

*Kenton C. Ward, CFM*  
Surveyor of Hamilton County  
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Suite 188  
One Hamilton County Square  
Noblesville, Indiana 46060-2230

### ***Map Correction-Field Verification***

**Drain Number:** #1

**Drain Length:** N/A

**Drain Name:** Amos Underwood Arm

**Change + / - :** N/A

**Date:** 09-18-2015

**New Length:** N/A

**Verified By:** SLM/SAB

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**Notes & Sketch:** See WO-2015-00348 Map is attached.

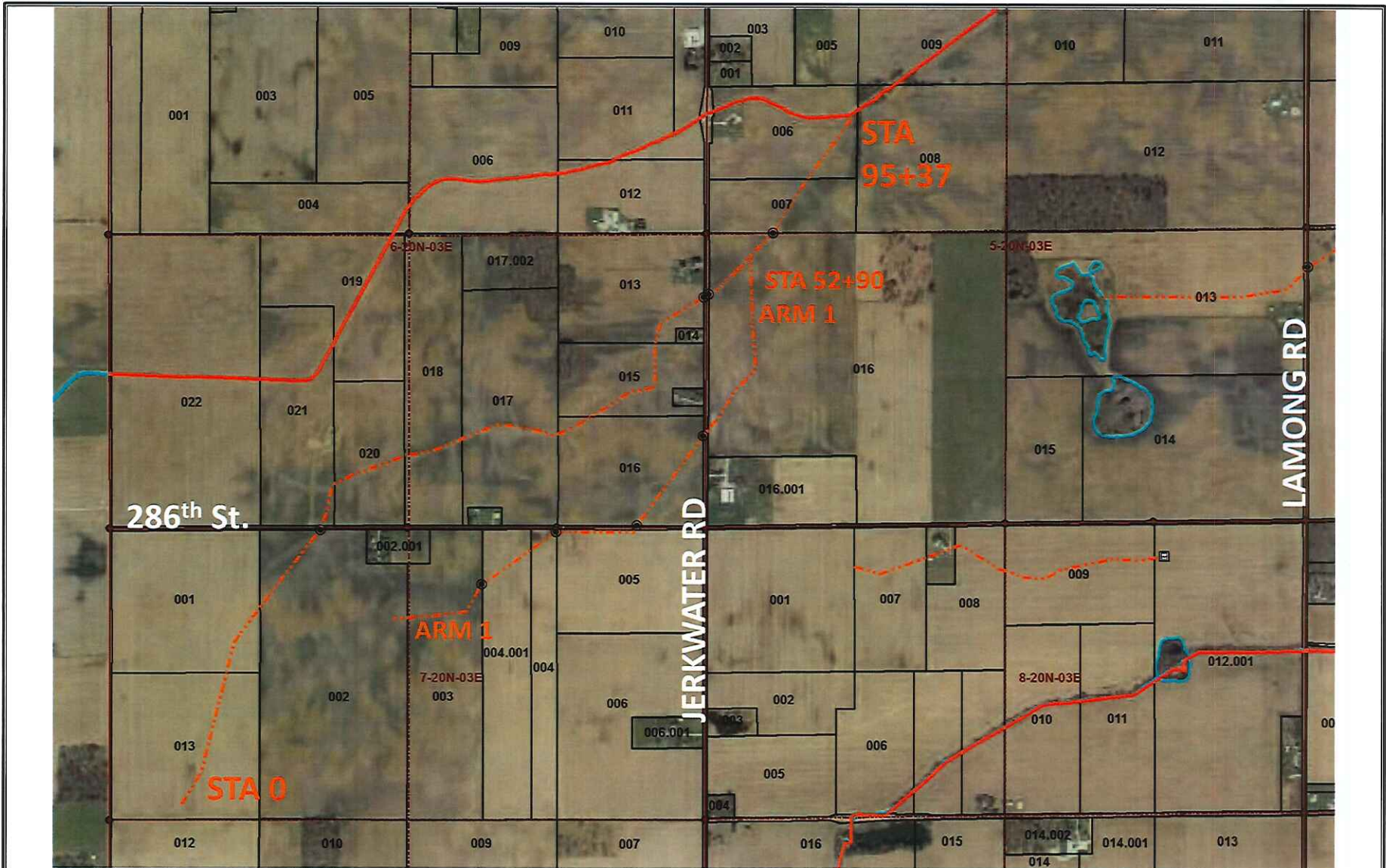
Based upon a recent issuance of a work order it was discovered that the Amos Underwood was mapped incorrectly.

