

Drain: WILSON - NAGLE **Drain #:** 175
Improvement/Arm: WILLIAM WILSON
Operator: J. LIVINGSTON **Date:** 9-8-04
Drain Classification: Urban/Rural **Year Installed:** 1894

GIS Drain Input Checklist

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

J. Livingston
J. Livingston
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J. Livingston

Gasb 34 Footages for Historical Cost
Drain Length Log

Drain-Improvement: WILSON-NAGLE - William Wilson

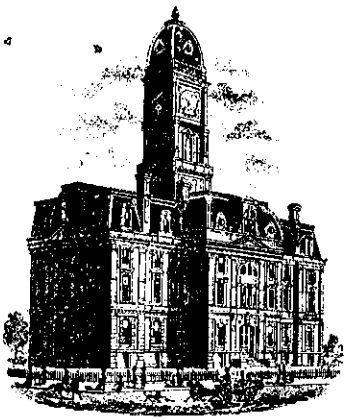
Drain Type:	Size:	Length	Length (DB Query)	Length Reconcile	If Applicable	
					Price:	Cost:
TILE	15"	878	878'		5. ⁰⁰ /lf	4390. ⁰⁰
	18"	489'	489'		6. ⁵⁰ /lf	3178. ⁵⁰
	N/A	278'	278'		N/A	N/A

Sum: 1645' 1645' \$7568.⁵⁰

Final Report: _____

Comments:

From STA 8+78 - APPROXIMATELY STA 11+35 RELOCATED AROUND FIRE STATION IN 1975. STA 11+35 - APPROXIMATELY STA 11+80 (ACROSS W. MAIN ST / E 266TH ST) ABANDONED / REMOVED. STA 11+80 - APPROXIMATELY STA 48+75 RECONSTRUCTED BY TOWN OF ARCADIA BEGINNING IN 1999. STA 54+00 - STA 65+00 OR TERMINUS RECONSTRUCTED AS THE GUY BOOTH DRAIN IN 1922.



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

776-9626

942 Maple Avenue

Noblesville, Indiana 46060

April 12, 1990

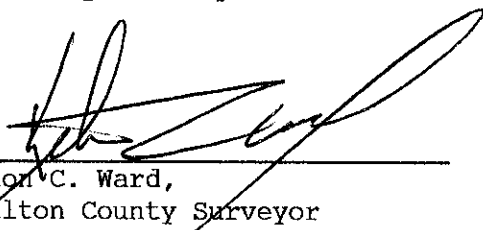
To: Hamilton County Drainage Board

Re: Wilson-Nagle Drain

Attached is a non-enforcement request for the Wilson-Nagle Drain from Mark Lefkowicz of the Jackson Township Fire Department. The request is for tract 02-13-03-02-011.000 located in Arcadia on which is located the fire station.

Upon investigation, it was learned that the original drain, see exhibit "A", was relocated, see Exhibit "B". Mr. Liston from my office received information from Mr. Chuck Lockwood that the building, fire station, was constructed in 1975 by a builder from Anderson. J.R. Cowan was Township Trustee at that time. The drain was relocated by John Ward across the rear of the lot (north side) to the east property line where a manhole was constructed. The tile then runs south to a structure at 266th Street. Although the relocation was not approved by the Board, the new location is being accepted as part of the drain.

