
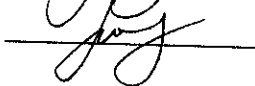

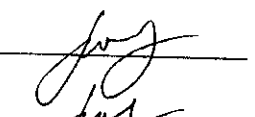
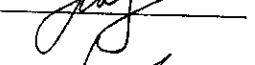



Drain: ALEXANDER HARE **Drain #:** 183
Improvement/Arm: _____
Operator: J. LIVINGSTON **Date:** 1-7-04
Drain Classification: Urban/Rural **Year Installed:** 1915

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 

State of Indiana

SS

Hamilton County

In the matter of the Alexander Hair et al Drain.

Report of Drainage Commissioners and Engineer:
to the Honorable Judge of the Hamilton Circuit Court.

We, the undersigned Commissioners of drainage, to whom was referred the above entitled petition for the drainage of certain lands in ~~Wayne~~ ^{Fall Creek} Township Hamilton County, Indiana, respectfully report that We met on the ^{15th} ~~12th~~ day of ^{July} ~~February~~, 1915 at ^{9 A.M.} ~~10~~ A.M. at the upper end of the proposed drain and proceeded to view and lay out and examine said proposed drain and lands likely to be effected thereby.

We would respectfully report that the drainage as proposed is practicable, that the same when completed will improve the public health and will be of public utility: (that there will be ^{one} ~~two~~ public highways benefited by said drainage) ^{that it will repair & benefit the Musselman drain.}

We would further report that the cost of construction, damages and expenses of effecting said proposed drain will be less than the benefits to the owners of the lands likely to be benefited by said proposed drainage.

We would further report that we have definitely determined the best and cheapest method of drainage of said lands: we have fixed the route: location and character of said proposed work and fixed the same by metes and bounds, courses, distances and

Tile.

All tile and materials used in the construction of the work to be first class in every respect and subject to the approval and inspection of the superintendent in charge of the work before being used by the contractor.

The old tile that are taken from the old ditch shall remain the property of the persons owning the land upon which the tile has been laid.

Ditching.

After the ditch has been dug to the proper grade the tile shall be laid in the trench at the correct grade as shown on profile herein attached with the joints well matched and to be left uncovered until inspected and accepted by the engineer in charge of the work, after which they shall all be covered and the ditch filled full and well packed so that no settlement may occur.

Estimated Cost of Construction.

| | | |
|--|----------------|---------------|
| 1372 cu. yds. (excavation) | at 25¢ cu. yd. | \$ 343.00 |
| 2492 feet 14 in. drain tile | " 14¢ per ft. | 348.88 |
| 553 " 12 " " " | " 9¢ " " | 49.77 |
| 1177 " 18 " " " | " 25¢ " " | 294.25 |
| 6 " 18 " salt glazed sewer pipe | | 3.00 |
| Laying tile, filling ditch and hauling tile | | 173.00 |
| One retaining wall with wing (22'x6'x 2') | | 60.00 |
| <i>Arm No 1</i> 264.8 cu. yds. (excavation in Arm #1) at 25¢ cu. yd. | | 66.20 |
| 1234.6 feet 8 in. drain tile at .048¢ per ft. | | 59.26 |
| Laying tile, filling ditch and hauling tile | | 45.00 |
| Contingent expenses | | <u>150.00</u> |
| Total estimated cost (including arm) | | \$1592.36 |

descriptions, guides and bench marks including all arms and branches so as to provide for the complete drainage of the lands to be effected by the proposed work.

That we have divided the ditch or drain into stations not more than one hundred feet in length and we have assessed the benefits and damages as the case may be to each separate tract of land and to each corporation and township effected. That we have fixed the beginning and outlet so as to secure the best results, and we have run the line of said ditch so as to secure the best results and cause the least possible injury to the lands effected and so as to benefit the public highway.

We have divided the drain into sections of 100 feet in length by setting stakes at each 100 feet and numbered from ^{Station} 0 to ^{Station 26} 42 plus ^{Station 42} 32 feet on the main ditch and from ^{Station} 0 to ^{Station 11} 12 plus 34.6 feet on Arm No. 1.)