Station 0 of the main tile is described as beginning in the SW Quarter of the Northwest Quarter of Sec. 07 R 20N 03E. The map had reflected Station 0 beginning in the NW Quarter of The Southwest Quarter of 07 R 20N 03E.

Therefore, the map was corrected based upon the legal description, Orthophotography, Topo, field investigation and previous work-orders. It should be noted that the legal description calls for Arm 1 to be 5190 feet in length. Per Steve Baitz the outlet of the tile is further downstream of Sta. 78 of the main tile. Therefore, this adds approximately 100 feet of the drain to Arm 1. Therefore, it is reflected as 5290 feet of drain. This is what is reported for GASB 34 and was actually shown that way on the 1981 map. Therefore, the length of the drain was not altered for this map correction.

**Suzanne L. Mills**  
GIS Specialist





## #1 MATTHEWS-UNDERWOOD DRAIN AMOS UNDERWOOD ARM



This map was compiled by the Hamilton County Surveyor's Office. Although strict accuracy standards have been employed in the compilation of this map, Hamilton County does not warrant or guarantee the accuracy of the information contained herein and disclaims any and all liability resulting from any error or omission in this map.

Printing Date: 07/02/2015  
 Prepared By: Suzanne Mills, GISP  
 Hamilton County Surveyor's Office  
 One Hamilton County Square, Ste 18E  
 Noblesville, IN 46060  
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**Gasb 34 Footages for Historical Cost  
Drain Length Log**

Drain-Improvement: MATHEWS ? UNDERWOOD - AMOS UNDERWOOD

Drain Type:	Size:	Length	Length (DB Query)	Length Reconcile	Price:	Cost:
TILE	8"	1200'	1200'		2 <sup>00</sup> = 1/f	2400 <sup>00</sup> =
	10"	700'	700'		3 <sup>00</sup> = 1/f	2100 <sup>00</sup> =
	2x10"	2145'	2145'		3 <sup>00</sup> = 1/f	12,870 <sup>00</sup> =
	2x12"	2330'	2330'		4 <sup>00</sup> = 1/f	18,640 <sup>00</sup> =
TILE - ARM 1	8"	2525'	2525'		2 <sup>00</sup> = 1/f	5050 <sup>00</sup> =
	2x10"	2765'	2765'		3 <sup>00</sup> = 1/f	16,590 <sup>00</sup> =

Sum: 11,665' 11,665' \$ 57,650<sup>00</sup> =

Final Report: \_\_\_\_\_

Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

State of Indiana, Hamilton County, ss:

We, the undersigned, Commissioners of Drainage, swear that we have each personally examined each tract of land assessed for benefits and damages and the whole route of the proposed work, and that such drain is of sufficient capacity to carry, without overflowing, all the water which flows or should flow along such route; that no other lands than those described in this report will be either benefited or damaged by the construction of the proposed work, and that all the statements therein are true and correct, and that all assessments of benefits and injuries set forth therein are correct, just, fair and equitable to all parties concerned, as we verily believe.

Eli Stalker  
J. Cunningham  
James B. Baker } Commissioners.

Subscribed and sworn to by said Commissioners, this 20 day of Sept, 1890, before me. Ira W. Christian  
Clerk Circuit Court.

No 85238

REPORT OF COMMISSIONERS  
FAVORABLE.

Recorded in 213. 20  
Pages 395 to 405

Filed Sept 20, 1890  
Ira W. Christian  
Clerk Circuit Court.