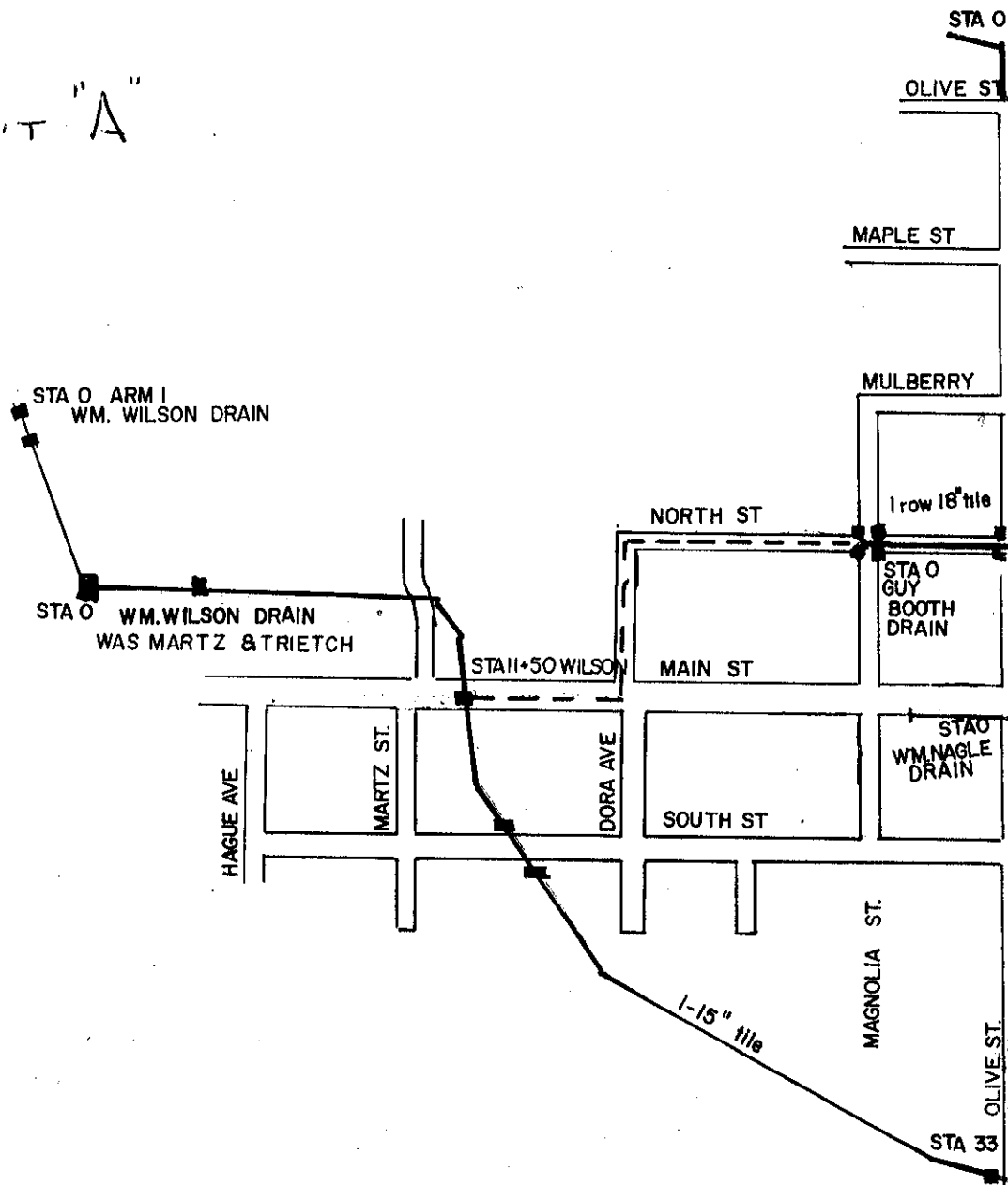
The request is for 8' from the south side and 9' from the west side of the tile. Although the station now is within 9' from the station on the west side of the tile, the request is for a reduction less than allowable by statute for an urban drain. Therefore, I recommend the Board deny the request.


Kenton C. Ward,
Hamilton County Surveyor

KCW/jh

Approved Recommended in D. B. meeting by Surveyor 5/21/90

EXHIBIT "A"



