

Drain: WR FERTIG Drain #: 176
Improvement/Arm: _____
Operator: J. LIVINGSTON Date: 12-17-03
Drain Classification: Urban/Rural Year Installed: 1899

GIS Drain Input Checklist

- Pull Source Documents for Scanning JL
- Digitize & Attribute Tile Drains _____
- Digitize & Attribute Storm Drains _____
- Digitize & Attribute SSD _____
- Digitize & Attribute Open Ditch JL
- Stamp Plans _____
- Sum drain lengths & Validate JL
- Enter Improvements into Posse _____
- Enter Drain Age into Posse JL
- Sum drain length for Watershed in Posse JL
- Check Database entries for errors JL

Gasb 34 Footages for Historical Cost
Drain Length Log

Drain-Improvement: W12 FERTIG -

Drain Type:	Size:	Length ()	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
OPEN DITCH	—	3925'	3925'		19.55/A	76,733. ⁷⁵

Sum: 3925' 3925' \$ 76,733.⁷⁵

Final Report: 3925' - OPEN

Comments:

Review Report
of
W R Fertig
& Bitch

Viewers Report of W R Fertig Ditch

To the Honorable Board of Commissioners of Hamilton County Indiana

We the undersigned appointed by this Court at its June Regular Term 1899 to view a drain described in the certified copy of a Petition and order of Court for a drain by W R Fertig and others handed us by the Auditor would represent that according to said order on the day named therein to-wit the 15th Day of June 1899 in Company with J A Whitell a Civil Engineer made an accurate survey of the line of said proposed drain from its source to its outlet.

a plat of said drain is filed herewith including the survey made by the Engineer marked "Exhibit B" we caused stakes to be set along said line each one hundred feet numbering down stream as shown by plat, we also made a computation of the total number of cubic yards of Earth to be removed from said drain, and estimated the total cost for the construction of the work at

\$2617.67

Attorneys

we have also set out by a statement below the names of the owners of lands benefited with a description of each tract of land and the amount assessed against each tract. The depth of cut the width at bottom and width at top along said drain is also shown in a tabular

After a full and careful view and Examination
 in an of the opinion that the drain as
 located by the survey will be of public
 utility and will be a benefit to the
 general health, will benefit roads or Mon
 public highways and that the cost
 of construction will not exceed the
 benefits derived therefrom and that said
 drainage will best be accomplished by
 a Main ditch and two Arms
 Filing Main ditch from Station 0 to
 10 with ^{now} 12 inch tile

from Station 10 to 19+35 with ^{now} 15 inch tile

" " 19+35 " 46+80 " " 18 " "

" " 46+80 " 65+75 " " 20 " "

and constructing an open ditch from Station
 65+75 to terminus on station 105.

and by filing said arms as follows -

Arm No 1 from Station 0 to 13+85 with ^{now} 12 inch tile

" " 13+85 " 22 " ^{now} 15 " "

Arm No 2 from Station 0 to 11+65 " ^{now} 10 " "

Said Main ditch and Arms are located as
 follows.

Main ditch beginning at a Point ^{82.5'} 5 rods
 west of South West corner of South East Quarter
 Sec 35. Tp 18 Range 3 - East running thence
 from 0 to 19+35 North 71° East

" 19+35 " 29 North 8° East

29 " 38 North 37° East

46+50	to	50+50	North	62°	East
50+50	"	56	South	74°	East
56+	"	61	South	78°	East
61+50	"	67+50	South	41°	East
67+50	"	69+60	South	53½°	East
69+60	"	77	South	11°	East
77	"	78	South	68°	East
78	"	80+50	South	78°	East
80+50	"	85	South	54°	East
85	"	90+20	South	5°	East
90+20	"	91+75	South	31°	East
91+75	"	94+60	South	88°	East
94+60	"	97+40	North	82½°	East
✓ 97+40	"	99+5	South	88½°	East
✓ 99+5	"	102+75	South	8°	East
102+75	"	105	South	15°	West

Terminating Near the Point where the Stream known as Town river crosses the road on the South Side of Sec 36 Tp 18 Rang 3 East

ARM N° 1

Beginning at the South East Corner North East quarter of the Northwest quarter of Sec 35 Tp 18 Rang 3 East thence from 0 to 13+85 S 74½° E; thence from 13+85 to 21 south, thence from 21 to 22 south 39° E. and terminating on main ditch at stake 49+70.

ARM N° 2

Beginning forty rods North of the South East corner of the west half North East Quarter Sect 35 Tp 18 Rang 3 East thence from 0 to 11+66 S 82° E terminating on M.D. at 47.