Wm. B. Burford, Printer, Indianapolis.

## REPORT OF COMMISSIONERS.

To the Honorable Judge of the Hamilton Circuit Court:

The undersigned, Commissioners of Drainage, to whom was referred the petition of Amos Underwood et al for the drainage of the North West Quarter of Section 7 Township 20 North Range 3 East and the West half of the North East Quarter Section 7 Township 20 North Range 3 East. And the South West Quarter Section 5 Township 20 North Range 3 East,

in Hamilton County, respectfully report that they have inspected personally all the lands described in said petition, and all other lands liable to be affected by the construction of the proposed work, and are of the opinion that the proposed drainage will be of public utility, a benefit to the health of the neighborhood, and will benefit two public highways, and that the cost of the same will be less than the aggregate benefits.

And after making the necessary surveys and examinations, are of the opinion that the method of drainage should be as follows,

See third page

They estimate the cost of constructing the work at \$ 2241.37 dollars. They further report that they have estimated the benefits and injury to the

several tracts of land which will be affected by the work, as follows:

OWNERS.	DESCRIPTION.	S.	T.	R.	Acres.	Injury.	Benefit.
Jno. P. George	SE	NW	5	20	3 40		\$36.
William Smith	SW -	NW	5	20	3 40		30.
Same	NE	SE	6	20	3 40		60. } 90.
Amos Underwood.	NW	SW	5	20	3 40		160.
Same	SW	SW	5	20	3 40		160.
Same	NE	SW	5	20	3 40		60. } 422
Same	SE	SW	5	20	3 40		42.
George Ruston	SE	SE	6	20	3 40		300.
Miles V. Harris	SW	SE	6	20	3 40		300.
Same	NW	SE	6	20	3 40		45. } 345
Jane Wilson	SE	SW	6	20	3 40		125.
James W. Osborn	NW	NW	8	20	3 40		75.
Same	pt SW	NW	8	20	3 13 1/2		7. } 82.
Geo. N. Phares	pt SW	NW	8	20	3 2 1/2		3.
David M. Murtry	NE	NE	7	20	3 40		120.
Same	SE	NE	7	20	3 40		22. } 144
Ed & Char Thistlethwait	NW	NE	7	20	3 40		200.
Same	SW	NE	7	20	3 40		60.
Same	NE	NW	7	20	3 40		200.
Same	SE	NW	7	20	3 40		120. } 900.
Same	NW	NW	7	20	3 40		120.
Same	SW	NW	7	20	3 40		200.
North Adams Township Gravel Road	NW	SE	1/6	20	3		20.
Adams Township Pub. Highway	SE	SW	1/7	20	3		35.
Total Assessment.							\$2500.00

By the Construction of a ditch

Commencing about twenty <sup>330'</sup> rods north and  
thirty rods east of the South West Corner of the  
South West Quarter of the North West Quarter of  
Section 7. Township 20 North Range 3 East.

Running Thence N 40° E 350 feet Thence  
N 14° E 1150 feet Thence N 30° E 400 feet  
Thence N 40° E 800 feet Thence N 25° E 300 feet  
Thence North 325 feet Thence N 50° E 75 feet  
Thence N 60° E 200 feet Thence N 84° E 700 feet  
Thence N 65° E 450 feet Thence N 75° E 100 feet  
Thence N 85° E 575 feet Thence N 50° E 75 feet  
Thence N 65° E 300 feet Thence N 30° E 200 feet  
Thence N 62° E 200 feet Thence N 50° E 200 feet  
Thence N 5° E 500 feet Thence N 60° E 500 feet  
Thence N 45° E 800 feet Thence N 25° E 400 feet  
Thence N 70° E 550 feet Thence North 615 feet.

Terminating in the ditch known as the  
McMath Ditch about <sup>330'</sup> 20 rods south of the  
North West Corner of the South East Quarter  
of the North West Quarter Section 5 Township  
20 North Range 3 East.

