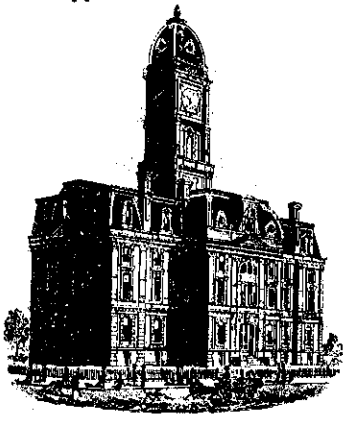


Drain: ROSS 2 MAIN Drain #: 728
Improvement/Arm: RECONSTRUCTION
Operator: J. L. WILGUSTAL Date: 6-2-04
Drain Classification: Urban/Rural Year Installed: 1988

GIS Drain Input Checklist

- Pull Source Documents for Scanning _____ *JWJ*
- 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 _____ *JWJ*
- Enter Drain Age into Posse _____
- Sum drain length for Watershed in Posse _____
- Check Database entries for errors _____

RECONSTRUCTION CONSISTED OF DREDGING CHANNELS, IMPROVING TILE OUTLETS, VARIOUS STRUCTURES, ETC. THERE WAS NO NEW DRAIN ADDED.



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

—773-6510 Ext. 49—
776-9626

Noblesville, Ind. 46060 October 20, 1987

TO: Hamilton County Drainage Board

RE: Ross and Mann Drainage Area

Attached are plans, drain map, drainage shed map and schedule of assessments for the proposed reconstruction of the Ross and Mann Drainage Area. At this time the drain is Number 2 on the Classification List. The proposed drainage area is to include the Mahala Ross, William Mann, Ambrose Teter and Orr and Myers Drains. The Orr & Myers Drain was requested for Classification on March 20, 1978 by Lois Wilson and V. John Davis. On May 19, 1982, another petition was submitted by seven landowners of which five (5) represent 20% of the drainage area.

The Mahala Ross Drain was petitioned to the Commissioners in December 1880. The open ditch was 6300 feet in length. At sometime approximately 1200 feet of the open ditch was tiled. Allotments were made on this ditch in 1930, 1933 and 1935.

The William Mann Drain was petitioned for and ordered constructed by the Circuit Court in 1884. This ditch consisted of a main ditch 4750 feet in length. Arm #1 2250 feet and Arm #2 870 feet. This ditch had 3125 feet of tile with 4745 feet of the ditch as open ditch, for a total of 7870 feet. The construction of the drain was reported finished on March 7, 1886. The open ditch was cleaned in 1889 and 1906. In later years allotments were made in 1930, 1933 and 1935.

The Ambrose Teter (aka Teter and Robins Drain) was ordered constructed by the Circuit Court in 1884. This open ditch is 2800 feet in length and was reported completed in February 1887. Allotments were made on this ditch in 1930, 1933 and 1935.

The Orr & Myers Drain is a tile drain constructed through the Commissioners in 1900. The drain is 3700 feet in length.

In 1954 the Ross, Mann and Teter Drains were dredged as one project. This was done through the Circuit Court.

The proposed drainage area will involve the lengths of these drains as originally constructed. There will be neither additional lengths nor vacation of lengths under this proposal. Therefore, the total length of drain involved in the drainage area is 20,670 feet.

The attached plans call for the clearing and dredging of the open ditches, except approximately 2350 feet of the downstream portion of the Ross Drain. In addition to the clearing and dredging, various erosion control structures are to be placed along the drain.

Breathers are to be placed on the tile of the Mann Drain on both the main ditch and Arm #1. These will be on the North side of 246th Street. Also the tile on the Orr & Myers Drain is to be cleared of all brush twenty-five (25) feet on either side of the tile center line. The tile is to be investigated and repaired through the two wooded areas. Tile replacement has been included in the cost estimate. Three breathers are to be installed on this tile.

The cost estimate for the proposed work is as follows:

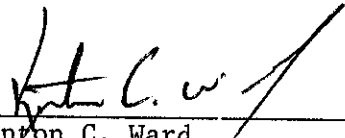
Clearing	5.75 acres @ \$1700.00/ac	\$ 9,775.00
Excavation	10,200ft @ \$2.50/ft	25,500.00
Clean Bridges	2 @ \$200.00/ac	400.00
Remove pipe crossing		200.00
Install Ford Crossing		
Riprap	66 tons @ \$20.00/ton	1,320.00
Bedding	15 tons @ \$17.00/ton	255.00
Install In-channel structure		
Riprap	124 tons @ \$20.00/ton	2,480.00
Bedding	50 tons @ \$17.99/ton	850.00
Install silt traps	5 @ \$300.00/each	1,500.00
Seeding w/fertilizer	7 acres @ \$350.00/ac	2,450.00
w/o fertilizer	3.5acres @ \$150.00/ac	525.00
Armor corners Riprap	44tons @ \$20.00/ton	880.00
Install tile breather	5 @ \$250.00/each	1,250.00
Investigate tile system	8hrs. @ \$50.00/hr	400.00
Replace tile for Orr-Myers	600 ft of 12" @ \$3.75/ft	2,250.00
	500 ft of 10" @ \$3.50/ft	1,750.00
	Clearing 1ac @ \$1750.00/ac	1,750.00