Specifications

There is to be a retaining wall of 2X 5 1/2 X 15 feet, built from field rock or rigerheads, laid up in mortar made from one part Portland cement to three parts good sharp sand. Placed at station 65+75, so constructed as to receive the tile at the proper grade and 1 1/2 feet above the base of the wall

All tile used in the construction of said ditch and arms must be first class in every respect, and laid in ditch in a true line with joints well matched and at the proper grade, and must be inspected by the engineer in charge after being accepted by the Engineer they must be covered so as to admit of cultivation ~~over~~ over ditch

Open portion of ditch must be cut to grade and must be 18 inches wide in bottom side slopes to be 1 to 1 or 45° banks to be trimmed smooth and the earth excavated to be deposited not nearer than two feet from edge or break of banks

All timbers to be deadened for a distance of 1 rod on each side of ditch, all bushes and briars to be grubbed from Right of way

Said arms to be connected with main ditch by # 4 sewer tile

The fall of the established grade is as follows.

M.D. 0 to 10	$\frac{30}{100}$ ft to 100 feet	} Arm No 1 - 0 to 11, $\frac{40}{100}$ ft.
" 10 "	65+75 $\frac{30}{100}$ " " "	
Drop in grade line	$\frac{50}{100}$ " at 65+75	} " " " 11 to 22, $\frac{34}{100}$ "
M.D. 65+75 to 105	$\frac{27}{100}$ ft to 105 ft	

J. R. Fertig Ditch

No.	NAMES.	DESCRIPTION OF LANDS.	Section.	Township.	Range.	Acres Assessed.		Acres Benefited.		Am't of Assess't.		TOTALS.	
						Acres.	fdths.	Acres.	fdths.	\$	Cts.	\$	Cts.
1	M R Fertig	SW	SE	35	18	3	40	280	00			720	00
		NW	SE	35	18	3	40	280	00				
		SE.	SW	35	18	3	40	160	00				
2	George Ellis	SE	SE	35	18	3	40	280	00			690	00
		NE	SE	35	18	3	40	280	00				
		PT W 1/2 SE.	NE	35	18	3	9	600					
		PT W 1/2 W 1/2	SW	36	18	3	28	700					
3	Chas Ellis	NE	SW	35	18	3	40	80	00			80	00
4	J. L. Brown	PT SE.	NE	35	18	3	37	131	00			236	00
		S 1/2 SW	NW	36	18	3	20	85	00				
		PT W 1/2 NW	SW	36	18	3	8	20	00				
5	John Kemp	PT SE	NW	36	18	3	39	45	00			45	00
		PT NE.	SW	36	18	3							
		W 1/2 W 1/2 W 1/2 E 1/2		36	18	3							
6	Fred Pristow	W 1/2 E 1/2	SW	36	18	3	44	88	00			88	00
7	Mrs Lane	PT SE SW	SW	36	18	3	16	16	00			16	00
		PT SW SE											
8	James G. McShane	SE-SE	SW	36	18	3	26	00	26	00		26	00
PT S 1/2 SW	SE												
9	Josephus Collins	N 1/2 N 1/2	NW	1	17	3	40	40	00			40	00
10	J. A. Morris	PT N 1/2	NE	2	17	3	40	100	00			100	00
11	Amos Eskew	PT W 1/2 NE + PT NE NW					30	75	00			75	00
12	Clay Township	Highways N & S Cent		24	35	18	3	20	00			75	00
		" N & S through		25	36	18	3	30	00				
		" E & W. south side 357		36	18	3	25	00					

2190 5

No.	NAMES.	DESCRIPTION OF LANDS.	Section.	Township.	Range.	Acres Assessed.		Acres Benefited.		Am't of Assess't.		TOTALS.	
						Acres.	fdths.	Acres.	fdths.	\$	Cts.	\$	Cts.
13	David Jones Est	Pl E 1/2 W 1/2 SW	35	18	3	35	00	✓		35	00	35	00
14	David Mann	Pl E 1/2 NW	35	18	3	50				75	00	75	00
15	Joseph Furnace	N 1/2 N 1/2 N.E. Pl S.E.	NW	26	18	3	10			15	00	53	00
			SW	26	18	3	25			38	00		
16	Enoch Dickson	Pl W 1/2 SE	26	18	3	50				75	00	75	00
17	Isaac Roberts Est	Pl S 1/2 SE	26	18	3	16				24	00	24	00
18	L.B. Pariskaw	Pl S.E. SE	26	18	3	1				2	00	2	00
19	Thos Bristow	S 1/2 S.E. SE	26	18	3	20		✓		40	00	40	00
20	Wm Booth	NE. NE	35	18	3	40		✓		160	00	160	00
21	Martin Brown	W 1/2 NE	35	18	3	80				240	00	240	00
22	M.E. David	N Part W 1/2 NW	36	18	3	44		✓		110	00	110	00
23	A. Suidensticker	Pl N 1/2 SW NW	36	18	3	16		✓		40	00	40	00
24	W.A. Moon	Pl W 1/2 SW	36	18	3	40		✓		40	00	40	00
25	Monon R.R. (C.D. & L.R.R.)	Right of way				25						25	00