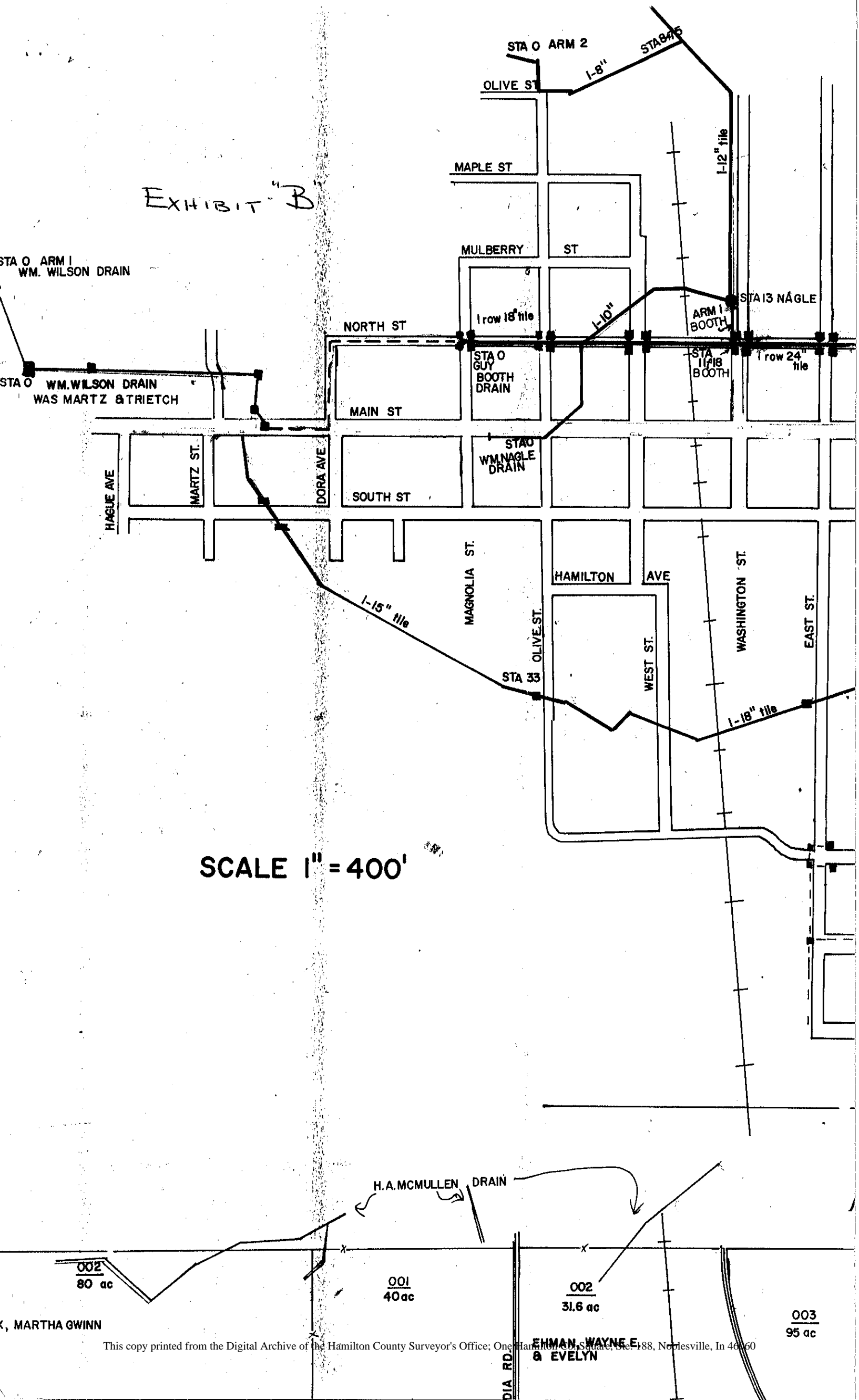
SCALE 1" = 400'

H. A. McMullen DRAIN

002
80 ac

001
40 ac

EXHIBIT "B"



SCALE 1" = 400'

H.A. MCMULLEN DRAIN

002
80 ac

001
40 ac

002
31.6 ac

003
95 ac

K, MARTHA GWINN

EHMAN, WAYNE E. & EVELYN

No. _____

IN THE MATTER OF

April 18 1886
vs
John B. Burford
vs
John B. Burford

REPORT OF DITCH VIEWERS

COMMISSIONERS' COURT.

Filed _____, 18

E. O. B. S. Page 118 - 223

Auditor.

WM. E. BURFORD, PRINTER, INDIANAPOLIS.

Com. Viewers E 18 356
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Viewer's Report of

Wm J Wilson et al known as *Marty*

Trutch Drain
Ditch.