Said Main ditch to be diled with one row  
of 8 inch tile from State 0 to State 12 and  
one row of 10 inch tile from State 12 to State 19  
and two rows 10 inch tile from State 19 to ~~State 40~~ 45 ft. below State 40  
and two rows 12 inch tile from 45 ft below State 40 to State 64

Balance of said main ditch to be an open  
ditch two feet wide in bottom, and banks  
to be given a slope of 4-5°. All earth &c  
removed to be deposited not nearer than  
two feet from banks of ditch.



Also an arroyo commencing about twenty <sup>330'</sup> rods North and twenty rods <sup>330'</sup> east of the South West Corner of the North West Quarter of the North East Quarter of Section 7 Township 20 North Range 3 East - Running  
Thence N 85° E 600 feet. Thence N 80° E 100 feet  
Thence N 40° E 600 feet. Thence N 50° E 400 feet.  
Thence N 60° E 100 feet. Thence East 750 feet.  
Thence N 35° E 1250 feet. Thence N 20° E 300 feet.  
Thence N 51° E 150 feet. Thence N 22° E 80 feet  
Thence N 30° W 170 feet. Thence N 10° W 350 feet.  
Thence N 5° W 340 feet. Terminating in Main Ditch at Stake 78. About <sup>495'</sup> 30 rods South, and 30 rods East of the North West Corner of the North West Quarter of the South West Quarter. Said arroyo to be tiled with one row 8 inch tile from Stake 0 to Stake 25+25 feet and two rows 10 inch tile from Stake 25+25 feet to the terminus. The bottom of ditch where tile is used to be evenly surfaced, tile laid and ditch left open until inspected then covered by filling the ditch.  
There is to be a man hole at Stake 40+45 feet on Main Ditch, and one at side of road at Stake 25+25 feet on Arroyo to be constructed of a circular wall of large boulders, and about 18 inch in diameter across the man holes. Also there are to be a Header Constructed of stone or boulders, at the Mouth of the Tile in Main Ditch & also in Arroyo. Same to be laid around the tile and as high as the banks to prevent washing.

# Engineer's Report of Underwood Ditch.

No. of Station.	Depth of Cut.	Width on Top.	Width in Bottom.	No. of Cubic Yards to be Removed.	Price per Cubic Yard.	Total Cost per Station.
8 B.W.	4.60					
0.	3.0 ft					
1.	3.4 "			15	12 1/2	\$1.35
2.	3.5 "			16	"	1.50
3.	3.8			17	"	1.65
4.	4.0			18	"	1.80
5.	4.5			19	"	1.90
6.	4.4			21	"	2.25
7.	5.5			22	"	2.40
8.	4.6.			24	"	2.70
9.	4.5			21	"	2.25
9 B.W.	5.30					
10.	4.1			20	"	2.10
11.	4.7			20	"	2.10
12.	4.1			20	"	2.10
13.	3.8			22	"	2.20
14.	3.9			21	"	2.05
15.	3.7			21	"	2.05
16.	4.3			22	"	2.20
17 B.W.	5.05					
17.	4.6			24	"	2.50
18.	4.1			24	"	2.50
19.	4.3			23	"	2.30
20.	3.9			22	"	2.10
21.	3.6			21	"	2.05
22.	3.5			19	"	1.95
23.	3.9			20	"	2.00
24.	3.4			20	"	2.00
25.	3.3			18.	"	1.80
26.	3.4			19.	"	1.95
27.	3.6			19.	"	1.95
28.	3.6			20	"	2.00

Remove oak stump about 10 feet east of 9.

Remove Oak stump about thirty feet east of stake 9.

Red oak stump about twenty & ten feet East of 16.