2191
 219
 3110) 2640 00 / 8488 = 3200
 24883
 10203
 12440
 24888
 27200

919 23

Exhibit B

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.		Cost of	Cost of	Additional	Additional
						Excavation	Fill.	Laying	Fillin		
0.	3.46	18"	18		15			Laying And Filling			
1	4.13	"	"	21		11 59	3.15	8.20	.12	.12	
2	3.87	"	"	22		11 74	3.30	8.20	.12	.12	
3	3.48	"	"	20		11 44	3.00	8.20	.12	.12	
4	3.52	"	"	22		11 74	3.30	8.20	.12	.12	
5	3.47	"	"	22		11 74	3.30	8.20	.12	.12	
6	3.46	"	"	22		11 74	3.30	8.20	.12	.12	
7	3.33	"	"	19		11 29	2.85	8.20	.12	.12	
8	3.07	"	"	18		11 14	2.70	8.20	.12	.12	
9	3.17	"	"	17		10 99	2.55	8.20	.12	.12	
10	3.00	24	22	17		10 99	2.55	8.20	.12	.12	
11	2.84	"	"	20		16 65	3.00	13.35	.15	.15	
12	3.56	"	"	22		16 95	3.30	13.35	.15	.15	
13	3.12	"	"	23		17 10	3.45	13.35	.15	.15	
14	3.59	"	"	24		17 25	3.60	13.35	.15	.15	
15	3.79	"	"	26		17 55	3.90	13.35	.15	.15	
16	4.08	"	"	28		17 85	4.20	13.35	.15	.15	
17	4.68	"	"	31		18 30	4.65	13.35	.15	.15	
18	4.43	"	"	32		18 45	4.80	13.35	.15	.15	
19	4.41	"	"	31		18 30	4.65	13.35	.15	.15	
9+35	3.89	24	24	10		6 28	1.50	4.68	.05	.05	
20	4.54	"	"	22		17 09	3.30	13.39	.20	.20	
21	4.45	"	"	33		26 15	4.95	20.60	.30	.30	
22	4.83	"	"	34		26 30	5.10	20.60	.30	.30	
23	4.70	"	"	35		26 45	5.25	20.60	.30	.30	
24	5.28	"	"	37		26 75	5.55	20.60	.30	.30	
25	6.04	"	"	42		27 35	6.30	20.60	.30	.35	
26	6.19	"	"	45		28 00	6.75	20.60	.30	.30	
27	5.85	"	"	44		27 85	6.60	20.60	.30	.35	
28	5.46	"	"	42		27 55	6.30	20.60	.30	.35	
29	6.31	"	"	40		27 25	6.00	20.60	.30	.35	

PROFILE PAPER.

Add'l. at. Add'l.

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.	Cost of Excavation	Cost of Pile.	Cost of Laying	Cost of Filling
30	7.11	24"	24"	50	15	28 75	Laying and Filling 7.50	20.60	.30	.30
31	6.62	"	"	51		28 90	7.65	20.60	.30	.35
32	7.44	"	"	52		29 10	7.80	20.60	.30	.40
33	8.04	"	"	57		29 85	8.55	20.60	.30	.40
34	7.83	"	"	59		30 15	8.85	20.60	.30	.40
35	7.22	"	"	56		29 70	8.40	20.60	.30	.40
36	7.66	"	"	55		29 55	8.25	20.60	.30	.40
37	6.64	"	"	46		28 20	6.90	20.60	.30	.40
D	4.74	"	"							
38	7.07	"	"	36		26 70	5.40	20.60	.30	.40
D	5.00	"	"							
39	7.78	"	"	37		26 90	5.55	20.60	.30	.40
D	5.04	"	"							
40	6.93	"	"	37		26 90	5.55	20.60	.30	.40
D	4.87	"	"							
41	6.75	"	"	37		26 90	5.55	20.60	.30	.40
D	5.02	"	"							
42	6.27	"	"	36		26 90	5.40	20.60	.30	.40
D	3.27	"	"							
43	7.57	"	"	45	20	30 35	9.00	20.60	.30	.40
44	8.67	"	"	60		33 40	12.00	20.60	.30	.50
45	8.43	"	"	63		34 00	12.60	20.60	.30	.50
46	6.89	"	"	56		32 55	11.20	20.60	.30	.40
6+50	7.92	28	28	27		16 10	5.40	10.30	.15	.25
47	7.47	"	"	34		20 18	6.80	12.88	.20	.25
48	6.56	"	"	60		38 67	12.00	25.75	.42	.50
49	6.81	"	"	56		37 87	11.20	25.75	.42	.50
9+50	6.62	"	"	29		19 14	5.80	12.88	.21	.25
50	6.45	"	"	28		18 93	5.60	12.87	.21	.25
0+50	6.73	"	"	28		18 94	5.60	12.88	.21	.25
51	6.77	"	"	29		19 73	5.80	12.87	.21	.25

