Course & Distance		
	Lat.	10 to Lucas	Lucas	Main Ditch as Changed			
8	47.58	44.41		3.17		8+10 Burrell & Dailys line	
9	47.42	44.14	.27	3.28			
10	47.29	43.87	.54	3.42			
11	47.38	43.60	.81	3.78			
12	47.18	43.33	1.08	3.85			
13	46.98	43.06	1.35	3.92			
14	46.89	42.79	1.62	4.10			
15	46.86	42.52	1.89	4.34			
16	46.35	42.25	2.16	4.10			
B.M.	47.11					Buroak to Right.	
17	46.04	41.98	2.43	4.06			
18	45.86	41.71	2.70	4.15			
19	45.75	41.44	2.97	4.31			
20	45.47	41.17	3.24	4.30			
21	45.46	40.90	3.51	4.56			
22	45.50	40.63	3.78	4.87			
23	43.59	40.36	4.05	3.23	23 to 28. 1500 ft. S. 38° E.		
24	43.19	40.90	4.32	3.10			
25	42.96	39.82	4.59	3.08			
26	42.63	39.55	4.86	3.08			
27	42.47	39.28	5.13	3.19			
28	42.50	39.01	5.40	3.49			
29	42.05	38.74	5.67	3.31			
30	41.98	38.47	5.94	3.51			
31	41.72	38.20	6.21	3.52			
32	41.68	38.10	6.31	3.58			
33	41.69	38.00	6.41	3.69			
34	41.64	37.90	6.51	3.74			
35	41.53	37.80	6.61	3.73		35.34 Dailys & Kreamer line	
36	41.87	37.70	6.71	4.17		Clear to left.	
B.M.	44.43						
37	41.44	37.60	6.81	3.84			
38	41.43	37.50	6.91	3.93	38 to 46. 800 ft. S. 73° E.		
39	42.50	37.40	7.01	5.10			
40	42.45	37.30	7.11	5.15			
41	42.35	37.20	7.21	5.15			
42	42.40	37.10	7.31	5.30			
43	42.69	37.00	7.41	5.69		43.57 Kreamer & Rice line.	
44	42.21	36.90	7.51	5.31			
45	42.15	36.80	7.61	5.35			
46	41.11	36.70	7.71	4.41	46 to 52. 600 ft. S. 46° 04' E.		
47	40.37	36.60	7.81	3.77			
48	40.30	36.50	7.91	3.80			

Madison County Ditch Improvement Record.

Record of

J. H. Lucas

Ditch Improvement No. 109.

Station	Surface Elev.	Grady Elev.	Total Fall	Entire Depth	Course and Distance	Remarks
49	40.08	36.40	8.01	3.68		
50	39.90	36.30	8.11	3.60		
51	39.82	36.20	8.21	3.62		51.71 Rice & Lucas line
52	41.85	36.10	8.31	5.76	52 to 54 200 ft. S. 16° 55' E	
53	41.72	36.00	8.41	5.72		
54	41.66	35.90	8.51	5.76	54 to 68, 1400 ft. S. 7° 08' W.	
55	41.48	35.80	8.61	5.68		
56	41.65	35.70	8.71	5.95		
57	41.58	35.60	8.81	5.98		
B.M.	42.27					Maple to right.
58	41.88	35.50	8.91	6.38		
59	42.43	35.40	9.01	7.03		
60	41.79	35.30	9.11	6.49		
61	41.75	35.20	9.21	6.55		
62	40.87	35.10	9.31	5.87		
63	41.13	35.00	9.41	6.13		
64	41.28	34.90	9.51	6.38		
65	41.29	34.80	9.61	6.49		
66	41.59	34.70	9.71	6.89		
67	41.67	34.60	9.81	7.07		67.80 Lucas & Taylor Pks.
68	38.92	34.50	9.91	4.42	68 to 70.45, 245 ft. S 39° E.	
69	39.05	34.40	10.10	4.65		
B.M.	41.17					Elm to Right.
70	38.88	34.30	10.11	4.68	70.45 to 72.30 185 ft. S 44° 10' E	
71	38.96	34.20	10.21	4.76		
72	38.79	34.10	10.31	4.69	72.30 to 73 - 70 ft. S 29° 32' W.	
73	38.52	34.00	10.34	4.45		
74	38.66	33.90	10.41	4.45		
75	38.57	33.80	10.41	4.66	73 to 79.75, 675 ft. S 18° 10' W.	
76	38.44	33.70	10.41	4.66		
77	38.29	33.60	10.81	4.87		
78	38.47	33.50	10.91	4.76		
79	38.26	33.40	11.01	5.04	79.75 to 81.30, 155 ft. S 9° 26' W.	
80	38.44	33.30	11.11	5.42		
81	38.72	33.20	11.21	5.31	81.30 to 83, 170 ft. S 4° E.	
82	38.57	33.10	11.31	5.03		
83	38.13	33.00	11.41	5.12	83 to 88.78, 278 ft. S 11° W.	
84	37.89	32.90	11.51	4.99		
85	37.80	32.80	11.61	5.00	88.78 to 89.54, 176 ft. S 0° 10' W.	
86	37.53	32.70	11.71	4.83		
87	37.52	32.60	11.81	4.92	89.54 to 89.82, 228 ft. S 19° 45' W.	
88	37.41	32.50	11.91	4.91		
89	37.38	32.40	12.01	4.98	89.82 to 93.40, 358 ft. S 42° 30' W.	

Madison County Ditch Improvement Record.

Record of

D. R. Lucas

Ditch Improvement No. 109

Station	Surface Elevat.	Grade Elevat.	Total fall	cut in depth	Course & Distance	Remarks
90	36.96	32.30	12.71	4.66		
91	36.95	32.20	12.21	4.75		91.95 Haynes & Gilbert line
92	36.50	32.10	12.31	4.40		
93	36.22	32.00	12.40	4.22	93.40 to 94.65, 125 ft. S. 68° 12' W.	
94	36.32	31.90	12.51	4.42		
95	36.36	31.80	12.61	4.56	94.65 to 97, 235 ft. S. 29° 04' W.	
96	35.85	31.70	12.71	4.15		
97	35.61	31.60	12.81	4.01	97 to 98, 100 ft. S 78° E,	
98	35.53	31.50	12.91	4.03		
<u>Lateral "A" to No 10 to Lucas Main Ditch.</u>						
0	48.97	45.93		3.54		0.7 Byrdly & Wilson road
1	48.11	45.21	.22	2.90		0.68 Wilson Road & Taylor line
2	47.47	44.99	.44	2.48		
3	47.71	44.77	.66	2.94		
4	47.66	44.55	.88	3.11		
5	47.89	44.33	1.10	3.56		
6	47.56	44.11	1.32	3.45		6 Taylor line & Taylor Pike
7	46.79	43.89	1.54	2.90		7.14 Taylor Pike & Saily line
8	47.66	43.67	1.76	3.99		
9	47.72	43.45	1.98	4.27		
10	47.09	43.23	2.20	3.86		
11	46.96	43.01	2.42	3.95		
12	46.89	42.79	2.64	4.10		
<u>Lateral "B" to No 10 to Lucas Main Ditch.</u>						
0	45.25	42.54		2.71		
1	44.49	42.32	.22	2.17		
2	44.31	42.10	.44	2.21		
3	44.02	41.88	.66	2.14		
4	43.61	41.66	.88	1.95		
5	43.25	41.44	1.10	1.81		
6	43.51	41.22	1.32	2.29		
7	45.59	41.00	1.54	4.59		
<u>Lateral "C" to No 10 to Lucas Main Ditch.</u>						
0	41.94	43.20	20	3.74		
1	46.89	43.00	20	3.89		
2	46.74	42.80	40	3.94		
3	46.44	42.60	60	3.84		
4	46.21	42.40	80	3.81		
5	46.05	42.20	100	3.85		
6	45.82	42.00	120	3.82		
7	45.70	41.80	140	3.90		
8	45.55	41.60	160	3.95		
9	45.49	41.40	180	4.09		

Madison County Ditch Improvement Record.

Record of

S. R. Lucas

Ditch Improvement No. 109

Station	Surface Elev.	Grade Elev.	Total Fall	Entire Depth	Course & Distance	Remarks
10	45.21	41.20	2.00	4.01		
11	45.09	41.00	2.20	4.09		
12	45.08	40.80	2.40	4.28		
13	44.78	40.60	2.60	4.18		
14	44.57	40.40	2.80	4.10		
15	44.46	40.20	3.00	4.26		
16	44.25	40.00	3.20	4.25		
17	44.11	39.80	3.40	4.31		
18	43.88	39.60	3.60	4.28		
19	44.04	39.40	3.80	4.64		
20	43.88	39.20	4.00	4.68		
21	43.66	39.00	4.20	4.66		
22	43.18	38.80	4.40	4.38		
23	43.29	38.60	4.40	4.69		
24	41.68	38.40	4.80	3.28		
<i>Laterals 1^h to Lucas Main Ditch.</i>						
0	45.50	41.00		4.50	<i>0 to 4.65 4.65 ft. N. 80° E.</i>	
1	45.19	40.88	1.20	4.31		
2	44.82	40.76	2.4	4.06		
3	44.50	40.64	3.6	3.86		
4	44.45	40.52	4.8	3.93	<i>4.65 to 11.635 ft. S. 78° E.</i>	<i>4.55 Sums of Widths & Elev. to Right.</i>
B. M.	45.52					
5	44.43	40.40	6.0	4.03		
6	44.39	40.28	7.2	4.11		
7	44.17	40.16	8.4	4.01		
8	44.84	40.04	9.6	4.80		
9	44.33	39.92	10.8	4.41		
10	44.12	39.80	12.0	4.32		
11	43.86	39.68	13.2	4.18		
12	43.86	39.56	14.4	4.30		
13	43.66	39.44	15.6	4.22		
14	43.36	39.32	16.8	4.04		
15	43.43	39.20	18.0	4.23		
16	43.17	39.08	1.92	4.09		
17	42.80	38.96	2.04	3.84		
18	42.59	38.84	2.16	3.76		
19	42.51	38.64	2.36	4.27		
20	42.76	38.44	2.56	4.32		
21	42.87	38.24	2.76	4.63		
22	42.75	38.04	2.96	4.71		
23	42.82	37.84	3.16	4.98		
24	42.61	37.64	3.36	4.97		
25	42.68	37.44	3.56	5.24		

Madison County Ditch Improvement Record.

Record of

D. R. Lucas,

Ditch Improvement No. 109

Station	Surface Elevation	Grade Elevation	Total Fall	Entire Depth	Course and Distance	Remarks
26	42.32	37.24	3.76	5.08		
27	42.04	37.04	3.96	5.00		
28	42.00	36.84	4.16	5.16		
29	41.74	36.64	4.36	5.10		
30	41.71	36.44	4.56	5.27		
31	41.33	36.24	4.76	5.09		
32	41.30	36.04	4.96	5.26		
33	40.74	35.84	5.16	4.90		
34	40.36	35.64	5.36	4.72		
35	40.14	35.44	5.56	4.70		
B.M.	41.52					Stave to right 25 ft.
36	40.57	35.24	5.76	5.33		
37	40.48	35.04	5.96	5.44		
38	40.49	34.84	6.16	5.65		
39	40.34	34.64	6.36	5.70		
40	39.84	34.44	6.56	5.40		
41	40.10	34.24	6.76	5.86		
42	39.35	34.04	6.96	5.31		
43	40.06	33.84	7.16	6.22		
44	39.85	33.64	7.36	6.21		
45	39.61	33.44	7.56	6.17		
46	39.34	33.24	7.76	6.10		46.85 Miller and Lucas pike
47	37.64	33.04	7.96	4.60		47.55 Lucas Pike and Jones line
48	38.52	32.84	8.16	5.68		
49	37.10	32.64	8.36	4.46		
50	36.86	32.44	8.56	4.42		
B.M.	37.62		8.76	5.43		Bur-oak to left
51	37.67	32.24	8.96	4.87		
52	36.91	32.04	9.16	4.40		
53	36.24	31.84	9.36	3.48		
54	35.13	31.64	9.56	3.49		
55	35.09	31.44	9.56	3.65		
56	35.40	31.24	9.76	4.16		
57	34.93	31.04	9.96	3.89		
58	34.42	30.84	10.16	3.58		
59	34.37	30.64	10.36	3.73		
60	34.03	30.44	10.56	3.59		
61	33.58	30.24	10.76	3.31		
62	33.57	30.04	10.96	3.53		
63	33.46	29.84	11.16	3.62		
64	33.07	29.64	11.36	3.43		
65	32.93	29.44	11.56	3.49		
66	32.51	29.24	11.96	3.27		

Madison County Ditch Improvement Record.

