



KCL

SURVEYOR'S OFFICE
Hamilton County

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May 3, 2023

TO: Hamilton County Drainage Board

RE: **Adam Ault Drain Reconstruction**

Attached are the petition, construction drawings, schedule of assessments and drainage shed map, for the Adam Ault Drain Reconstruction Project.

The Adam Ault Drain is located in White River Township of Hamilton County and benefits properties in Section 1 of Township 20 North, Range 5 East and properties in Section 6 of Township 20 North, Range 6 East. The drain consists of tiles totaling 3,435-feet in length. The drainage shed is 79.53-acres in Hamilton County and 18.51 acres in Tipton County totaling 98.04 acres.

The Adam Ault Drain discharges to the O.F. Beeson Drain (Bear Creek) at Station 73+44 of the O.F. Beeson Drain (approximately).

The Adam Ault Drain needs reconstruction at this time due to its age, the lack of adequate capacity, and because the condition of the drain has deteriorated beyond the practicality of normal routine maintenance.

The attached plans, dated March 16, 2023, were prepared by the Hamilton County Surveyor's Office. The plans are for reconstructing the entire length of the Adam Ault Drain.

The drain is listed as Number 19 on the 2023 Drain Classification List for Reconstruction.

A petition for reconstruction of the Adam Ault Drain at 296th Street from the Tipton County Commissioners was presented to the Drainage Board on May 10, 2021. The petition was accepted during the meeting. (See Hamilton County Drainage Board Minutes Book 20, page 23).

The drain stationing in this report references the historic stationing of the drain. The project stationing of the construction plans by the Hamilton County Surveyor do not follow the historic stationing.

I have made a personal inspection of the drain. Upon doing so, I believe that the drain is practicable; will improve the public health; will be of public utility; and that the costs, damages and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefited.

History

Per a drainage report dated August 22, 2012, the Adam Ault Drain was constructed by order of the Hamilton County Commissioners in 1886. The drain consists of 1,075-feet of tile drain in Tipton County and 2,360-feet of tile drain in Hamilton County. (See Hamilton County Drainage Board Minutes Book 14, Page 334).

The records on file with the Hamilton County Surveyor indicate that Adam Ault and Albion Shaw, as owners of land "which would be benefitted by drainage", petitioned the Commissioners of Hamilton County in March of 1886 for the creation of the Adam Ault Drain as the drainage "cannot however be accomplished in the best and cheapest manner without affecting the lands of others" and that such drainage could "be best had by a ditch". The petition closes by asking "that said ditch be tiled and that reviewers be appointed to view said proposed ditch."

Per the Viewers Report of April 24, 1886, the Adam Ault was to consist of 2-rows of 6-inch tile 1000-feet in length between Stations 0+00 and 10+00; 2 rows of 7-inch tile 700-feet in length between Stations 10+00 and 17+00; and 2-rows of 8-inch tile 1,735-feet in length between Stations 17+00 and 34+35. The drain was to be a total length of 3,435-feet.

The Adam Ault Drain was placed on maintenance at hearing during the July 7, 1980 meeting of the Drainage Board. (See Hamilton County Drainage Board Minutes Book 1, page 365).

The drain was proposed for reconstruction in 1994 (See Hamilton County Drainage Board Minutes Book Addendum pages 266-267). This reconstruction project was not completed.

The maintenance assessment for the Adam Ault Drain was increased from the \$3.00 minimum to the Indiana Statutory \$5.00 minimum at hearing during the January 28, 2002 meeting of the Drainage Board. (See Hamilton County Drainage Board Minutes Book 6, pages 243).

In a letter dated October 18th, 2012, the Tipton County Drainage Board indicated that during the September 24, 2012 meeting of the Tipton County Drainage Board, the Board waived the rights for Joint Drainage Board for the Bear Creek Drainage Area (watershed).

The Adam Ault Drainage Shed was combined with the Bear Creek Drainage Area at hearing during the October 22, 2012 meeting of the Drainage Board (See Hamilton County Drainage Board Minutes Book 14, pages 334-344).

The Bear Creek Drainage Area was combined with the Duck Creek Drainage Area at hearing during the November 24, 2014 meeting of the Drainage Board. The October 6, 2014 report states "the Bear creek

Drainage Area consists of seven (7) separate regulated drains. Those drains are the West Bear Creek, O.F. Beeson, George Parker, Jonas Rogers, Adam Ault, J.J. Billhymmer, and Rhuetta Hankley Drains." (See Hamilton County Drainage Board Minutes Book 16, pages 40-48).