Said Arm No. 1 empties into main ditch at Station 14 plus 60 ft. Location. (Main Ditch)

Beginning one rod east and one rod south of the northwest corner of section 18, Township 18 N, Range 6 E., run thence, north 15 degrees west, 553 feet; thence, north 85 degrees west, 1147 feet; thence south 10 degrees west, 1345 feet; thence north 60 degrees west, 630 feet; thence south 65 degrees west, 557 feet and empty into Grassy Creek Ditch on the east half of the southwest quarter of section 12 township 18 north, range 5 east.

Requirements.

(Main Ditch.) To consist of one row of ⁸ 12 inch ^{drain} tile from station 0 to station ¹⁴ 5 plus ⁶⁰ 55 feet, one row of 14 inch ^{drain} tile from station ¹⁴ 5 plus 53 feet to station ²⁶ 30 plus ³⁶ 45 feet, and one row of 18 inch tile from station 30 plus 45 feet to station 42 plus 32 feet.

Location. (Arm No. 1.)

Beginning 80 rods north and 40 rods west of the northwest corner of section 18, township 18 north, range 6 east, in section

7, township 18 north, range 6 east, at a stake marked 0 and run thence south 600 feet, thence south 65 degrees west 634.6 feet to a stake No. 5 plus 43 feet on the main ditch.

Requirements. (Arm No.1.)

Arm No. 1 to consist of 1234.6 feet of 8 inch tile.

Retaining Wall.

At station 42 plus 32 feet (at the end of the tile) to be constructed a retaining wall of re-inforced concrete 16 feet long by 6 feet high and 6 feet wing. (See plans.) Thickness at base to be 4 feet and batter to 2 feet at top. Top of wall to be sagged from ends to center -center being one foot lower than the ends.

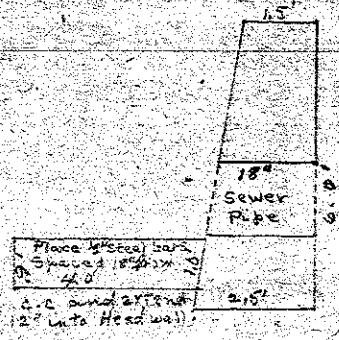
Foundation to be made two feet below the grade of the tile, said grade to extend for full length of wall construction.

Wall to be constructed of concrete made from one part Portland cement to six parts clean sand and gravel. Mixture to be made as wet as consistent with satisfactory placing and spaded into place without delay. Gravel and sand must be suitable to the superintendent of construction.

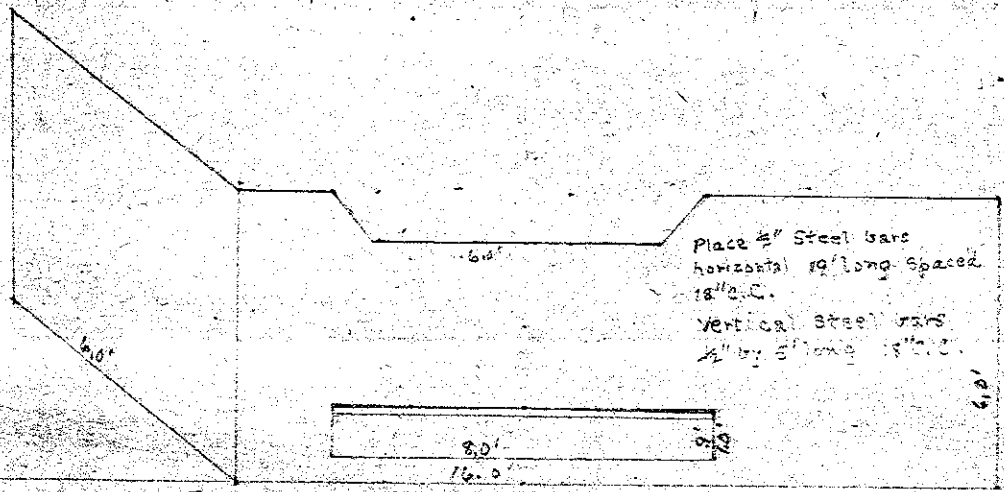
Forms- Neat forms of lumber shall be built to receive the concrete, said forms to be built of evenly matched lumber and be thoroughly braced so as to provide for the tendency to bulge or spring out of line. The forms for the face side of the wall shall be made free from blemishes so as to present a smooth appearance when forms are removed.