Record of

D. R. Lucas

Ditch Improvement No. 109

Station	Surface Elev.	Grade Elev.	Total Fall	Entire Depth	Course & Distance	Remarks
67	32.47	32.04	11.96	3.40		
68	32.21	28.84	12.16	3.37		
69	31.50	28.64	12.36	2.86		
<i>Lateral G or Grewell Lateral to Lucas Main Ditch</i>						
0	36.80	32.70		4.10		
1	37.41	32.46	.30	5.01		1.96 Grewell & Peunons line
2	36.28	32.10	.60	4.18		
3	36.57	31.80	.90	4.77		
4	36.10	31.50	1.20	4.60		
5	35.57	31.20	1.50	4.37		
6	36.05	30.90	1.80	5.15		
7	32.92	30.60	2.10	2.32		
<i>Lateral No 12 to Lucas Ditch</i>						
0	43.42	39.10		4.32	0 to 8.90, 590 ft. S 40° W.	0 Peunons & Haines line
1	42.35	38.95	.15	3.40		
2	41.79	38.80	.30	2.95		
3	41.66	38.65	.45	3.01		
4	41.78	38.50	.60	3.28		
5	41.51	38.35	.75	3.16		
6	41.67	38.20	.90	3.47		
7	41.55	38.05	1.05	3.50		
8	41.48	37.90	1.20	3.58	8.90 to 14.50, 560 ft. S 14° W.	
9	41.64	37.75	1.35	3.89		
10	41.31	37.60	1.50	3.71		
11	41.66	37.45	1.65	4.21		
12	41.80	37.30	1.80	4.50		
13	41.74	37.15	1.95	4.59		
14	41.88	37.00	2.10	4.88	14.50 to 26.23, 1173 ft. S 50° 20' W.	
15	41.69	36.85	2.25	4.80		
16	41.74	36.70	2.40	5.04		
17	40.88	36.65	2.55	4.33		
18	41.24	36.40	2.70	4.84		
19	41.56	36.25	2.85	5.31		
20	41.72	36.10	3.00	5.61		
21	41.26	35.95	3.15	5.31		
22	41.46	35.80	3.30	5.66		
23	40.85	35.65	3.45	5.30		
24	41.19	35.50	3.60	5.69		
B.M.	42.07					Maple to left.
25	41.18	35.35	3.75	5.83		
26	41.12	35.20	3.90	5.92	26.23 to 42.58, 1635 ft. S 42° 20' W.	2646 Taylor Pike & Greely's line.
26.29	40.38	35.16	3.94	5.22		
27	40.69	35.05	4.05	5.64		27.96 Greely & Haines line

Madison County Ditch Improvement Record.

Record of	D. R. Lucas				Ditch Improvement No. 109		Remarks
Station	Surface Elev.	Grade Elev.	Total Fall	Entire Depth	Course and Distance		
28	40.64	34.90	4.20	5.74			
29	40.60	34.75	4.35	5.85			
30	40.28	34.60	4.50	5.68			
31	40.59	34.45	4.65	6.14			
32	40.46	34.30	4.80	6.16			
33	40.68	34.15	4.95	6.53			
34	40.60	34.00	5.70	6.60			
35	40.54	33.85	5.25	6.69			
36	39.54	33.70	5.40	5.84			
37	40.86	33.55	5.55	7.31			
38	41.29	33.40	5.70	7.89			
39	41.50	33.25	5.85	8.25			
40	39.79	33.10	6.00	6.69			
41	39.80	32.95	6.15	6.85			
42	39.39	32.80	6.30	6.59	42.58 to 50.50. 792 ft. S 11° 20' W.	42.96 Haynes & M. Collins line	
43	38.71	32.65	6.45	6.06			
44	38.96	32.50	6.60	6.46			
45	38.65	32.35	6.75	6.30			
46	38.49	32.20	6.80	6.25			
47	38.20	32.05	7.05	6.15			
48	37.99	31.90	7.20	6.09		48 M. Collins & Gilberts line	
49	37.77	31.75	7.35	6.02			
50	36.85	31.60	7.50	5.25			
50.50	36.57	31.52	7.58	4.99	50.50 to 52.150 ft. S 27° 45' E.		
51	35.88	31.45	7.65	4.43		51.92 Gilbert & Lucas pike	
52	34.64	31.30	7.80	3.34	52 to 56.400 ft. S 29° 30' E.	52.52 Pike & Peary line	
B. M.	36.28					Elev. to right 75 ft.	
53	35.48	31.15	7.95	4.33			
54	35.22	31.00	8.10	4.22			
55	35.25	30.85	8.25	4.40			
56	35.07	30.70	8.40	4.37			
57	34.91	30.55	8.55	4.36			
58	34.44	30.40	8.70	4.04			
59	34.25	30.25	8.85	4.00			
60	33.93	30.10	9.00	3.83			
61	34.67	29.95	9.15	4.72	61 to 6220. 126 ft. S 15° 15' W.		
61.50	33.76	29.87	9.23	3.89			
62	33.60	29.80	9.30	3.80	62.26 to 68.30. 604 ft. S 16° E.		
63	34.09	29.65	9.45	4.44			
64	34.30	29.50	9.60	4.80			
B. M.	34.45					Bottom wood. tree to R. 25 ft.	
65	34.33	29.35	9.75	4.98			
66	33.98	29.20	9.90	4.78			

Madison County Ditch Improvement Record.

Record of

Stations	D. R. Lucas				Ditch Improvement No.	Course and Distance.	Remarks.
	Surface Elev.	Grade Elev.	Total Fall	Entire Depth			
67	34.20	28.05	10.05	5.15			
68	34.15	28.90	10.20	5.25	6836 to 74	570 ft. S 40° 30' E.	
69	33.46	28.75	10.35	4.71			
70	33.43	28.66	10.50	4.83			
71	33.68	28.45	10.65	5.23			
72	32.95	28.30	10.80	4.55			
73	31.10	28.15	10.95	2.95			
74	32.59	28.00	11.10	4.59			
<u>Lat. 1 to No 12 to Lucas Main Ditch</u>							
0	41.93	38.60		3.33	0 to 3	300 ft. S 20° 15' E	
1	41.63	38.40	.20	3.23			
2	41.61	38.20	.40	3.41			
3	41.64	38.00	.60	3.64			
<u>Lat. 2 to No 12 to Lucas Main Ditch</u>							
0	40.74	38.40		2.34			
0.70	41.63	38.12	.28	3.51			
1	41.65	38.00	.40	3.65			136. Beers & Gillman's line
2	41.31	37.60	.80	3.71			
3	41.01	37.20	1.20	3.81			
4	41.29	36.80	1.60	4.49			
5	41.14	36.40	2.00	4.74			
5.94	40.38	36.02	2.38	4.86			
<u>Prong to right to Lateral 2 to No 12</u>							
0	43.18	40.40		2.78	0 to 2	200 ft. S 43° 20' W	
1	42.35	39.40	1.00	2.95			
2	41.63	38.40	2.00	3.28			
<u>Prong to left to Lateral 2 to No 12</u>							
0	41.33			2.53	0 to 1	100 ft. N 44° 35' E.	
1	41.63		.40	3.23			

over

Madison County Ditch Improvement Record.

Record of

Ditch Improvement No. 105

J. R. Lucas,

Station	Surface Elev.	Grade Elev.	Total Fall	Entire Depth	Course & Distance	Remarks
	<i>Lat. 3 to No 12 to Lucas Main Ditch.</i>					
0	3604	31.68		4.36		
1	3578	31.53	.15	4.25		
2	3556	31.38	.30	4.18		
3	3514	31.23	.45	3.91		
4	3477	31.08	.60	3.69		
5	3443	30.93	.75	3.50		
6	3436	30.78	.90	3.38		
7	3426	30.63	1.05	4.07		
8	3418	30.48	1.20	3.50		

Madison County Ditch Improvement Record.

Record of

D. R. Lucas

Ditch Improvement No. 109

Schedule "C"

Auditors Office Madison County, Sept. 21st 1892.

In the Matter of Ditch Improvement }
 Petitioned for by D. R. Lucas & Others } Spec. of the Manner of Construction,

Main Ditch, no of feet	Size of Tile, and	shall have 5 in. tile from sta 0 to sta 3.	300 feet
		" " 7 " " " 3 " 5	200 "
		" " 10 " " " 3 " 23	1800 "
		" " 13 " " " 23 " 63	4000 "
		" " 15 " " " 63 " 29	1600 "
		" " 18 " " " 29 " 98.50	19.50 "
		" " 24 " " " 98.50 " 140.50	42.00 "
Open Ditch		" " Banks sloped 1 1/2 horizontal to 1 vertical from stations 140.50 to stations 178. from stations 178 to stations 192 shall have its banks sloped 1 horizontal to 1 vertical.	
Mills in Bottom, Lateral 1 to Main	shall be 2 feet.	" have 5 inch tile from stations 0 to stations 7.	300 ft.
" 2 " "		" " 5 " " " " 0 " " 4	400 "
	and	" " 6 " " " " 4 " " 9	500 "
Lat 1 to 2		" " 4 " " " " 0 " " 3	300 "
" 2 " 2		" " 4 " " " " 0 " " 4	400 "
" 3 " 2		" " 4 " " " " 0 " " 3	300 "
" 3 " "		" " 6 " " " " 0 " " 5	500 "
" 4 " "		" " 5 " " " " 0 " " 11	1100 "
	and	" " 6 " " " " 11 " " 15	400 "
" 5 " "		" " 6 " " " " 0 " " 11.50	1150 "
	and	" " 7 " " " " 11.50 " " 16	450 "
" 6 " "		" " 6 " " " " 0 " " 6	600 "
	and	" " 8 " " " " 6 " " 11	500 "
		" " 10 " " " " 11 " " 14	300 "
" 1 to 6		" " 5 " " " " 0 " " 4	400 "
	and	" " 7 " " " " 4 " " 8	400 "
Provg 1 to 6		" " 4 " " " " 0 " " 3	300 "
Lat. 7 to		" " 8 " " " " 0 " " 8	800 "
" 8 " "		" " 6 " " " " 0 " " 4	400 "
	and	" " 8 " " " " 4 " " 18	1400 "
		" " 12 " " " " 18 " " 45	2700 "
Lateral 9		" " 8 " " " " 0 " " 19	1900 "
	and	" " 10 " " " " 19 " " 27	800 "
" 1 to 9		" " 6 " " " " 0 " " 9	900 "
Lateral 10		" " 5 " " " " 8 " " 14	600 "
	and	" " 6 " " " " 14 " " 21	700 "
		" " 8 " " " " 21 " " 31	1000 "
		" " 10 " " " " 31 " " 68	3700 "

Madison County Ditch Improvement Record.

Record of

S. R. Lucas.

Ditch Improvement No. 109

Specifications Continued

Lateral 10 to Main	and	shall have 12 in. tile from sta. 68 to sta. 72	400 ft.
" " " "	"	" " " " " " 72 " " 98	2600 "
<u>Size of tile & No. of ft. for the added laterals</u>			
Lat. A to 10		shall have 5 inch tile from sta. 0 to sta. 12	1200 ft.
" B " 10		" " " " " " 0 " " 7	800 "
" C " 10		" " " " " " 0 " " 5	800 "
	and	" " " " " " 5 " " 137	1800 "
	and	" " " " " " 6 " " 24	1100 "
Lat 3 to 12		" " " " " " 8 " " 8	800 "
" G " Main		" " " " " " 8 " " 7	700 "
" 1 " "		" " " " " " " " " "	" "
" 2 " 10 "		" " " " " " 5 " " 8	800 "
" 3 " 10 "		" " " " " " 6 " " 8	800 "
	and	" " " " " " 7 " " 24	1600 "
" 4 to 10 "		" " " " " " 5 " " 13	1300 "
" 5 " 10 "		" " " " " " 8 " " 21	2100 "
" 11 "		" " " " " " 7 " " 20	2000 "
	and	" " " " " " 8 " " 34	1400 "
		" " " " " " 10 " " 45	1100 "
		" " " " " " 12 " " 45	2400 "
" 12 to main		" " " " " " 6 " " 8	800 "
	and	" " " " " " 8 " " 14.50	650 "
		" " " " " " 10 " " 14.50	3550 "
		" " " " " " 12 " " 50	24.50 "
Lat. 1 to 12 to Main		" " " " " " 5 " " 3	300 "
" 2 " 12 " "		" " " " " " 5 " " 1	100 "
	and	" " " " " " 6 " " 594	494 "
Prong to R to 2 to 12		" " " " " " 4 " " 2	200 "
" " 2 " 2 " 12 "		" " " " " " 4 " " 1	100 "

Quality of Tile Shall be first class drain tile or what is known as a good quality of second class sewer pipe.

All tile must be well and evenly burned, so that when struck they will give forth a clear ringing sound.

No crooked or warped tile to be used unless they are needed in making necessary curves in said ditches.

The size referred to above shall be the internal diameter and no part of the size of tile to measured as to size.

Tile how furnished

To be furnished on the ground within one rod of side of said ditches distributed 100 feet of tile to one full station, or in piles of not more than three rods in a place.

Madison County Ditch Improvement Record.

Record of

S. R. Lucas

Ditch Improvement No. 109

The Trench:

Shall be cut fully down to grade line at all points, and all necessary turns shall be made into perfect curves.

Tile how laid:

Tile shall be laid in said trench in the best possible manner & held in position while bed is placed in to one half of the height of said tile, in which position they shall remain until inspected by the engineers or some authorized person, and if to the acceptance of said Engineers or authorized persons the remainder of said trench shall be entirely filled up with the same material that came out of said trench.

The Ditch Contractor:

Shall be held responsible for any damage done to said ditch by letting any material wash in said ditch while being constructed, and shall connect all old tile ditches; now in with the new ditch, provided they are in proper conditions to be united with said new ditch, without extra cost.

End Tile.

At stations 140+50 (end of 24 inch tile) there shall be sufficient rubble masonry (not to exceed 4 perches) placed in the best possible manner so as to hold the last tile in position.

Grubbing

All trees, brush & shrubs within two rods (33 ft.) of the line of said ditch to be grubbed, unless so stated by Engineers.

Open Ditch to begin at station 140+50.

Excavated Material.

To be taken back not less than 20 feet from the outside line of said ditch and spread to the acceptance of Engineers, any pocket, sink or old channel within 100 ft. of outside line of said ditch to receive said material without extra cost.