To the Honorable Board of Commissioners of

Hamilton County, Indiana:

We, the undersigned, appointed by this Court, at its *Reg December* Term, 18*97*, to view a drain described in the certified copy of a petition and order of Court for a *Ditch*, by *W. J. Wilson et al known as Marty* and others, handed us by the Auditor, would represent that according to said order we, on the day named therein, to-wit: the *10* day of *January*, 18*94*, in company with *S Bayner*, a civil engineer, made an accurate survey of the line of said proposed *Ditch* from its source to its outlet. A plat of said *Ditch* is filed herewith including the survey by the engineer, marked "Exhibit *1*". 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 *1402 ³⁰ / 100* Dollars. We also apportioned and set apart to each parcel of land a share of said work in proportion to the benefits received, all of which will fully appear by a tabular statement in this report. 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 statement in this report. After a full and careful view and examination, we are of the opinion that the drain as located by the survey will be of *Public Utility & benefit to Four Public highways and that the cost of construction will be less than the benefits to be derived and should be located and constructed as follows. To wit*

In Page 3-

The following statement shows who are benefited, the lands thereof and assessment thereon, location, length of each share, amount of assessments, amount of benefits, amount of dirt to be removed from each share, price thereof per cubic yard, and total cost of each share:

NAMES OF OWNERS.	DESCRIPTION OF LANDS.	Section	Range	Acres Assessed.	Widths Assessed.	Acres Benefited.	Widths Benefited.	Amount of Benefits.	Amount of Assessments.	From Station.	To Station.	Feet Long.	Cubic Yards to be Removed.	Price per Cubic Yard.	Cost of Construction.
<i>Al Walz</i>	<i>SW</i>	<i>3</i>	<i>4</i>	<i>33 50</i>	<i>33 50</i>	<i>134 00</i>	<i>134 00</i>	<i>134 00</i>	<i>134 00</i>	<i>51 96</i>	<i>543</i>	<i>160</i>	<i>159 12</i>		
<i>Trutsch</i>	<i>NE</i>	<i>14</i>	<i>20</i>	<i>40</i>	<i>40</i>	<i>80 00</i>		<i>80 00</i>							
<i>Same</i>	<i>SE</i>	<i>14</i>	<i>20</i>	<i>40</i>	<i>35</i>	<i>95 00</i>		<i>175 00</i>		<i>0 67</i>	<i>6 51</i>	<i>200</i>	<i>157 50</i>		
<i>101 Elizabeth Miller</i>	<i>SW</i>	<i>14</i>	<i>20</i>	<i>40</i>	<i>7 5</i>	<i>7 50</i>		<i>7 50</i>		<i>11 12</i>	<i>96 57</i>	<i>61</i>	<i>18</i>		<i>13 50</i>
<i>Same</i>	<i>SE</i>	<i>14</i>	<i>20</i>	<i>40</i>	<i>25</i>	<i>25 00</i>		<i>15 00</i>		<i>12 13</i>	<i>57 6</i>	<i>49</i>	<i>16</i>		<i>10 80</i>
<i>100 Jacob Quirk</i>	<i>SW</i>	<i>23</i>	<i>20</i>	<i>40</i>	<i>12</i>	<i>12 00</i>		<i>12 00</i>							
<i>99 Moses Martin</i>	<i>SE</i>	<i>13</i>	<i>20</i>	<i>4</i>	<i>3</i>	<i>9 00</i>		<i>9 00</i>							
<i>Same</i>	<i>NE</i>	<i>23</i>	<i>20</i>	<i>40</i>	<i>40</i>	<i>57 00</i>		<i>57 00</i>							
<i>Same</i>	<i>SE</i>	<i>23</i>	<i>20</i>	<i>40</i>	<i>12</i>	<i>12 00</i>		<i>12 00</i>							