As previously stated, a petition for reconstruction of the Adam Ault Drain at 296th Street from the Tipton County Commissioners was presented to the Drainage Board on May 10, 2021. The petition was accepted during the meeting. (See Hamilton County Drainage Board Minutes Book 20, page 23).

At the March 13, 2023 meeting of the Drainage Board, the Board approved the reconstruction project for bids with bids due at the Drainage Board meeting on April 24, 2023. (See Hamilton County Drainage Board Minutes Book 21, page 201).

At the April 24, 2023 meeting of the Drainage Board, the following bids were received:

Bidder	Bid Amount
Indiana Earthworks, LLC	\$327,985.00
United Construction Services	\$359,105.00
Morphey Construction	\$389,000.00

The apparent low bidder was Indiana Earthworks, LLC.

Work Order History

Based on a search of the County's database for drainage complaints, there have been eight (8) drainage complaints logged into the County's database for such complaints since 2002. The complaints are listed below

Job #	Issue	Description	Location
DC-2002-00474	12/4/2002	Sediment in tile	North side of 296th Street between Carpenter Road & Haworth Rodd
DC-2003-00143	4/17/2003	Broken tile	291st Street & Carpenter Road
DC-2003-00284	6/3/2003	Broken tile	West side of Carpenter Rodd in side ditch
DC-2012-00044	2/22/2012	Broken down tile	South of 296th Street, East of Carpenter Road
DC-2013-00540	12/4/2013	Blow hole(s)	South of 296th Street, East of Carpenter Road

DC-2015-00038	3/18/2015	Surface water	291st Street & Carpenter Road
DC-2015-00091	4/7/2015	Blow hole	291st Street & Carpenter Road
DC-2018-00444	11/21/2018	Wet area; used to drain better	South of 296th Street, East of Carpenter Road

There have been a total of seven (7) Work Orders since 2002 with a total value of \$3,706.10. The Work Orders are listed below.

Job #	Type of Repair	Cost (\$)	Date Complete
WO-2002-00221	Sediment in tile	761.00	8/13/2003
WO-2002-00222	Sediment in tile	209.00	8/13/2003
WO-2003-00088	Broken tile	412.00	1/14/2005
WO-2003-00141	Broken tile	278.00	1/19/2005
WO-2012-00073	Broken down tile	326.00	4/10/2012
WO-2014-00022	Blow hole	280.00	3/25/2014
WO-2015-00135	Three (3) Blow holes	1,440.10	6/17/2015

There are no outstanding work orders for this drain at this time.

Existing Condition

Excepting any spot repairs made over the years, the Adam Ault Drain consists of 3,435-feet of the original tile installed in 1886. The current, total length of the drain is 3,435-feet and consists of the following.

1. 2-rows of 8-inch tile between Stations 34+35 and 17+00.
2. 2-rows of 7-inch tile between Stations 17+00 and 10+00.
3. 2-rows of 6-inch tile between Stations 10+00 and 0+00.

The drain functions but is undersized by today's standards. This is most evident on 296th Street which floods and is impassable during and after heavy rainfall events. The flooding also affects the adjacent properties. Also, portions of the drainage shed served by the drain have standing water issues that affect crop production. The tile is at least 137-years old and has exceeded the expected service life of such a tile. Routine maintenance is required for the tile to function.

Reconstruction Project

Based on the historic stationing of the drain, the length of the drain to be reconstructed is 3,435-feet. Based on the stationing of the construction plans, the length of the drain to be reconstructed is 3,424.66-feet. The difference is 10.34-feet and represents 0.30% of the length of the Drain based on the historic stationing. For purposes of this report, this difference is considered negligible and the report references the historic stationing of the Drain.

The project will be let by the Hamilton County Drainage Board and the construction contract will be managed by the Hamilton County Surveyor's Office.

The proposed pipe was designed for agricultural drainage of the watershed served by the new pipe with a Drainage Coefficient (rate of removal of water in a 24-hour period, in inches) of 3/8". The size and slope of the pipe was governed by the elevation of the existing O.F. Beeson Drain (open ditch) at the outfall, available cover over the pipe along the existing pipe alignment and the flow rate determined using the Drainage Coefficient.