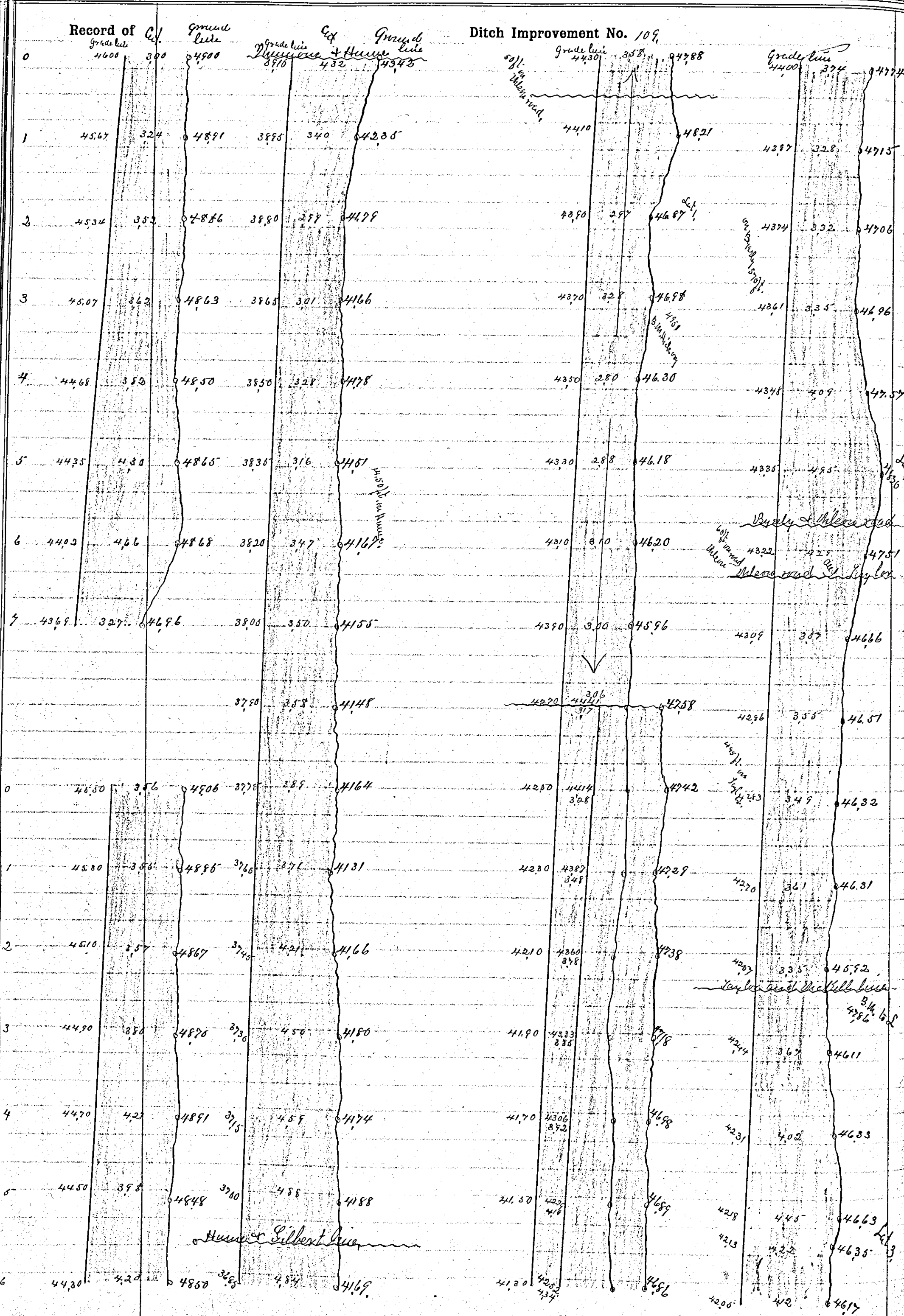
Privileges of Engineer or Authorized person.

If at any time the engineer or authorized person finds that any contractor of said ditch or part thereof has not complied with said specifications, upon notice to comply with the same by said engineer or authorized person, he shall after the expiration of three days, have the right and privilege of having the same done at the expense of said contractor; also the extra expense of said engineer or authorized person while said extra work is being done.

Filters.

At different points on tile ditch where it is on or along roads or pike's there shall be filters placed at the directions of the Engineer by filling up trenches with coarse gravel or small stones to the satisfaction of Engineers.

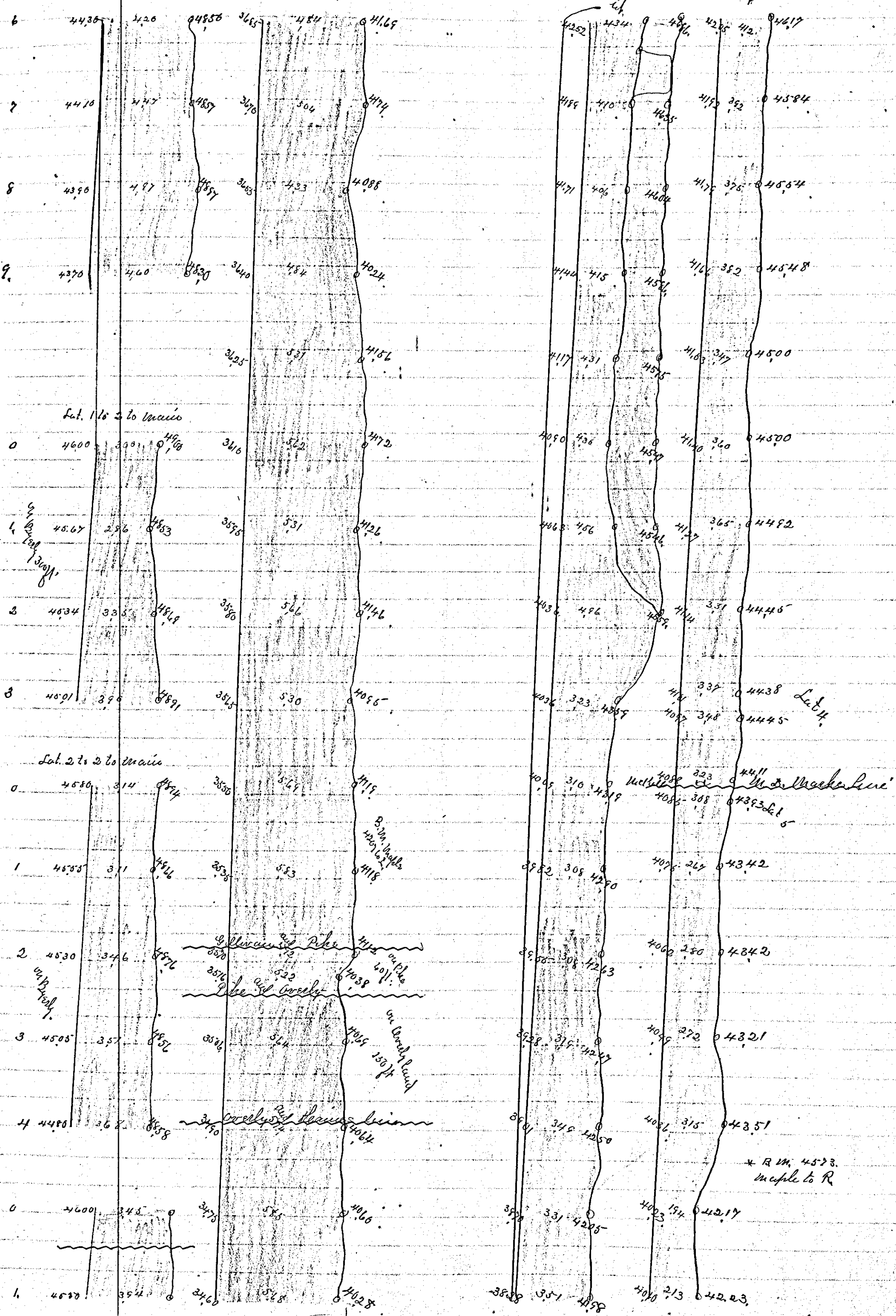
Madison County Ditch Improvement Record.



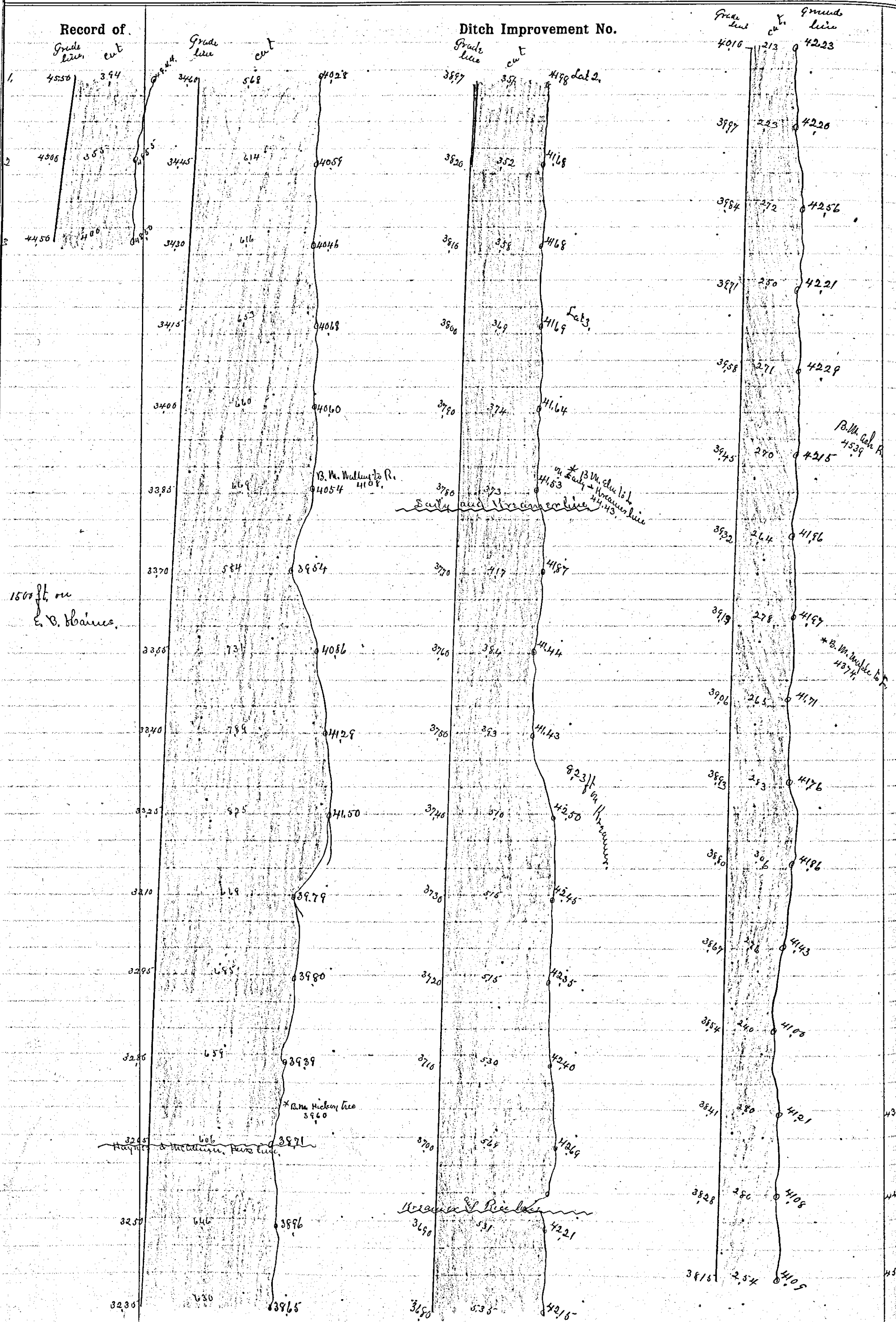
Madison County Ditch Improvement Record.

Record of

Ditch Improvement No. 109



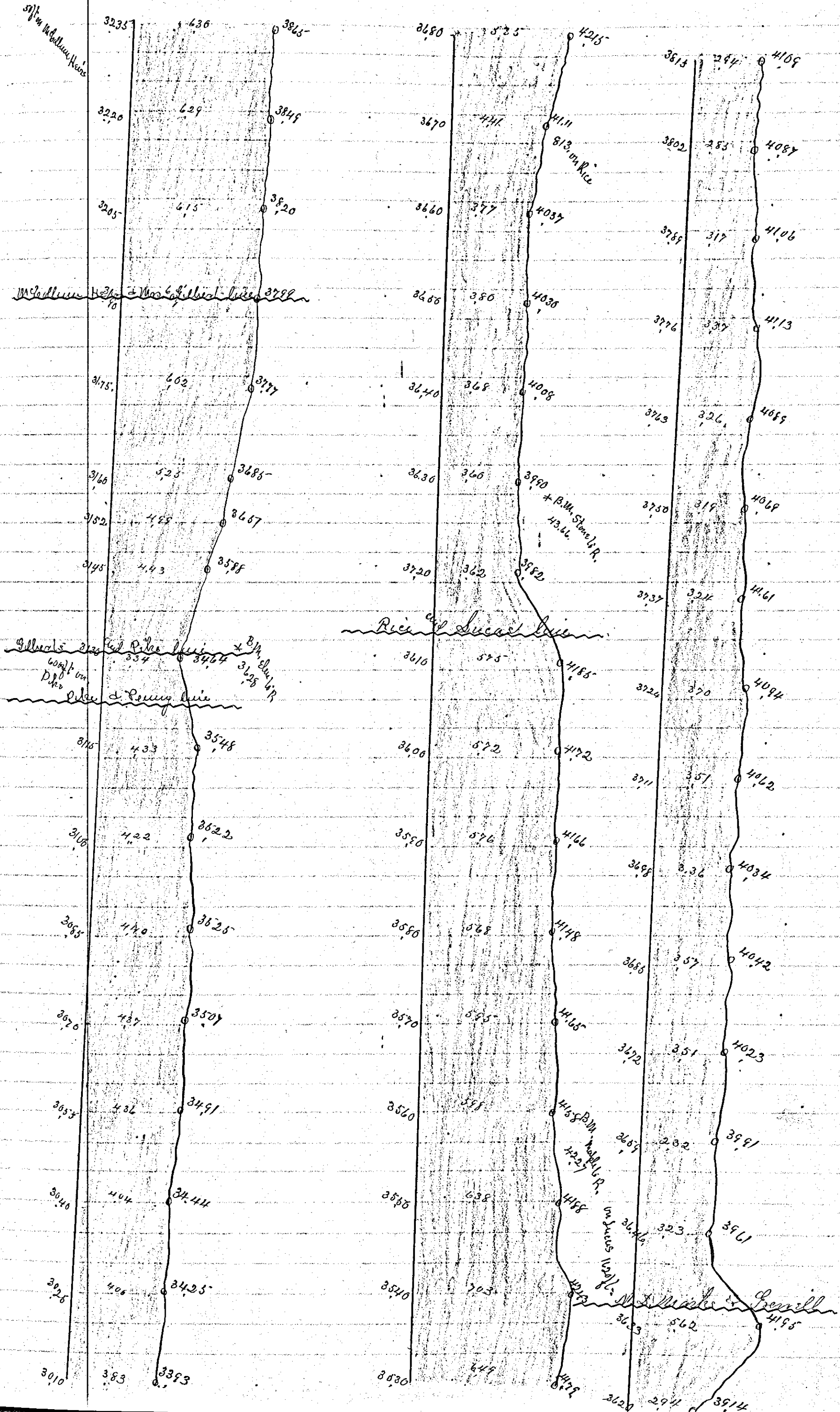
Madison County Ditch Improvement Record.