Install erosion control structures		
Structures 1,3,4,8,11,12	@ \$1600.00/each	\$ 9,600.00
Structures 2,5,9	@ \$ 600.00/each	1,800.00
Structures 7,10	@ \$ 400.00/each	800.00
Structure 6	@ \$ 600.00/each	600.00
Install tile outlets and tile		
10' of 6" tile @ \$2.00/ft		20.00
25' of 8" tile @ \$2.50/ft		63.00
40' of 10" tile @ \$3.00/ft		120.00
4" Animal Guard 1 each		10.00
10" Animal Guard 1 each		25.00
12" Animal Guard 1 each		30.00
20' section of CMP w/A.G. 8" 11 @ \$160.00/each		1,760.00
10" 1 @ \$200.00/each		200.00
12" 2 @ \$225.00/each		450.00
15" 1 @ \$250.00/each		250.00
Install surface drain 600' @ \$1.00/ft		600.00
	Sub-Total	\$69,863.00
	10% Contingencies	6,986.30
	TOTAL	\$76,849.30

I have examined the plans and drainage shed and believe the drain will benefit each tract equally. Therefore, I recommend each tract be assessed on an equal per acre basis.

I recommend the reconstruction assessment be set at \$73.50 per acre with a \$100.00 minimum assessment. I further recommend the maintenance assessment be set at \$2.00 per acre with a \$6.00 minimum. This will generate a total annual assessment of \$2,115.68.

I recommend that the Board set a hearing for reconstruction and maintenance for December 1987.



 Kenton C. Ward
 Hamilton County Surveyor

KCW/no



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, Surveyor

776-9626

Noblesville, Ind. 46060 January 3, 1989

FILED
JAN 17 1989

HAMILTON COUNTY SURVEYOR'S OFFICE

SECRETARY

TO: Hamilton County Drainage Board

RE: Ross-Mann Drainage Area

In November, 1988 a final inspection was made on the reconstruction of the Ross-Mann Drainage Area done by William Noland & Son. At that time I found the project complete and acceptable.

One change order for the project was approved. The work ordered is as follows:

1. 15 ton additional riprap was installed on the three (3) road crossings. Total cost of this work is \$270.00. The cost figure noted on the change order is incorrect.
2. Increase rock ford size by 1/3.
3. Install additional breather between Robins and Honnald on Ross tile. (An existing catch basin was found and no breather installed.)
4. Install two (2) slotted risers on North side of 246th Street on Arm #1 of Wm Mann. This was one at a cost of \$132.50 each.
5. Install STR 9 at STA 65 of Mann Drain on East Bank.
6. Install blind inlet at original site of STR 9 on Ambrose Teter Drain.
7. Repair catch basin on South side of 246th Street at STA 0 of Arm 1 of William Mann.
8. Install additional 12 inch tile on McKay property. (Used 700' total which is 100' over bid. Did not use any 10" tile as per bid.)
9. Install additional tile outlet pipes as needed. (34 were installed, only 15 were bid. Also quite a bit of additional plastic tile was used for connections.)
10. Rod tile through woods on McKay. Total footage done was 870 feet at a total cost of 1087.50 plus four (4) hours of backfill use.

Another change not covered above is the 60"x68" culvert, 20 feet in length, was installed

by Marathon Pipeline Company. This was done in order to maintain minimum cover requirements for the pipeline. The entire cost of this installation was paid directly to the contractor by Marathon.

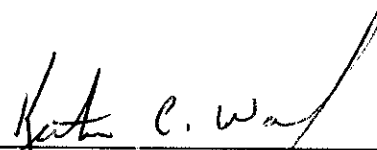
The Bid Price of the project was \$52,133.05. The additional work cost is \$6395.58 which brings the total project cost to \$58,528.63. The estimated cost was \$76,849.30. With 1,034.942 acres in the drainage shed, I recommend the Board revise the reconstruction assessments by decreasing the cost to \$56.60 per acre from \$73.50 per acre. The minimum assessment should remain the same at \$100.00. At this time the following payments have been made:

<u>CLAIM NO.</u>	<u>DATE OF CLAIM</u>	<u>AMOUNT</u>
88-175	April 11, 1988	\$14,419.25
88-192	May 6, 1988	\$15,480.20
88-234	June 13, 1988	\$14,518.95
88-330	October 11, 1988	7,727.57

Total payments made to date is \$52,145.97. A claim for the retainer, two breathers and the surface drain for \$6,382.66 has been submitted. This claim also reflects a \$540.00 reduction on overpayment for additional rip rap on bridges.

The contractor has submitted the statement for expenses along with two letters from Mr. McKay. These give permission to leave the wood piled in the woods and allow no repairs made to the fence on the East and West sides of the woods. Because I believe all submittals to be complete as is the work itself, I recommend the Board approve and accept the project as complete and authorize final payment.

KCW/no



Kenton C. Ward
Hamilton County Surveyor