<i>Same</i>	<i>SW</i>	<i>24</i>	<i>20</i>	<i>15</i>	<i>15</i>	<i>30 00</i>		<i>30 00</i>							
<i>Same</i>	<i>SE</i>	<i>24</i>	<i>20</i>	<i>15</i>	<i>5</i>	<i>20 00</i>		<i>119 00</i>		<i>13 16</i>	<i>6 75</i>	<i>369</i>	<i>120</i>		<i>107 10</i>
<i>98 Andrew Stauffman</i>	<i>SE</i>	<i>14</i>	<i>20</i>	<i>4</i>	<i>4</i>	<i>4 00</i>		<i>4 00</i>							
<i>Same</i>	<i>SW</i>	<i>14</i>	<i>20</i>	<i>40</i>	<i>2</i>	<i>2 00</i>		<i>6 00</i>		<i>16 17</i>	<i>75 9</i>	<i>24</i>	<i>9</i>		<i>5 40</i>
<i>97 James J McNeill</i>	<i>SE</i>	<i>14</i>	<i>20</i>	<i>4</i>	<i>15</i>	<i>15 00</i>		<i>15 00</i>		<i>17 17</i>	<i>9 69</i>	<i>60</i>	<i>18</i>		<i>13 30</i>
<i>96 Joseph Walz</i>	<i>NE</i>	<i>14</i>	<i>20</i>	<i>4</i>	<i>9</i>	<i>9 00</i>		<i>9 00</i>		<i>17 18</i>	<i>69 5</i>	<i>36</i>	<i>13</i>		<i>8 10</i>
<i>95 Sam Walz</i>	<i>SW</i>	<i>13</i>	<i>20</i>	<i>4</i>	<i>4</i>	<i>4 00</i>		<i>4 00</i>		<i>18 18</i>	<i>5 21</i>	<i>16</i>	<i>7</i>		<i>3 60</i>
<i>94 Margaret Walz</i>	<i>SW</i>	<i>13</i>	<i>20</i>	<i>4</i>	<i>22 50</i>	<i>22 50</i>		<i>45 00</i>		<i>18 21</i>	<i>21 20</i>	<i>179</i>	<i>62</i>		<i>40 50</i>
<i>93 John McKee</i>	<i>SE</i>	<i>13</i>	<i>20</i>	<i>4</i>	<i>33</i>	<i>33</i>		<i>6 00</i>		<i>20 24</i>	<i>24</i>	<i>9</i>			<i>5 40</i>
<i>92 William Marty</i>	<i>SW</i>	<i>24</i>	<i>20</i>	<i>4</i>	<i>24 25</i>	<i>24 25</i>		<i>97 00</i>							
<i>Same</i>	<i>SW</i>	<i>24</i>	<i>20</i>	<i>4</i>	<i>24 25</i>	<i>16</i>		<i>45 00</i>		<i>20 24</i>	<i>24</i>	<i>576</i>	<i>2 02</i>		<i>130 50</i>
<i>91 M. C. Marty</i>	<i>SE</i>	<i>13</i>	<i>20</i>	<i>4</i>	<i>33</i>	<i>33</i>		<i>6 00</i>		<i>26 24</i>	<i>24</i>	<i>9</i>			<i>5 40</i>
<i>90 James Hurlock</i>	<i>SE</i>	<i>24</i>	<i>20</i>	<i>4</i>	<i>25</i>	<i>25</i>		<i>3 00</i>							
<i>Same</i>	<i>SE</i>	<i>24</i>	<i>20</i>	<i>4</i>	<i>25</i>	<i>25</i>		<i>3 00</i>		<i>26 26</i>	<i>24 48</i>	<i>24</i>	<i>9</i>		<i>5 40</i>
<i>89 Robert Bryant</i>	<i>SE</i>	<i>24</i>	<i>20</i>	<i>4</i>	<i>35</i>	<i>25</i>		<i>3 00</i>		<i>26 26</i>	<i>48 72</i>	<i>24</i>	<i>9</i>		<i>5 40</i>
<i>Same</i>	<i>SE</i>	<i>24</i>	<i>20</i>	<i>4</i>	<i>25</i>	<i>25</i>		<i>3 00</i>		<i>26 26</i>	<i>72 80</i>	<i>8</i>	<i>3</i>		<i>1 80</i>
<i>88 Evaline Thomas</i>	<i>SE</i>	<i>24</i>	<i>20</i>	<i>4</i>	<i>25</i>	<i>25</i>		<i>2 00</i>							
<i>87 H. P. Orr</i>	<i>SE</i>	<i>24</i>	<i>20</i>	<i>4</i>	<i>25</i>	<i>25</i>		<i>3 00</i>							
<i>Same</i>	<i>SW</i>	<i>24</i>	<i>20</i>	<i>4</i>	<i>25</i>	<i>4 30</i>		<i>18 00</i>							
<i>Same</i>	<i>NE</i>	<i>24</i>	<i>20</i>	<i>4</i>	<i>8</i>	<i>8</i>		<i>32 00</i>		<i>26 28</i>	<i>80 94</i>	<i>214</i>	<i>73</i>		<i>47 70</i>
<i>John Applbach</i>	<i>SE</i>	<i>24</i>	<i>20</i>	<i>4</i>	<i>25</i>	<i>25</i>		<i>2 00</i>		<i>28 28</i>	<i>94 4</i>	<i>8</i>	<i>3</i>		<i>1 80</i>
<i>J. J. Dixon</i>	<i>SE</i>	<i>24</i>	<i>20</i>	<i>4</i>	<i>25</i>	<i>25</i>		<i>3 00</i>		<i>26 26</i>	<i>4 15</i>	<i>11</i>	<i>4</i>		<i>2 70</i>

