Drain: MARION BLANTON   **Drain #:** 9

Improvement/Arm: _____

Operator: J. LIVINGSTON   **Date:** 10-23-03

Drain Classification: Urban/(Rural) **Year Installed:** 1911

GIS Drain Input Checklist

- Digitize & Attribute Tile Drains   _jw_

- Digitize & Attribute Storm Drains   _N/A_

- Digitize & Attribute SSD   _N/A_

- Digitize & Attribute Open Ditch   _jw_

- Sum drain lengths & Validate   _jw_

- Enter Improvements into Posse   _jw_

- Enter Drain Age into Posse   _jw_

- Sum drain length for Watershed in Posse   _jw_

- Stamp Plans   _jw_

- Pull Source Documents for Scanning   _jw_

Gasb 34 Footages for Historical Cost
Drain Length Log

Drain-Improvement: MARION BLANTON (1911)

Drain Type:	Size:	Length ( )	Length (DB Query)	Length Reconcile	Price:	Cost:
TILE	7"	1000'	1000'		2.⁰⁰/lf	2000.⁰⁰
	8"	1400'	1400'		2.⁰⁰/lf	2800.⁰⁰
	10"	160'	160'		3.⁰⁰/lf	480.⁰⁰
	12"	1064'	1064'		4.⁰⁰/lf	4256.⁰⁰
	14"	2236'	2236'		4.²⁵/lf	9503.⁰⁰
*	20"	4016	4016'		8.⁰⁰/lf	32,128⁰⁰
ARM 1 - TILE	8"	1123'	1123'		2.⁰⁰/lf	2246.⁰⁰
ARM 2 - TILE	15"	2700'	2700'		5.⁰⁰/lf	13500.⁰⁰

Sum: 13,699   13,699 _____   ⁂ 66,913

Final Report: _____

Comments:

THE STATIONING DOES NOT MATCH THE LENGTH OF THE DRAIN. THERE
ARE 876' UNREGULATED THROUGH A GRAVEL PIT THAT ARE
INCLUDED IN THE STATIONING. WHEN YOU ADD 376' TO THE ABOVE
LENGTH AND THE LENGTHS OF THE IMPROVEMENTS THE STATIONING
RESULT IS THE SAME AS THE STATIONING.

* Adjusted for phase 3 Reconstruction - removed 624' of tile (20").

Copy

Viewers Report.

Marion Blanton

Drain

FILED

JAN - 6 1911

G. F. Wall

Clerk of Hamilton County.

(11)

STATE OF INDIANA, } SS:-
HAMILTON COUNTY,

IN THE MATTER OF THE MAHDON BLANTON et-al

DRAIN.   No. 15729.

Report of the Drainage Commissioners and Engineer.

To the Honorable Judge of the Hamilton Circuit Court.

The undersigned drainage commissioners and Engineer to whom was referred the above entitled petition for the drainage of certain lands in Jackson Township, Hamilton County, Indiana, would respectfully report that on the 17th day of August 1911 we met at the head of the proposed drain and proceeded to Survey and lay out said drain and examine the lands to be drained by said proposed drain, We would report that we have definatelly determined the best and cheapest method of draining said lands and fixed the route, location and character of the proposed work and fixed the same by metes and bounds, courses, distances and descriptions, grades and bench marks so as to provide for the complete drainage of the lands affected by the proposed work.

We have divided the work into sections of not more than 100 feet in length and have computed and set out the number of cubic yards of excavation in each station and have assessed the benefits to each seperate tract of land and to the proper Township, where Highways are benefited, We have fixed the beginning and outlet of said drain so as to secure the best results and cause the least possible injury to the lands affected and so as to benefit the public highways.

We believe the drain when completed will be practicable, that the public health will be improved; that two ^or more. public Highways wil be benifited, that the ditch will be of public utillity and that the cost and expense of constructing said drain will be less than the benefits to the land s assessed for the construction, that the best and cheapest method of securing said drainage is by a Main Ditch and two Arms or branches described and located as follows:-

PROFILE PAPER.

Main 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.	
98	4.15			33			
99	4.79			33			
100	4.71			33			
101	4.46			32			
102	5.66			32			
103	5.85			32			
104	5.62			30			
105	6.06			30			
106	5.81			30			
107	6.08			30			
108	5.63			30			
109	5.33			30			
+35	6.00						
110	5.48			45			
111	5.65			52			
112	5.00			50			
113	5.41			48			
114	5.41			50			
115	4.86			48			
116	4.58			44			
117	4.87			44			
118	4.48			43			
119	4.80			42			
120	4.66			43			
122	4.98			39			
				923			

PROFILE PAPER.