Madison County Ditch Improvement Record.

Record of

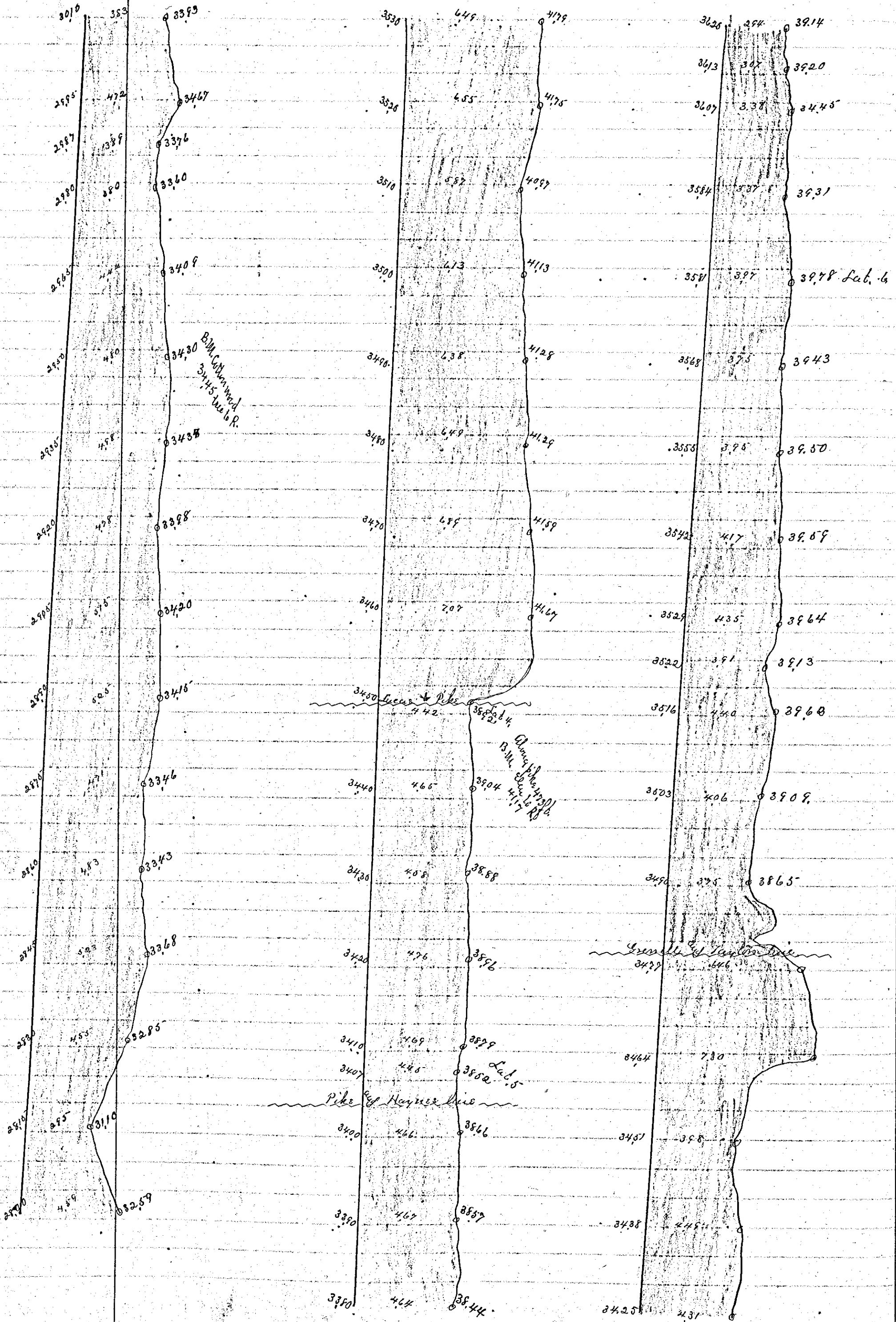
Ditch Improvement No. 109



Madison County Ditch Improvement Record.

Record of

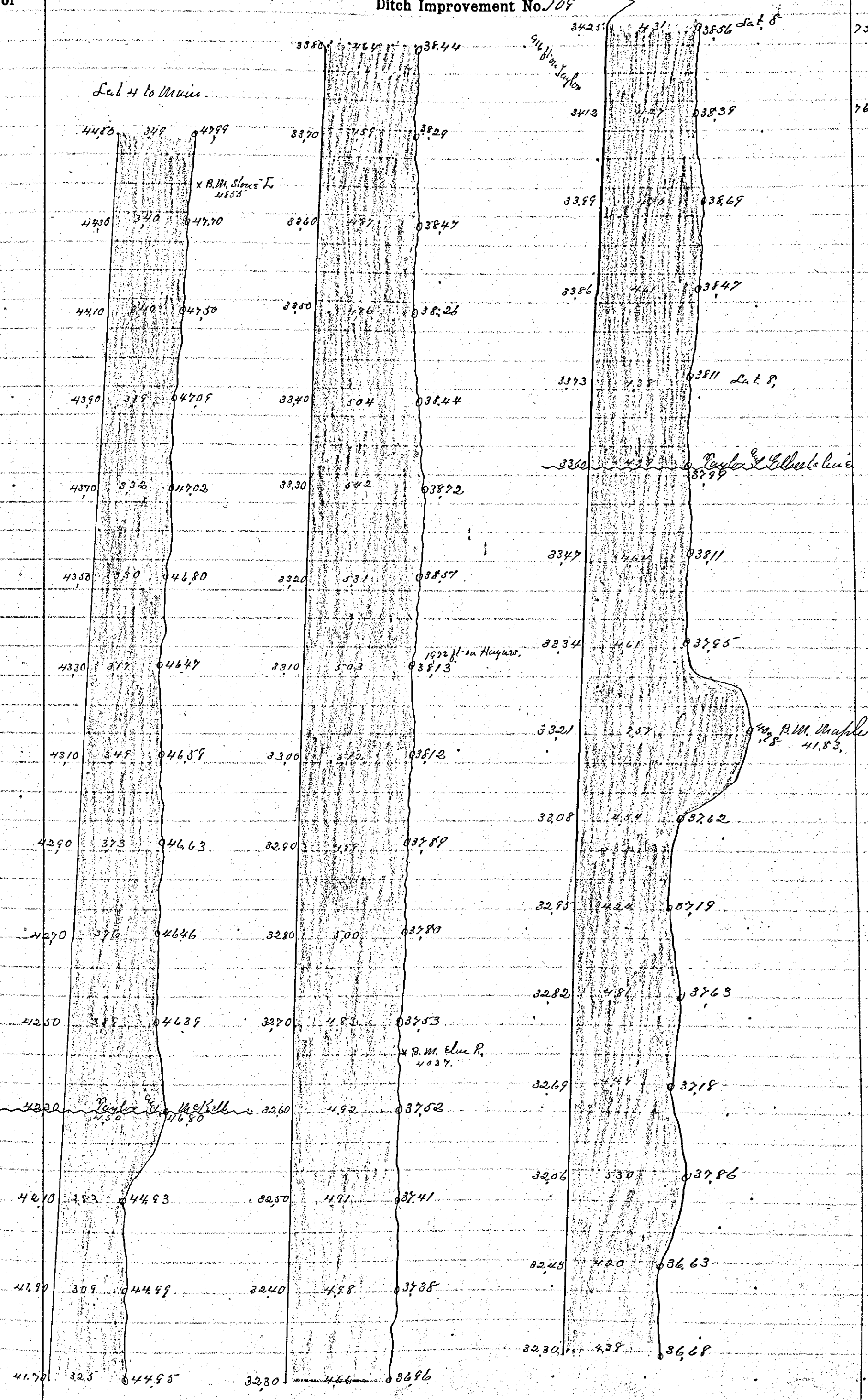
Ditch Improvement No.



Madison County Ditch Improvement Record.

Record of

Ditch Improvement No. 109



Lat. 4 to Main.

x B.M. Slope L
4555

Taylor & Gilberts line

Taylor & Gilberts line

1922 W. m. Hayass.

x B.M. Maule L
4183

Stationing	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6
4480	349	04799	3370	459	03829	3425
4430	340	04770	3360	457	03847	3412
4410	340	04750	3350	476	03826	3399
4390	339	04709	3340	504	03844	3386
4370	338	04702	3330	542	03872	3373
4350	330	04680	3320	531	03857	3360
4330	317	04647	3310	503	03813	3347
4310	349	04659	3300	570	03812	3334
4290	373	04663	3290	488	03789	3321
4270	376	04646	3280	500	03780	3308
4250	382	04639	3270	483	03753	3295
4230	382	04680	3260	492	03752	3282
4210	383	04493	3250	491	03741	3269
4190	309	04499	3240	498	03738	3256
4170	325	04495	3230	466	03696	3243

75

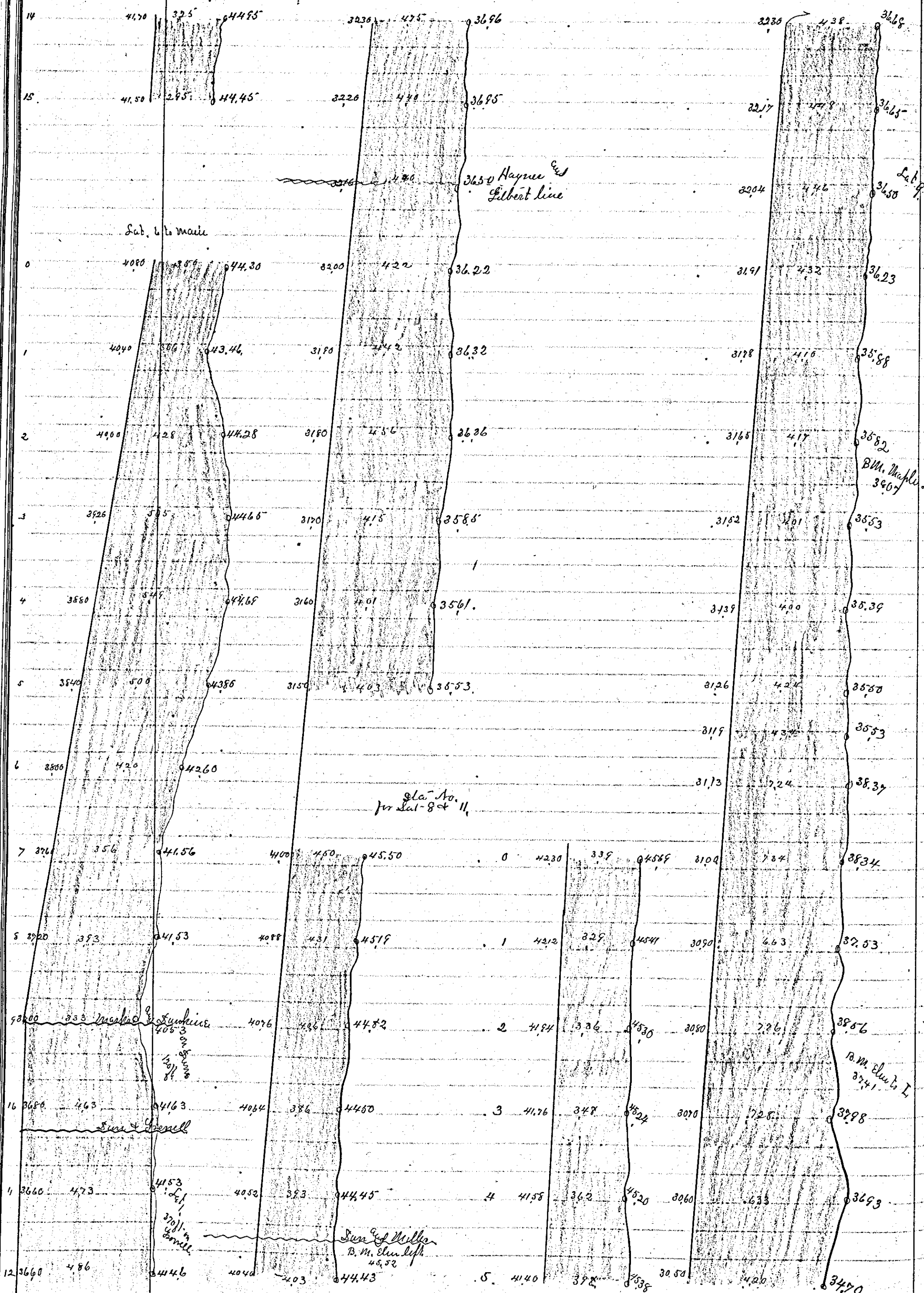
76

20

Madison County Ditch Improvement Record.