Water Table. On the downstream side and connected to and made a part of the foundation of the wall shall be constructed a water apron 8 feet by 4 feet by 1 foot in thickness, said water apron or table to be placed so as top of same shall be 2 inches below grade of tile and slope downstream 1/4 inch

Angle H.C. d wall for Alex. Vault Ditch



Cross Section



Angle Headwall for Alex. Star Ditch

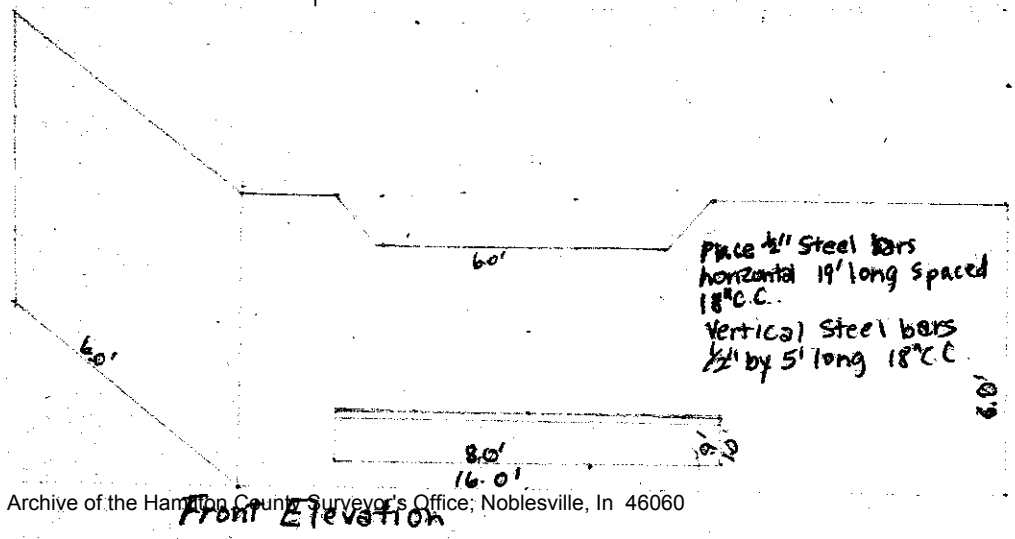
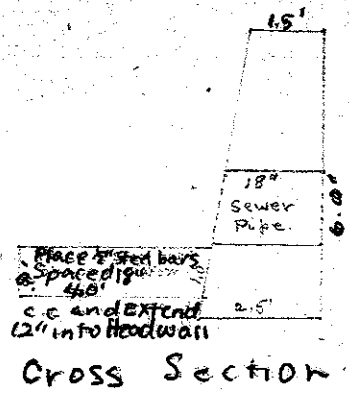


Exhibit B. (Main Ditch.)