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.	
	Arm no One						
0	3.29						
1	3.29			18			
2	3.39			18			
3	3.39			19			
4	3.44			19			
5	3.87			20			
6	3.79			21			
7	3.40			20			
8	3.31			19			
9	3.27			18			
10	3.88			20			
11	3.79			21			
+23	3.64			5			
				218			

PROFILE PAPER.

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.	
		Arm no Two					
0	3.66						
1	3.72			27			
2	3.96			28			
3	4.16			30			
4	7.31			43			
5	509			46			
6	4.44			35			
7	4.32			32			
8	4.23			31			
9	4.76			33			
10	5.91			28			
11	6.10			29			
12	6.49			23			
13	5.77			24			
14	6.67			25			
15	7.96			25			
16	6.79			26			
17	6.28			27			
18	6.03			27			
19	7.89			26			
20	6.79			27			
21	6.66			28			
22	6.67			29			
23	7.00			31			
24	5.26			35			
25	6.92			36			
26	7.25			32			
27	6.92			32			

ESTIMATED COST

```
5834 feet    20 inch drain tile,.................................$ 1954.40

2708   "     15  "    "      "  ,.................................  446.82

2236   "     14  "    "      "  ,.................................  335.40

 966   "     12  "    "      "  ,.................................   91.77

  30   "     10  "    "      "  ,.................................   1.98

1178   "      8  "    "      "  ,.................................   56.55

 300   "      7  "    "             ..............................   10.80

  18   "     20  "  Vitrified Sewer Pipe, .......................   12.96

1- V  Branch   20 inch with two 15 inch inlets, ................    5.00

1 - Y   "      15   "   "   One 8  "  inlet , ...................    2.50
```

2 - Concrete Connecting Boxes 2 feet by 2 feet by 6 feet inside
measure, with 6 inch walls, covered with concrete slab 4 inches
thick, 3 feet wide and 7 feet long, and 4 inch concrete floor,   30.00
1 - Concrete retaining wall at station 66+74, 2 feet thick 10
feet high and 10 feet long , ...   25.00
1 - Concrete Wall at station 70+50, with wings and grate,
dimensions of wall 2 X 10 X 10 feet , ...   35.00
1 - Concrete Retaining Wall 2 X 6 X 10 feet at station 120+88,   20.00
4000 feet Lumber (common) 1 inch by 12 inches by 12 feet,   100.00
4812 cubic yards Excavation and Fill , ,,, ...   1443.60
Deadning and Grubbing, ...   10.00

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                            Total Estimated Cost,  ........... $ 4581.78
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     We claim for our services in locating, viewing, surveying
and making estimate abd reporting, the following,

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A.L.Barnett,   Viewer .....................$ 18.00

John Hoskins     "    .......................  21.00

Marion Blanton  Axman .....................     4.50

J.S.Shannon,  Engineer,for self and helpers 62.00          $ 105.50

         Estimated for  Attorney fees                        200.00

              "      "   Superintendent of Construction      100.00

              "      "   Printing and other expenses          65.12
                                                          $ 5052.40
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STATE OF INDIANA.
                      SS:-
HAMILTON COUNTY.

          We the undersigned Drainage Commissioners and
Surveyor of Hamilton County, Indiana, to whom was refered the above entitled
for report after first being duly sworn upon his oath says that we have
personally examined each tract of land as set out in this report, and that
we have examined the whole line of route of the proposed drain and that no
lands other lands than the above set out and described will be benifited or
injured by said drain, and that the above report is true in substance and
in fact as we each verily believe.

          ....

          ....
                         Drainage Commissioners.

....
               Engineer.
     Subscribed and sworn to before me this the ....day of............
............................1911.

                    ....
                              Clerk Hamilton Circuit Court.

MAIN DITCH.   LOCATION.

Beginning 682 feet north of the South West corner of the North East Quarter of the South East Quarter of Section 28, Township 20, North of Range 4 East in Hamilton County, Indiana, Run thence south 57° east 700 feet? thence south 69° east 100 feet, thence east 200 feet, Thence south 66° east 500 feet, thence south 25½° east 100 feet, thence south 960 feet, thence ᵐᵘ south 51½° west 441 feet, thence south 31° west 100 feet, thence ᵡᵡᵐᵐᵡᵡ south 27° west 926 feet, thence south 3° east ᵡᵡᵐᵡ 965 feet, thence south 39½° west 895 feet, thence south 690 feet, thence south 49° east 135 feet, thence south 56½° east 365 feet, thence south 51° east 350 feet, thence ᵐᵘᵘᵡᵘᵡ east 600 feet, thence north 87° east 100 feet, thence north 76½° east 100 feet, thence south 80° east 100 feet, thence south 25° east 327 feet, thence east 511 feet, thence south 44° east 962 feet, thence south 63° east 835 feet, thence south 43° east 1152 feet and terminating at a point 530 feet east and 788 feet south of the north west corner of the north east quarter of section 3, Township 19, north of range 4 east.