Record of

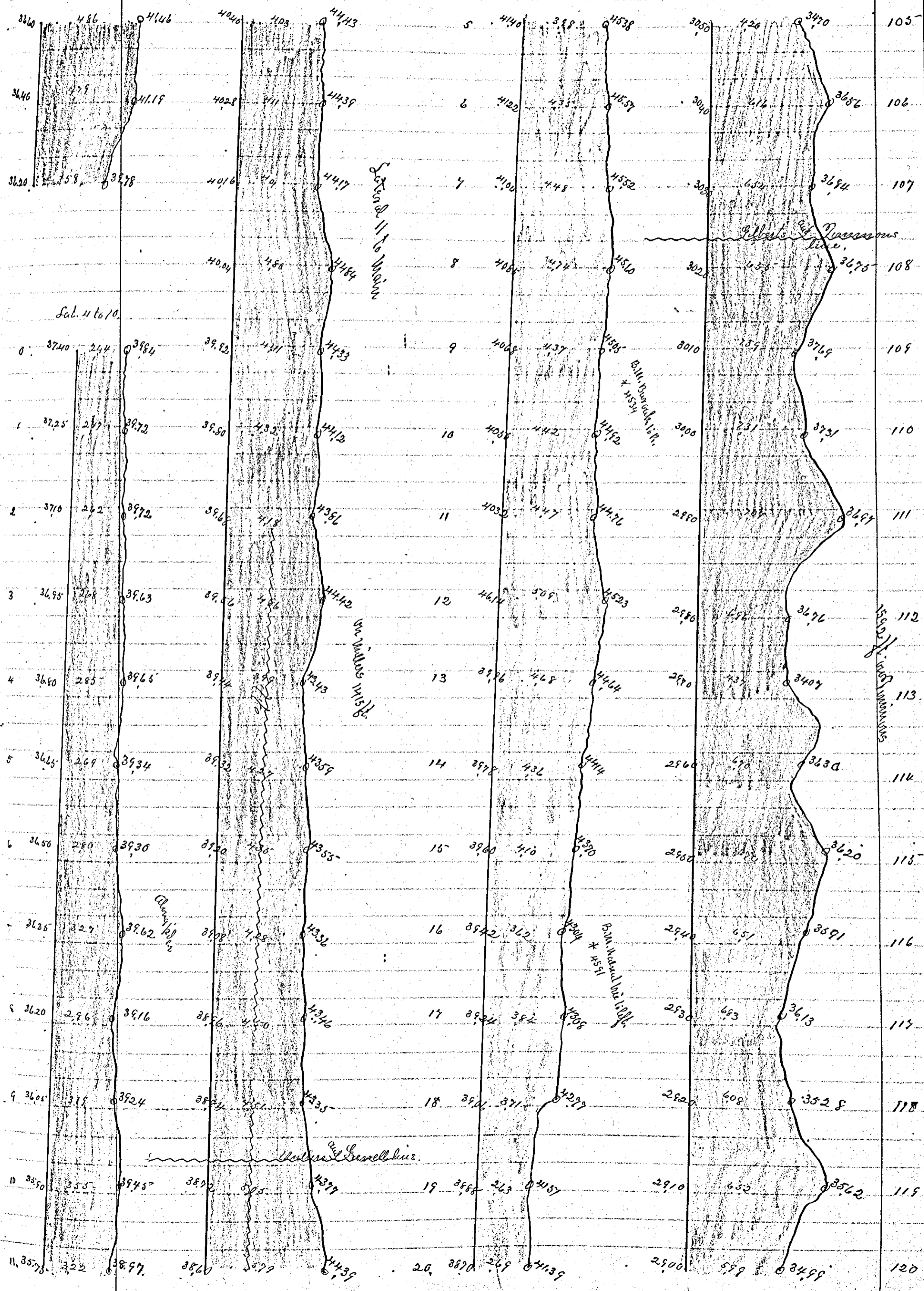
Ditch Improvement No. 109



Madison County Ditch Improvement Record.

Record of

Ditch Improvement No. 109



Section 11 to 10

Sec. 11 to 10

Gilbert's & Duross's line.

B.M. Burdick 117.

B.M. Burdick 118.

Columbia

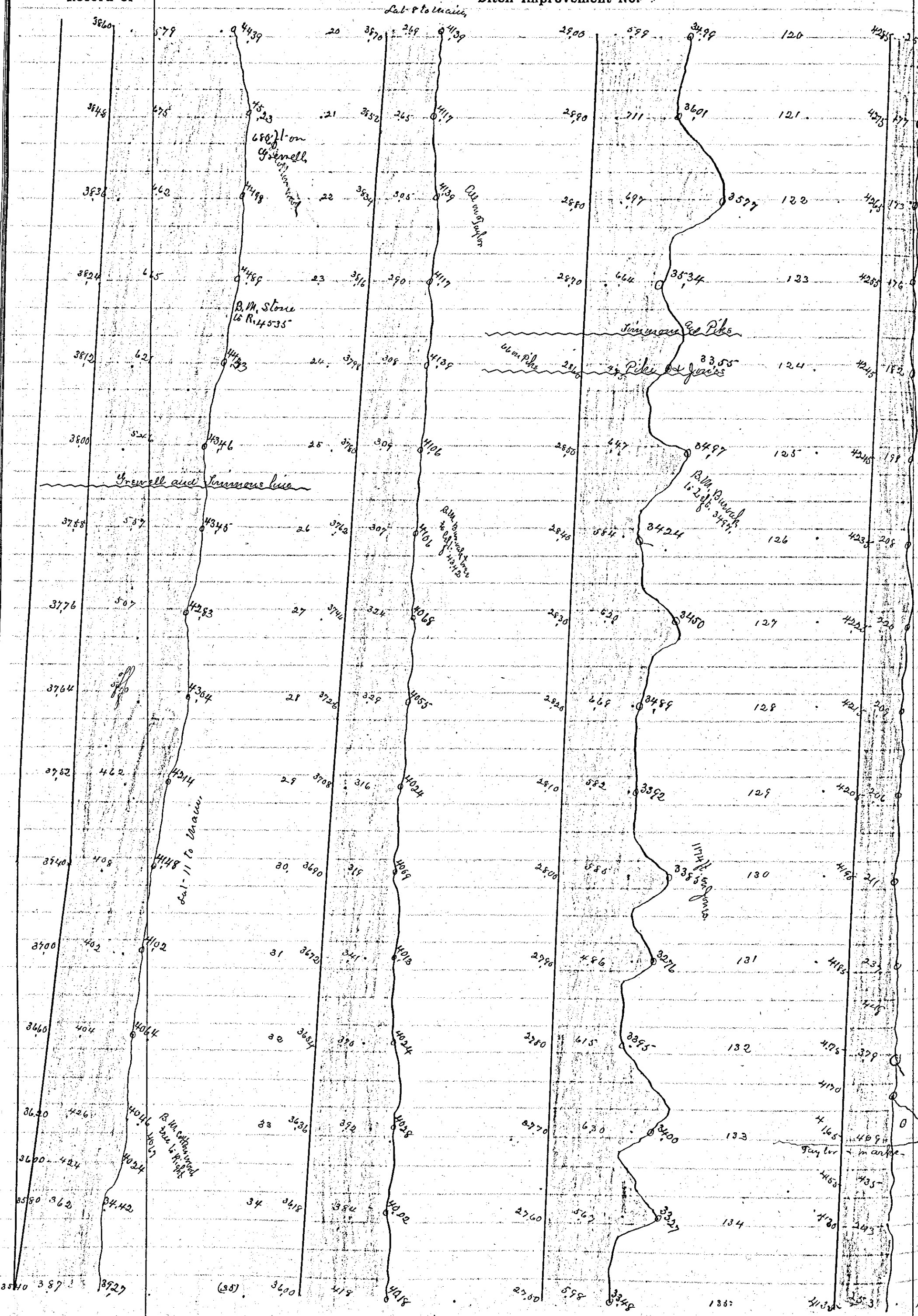
Hull's & Swell's line.

Section 10 to 11

Madison County Ditch Improvement Record.

Record of

Ditch Improvement No. 109

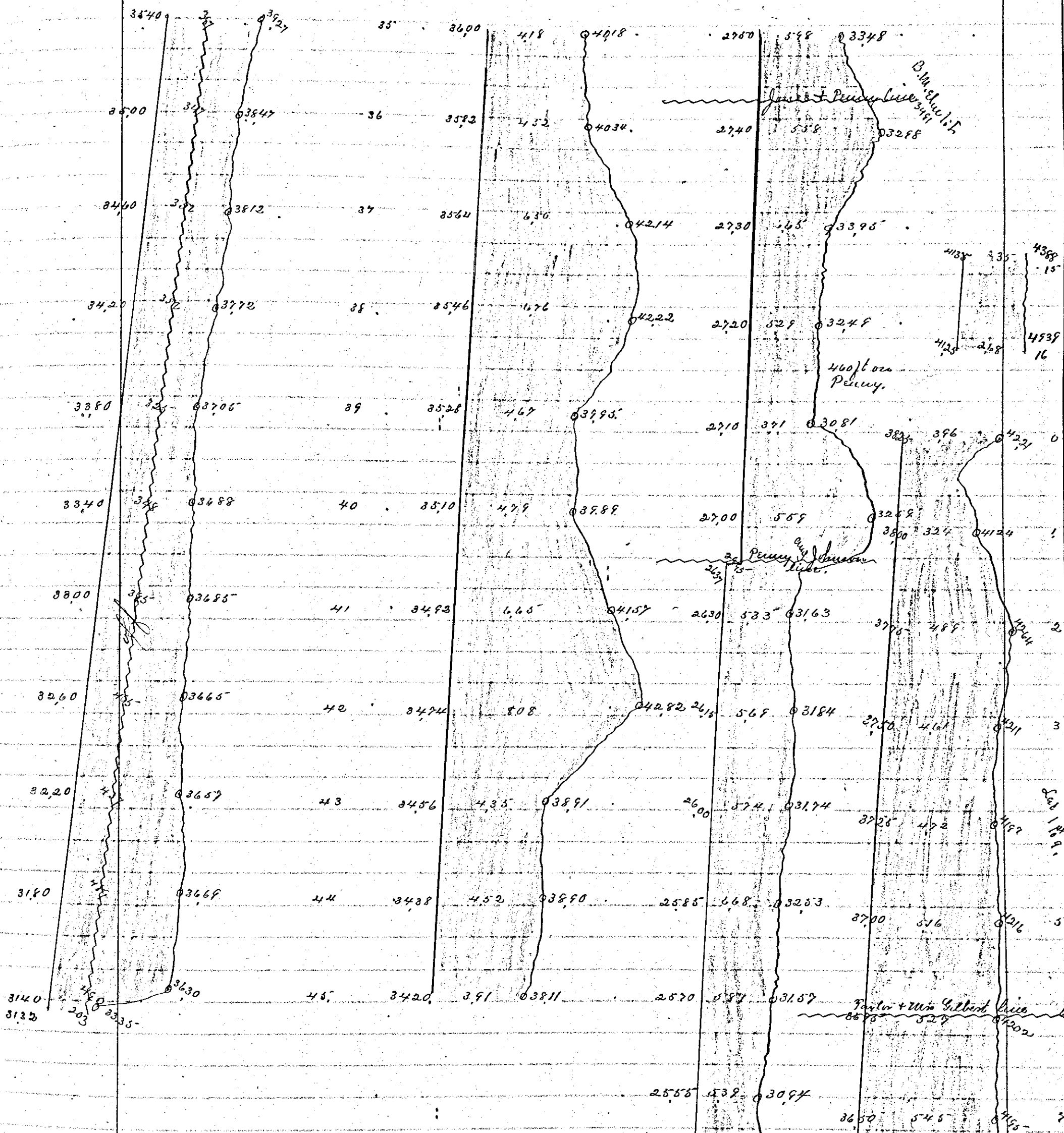


Madison County Ditch Improvement Record.