3	W. C. Wertz - Justice	of	Lot 17 in Wagers	24	20	4	50	50	6				15 ⁴			
	Damn		From Lot 46 to 51 & S. S. & C. ad	24	20	4	1 50	1 50	18							
	Damn		" " 88 to 102 " " " " "	24	20	4	3 30	3 30	45							
	Damn		" " 140 to 145 " " " " "	24	20	4	1 30	1 30	15	84.00	⁵⁰⁺⁵³⁺ 25 88	335	50	"	75 60	
2	Jackborn Township	Pub	Highways & Trails							10 00	⁵³⁺ 88	⁵⁶⁺ 20	287	40	"	9 00
1	Hamilton County	Little Paul Road		3/24	20	4				10 00					"	9 00
	Damn	Decade " "		13/24	20	4				10 00	⁵⁶⁺ 20	65	880	120	"	9 00
										114 00						102 60
										186 00						
										105 00						
										394 00						
										763 00						
										<u>15 2 00</u>						

Viewer's Report of

TABULAR STATEMENT OF ASSESSMENTS, BENEFITS, ETC.

Ditch.

NAMES OF OWNERS.	DESCRIPTION OF LANDS.	Section.	Township.	Range.	Acres Assessed.	Widths Assessed.	Acres Benefited.	Widths Benefited.	Amount of Benefits.	Amount of Assessments.	From Station.	To Station.	Feet Long.	Cubic Yards to be Removed.	Price per Cubic Yard.	Cost of Construction of Share.
36 Maggie Dickson	Lot 1, B. 9 Shapers add	24	20	4	25	25	3									
Same	" 2 " 9 " " "	24	20	4	25	25	10									
Same	" 3 " 9 " " "	24	20	4	25	25	10		23 00	44+45+ 67 86	69	15	✓		20 70	
35 William F Wilson	" 6 " 9 " " "	24	20	4	25	25	3									
Same	" 7 " 9 " " "	24	20	4	25	25	10									
Same	" 8 " 9 " " "	24	20	4	25	25	10		23 00	45+46+ 36 5	69	15	✓		20 70	
34 Sam Taylor	" 4 " 9 " " "	24	20	4	25	25	3		3 00	46+46+ 5 14	9	2	✓		2 70	
33 Joseph F. Lewis	" 7 " 1 " " "	24	20	4	25	25	5		3 00	46+46+ 14 23	9	2	✓		2 70	
32 Sam D. Linder	" 8 " 1 " " "	24	20	4	25	25	5		3 00	46+46+ 23 32	9	2	✓		2 70	
31 George Lively	" 1 " 1 " " "	24	20	4	25	25	5		3 00	46+46+ 32 41	9	2	✓		2 70	
30 W. M. Manly	" 2 " 1 " " "	24	20	4	25	25	5		3 00	46+46+ 41 50	9	2	✓		2 70	
29 Cary Lively	" 5 " 1 " " Bag Sat, Lucadia	22	20	4	12 1/2	12 1/2	1 50									
Same	" " " " " " "	22	20	4	12 1/2	12 1/2	1 50		3 00	46+46+ 50 59	9	2	✓		2 70	
28 Justice J. O. F.	" " 1 " " 4 " " " "	24	20	4	12 1/2	12 1/2	1 50									
Same	" " 4 " " 4 " " " "	24	20	4	12 1/2	12 1/2	1 50		3 00	46+46+ 59 65	9	2	✓		2 70	
27 H. A. Orr	" " 2 " " 4 " " " "	24	20	4	12 1/2	12 1/2	1 50									
Same	" " 3 " " 4 " " " "	24	20	4	12 1/2	12 1/2	1 50		2 00	46+46+ 68 74	6	1 1/2	✓		1 80	
26 Jasper F. Schuchter	" " 2 " " 4 " " " "	24	20	4	12 1/2	12 1/2	1 50									
Same	" " 3 " " 4 " " " "	24	20	4	12 1/2	12 1/2	1 50		2 00	46+46+ 74 80	6	1 1/2	✓		1 80	
25 E. A. Lynch	" " 2 " " 4 " " " "	24	20	4	12 1/2	12 1/2	1 50									
Same	" " 3 " " 4 " " " "	24	20	4	12 1/2	12 1/2	1 50		2 00	46+46+ 80 86	6	1 1/2	✓		1 80	