ARM NO 2.

Beginning 880 feet south and 515 feet west of the center of Section 33, Township 20, north of range 4 east in Hamilton County, Indiana, Run thence north 24° east 400 feet, thence north 14° east 560 feet, thence north 32° east 250 feet, thence thence north 70° east 200 feet, thence north 88½° east 1200 feet, thence south 67° east 100 feet and terminating at stake 58+60 on said Marion Blanton et-al drain Main Ditch.

Arm No 1.

Beginning 496 feet east, *and 15 ft North.* of the south west corner of the north west quarter of the south west quarter of section 27, Township 20, north of range 4 east in Hamilton County, Indiana, Run thence south 25° west 1123 feet and terminating at stake 25+60 on said Marion Blanton et-al Drain, Main Ditch.

REQUIREMENTS.

Retaining Wall.

At station 66+7½ shall be constructed a Concrete Retaining Wall two feet wide, ten feet long and ten feet high.

The mixture of the Concrete shall be one part portland Cement to five parts sand and gravel of an approved quality, Said wall to be built in forms so that when completed the wall will have a neat and smooth finish and so constructed as to recieve the tile at the proper grade, two feet above the base of the wall.

At station 70+50 shall be constructed a Concrete Retaining Wall two feet wide, ten feet long and ten feet high.

The mixture of the Concrete shall be one part Portland Cement to five parts sand and gravel of an approved quality, Said wall to be built in forms so that when completed the wall will have a neat and smooth finish and so constructed as to recieve the tile at the proper grade, two feet above the base of the wall, A grate or screen shall be constructed from 8 -one inch iron rods inserted in the wall to the depth of 15 inches, six inches above the tile and the portion of the rods extending outside of the wall to be bent to an angle of 45° and to be long enough to extend 4 inches below the grade line of tile, The rods to be so placed so as to form a screen or grate over the end of the tile.

At station 130+8½ shall be constructed a Concrete retaining Wall two feet wide, ten feet long and six feet high.

The mixture of the Concrete shall be one part portland Cement to five parts sand and gravel of an approved quality, Said wall to be built in forms so that when completed the wall will have a neat and smooth finish and so constructed as to recieve the tile at the proper grade, two feet above the base of the wall.

Concrete Box.

At station 25+60 there shall be constructed a Concrete Connecting box two by two by six feet inside measurements with walls six inches thick and to be covered by a Concrete Slab three feet wide, seven feet long and four inches thick, said box to have a Concrete floor four inches thick.

The mixture of the Concrete shall be one part portland Cement to five parts sand and gravel of an approved quality. Said Box to be built so as to

receive and discharge the tile at the proper grade.

On Arm No. 2 at station 0 there shall be constructed a concrete connecting Box 2'X 2' X 6' inside measurements, with walls 6" thick and to be covered with a concrete slab 3' wide ,7' long and 4" thick and floored with a concrete floor 4" thick.

The mixture of the concrete to be one part Portland cement to five parts sand and gravel of an approved quality. Said box to be so built as to receive and discharge the tile at the proper grade.

TILE.
The Main Ditch to consist of,

One row of 7 inch drain tile from station 0 to station 3   300 ft.

From station 3 to station 24 tile in place and accepted, the size of which are 7" to stake 10, 8" from 10 to 24.

From station 24 to station 25+60 the tile in place are to be taken up and replaced to the new grade, and 50 feet of 10" tile have been estimated to supply the breakage.

One row of 12 inch drain tile from station 25+60 to station 36+24 966ft

"	"	"	14"	"		"	"	"	36+24	"	"	58+60	2256 "
"	"	"	20	"		"	"	"	58+60	"	"	66+68	808 "
"	"	"	20	"	sewer	pipe	"	"	66+68	to	"	66+74	6 "
					Gravel	"Pit	"	66+74	"	"	70+50	XXXXXX
"	"	"	20	"	"	pipe from	"	70+50	"	"	70+56	6 "
"	"	"	20	"	drain tile	"	"	70+56	"	"	120+82	5026 "
"	"	"	20	"	sewer pipe	"	"	120+82	"	"	120+88	6 "

ARM NO. ONE ° consists of one row of 8 inch drain tile throughout and shall terminate in the concrete connecting box at station 25+60 on the Main Ditch.

ARM NO. TWO ° to consist of one row of 15 inch drain tile throughout and shall terminate in the V Branch Connection on the Main Ditch at station 58+60.

At station 36+24 there shall be one 15 inch vitrified Y branch with 8 inch inlet.

At station 58+60 there shall be one 20 inch vitrified V branch with two 15 inch inlets.