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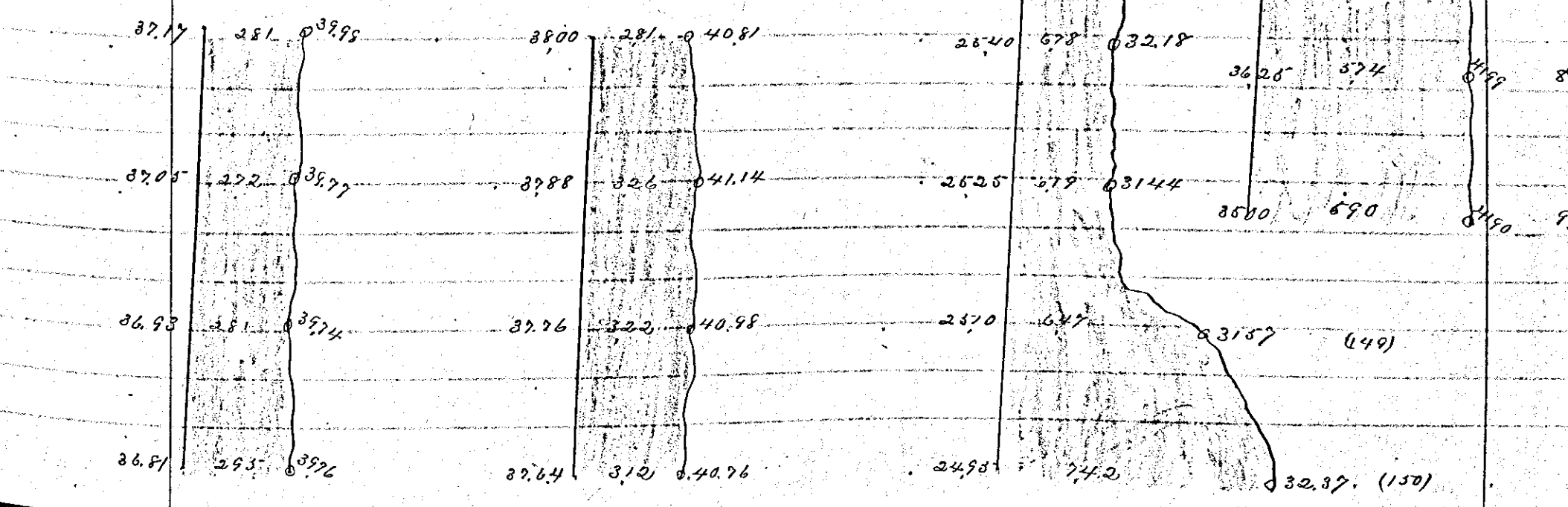
Ditch Improvement No. 109.

Lat 11 to Main,



Lat. 5 to 10.

Lat. 9 to Main.



Madison County Ditch Improvement Record.

Record of

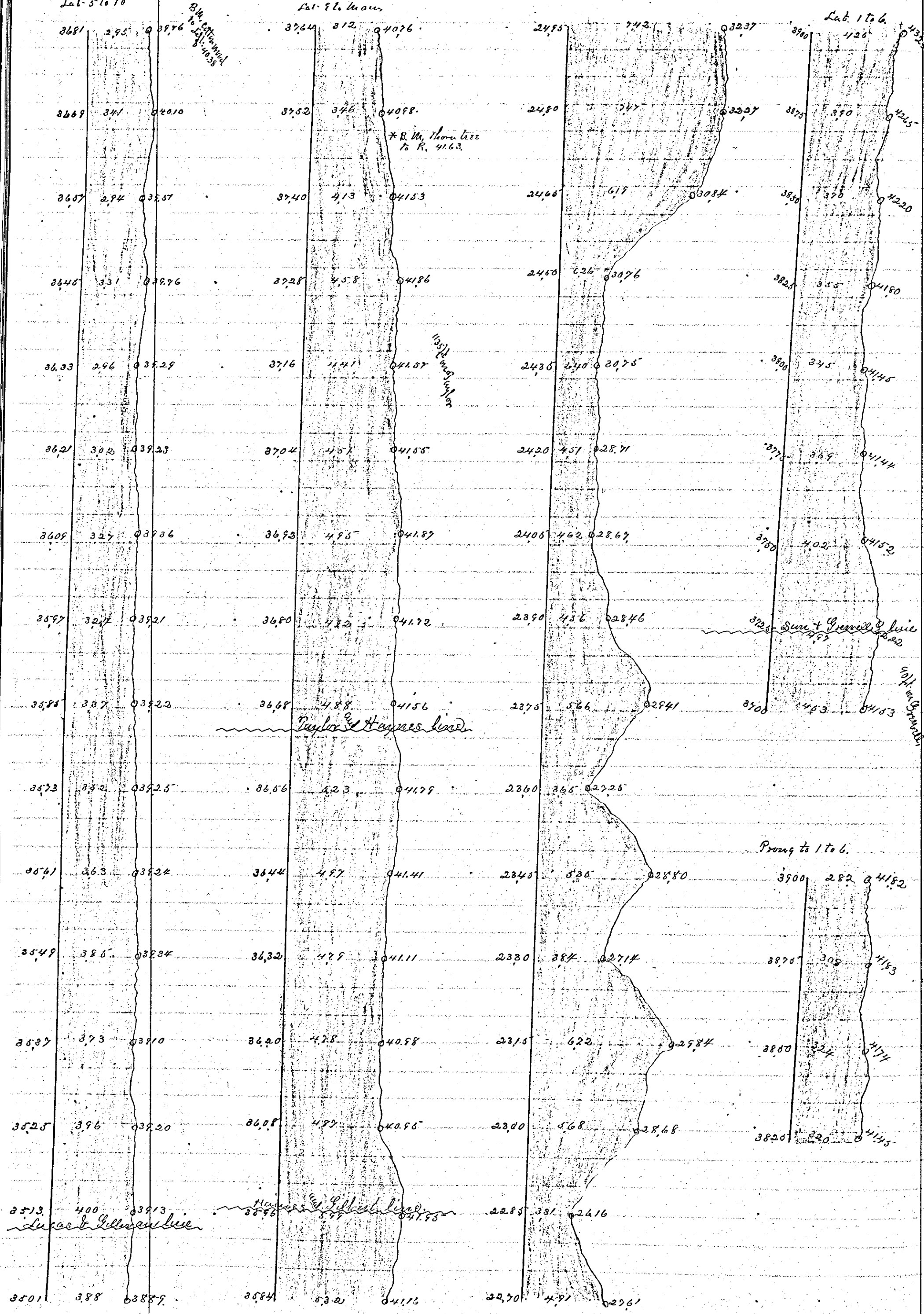
Lab. 5 to 10

D. H. Lucas

Lab. 9 to 10

Ditch Improvement No. 109

Lab. 1 to 6



B.M. established to Lab. 1035

** B. W. Thomas to R. 41.63*

1135 ft. long

Taylor & Hayes line

Lucas & Gilbert line

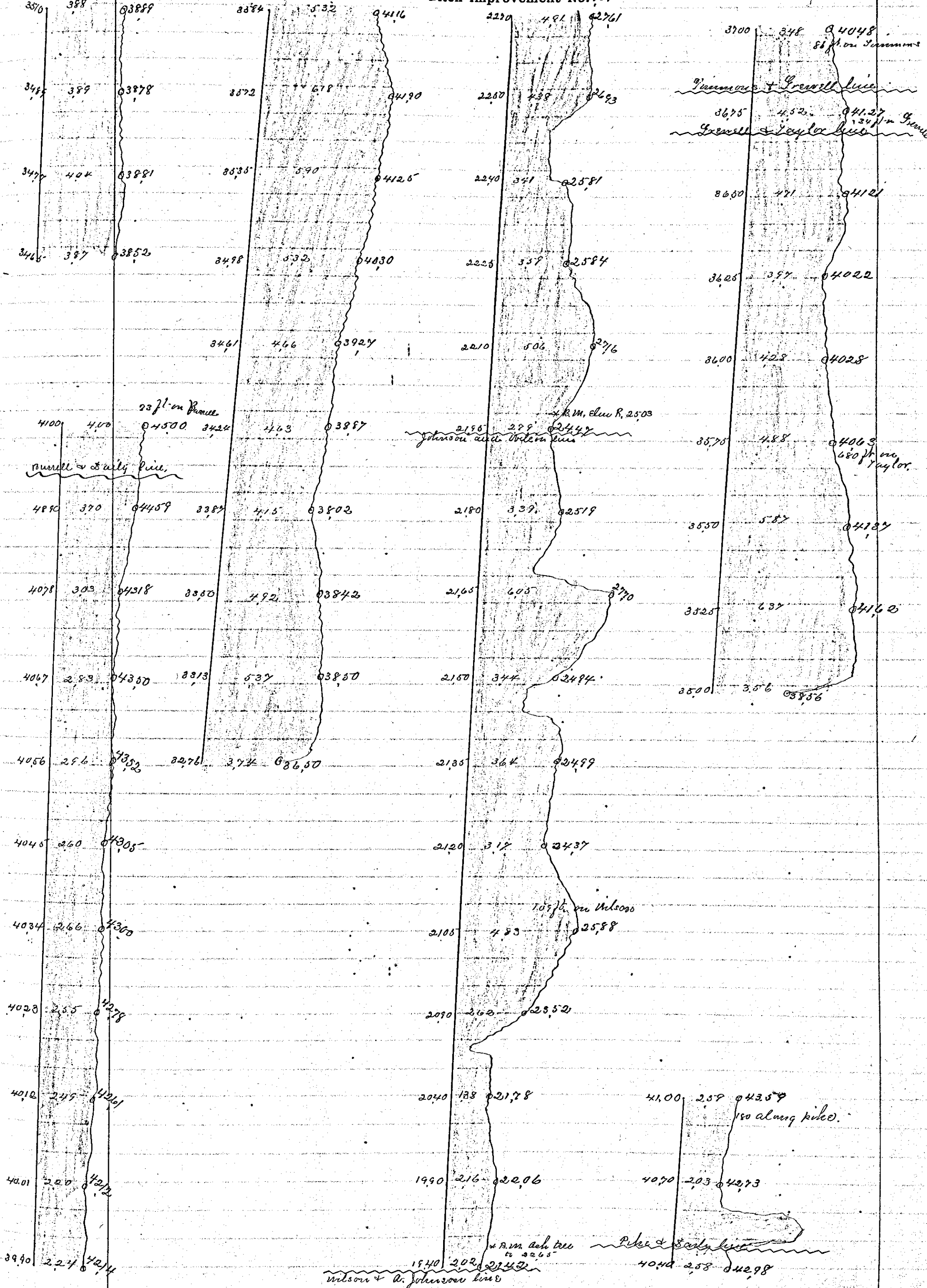
Prong to 1 to 6

90 ft. in ground

Madison County Ditch Improvement Record.

Record of

Ditch Improvement No. 109

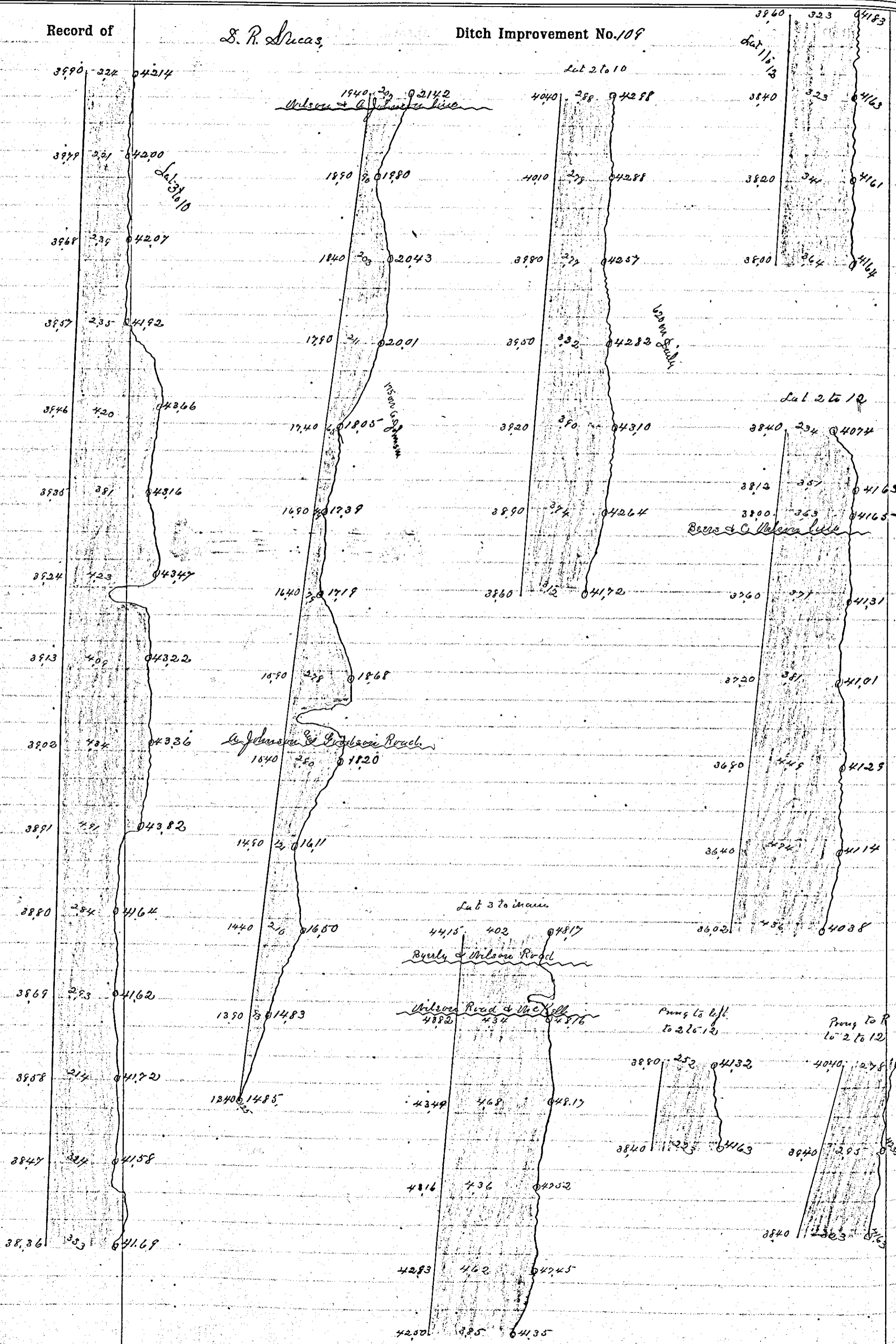


Madison County Ditch Improvement Record.

Record of

S. R. Lucas

Ditch Improvement No. 109



Madison County Ditch Improvement Record.