No. of Station.	Depth of Cut.	Width on Top.	Width in Bottom.	No. of Cubic Yards to be Removed.	Price per Cubic Yard.	Total Cost per Station.
Bill	4.53	Swampy Ash Stumps about twenty ft South & five West of 28.				
29	3.5			19	12 1/2	\$16.65
30	3.2			25	"	17.55
31	2.8			28	"	17.95
32	2.7			25	"	17.55
33	2.5			25	"	17.55
34	2.3			24	"	17.40
35	2.6			23	"	17.25
36	2.6			21	"	17.40
Bill	3.82	Colum about twenty five East of 36				
37	3.8			21	"	16.95
38	3.4			22	"	17.10
39	3.6			22	"	17.10
40	3.4			22	"	24.30
41	3.1			24	"	25.80
42	3.1			26	"	26.10
43	3.9			26	"	26.10
44	3.3			26	"	26.10
45	3.7			26	"	26.10
46	3.2			26	"	26.10
47	3.7			26	"	26.10
48	4.3			26	"	26.10
49	4.0			46	"	29.10
50	5.2			50	"	29.70
51	4.6			26	"	26.10
52	4.7			28	"	26.40
53	4.8			28	"	26.40
54	4.9			28	"	26.40
Bill	5.30	Wicketory about ten feet East & five feet North 54				
55	10.4			28	"	26.40
56	5.3			28	"	26.40
57	5.5			28	"	26.40

615  
28.50

No. of Station.	Depth of Cut.	Width on Top.	Width in Bottom.	No. of Cubic Yards to be Removed.	Price per Cubic Yard.	Total Cost per Station.
58	5.0			28	12 1/2	26.40
59	5.1			28	"	26.40
60	5.1			28	"	26.40
61	4.6			28	"	26.40
62	4.8			28	"	26.40
63	4.1			28	"	26.40
64	3.9			28	"	29.40
65	4.3	10.6	2 Feet	73	15	10.95
66	4.3	10.6	"	77	"	11.55
67	4.2	10.4	"	77	"	11.55
68	4.0	10.0	"	70	"	10.50
69	3.8	9.6	"	66	"	9.90
70	4.3	10.6	"	74	"	11.10
71	4.0	10.0	"	74	"	11.10
72	4.0	10.0	"	72	"	10.80
73	3.7	9.4	"	68	"	10.20
74	2.0	6.0	"	59	"	8.85
75	3.5	9.0	"	59	"	8.85
76	3.3	8.6	"	53	"	7.95
77	3.4	8.8	"	53	"	7.95
78	2.7	7.4	"	45	"	6.75
79	3.3	8.6	"	45	"	6.75
80	3.1	8.2	"	52	"	7.80
81	3.0	8.0	"	49	"	7.35
82	3.2	8.4	"	49	"	7.35
83	2.8	7.6	"	46	"	6.90
84	3.2	8.4	"	46	"	6.90
85	3.0	8.0	"	46	"	6.90
86	3.2	8.4	"	46	"	6.90
87	3.0	8.0	"	46	"	6.90
88	2.7	7.4	"	43	"	6.45

98  
256  
38

No. of Station.	Depth of Cut.	Width on Top.	Width in Bottom.	No. of Cubic Yards to be Removed.	Price per Cubic Yard.	Total Cost per Station.	
1311	3.10	Barren Oak about eight feet east of 88					
89.	2.10	7.2	2 feet	43	15	\$6.45	
90	3.0	8.0	"	43	"	6.45	
91.	2.9	7.8	"	43	"	6.45	
92.	2.4	6.8	"	38	"	5.70	
93	2.10	7.2	"	38	"	5.70	
94	3.1	8.2	"	35	"	5.25	
95	3.5	9.0	"	35	"	5.25	
96	3.6	9.2	"	35	"	5.25	
97	4.5	11.0	"	35	"	5.25	
97+65	( )			26	"	3.90	
				<u>3309</u>		<u>1437.05</u>	
Total No. Cu yds				3309	Total Cost	\$1437.05	