LAYING TILE FILLING DITCH DEADENING AND GRUBBING.

All tile used in the construction of this drain shall be first class quality and subject to the inspection of the Superintendent in charge of the work. They shall be laid in the trench in a true line with joints well matched and at proper grade as shown on the profile hereto attached and marked (EXHIBIT B) and made a part of this report and shall be left uncovered untill examined by the Superintendent after which the trench , where the ditch is new cut , shall be filled full and where the ditch runs in the old channell the tile shall be covered with two feet of earth.

Trees and bushes shall be cut or deadned on each side of the ditch for a distance of 25 feet except in the opinion of the Superintendent it is advisable to leave certain trees. All work to be done in a first class and workman like manner, and to the full satisfaction ofthe Superintendent in charge of the work.

Where it is deemed necessary by the superintendent in charge of the work the tile shall be laid upon planks 1" X 12" X 12', the cost of which has been taken care of in the estimated cost of construction, allowing 4000 feet of said lumber for said work, and should it not require the full amount of the 4000 feet; the difference will be deducted from the contract price at the rate of $20.00 per thousand feet.

The lumber for curbing the banks of said ditch to be furnished by the contractor seperate from the 4000 feet.

Where deep cuts occur the filling to be done in layers of about 3 feet and allowed to settle, by receiving rain or otherwise.

FALL OF THE ESTABLISHED GRADE.

MAIN DITCH.

87/100 feet to each 100 feet from station 0 to station 2.

15/100 " " " 100 " " " 2 " " 3. *

134/100 " " " 100 " " " 24 " " 25.

81/100 " " " 60 " " " 25 " " 25+60

25/100 " " " 100 " " " 25+60 " " 42.

5/100 " " " 100 " " " 42 " " 70.

10/100 " " " 100 " " " 70 " " 88.

35/1000 " " " 100 " " " 88 " " 120+88.

Arm No One.

35/100 feet to each 100 feet from station 0 to station 11+23.

Arm No Two.

100/100 feet to each 100 feet from station 0 to station 4.

22/100 " " " 100 " " " 4 " " 27+7.

The total fall from station 3 to station 24 on the Main Ditch is 10.36 feet.

SPECIAL NOTE

Owing to the fact that Marion Blanton, the petitioner for said drain,did sometime prior to petitioning for said drain, purchase several rods of 15 inch tile, for the purposeof tiling a part of that portion of said drain located upon his lands, it is hereby ordered that the contractor, purchase from said Blanton so many of such tile as will pass the inspection of the superintendent in charge of the work; Provided that said contarotor will not be required to pay to said Blanton, more than the market price on the ditch,for such tile, at the time of letting the contract for said ditch.

PROFILE PAPER.

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.	
	275		Main Ditch.				
1	2.67			19			
2	2.76			19			
3	2.27			14			
4		From station 3 to station 24 Ditch constructed and accepted					
24	3.19						
25	4.06			20			
25+50	3.57						
26	4.47			24			
27	5.41			17			
28	7.84			20			
29	7.82			19			
30	7.90			19			
31	7.22			17			
32	7.42			17			
33	7.47			19			
34	7.97			21			
35	7.34			32			
3 6	6.41			51			
37	5.65			45			
38	5.35			41			
39	5.34			40			
40	5.95			42			
41				41			
42				37			
43				37			
44				37			
45				37			

PROFILE PAPER.

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.	
46				37			
47	.70			50			
48	6.38			50			
49	7.14			38			
+65	6.37						
50	6.17			55			
51	6.57			59			
52	6.61			60			
53	7.04			62			
54	6.38			62			
55	6.43			58			
56	6.47			61			
57	6.78			61			
58	7.46			66			
+60	6.99						
59	7.20			55			
60	6.78			40			
61	6.39			40			
62	7.07			38			
63	10.14			35			
64	11.49			34			
65	11.30			34			
66	12.09			35			
+75	12.35			34			
+85	13.17						
		Gravel Pit.					
70+50	9.75						
71	11.12			58			

PROFILE PAPER.

Main ditch 3

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.	
72	12.37			133			
73	10.20			125			
74	12.74			127			
75	11.39			51			
76	10.59			30			
77	9.79			29			
78	10.17			26			
79	8.61			27			
80	.72			31			
81	.87			31			
82	6.72			26			
83	7.93			23			
84	7.12			69			
85	6.42			64			
86	7.71			28			
+27	7.50						
87	7.67			20			
88	7.34			17			
89	7.64			19			
90	6.71			19			
91	5.79			19			
+38	5.68						
92	5/22			19			
93	5.09			19			
94	5.84			26			
95	4.77			26			
96	4.62			26			
97	5.07			26			
				1056			