24 J. A. Ellis	" " 2 " " 4 " " " "	24	20	4	12 1/2	12 1/2	1 50									
Same	" " 3 " " 4 " " " "	24	20	4	12 1/2	12 1/2	1 50		2 00	46+46+ 86 92	6	1 1/2	✓		1 80	
23 W. G. Luffin	" " 2 " " 4 " " " "	24	20	4	12 1/2	12 1/2	1 50									
Same	" " 3 " " 4 " " " "	24	20	4	12 1/2	12 1/2	1 50		2 00	46+46+ 92 98	6	1 1/2	✓		1 80	
22 J. A. Correll	" " 1 " " 3 " " " "	24	20	4	12 1/2	12 1/2	1 50									
Same	" " 4 " " 3 " " " "	24	20	4	12 1/2	12 1/2	1 50		2 00	46+47+ 98 4	6	1 1/2	✓		1 80	
21 W. E. Gentry	" " 1 " " 3 " " " "	24	20	4	12 1/2	12 1/2	1 50									
Same	" " 4 " " 3 " " " "	24	20	4	12 1/2	12 1/2	1 50		2 00	47+47+ 4 10	6	1 1/2	✓		1 80	
20 J. A. Correll	lot 8 " " 2 " " " "	18	20	4	25	25	2		2 00	47+47+ 10 16	6	1 1/2	✓		1 80	
19 C. L. Lawlor	" 5 " " 2 " " " "	13	20	4	25	25	2		2 00	47+47+ 16 22	6	1 1/2	✓		1 80	
18 Joseph Blotz	" 4 " " 2 " " " "	13	20	4	25	25	2		2 00	47+47+ 22 28	6	1 1/2	✓		1 80	
17 Sarah A. Jordan	" 1 " " 2 " " " "	13	20	4	25	25	2		2 00	47+47+ 28 34	6	1 1/2	✓		1 80	
16 John Correll	" 5 " " 1 " " " "	13	20	4	12 1/2	12 1/2	1 50									
Same	" " 8 " " 1 " " " "	13	20	4	12 1/2	12 1/2	1 50		3 00	47+47+ 34 43	9	2	✓		2 70	
15 Jessie Horvath	" " 5 " " 1 " " " "	13	20	4	12 1/2	12 1/2	1 50									
Same	" " 8 " " 1 " " " "	13	20	4	12 1/2	12 1/2	1 50		3 00	47+47+ 43 52	9	2	✓		2 70	
14 Abraham Vinty	" " 1 " " 2 " " " "	13	20	4	25	25	3 00		3 00	47+47+ 52 61	9	2	✓		2 70	
13 Abraham Vinty	" " 2 " " " " " "	13	20	4	25	25	3 00		3 00	47+47+ 61 70	9	2	✓		2 70	
12 Wm Rodmbeck	" 1 " " " " " " "	13	20	4	25	25	3 00		3 00	47+47+ 70 79	9	2	✓		2 70	
11 Charles Rodmbeck	" 2 " " " " " " "	13	20	4	25	25	3 00									
Same	" 6 " " " " " " "	13	20	4	25	25	5									
Same	" 7 " " " " " " "	13	20	4	25	25	5									
Same	" 8 " " " " " " "	13	20	4	25	25	5									
Same	" 9 " " " " " " "	13	20	4	25	25	5									
Same	" 10 " " " " " " "	13	20	4	25	25	5		28 00	47+48+ 79 63	82	20	✓		25 20	
10 Barbara Booth	55 out lot No. 1, W. M. add	18	20	4	25	25	20		20 00	48+49+ 63 23	60	15	✓		18 00	
9 J. F. Edwards	lot 4 Rodmbeck 2d	13	20	4	25	25	3									
Same	" 5 " " " " " " "	13	20	4	25	25	5		10 00	49+49+ 23 53	30	12	✓		9 00	
8 John Shaper	" 1 in Ungers	24	20	4	25	25	5		5 00	49+49+ 53 68	15	3	✓		4 50	
7 Jacob Wagner	" 14 " " " " " "	24	20	4	25	25	5		5 00	49+49+ 68 83	15	3	✓		4 50	
6 Abraham Findly	" 14 " " " " " "	24	20	4	25	25	3		3 00	49+49+ 83 92	9	2	✓		2 70	
5 O. P. Winters	55 " 17 " " " " "	24	20	4	12 1/2	12 1/2	5									
Same	" " 13 " " " " " "	24	20	4	25	25	5		5 00	49+50+ 92 16	24	6	✓		7 20	
4 E. A. Woseback	" 139 in Meade & Co. add	24	20	4	25	25	3									
									186 00							167 40