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.	Cost of Excavation	Cost of Tile	Cost of Laying	Cost of Filling
52	6.04	28"	28"	55		37 67	Laying Excavation \$17.08	25.75	.42	.50
53	5.77	"	"	51		36 87	10.20	25.75	.42	.50
54	5.02	"	"	47		36 07	9.40	25.75	.42	.50
55	5.21	"	"	34		33 47	6.80	25.75	.42	.50
D	3.55	"	"							
56	6.73	"	"	33		33 27	6.60	25.75	.42	.50
D	3.40	"	"							
57	5.53	"	"	31		32 87	6.20	25.75	.42	.50
D	3.00	"	"							
58	6.93	"	"	28		32 27	5.60	25.75	.42	.50
D	2.60	"	"							
59	5.86	"	"	26		31 87	5.20	25.75	.42	.50
D	2.76	"	"							
60	5.57	"	"	26		31 87	5.20	25.75	.42	.50
D	2.60	"	"							
61	5.64	"	"	25		31 67	5.00	25.75	.42	.50
D	2.50	"	"							
61+50	5.55	"	"	12		15 74	2.40	12.88	.21	.25
D	2.45	"	"							
62	4.80	"	"	15		16 33	3.00	12.87	.21	.25
63	4.43	"	"	45		35 37	9.00	25.75	.42	.20
64	5.89	"	"	51		36 57	10.20	25.75	.42	.20
65	4.25	"	"	50		36 37	10.00	25.75	.42	.20
^{37e} 65+75	4.46	"	"	31		25 97	6.20	19.32	.30	.15
^{ren} 65+75	4.97	Stonewall & sewer tile, wall 15x5 1/2 x 2 - 25 00								
66	4.69	10.88	18"	25		5 00				
B.M.										
67	3.56	8.62	"	86		17 20				
67+50	5.08	11.66	"	46		9 20				
68	5.09	11.68	"	57		11 40				
69	4.41	10.32	"	110		22 00				

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.
9+60	4.46	10.42	18"	64		12 80
70	4.97	11.44	"	43		8 60
71	4.82		"	116		23 20
B.M.			"			
72	4.61		"	93		18 60
D	3.70		"			
73	4.47		"	80		16 00
D	3.02		"			
74	4.99		"	75		15 00
D	3.24		"			
75	5.03		"	72		14 40
D	3.06		"			
76	5.63		"	76		15 20
D	3.48		"			
77	6.00		"	81		16 20
D	3.30		"			
78	5.32		"	73		14 60
D	2.07		"			
79	5.01		"	110		22 00
80	4.76		"	101		20 20
D	2.68		"			
30+50	4.89		"	26		5 20
D	2.56		"			
81	4.95		"	48		9 60
D	2.50		"			
82	4.95		"	85		17 00
D	2.37		"			
83	3.34		"	44		8 80
D	2.29		"			
84	4.16		"	65		13 00
85	3.73		"	79		15 80

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.
86	6.24		18"	57		11 40
D	1.80		"			
87	4.32		"	32		6 40
D	2.02		"			
88	5.44		"	30		6 00
D	1.64		"			
89	5.25		"	28		5 60
D	1.86		"			
90	4.16		"	32		6 40
D	1.94		"			
90+20	4.05		"	7		1 40
D	2.05		"			
91	4.17		"	24		4 80
D	1.97		"			
91+75	4.21		"	23		4 60
D	1.77		"			
92	4.55		"	60		12 00
93	4.54		"	101		20 20
93+50	1.31		"	25		5 00
94	4.28		"	22		4 40
D	1.34		"			
95	5.03		"	76		15 20
96	3.29		"	87		17 40
97	3.83		"	67		13 40
98	2.94		"	35		7 00
D	.19		"			
99	4.68		"	32		6 40
D	.51		"			
100	4.77		"	10		2 00
D	.63		"			
101	4.65		"	6		1 20