Record of

D. R. Lucas,

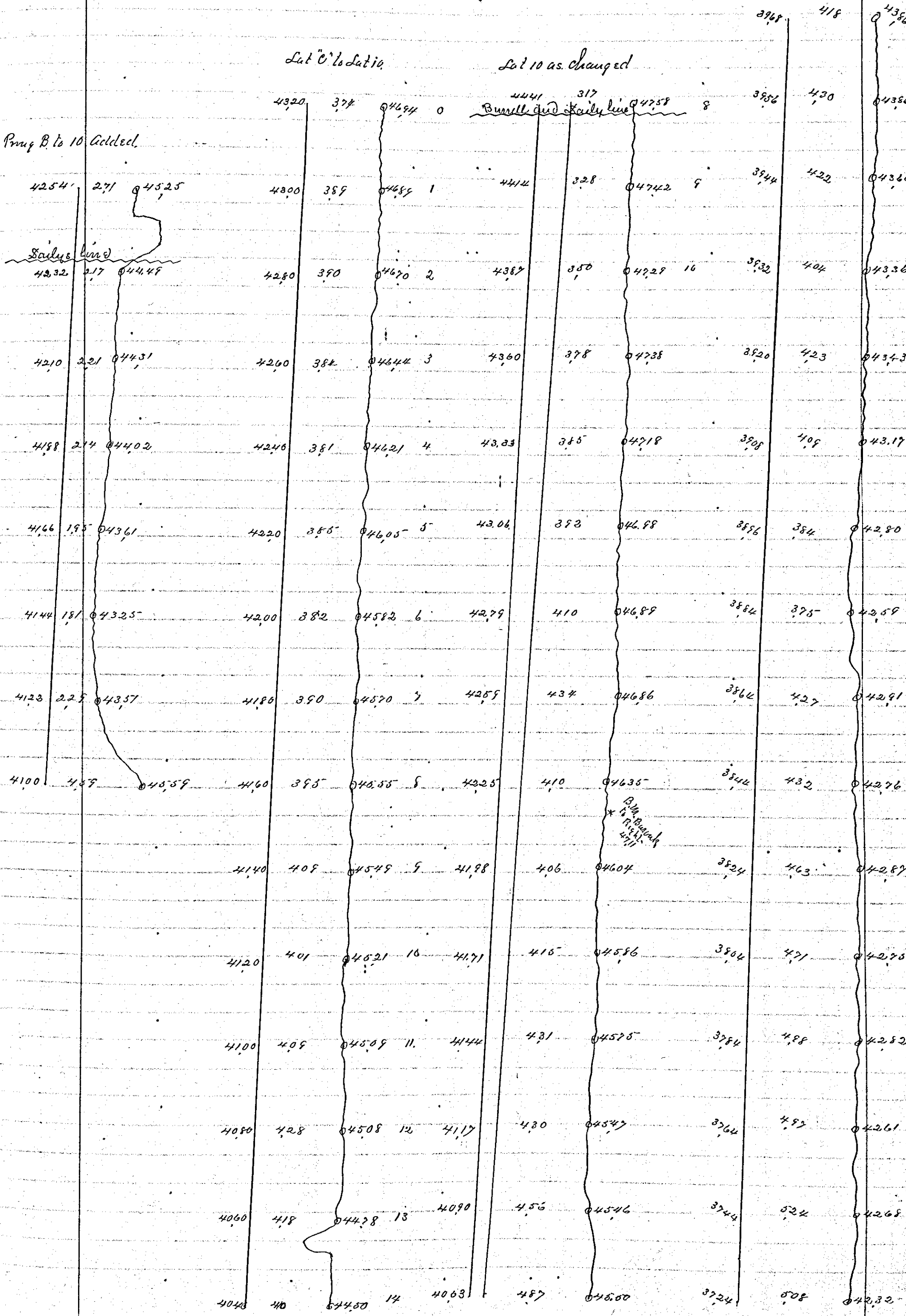
Ditch Improvement No. 109

Part
Added to Lot 11.

Lot 0 to Lot 10

Lot 10 as changed

Prng B to 10 Added.



Madison County Ditch Improvement Record.

Record of				Ditch Improvement No.				
4040	410	444.50	4063	457	445.50	3724	508	42.32
4020	426	444.46	4036	323	443.55	3704	500	42.02
4000	425	444.25	4009	310	443.19	3684	516	42.00
3980	431	444.11	Byrdy 4543a 35 th Mead rd 45 th Road			3664	510	41.74
3960	428	443.88	Wilson Road 4 th Taylor's Lane			3644	527	41.71
3940	467	444.04	4499	248	447.47	3624	509	41.33
3920	468	443.88	4477	294	447.71	3604	526	41.30
3900	466	444.04	4458	311	447.66	3584	450	40.74
3880	438	443.88	4433	356	447.89	3564	472	40.36
3860	469	443.66	Taylor & Taylor Pkcs.			3544	470	40.14
3840	328	441.68	4388	290	446.79	3524	523	40.67
			4367	399	447.66	3504	547	40.48
			4345	427	447.72	3484	565	40.49
			4323	386	447.09	3464	570	40.34
			4301	398	446.96	3444	570	39.84
			4279	410	446.59	3424	586	40.10

Madison County Ditch Improvement Record.

Record of

Ditch Improvement No.

Greenell & Summers line

Miller & Lucas Pk

Lucas Pk & Jones line

Boswell & Perry line

*B.M. Canal
* R. 3712*

Record of	Ditch Improvement No.					
3276	410	3276	531	4010	3104	389
3240	501	3240	622	3935	3084	368
3210	418	3210	621	4006	3064	373
3180	477	3180	617	3885	3044	358
3150	460	3150	610	3961	3024	331
3120	437	3120	610	3934	3004	353
3090	515	3090	460	3764	2984	362
3060	2320	3060	568	3852	2984	343
3030	425	3030	446	3710	2944	349
3000	418	3000	523	3686	2944	327
2970	391	2970	487	3767	2924	340
2940	369	2940	440	3691	2904	337
2910	350	2910	349	3620	2866	284
2880	343	2880	366	3513	2846	284
2850	338	2850	416	3509	2826	284
2820	407	2820	389	3540	2806	284
2790	370	2790			2786	284

Madison County Ditch Improvement Record.

Record of

Ditch Improvement No.

Owner Name	Township	Description or Survey	Acres Improved	Acres Drained	Estimated cost of Construction	Estimated cost of Locations	Total cost Appropriated
Athinson Bureau	Jefferson	7533	3	3	9 85	18	10 00
Byerly J. W.	Monroe	2857	77 1/2				
" Rosella	"	2881	25	38	441 00	9 00	450 00
"	"	"	20				
Burrell Thomas	"	2883	15	20	99 00	1 00	100 00
"	Jefferson	12272	51				
Beers Jacob	"	6000	1/2				
"	"	6000	1 81/100	2 31/100	34 30	20	35 00
Boswell George	"	"	203 66	100	123 00	2 00	125 00
Daily Patrick	"	12272	162 1/2	100	1018 00	20 00	1038 00
Dunn John G.	Monroe	10905	182	90	616 00	12 00	628 00
Gillman James	Jefferson	6000	47 3/4	47 3/4	417 00	8 00	425 00
Gilbert Henrietta	"	"	85	85	491 00	9 00	500 00
Grenell George	"	"	50				
"	Monroe	1095	25	75	417 50	7 50	425 00
Henne F. W.	Jefferson	6000	63 28	63 28	504 00	10 00	514 00
Haynes E. B.	"	"	105 6	105 6	515 50	9 50	525 00
Jones W.	"	"	71 20	71	148 00	2 00	150 00
Johnson James	"	2985	137 13				
"	"	"	28 56	100	147 40	2 60	150 00
Johnson Abner Jr.	"	"	112	25	49 00	1 00	50 00
Jefferson J. P.	"	Gordson road			26 50	50	27 00
Kreanier Eugene	"	13873	80	20	147 50	2 50	150 00
Kilbury Camelia	"	6000	84	84	2 50	10	3 00
Lucas S. R.	"	13873	100	100	981 00	19 00	1000 00
Marks M. S.	Monroe	1095	400	110	1080 00	20 00	1100 00
Miller Frank	Jefferson	6000	204	100	381 85	6 00	387 85
Madison County	"	Taylor & Lucas Rhs and Wilson Road			98 00	2 00	100 00
McKell J. D.	Monroe	1095	196 20	30	294 00	4 00	300 00
McCollum Steers	Jefferson	6000					
" Mary E.	"	"	15	15	94 00	1 00	95 00
" Mary V.	"	"					
" S. P. Agent	"	"					
Overly A. J.	"	"	1/2	1	9 80	20	10 00
" E. J.	"	"	1/2				
Penney John	"	"	20 40	20 40	344 00	6 00	350 00
Rich Alfred	"	13873	52 1/2	22 1/2	172 50	2 50	175 00
Taylor J. M.	"	13661	35				
"	"	2532	210 1/2	220 1/2	2015 00	38 00	2053 00
"	Monroe	1095	25				
Trimmous Thomas	Jefferson	6000	92 1/4				
"	"	"	44	100	589 00	11 00	600 00
Wilson Jasper	"	2985	50				
"	"	"	70	50	110 00	2 00	112 00
"	"	"	213 1/4				

Madison County Ditch Improvement Record.

Record of

S. R. Lucas

Ditch Improvement No. 109

Auditors Office Madison County,
London Ohio Oct 5 A.D. 1892.

In the Matter of Ditch Improvement }
 Petitioned for by S. R. Lucas & others } Notice to Land Owners, et al.

To all Lot and Land Owners and Municipal and Private Corporations, that will be affected by the Ditch Improvement herein designated.

You and each of you are hereby notified that on the 4th day of April A.D. 1892; David R. Lucas & others filed a petition with the Auditor of said County, the substance and prayer of which said petition is, that there exists a necessity for the location of a new ditch and the deepening and widening of certain ditches and prayer for the making of such improvement on the following route and termini to wit.

Commencing at a stake in the land of Rosella Byers in Mouros township, Madison County O. and running thence as nearly as practicable with an old ditch and in a southerly course crossing a road known as the Kreamer road and through the land of J. M. Taylor, J. S. McKell, Mrs Jennie Taylor to the head of a county ditch known as the J. M. Taylor ditch, thence through the lands of G. Grenell, J. M. Taylor, Mrs Harriet Gilbert, J. M. Finimous, W. James, J. J. Penny and James Johnson, to the mouth of said J. M. Taylor ditch, thence through the lands of J. M. Wilson along the route of an old ditch in an easterly course to a stake and also laterals as follows to wit.

First lateral, commencing near an apple tree on the lands of F. M. Heuser in Jefferson township, in said County and running thence in a southerly course through the lands of the said Heuser and J. Gillivans crossing the Taylor Improved Road, thence through the lands of A. J. Overly and E. B. Hayes to the Lucas Improved Road, down the north side of said road to a stake in Mrs Gilbert land, thence across said Lucas road and through the lands of J. Penny to a stake in the line of said J. M. Taylor County ditch.

Second lateral, commencing at a stake on the lands of Geo. Byers and at the head of a ditch heretofore located by the Trustees of Jefferson Tp. and running thence across said Kreamer road through the lands of Johnna Fitzgerald, E. Kreamer and Alfred Rice, and down the north side of said J. M. Taylor Improved Road, to a stake in James Gillivans' lands, thence across the road and through the lands of E. B. Hayes and Harriett Gilbert to a stake in the line of said Taylor County Ditch, and we also ask for the location of all remaining laterals to said main ditch and to said first and second laterals.

That said petition is now pending, and that such proceedings have been duly and legally had, that the Board of Commissioners have found that said improvement is necessary for and will be conducive to the public health, convenience and welfare and that the line there of is on the best route; and the duly appointed Engineer Elmer E. S.

Madison County Ditch Improvement Record.

Record of

S. R. Lucas

Ditch Improvement No. 109

Hearsey Esq. has filed in this office his report as required by law and that as such Auditor of said County the undersigned has filed Monday the 17th day of October A.D. 1892 at 10 o'clock A.M. at the Auditors Office for the hearing of said matter and proceeding. The following apportionment thereof has been made to you by the Engineer in his report as follows:

Owners Names	Township	Survey	Acres Owned	Acres Drained	Est. Cost of Construction	Est. Cost of Locals	Total Cost Apportioned
Athinson Susan	Jefferson	7533	3	3	9 85	15	70 00
Byerly J. W.	Monroe	2851	77 1/2				
" Rosella	"	2881	25	38	441 00	9 00	450 00
"	"		20				
Bussell Thomas	"	2883	15	20	99 00	1 00	100 00
"	Jefferson	12272	51				
Beers Jacob	"	2000	1/2				
"	"	"	1.81	2.31	34 30	70	35 00
Boswell George	"	"	203 66	100	123 00	2 00	125 00
Daily Patrick	"	12272	162 1/2	100	1018 00	20 00	1038 00
Dick John G.	Monroe	10905	182	90	616 00	12 00	628 00
Gillman James	Jefferson	2000	47 3/4	47 3/4	417 00	8 00	425 00
Gilbert Harriett	"	"	85	85	491 00	9 00	500 00
Grewell George	"	"	50				
"	Monroe	1095	25	75	417 50	7 50	425 00
Hume F. W.	Jefferson	2000	63 28	63 28	504 00	10 00	514 00
Haynes E. B.	"	"	105 6	105 6	515 50	9 50	525 00
Johns W.	"	"	71 22	71	148 00	2 00	150 00
Johnson James	"	2985	127 13				
"	"	"	28 56	100	147 40	2 60	150 00
Johnson Abner Jr.	"	"	112	25	49 00	1 00	50 00
Jefferson Prop.	"	Goodson Road			26 50	50	27 00
Kearner Eugene	"	13873	50	20	147 50	2 50	150 00
Keilbury Larnelia	"	2000	84	84	2 90	10	3 00
Lucas S. R.	"	13873	100	100	981 00	19 00	1000 00
Mashe M. S.	Monroe	1095	400	100	1080 00	20 00	1100 00
Miller Frank	Jefferson	2000	204	100	381 85	6 00	387 85
Madison County	Taylor & Lucas	Aug Mlem road			98 00	2 00	100 00
McKell J. D.	Monroe	1095	196 20	30	294 00	6 00	300 00
McCollum Heirs	Jefferson	2000					
" Mary E.	"	"	15	15	74 00	1 00	75 00
" Henry D.	"	"					
" B. P. Agent	"	"					
Overly A. J.	"	"	1/2				
" B. P. Agent	"	"	1/2	1	9 50	20	10 00
Perry John	"	"	20 40	20 40	344 00	6 00	350 00

Madison County Ditch Improvement Record.