Viewer's Report of

TABULAR STATEMENT OF ASSESSMENTS, BENEFITS, ETC.

Ditch.

Viewer's Report of

Ditch.

Table with columns: NAMES OF OWNERS, DESCRIPTION OF LANDS, Section, Township, Range, Acres Assessed, Acres Assessed, Acres Benefited, Amount of Benefits, Amount of Assessments, From Station, To Station, Feet Long, Cubic Yards to be Removed, Price per Cubic Yard, Cost of Construction of Share.

To the Honorable Board of Commissioners of

County, Indiana:

We, the undersigned, appointed by this Court, at its certified copy of a petition and order of Court for a... by... and others, handed us by the Auditor, would represent that according to said order we, on the day named therein, to-wit: the... day of... 18... in company with... a civil engineer, made an accurate survey of the line of said proposed... from its source to its outlet. A plat of said... is filed herewith including the survey by the engineer, marked "Exhibit...". 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... Dollars. We also apportioned and set apart to each parcel of land a share of said work in proportion to the benefits received, all of which will fully appear by a tabular statement in this report. 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 statement in this report. After a full and careful view and examination, we are of the opinion that the drain as located by the survey will be of

The following statement shows who are benefited, the lands thereof and assessment thereon, location, length of each share, amount of assessments, amount of benefits, amount of dirt to be removed from each share, price thereof per cubic yard, and total cost of each share:

Table with columns: NAMES OF OWNERS, DESCRIPTION OF LANDS, Section, Township, Range, Acres Assessed, Acres Assessed, Acres Benefited, Amount of Benefits, Amount of Assessments, From Station, To Station, Feet Long, Cubic Yards to be Removed, Price per Cubic Yard, Cost of Construction of Share.

Viewer's Report of

Ditch.

TABULAR STATEMENT OF STATIONS, WIDTH, DEPTH, LENGTH, ETC

STATIONS.	WIDTH AT TOP.		DEPTH OF CUT.		WIDTH AT BOTTOM.		WIDTH OF CLEARING OR TIMBER.
	FEET.	INCHES.	FEET.	TENTHS.	FEET.	INCHES.	
Continued from Page 1 -							
Commencing 2 rods North of the South West corner of Section 13 Township 20 N of Range 4 East							
Thence East 1000 feet							
Thence South 15° East 300 feet							
Thence South 35° East 500 "							
Thence South 53° East 200 feet							
Thence North 69° " 250 "							
Thence North 79° " 300 "							
Thence North 66° " 600 "							
Thence North 69° " 650 "							
Thence North 55° " 320 "							
Thence East 940 "							
Thence South " 160 "							

And terminating in an open ditch about 40 rods west and 10 rods North of the South East corner of Section 13 Township 20 N of Range 4 East.

Said ditch should be constructed as follows -
 Station 0 To Station 33+50 one row 15 inch tile Stations 33+50 To Station 54+10 one row 18 inch tile - Stations 54+10 To Station 65 an open ditch 2 feet wide in bottom

Specifications
 All tile to be good and perfect tile well burned & round & free from defects - and laid in the ditch to the established grade in a true line - well matched to gatter - so when completed to form the truest possible line of pipes - No tile to be covered until secured by the engineer in charge after which the same to be well covered - Open ditch to be 2 feet wide in bottom and to have a slope of one horizontal to one vertical all dirt to be thrown back 2 feet from edge of ditch

GENERAL SPECIFICATIONS AND SUGGESTIONS

The length of the ditch						
The fall of the established grade is	feet from Station	0	Station	54	is	$\frac{24}{100}$ feet each 100 feet
	"	54	"	65	"	$\frac{50}{100}$ "
The total fall is	$14 \frac{50}{100}$	feet to the				

Wm. E. Craig
 Commisary