# Ann to Underwood Ditch

No. of Station.	Depth of Cut.	Width on Top.	Width in Bottom.	No. of Cubic Yards to be Removed.	Price per Cubic Yard.	Total Cost per Station.
70	3.4					
71	4.45	Clay soft east of station				
done 1	3.4			19.	12 1/2	9.60
2	3.5			19	"	9.75
3	3.6			19	"	9.75
A 4	4.0			21	"	10.05
5	4.4			23	"	10.35
6	3.9			23	"	10.35
7	3.7			21	"	10.05
8	3.6			20	"	9.90
9	4.4			22	"	10.20
10	5.1			26	"	10.80
11	4.9			27	"	10.95
12	4.6			26	"	10.80
13	4.9			26	"	10.80
14	5 1/2	Swampy Ash.		East of 13		
14	4.9			27	"	10.95
X 15	4.6			26	"	10.80
+16	4.5			25	"	10.65
17	3.9			23	"	10.35
18	3.8			21	"	10.05
19	4.8			24	"	10.50
20	4.7			26	"	10.80
21	4.2			24	"	10.50
22	4.3			24	"	10.50
23	5.4			26	"	10.80
24	5.0			29	"	11.25
25	6.10	Sycamore South of feet				
+25	3.8			24	"	10.50
26	3.5			28	"	19.27
27	3.4			32	"	18.60
28	4.1			34	"	18.90

6 20 per wk

6 30 water

6 40 water

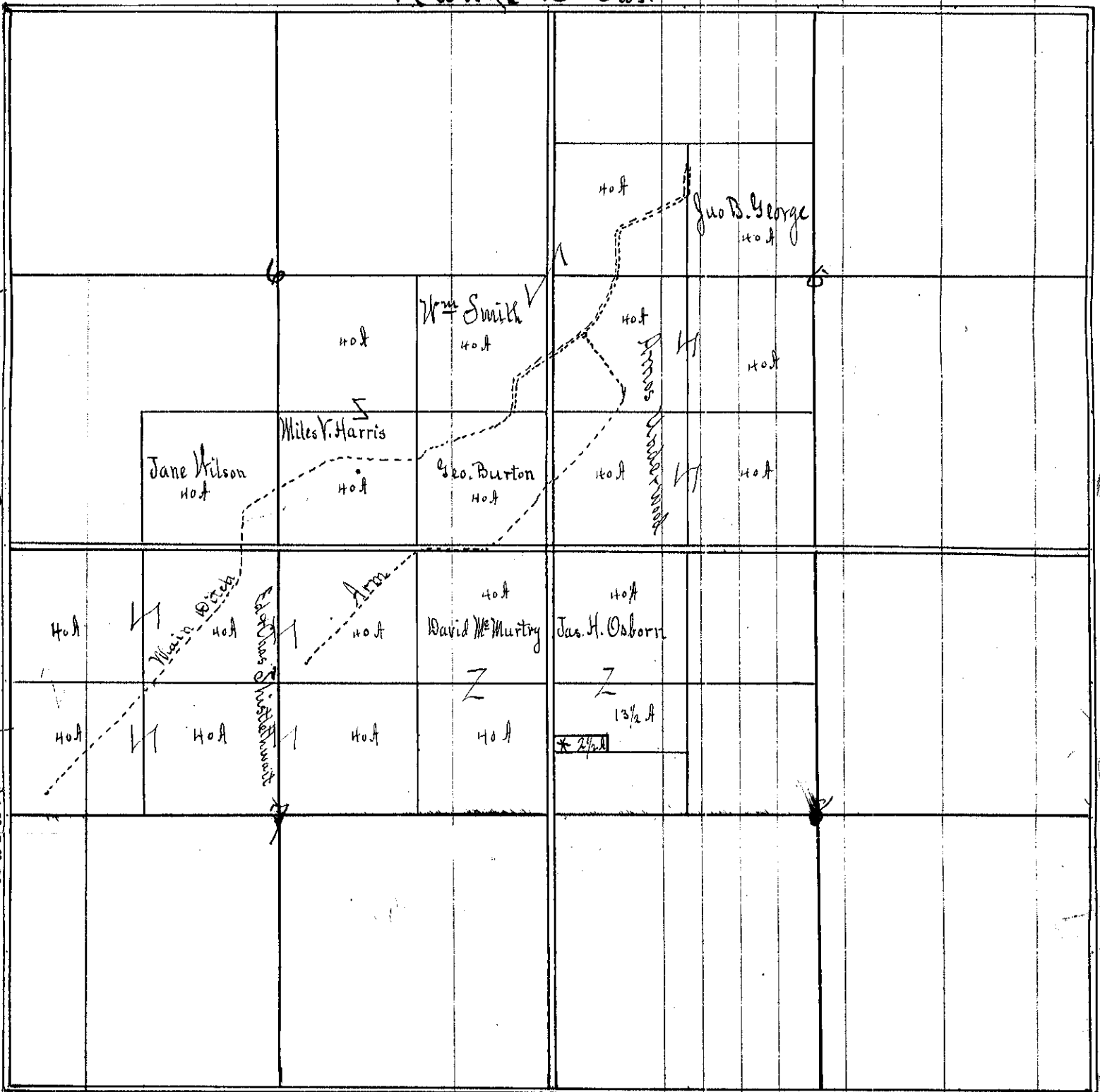
No. of Station.	Depth of Cut.	Width on Top.	Width in Bottom.	No. of Cubic Yards to be Removed.	Price per Cubic Yard.	Total Cost per Station.
29.	4.4			39	12 <sup>1</sup> / <sub>2</sub>	\$19.65
30.	4.2			40	"	19.80
31.	4.2			39	"	19.65
32.	3.7			36	"	19.20
33.	3.8			35	"	19.05
34.	4.0			36	"	19.20
35.	3.6			35	"	19.05
36.	3.6			33	"	18.75
37.	3.6			33	"	18.75
38.	3.6			33	"	18.75
39.	3.4			32	"	18.60
40.	3.3			30	"	18.30
41.	3.2			30	"	18.30
42.	3.1			28	"	18.00
43.	3.1			28	"	18.00
44.	3.0			27	"	17.85
45.	3.2			28	"	18.00
46.	3.4			30	"	18.30
Arm	3.75	Barren Oak 75 feet east				325 4.25 4.00
47.	3.0			29	"	18.15
48.	3.1			28	"	18.00
49.	2.9			27	"	17.85
50.	2.6			23	"	17.25
51.	2.7			22	"	17.10
52.	2.9			23	"	17.25
52+90	2.7			20	"	18.65
Ditto Main Ditch at Stake 78.						
Total No. Cu yds				1448	Cost of Arm	\$ 779.22
" " " Main Ditch				3399	" " Main Ditch	1437.05
Total Cu yds				4847	" " Entire Ditch	\$ 2216.27
Grub & Clear						25.00
Total Estimate =						\$ 2241.27