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.
D	-10		18"			
102	4.01		"	5		1 00
D	2.2		"			
102+75	3.85		"	2		1 00
D	-16		"			
103	4.03		"	10		2 00
104	3.65		"	40		8 00
105	1.79		"	22		4 40
D	0					

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.	Cost of Excavation.	Cost of Tile.	Additional	
									Cost of Laying.	Cost of Filling.
0	3.60	18"	18"	15	15		2.55			
1	3.37	"	"	19		11 29	2.85	8.20	12	12
2	3.46	"	"	19		11 29	2.85	8.20	12	12
3	3.73	"	"	20		11 44	3.00	8.20	12	12
4	3.25	"	"	19		11 29	2.85	8.20	12	12
5	3.09	"	"	17		10 99	2.55	8.20	12	12
6	3.06	"	"	17		10 99	2.55	8.20	12	12
7	3.26	"	"	18		11 14	2.70	8.20	12	12
8	3.30	"	"	18		11 14	2.70	8.20	12	12
9	3.03	"	"	18		11 14	2.70	8.20	12	12
10	3.13	"	"	18		11 14	2.70	8.20	12	12
11	3.47	"	"	19		11 29	2.85	8.20	12	12
12	3.32	"	"	19		11 29	2.85	8.20	12	12
13	3.16	"	"	18		11 14	2.70	8.20	12	12
3+85	4.30	20	20	18		10 02	2.70	6.97	.10	.25
D	2.10	"	"							
14	4.43	"	"	3		2 65	.45	2 00	.05	.75
D	2.05	"	"							
15	4.01	"	"	13		16 20	1.95	13.35	.15	.75
D	1.24	"	"							
16	4.10	"	"	10		15 75	1.50	13.35	.15	.75
D	1.03	"	"							
17	4.54	"	"	9		15 60	1.35	13.35	.15	.75
D	1.12	"	"							
18	3.66	"	"	9		15 60	1.35	13.35	.15	.75
D	1.01	"	"							
19	5.23	"	"	9		15 60	1.35	13.35	.15	.75
D	1.15	"	"							
20	5.16	"	"	11		15 90	1.65	13.35	.15	.75
D	1.39	"	"							
21	5.58	"	"	11		15 90	1.65	13.35	.15	.75
D	5.08	"	"							
22	4.78	"	"	12		16 05	1.80	13.35	.15	.75
D	4.79	"	"							

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.	Cost of Excavation	Cost of Pile.	Additional Cost of Laying	Additional Cost of Filling
10	3.00	75	75							
1	4.36	"	"	17		8 25	2.55	5.50	.10	.10
2	4.07	"	"	19		8 55	2.85	5.50	.10	.10
3	4.05	"	"	19		8 55	2.85	5.50	.10	.10
4	4.60	"	"	20		8 70	3.00	5.50	.10	.10
5	4.27	"	"	21		8 85	3.15	5.50	.10	.10
6	4.70	"	"	21		8 85	3.15	5.50	.10	.10
7	4.96	"	"	22		9 00	3.30	5.50	.10	.10
8	5.03	"	"	23		9 15	3.45	5.50	.10	.10
9	4.70	"	"	22		9 00	3.30	5.50	.10	.10
10	5.05	"	"	22		9 00	3.30	5.50	.10	.10
	5.25									
11	4.75	"	"	22		9 00	3.30	5.50	.10	.10
	5.80									
1+65	4.80	"	"	14		5 90	2.10	3.60	.10	.10
						192.00				

The two viewers would further report that in our opinion it is impracticable to allot said proposed ditch for construction for the reason that we believe the cost of construction would be less; and the work would be better done; the tile for same can be bought to a better advantage than could be were it to be allotted.

Viewers } S. M. Smith
 } L. M. Stultz

Subscribed and sworn to before me
this 2^d day of August 1899.

Calvin Stewart
Auditor

Viewers Report
of

W.R. Fertig
& Litch

Sept 9 - 1899

Report approved,
and viewers ordered,
to make final
report Wed. Sept 20 - 1899

W. W. Smith P.B.

E. W. B. 12
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