Record of

D. R. Lucas

Ditch Improvement No. 109

Owner Names	Township	Survey	Acres Owned	Acres Drained	Est. cost Construct		Est. cost Locat.		Total Cost Appor'd.	
					\$	¢	\$	¢	\$	¢
Rice Alfred.	Jefferson	13878	✓ 52 1/2	22 1/2	192	50	2	50	175	00
Taylor J. M.	"	13661	✓ 35							
" " "	Monroe	7532	✓ 210 1/2	320 1/2	2115	00	38	00	2153	00
" " "	Jefferson	1095	✓ 75							
Timmons Thomas	"	6000	✓ 92 1/4							
" " "	"	"	✓ 44	100	589	00	11	00	600	00
Wilson Jasper	"	2985	✓ 50							
" " "	"	"	✓ 70	50	110	00	2	00	112	00
" " "	"	"	✓ 21 3/4							

Pa.

W. C. Ward.
County Auditor.

Auditors Office, Madison County, Ohio.
London Oct. 13th A. D. 1892.

The State of Ohio }
Madison County ss. } Proof of Personal Notice.

On this 13th day of October A. D. 1892, personally came E. B. Paucake who being duly sworn according to law, deposes and says that on the days herein after named, he served the annexed notice on the persons hereinafter named, by delivering to each person opposite whose name appears "S" a true copy of the annexed notice with the duplicate of the tabular statement thereto attached; and on those opposite whose name appears "R" by leaving the same, with the duplicate of the tabular statement, hereto attached, at their usual place of residence.

Name of Person Served.	When Served.
Athens Bureau "S"	October 5 th 1892
Byrley J. M. "R"	" " "
Byrley Rosella "S"	" " "
Burdell Thomas "R"	" " "
Beers Jacob "S"	" " "
Boerwell George "R"	" " "
Saily Patrick. S. S. Fitzg. Ex. S.	" " "

over.

Madison County Ditch Improvement Record.

Record of

S. R. Lucas.

Ditch Improvement No. 109

Name of Person Served		When Served.
Dunn John G.	"R"	October 5 th 1892
Gillbran James	"S"	" " "
Gilbert Pleasant	"S"	" " "
Greerell George	"R"	" " "
Keane J. M.	"R"	" " "
Keaynes E. B.	"R"	" " "
Johnce W.	"R"	" " "
Johnson James	"S"	" " "
Johnson Abner Jr.	"S"	" " "
Jefferson Lutz C. Kuchner Clerk	"S"	" " "
Mearner Eugene	"S"	" " "
Nilbury Charles A.	"R"	" " "
Lucas S. R.	"R"	" " "
Mark W. S. J. M. Taylor "agt"	"R"	" " "
{ Miller Frank "	"S"	Oct. 6 th 1892
{ Henry Miller "	"S"	
Anna Callen		
McKell J. S. H. M. Woodson "agt"	"S"	" 7 th 1892
McCullum Mary E.	"R"	" 5 th "
{ McCullum Henry,		
{ S. P. McCullum. "Guard"	"S"	" " "
McCullum S. P.	"S"	" " "
Crealy A. J.	"R"	" " "
Perby John	"R"	" " "
Rice Alfred	"S"	" " "
Taylor J. M.	"R"	" " "
Wambour Thomas	"S"	" " "
Wilson Jasper,	"S"	" " "

and further this deposes the said wt.

E. B. Paucah

Sworn to by E. B. Paucah before me, and by him subscribed in my presence, this 13th day of Oct. A. D. 1892.

W. C. Ward.
County Auditor.

Madison County Ditch Improvement Record.

Record of

David R. Lucas

Ditch Improvement No. 109

Commissioners Office, Madison County
London O. Oct 17th 1892

This day the Board of Commissioners of Madison County, met in Special Session, members present C. W. Scofield, A. C. Millikin and M. L. Rea,

In the matter of the County Ditch Improvement }
Petitioned for by David R. Lucas } Entry on Report of Engineer

Elmer Harvey the Engineer heretofore appointed in this matter having filed his report including the apportionment made by him of the costs of said improvement, and this being the time fixed by the Auditor for hearing said report and matter, and the Board of County Commissioners being in Special Session, C. W. Scofield, A. C. Millikin and M. L. Rea being present, the Board after proper examination do find that due notice with a statement of the said apportionment has been given for the length of time required by law, to all lot and land owners and to the authorities of all municipal and private corporations affected by said improvement notifying them of the pendency, substance and prayer of the petition for said improvement.

The Board find that no person has made application in writing for compensation and damages and that no person has made application in writing for a change or alteration in the line of said ditch through his premises.

The Board having heard the evidence and examined said report and apportionment of the Engineer, the further consideration of this matter is adjourned till Oct. 26th 1892 at 10 o'clock A. M. and the Board for their better information in this matter will meet at Gilliam on Oct. 24th 1892 at 10 o'clock A. M. and proceed to view the entire line of said improvement.

Upon the approval of all of the foregoing matter, the roll being called each of the Commissioners, Scofield, Millikin and Rea, agreed thereto.

C. W. Scofield }
A. C. Millikin } Commissioners of
M. L. Rea } Madison County this

W. C. March
Auditor and Clerk.

Madison County Ditch Improvement Record.

Record of

D. R. Lucas.

Ditch Improvement No. 109

Commissioners Office Madison County,
London Ohio. October 26th 1892.

This day the Board of Commissioners of Madison County, met in Special session, pursuant to adjournment of October 17th 1892, members present, A. C. Millikin & M. L. Rea.

In the matter of the County Ditch Improvement.

Petitioned for by D. R. Lucas & others.

The Board being in session as per adjournment of Oct. 17th 1892, A. C. Millikin & M. L. Rea being present and resumed the further consideration of said matter, the Board accompanied by Elmer Hearsey Engineer on this improvement having on Oct. 24th 1892 viewed the lines and premises affected by said improvement, it is ordered that the following changes be made in said improvement.

Change Lateral 11 at Station 453 running it through Miller land crossing pike into land of W. Jones to main ditch at about sta. 135 on main ditch.

Run a lateral from Geo. Grewell land through Thos. Pimmors land to main ditch about 300 ft. above pike.

Lateral 10 to be changed, starting on F. Burdell's land running through Saily's wood pasture to old line at station about Sta. 22. As lateral started on John Byrd's land, crossing road to a pond on Joe Taylor, then crossing pike at lateral 10 at about station 4.

Commence a lateral at the line of Geo. Boserell & run through the land of John Perry to a point in lateral 12.

The said Engineer is ordered to correct his report, profile & appropriation to conform with the above order.

Upon the approval of each of the several orders & findings in the above styled matter, the roll being called, each of the Commissioners, A. C. Millikin & M. L. Rea, agreed thereto.

The further consideration of this matter is adjourned till Friday Nov 11th 1892 at 10 o'clock A.M.

A. C. Millikin

M. L. Rea

} Commissioners of
Madison County, O.

W. C. Ward

Auditor & Clerk.

Madison County Ditch Improvement Record.

Record of

S. R. Lucas,

Ditch Improvement No. 109

Commissioners Office, Madison County
London O. Nov. 11th 1892

This day the Board of Commissioners of Madison County, met in Special Session pursuant to adjournment of Oct 26th 1892, Members present, O. W. Loofbrouwer, A. C. Millikin & M. L. Rea.

In the Matter of the County Ditch Improvement.
Petitioned for by David R. Lucas & others.

The Board being in Special Session as per adjournment of Oct. 26th 1892. O. W. Loofbrouwer, A. C. Millikin & M. L. Rea, being present and resumed the further consideration of this matter, the Board find that the Engineer has corrected his report, profile and apportionment, as per order of this Board of Oct. 26th 1892, after hearing the statements of various persons interested in this matter, the further consideration of this matter is adjourned till Monday Nov. 14th 1892.

Upon the approval of all of the foregoing matter, the roll being called, each of the Commissioners agreed thereto

O. W. Loofbrouwer
A. C. Millikin
M. L. Rea. } Commissioners of
Madison County

Auditor
W. C. Ward,
& Clerk.

Commissioners Office, Madison Co.
London O. Nov. 14th 1892.

This day the Board of Commissioners of Madison County, met in regular session, pursuant to adjournment of Nov. 11, 1892, Members present, O. W. Loofbrouwer, A. C. Millikin & M. L. Rea.

In the Matter of the County Ditch. }
Petitioned for by S. R. Lucas & others } Certify on Report of Engineer.

The Board being in regular session as per adjournment of Nov. 11 1892, O. W. Loofbrouwer, A. C. Millikin & M. L. Rea. being present and resumed the further consideration of this matter, the board having heard the evidence, examined said report & apportionment of the Engineer & the exceptions of John G. Sum, S. R. Lucas, & J. M. Taylor, do find that the said report and apportionment of the Engineer are not in all respects fair & just according to the benefits derived from the

Madison County Ditch Improvement Record.

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D. R. Lucas

Ditch Improvement No. 109

improvement by the owners of each lot and tract of land and by municipal and private corporations and railroad companies. It is therefore ordered that said report and apportionment be changed in the following particulars:

David Fitzgerald's assessment be	\$ 1195.10
Thomas Russell's	125.00
W. Jones	400.00
Frank Millers	802.47
John G. Surr's	528.00
George Grenell's	325.00
Thomas Pisonous.	510.00
Mrs. Henriett Gilberts	555.00
E. P. Heaynes	550.00
F. W. Humes	414.00
George Grenell's	202.34
A. J. Owealy	15.00
Jacob Oweas	40.00
James Gillivai's	450.00
John Penny	396.90
J. D. McKell	310.00
D. R. Lucas	1015.00
McCollum heirs	80.00
J. W. and Rosella Owealy	460.00
J. M. Taylor	2153.00
Madison County,	113.08

and that said report and apportionment as hereby changed be and the same are hereby approved and confirmed.

The Board met Wednesday the 28th day of December 1892 at 10 o'clock a.m. at Gillivai's P. O. in Jefferson township, Madison County, Ohio as the time and place for the sale of the constructions of said improvement at public outcry in sections of not less than one hundred (100) feet nor more than three hundred (300) feet in length and Elmer Hearse the Engineer heretofore appointed, being a competent Engineer is hereby directed to attend at the time and place of sale specified above to superintend and conduct the same.

The County Auditor is hereby directed to cause notice by advertisement by posters or hand bills for at least ten days prior to said day of sale. said Elmer Hearse Engr. is hereby required to enter into bond in the sum of \$5000.00 with sureties to the satisfaction of this board, conditioned for the faithful performance of his duties in this matter.

Upon the approval of each of the several orders and findings in the foregoing matter each of the Commissioners S. J. Brown, William H. Rea. agreed thereto.

Approved unanimously.

Madison County Ditch Improvement Record.

Record of

D. R. Lucas,

Ditch Improvement No. 109.

O. W. Loofbrouwer,
H. M. McKim,
M. L. Rea. } Commissioners of
Madison County, Ohio.

W. L. Ward,
Auditor ^{and} Clerk.

Auditors Office, Madison County, Ohio.
London December 28th 1892.

In the matter of Ditch Improvement }
Petitioned for by D. R. Lucas & others. } Report of Sale of the Labor of
Construction.

To the Honorable Commissioners Madison County, Ohio.

Gentlemen: In obedience to your direct-
ion and also in pursuance of the notice, duly given by the Auditor,
of the sale of the work of constructing the above styled improvement,
at the time and place therein specified, I offered the said sever-
al working sections for sale to the lowest responsible bidder at public
 outcry, and sold the same to the persons herein after named, at the
prices herein stated, and took their contracts and bonds, respect-
ively conditioned according to law, and return the same herewith
for your approval.

To Whom Sold.

File for.	To Whom Sold.	Amount Sold for.		Estimated Amount.		When to be Completed.
		\$	¢	\$	¢	
Entire Ditch.	DeLeonare Lely Mfg. Co.	6,825.	00	7,423.	48	Sept. 15 th 1893
Cutting, laying and filling of the entire tile ditch & the grubbing & deciden- ing on Sec. 1, Lot 2, 3, 4, to Lot 10	Malachy Riley	3,460.	00	3,778.	26	Sept. 15 th 1893.
cutting open ditch	Thomas Rowan	570.	00	800.	00	June 1 st 1893.
stone wall at outlet of tile	Thomas Rowan	\$2.00	per perch in place.			July 1 st 1893
grubbing on Sullivan Land	E. B. Hayes.	10.	00	15.	00	August 1 st 1893
filters along pipes	E. B. Hayes.	\$0.69	per cu. yd in place			Sept. 15 th 1893
grubbing on Jefferson Twp.	Abner Johnson	9.	50	10.	00	May 20 th 1893