No. of Station.	Depth of Cut.	Width on Top.	Width in Bottom.	No. of Cubic Yards to be Removed.	Price per Cubic Yard.	Total Cost per Station.	
<u>Estimate of Cost.</u>							
	Excavating	1769		Cu. Yds	@ 15¢	= \$265.35	
	Excavating	2988		" " "	12½¢	= 373.50	
	Cost on Ditch			2 rd. 8 in. Tile @	80¢	= 57.60	
	" " "			789½ " 10 " " @	\$1.10	= 868.45	
	" " "			282 " 12 " " @	1.80	= 507.60	
	Laying in Ditch			1143½ " Tile @	5¢ per rod	57.17	
	Filling Ditch			2988 Cu yds @	2½¢	" " 74.70	
	Cost two Man Holes			@ 3.00 =		6.00	
	" " Headers			@ 3.00 =		6.00	
	Grubbing & Clearing			=		25.00	
	<u>Total Estimated Cost</u>						<u>\$2241.37</u>

C. J. Cattingham  
Engineer.

Clinton County  
Range 3 East

Clinton County  
Township 19



\* G. J. Pharis

A Plat of Amos Underwood Drain,  
and the land it drains

All of which is respectfully submitted.

Eli Stalker  
J. J. Cunningham  
James B. Baker

Commissioners.