| No. of Station | Depth of Cut | Open Ditch Mid Cut | No. of Station | Depth of Cut | Open Ditch Mid Cut |
|----------------|--------------|--------------------|----------------|--------------|--------------------|
| 0 | 3.60 | | 23 | 6.15 | |
| 1 | 3.55 | | 24 | 5.94 | |
| 2 | 3.32 | | 25 | 5.98 | |
| 3 | 2.80 | | 26 | 5.90 | |
| 4 | 3.46 | | 27 | 5.35 | |
| 5 | 5.90 | | 28 | 5.38 | |
| + 53 | 4.95 | | 29 | 5.28 | |
| 6 | 5.35 | | 30 | 5.87 | |
| 7 | 5.55 | | + 45 | 1.57 | |
| 8 | 6.32 | | 31 | 5.84 | 1.10 |
| 9 | 6.50 | | 32 | 6.78 | 0.97 |
| 10 | 6.33 | | 33 | 5.09 | 1.17 |
| 11 | 6.23 | | 34 | 5.33 | 1.44 |
| 12 | 6.76 | | 35 | 4.89 | 1.43 |
| 13 | 6.74 | | 36 | 3.88 | 1.02 |
| 14 | 6.79 | | + 75 | 4.61 | 1.17 |
| 15 | 6.91 | | 37 | 3.05 | |
| 16 | 6.80 | | 38 | 3.61 | |
| 17 | 6.40 | | 39 | 3.25 | |
| 18 | 6.24 | | 40 | 3.03 | |
| 19 | 6.27 | | 41 | 2.67 | |
| 20 | 6.37 | | 42 | 3.43 | |
| 21 | 6.35 | | 32 | 3.10 | |
| 22 | 5.92 | | | | |

Exhibit B (Arm No.1.)

| No. of Station | Depth of Cut | Open Ditch Mud Cut |
|----------------|--------------|-----------------------|
| 0 | 3.47 | |
| 1 | 4.04 | |
| 2 | 4.50 | |
| 3 | 4.34 | |
| 4 | 4.27 | |
| 5 | 4.46 | |
| 6 | 4.73 | |
| 7 | 4.53 | |
| 8 | 4.53 | |
| 9 | 4.02 | |
| 10 | 4.63 | |
| 11 | 4.39 | |
| 12 | 4.43 | |
| * 34.6 | 4.59 | |

~~DL S.W. 13/18 N.W. 18/18~~ 6-15-6

| No. | NAMES | DESCRIPTION OF LANDS | Section | Township | Range | ACRES ASSESSED | | ACRES BENEFITED | | AMOUNT OF ASSESSMENT | | TOTALS | |
|-----------------------|--------------|----------------------|---------|----------|-------|----------------|------|-----------------|------|----------------------|------|--------|------|
| | | | | | | Acres | Hun. | Acres | Hun. | \$ | Cts. | \$ | Cts. |
| 1 | Alex. Hare. | Pt. S.E. S.W. | 12 | 18 | 5 | 60 | | | | 420 | 00 | 420 | 00 |
| 2 | W. H. White | " S.W. S.E. | 12 | 18 | 5 | 30 | | | | 210 | 00 | | |
| | " " " | " S.E. S.E. | 12 | 18 | 5 | 10 | | | | 70 | 00 | 7 | |
| | " " " | " N.E. N.E. | 13 | 18 | 5 | 5 | | | | 35 | 00 | 315 | 00 |
| | Joe Gatewood | " S.E. - S.E. | 12 | 18 | 5 | 30 | | | | 240 | 00 | 240 | 00 |
| | Wm Brattan | " SW - SW | 7 | 18 | 6 | 40 | | | | 310 | 00 | 310 | 00 |
| | Musselman | " N.W. - N.W. | 18 | 18 | 6 | 26 | | | | 208 | 00 | 208 | 00 |
| Wayne Township | | | | | | | | | | | | | |
| North & South Between | | 12/7 - 13/18 | | | | | | | | | | | |
| East & West Between | | 12/7 - 13/18 | | | | | | | | | | 100 | 00 |
| | | | | | | | | | | 1593.00 | | | |

State of Indiana

ss

Hamilton County

The undersigned viewers and engineers to whom was referred the above entitled petition for report after being duly sworn upon oath say that they have personally examined the whole line and route of the proposed ditch that the assessments herein made and reported are correct, just and equitable to all parties therein named as interested, that no other lands will be benefited or injured by said proposed drain that the above and foregoing report is true in substance and in fact as we verily believe.

Viewers.

Engineer.

Subscribed and sworn to before me this.....day of
..... 1915.

Clerk.

Veiw'er's Expense.

| | |
|----------------------|---------|
| W.W.Morris | \$16.00 |
| W.P.Castor | 12.00 |
| E.A.Baker (Engineer) | 32.00 |
| Stakes | 1.50 |