The project will include the following:

1. The installation of 30-LF of 18" RCP with granular backfill under Carpenter Road; 78-LF of 18" RCP with granular backfill under 296th Street; 3,297-feet of 18-inch perforated HDPE tile; 20-LF of 24" CMP with animal guard at the tile outlet; 4, 6" CMP breathers; 8-LF of 6-inch HDPE tile connection; and 1 existing tile connection.
2. The project will also include clearing of the easement area; fence removal and repair; erosion and sediment control including the installation of construction entrances, a concrete washout, rip-rap, and seeding; maintenance of traffic; roadway pavement removal and repair; removal and repair of gravel shoulder; driveway removal and repair; special backfill; and other ancillary construction.
3. Any excess soil material generated from the installation of the new pipe shall be spread within the limits of the existing easement so as not to negatively affect the existing surface drainage flow.

Easements

The drain will be reconstructed within the existing easement. No additional easements are needed for this project.

Permits

As this project will replace an existing tile with a new tile, no permits are required from IDNR, IDEM, or the U.S. Army Corps of Engineers.

Construction Cost

The cost of construction is outlined below based on the bid submitted by Indiana Earthworks, LLC.

Line Item	Item Description	Unit	Quantity	Unit Cost (\$)	Total Cost (\$)
H-1	Maintenance of Traffic [Carpenter Road]	LS	1	5,000.00	5,000.00
H-2	Roadway Pavement Removal and Repair [Carpenter Road]	SYS	20	320.00	6,400.00
H-3	18" RCP with Granular Backfill [Carpenter Road]	LF	30	250.00	7,500.00
T-1	Maintenance of Traffic [296th Street]	LS	1	5,600.00	5,600.00
T-2	Roadway Pavement Removal and Repair [296th Street]	SYS	55	227.00	12,485.00
T-3	Remove and Repair Gravel Shoulder [296th Street]	Tons	3	360.00	1,080.00
T-4	18" RCP with Granular Backfill [296th Street]	LF	78	161.00	12,558.00
B-1	Clearing	LS	1	5,200.00	5,200.00
B-2	Reset Fence	LF	40	120.00	4,800.00
B-3	Repair Asphalt Drive	SYS	3	520.00	1,560.00
B-4	Construction Entrance	EA	4	2,550.00	10,200.00
B-5	Concrete Washout	LS	1	2,500.00	2,500.00
B-6	18" Perforated HDPE Tile	LF	3,297	66.00	217,602.00
B-7	24" CMP with Animal Guard [Regulated Drain Outlet]	LF	20	195.00	3,900.00
B-8	6" CMP Breather	EA	4	2,300.00	9,200.00
B-9	6-inch Tile Connection	LF	8	225.00	1,800.00
B-10	Existing Tile Connection	EA	1	2,200.00	2,200.00

B-11	Revetment Rip Rap with Geotextile	Tons	76	150.00	11,400.00
B-12	Seeding	Acre	1	7,000.00	7,000.00
Total Construction Cost					327,985.00

Changes to the Drain

The two rows of tile of the existing Adam Ault Drain will be removed as the new tile is installed and replaced with a single row of tile. The current length of the drain will not be affected by this project.

Project Costs

Topographic survey and design was performed by the Hamilton County Surveyor's Office.

Construction staking, periodic grade checks, and as-built drawings will be performed by the Hamilton County Surveyor's Office.

The total value of the project is estimated to be as follows:

Construction	\$327,985.00
Construction Contingency (15%)	\$49,197.75
Total Project Cost	\$377,182.75

Project Funding


The costs for this project will be paid from the sources outlined below.

1. The cost of the tile under Carpenter Road shall be paid by the Hamilton County Highway Department per IC 36-9-27-71. Based on the bid costs for Line Items H1-H3, the lump sum cost to be charged to the Hamilton County Highway Department, including a 15% contingency, is \$21,735.00.
2. The cost of the tile under 296th Street shall be paid by the Tipton County Highway Department per IC 36-9-27-71. Based on the bid costs for Line Items T1-T4, the lump sum cost to be charged to the Tipton County Highway Department, including a 15% contingency, is \$36,481.45.
3. The remainder of the total project cost, equal to \$318,966.30, is recommended to be funded 80% by the Coronavirus State and Federal Fiscal Recovery Funds of the American Rescue Plan. There are ARPA funds currently allocated for this project. The amount to be paid by ARPA funds will be \$255,173.04.
4. I recommend the remaining 20% of the cost, \$63,793.26 be taken from the Duck Creek Watershed Maintenance Fund.

The maintenance fund balance for the Duck Creek Drainage Shed is currently \$219,733.56. Per IC-36-9-27-45.5 the Board may utilize to 75% of the maintenance balance for reconstruction projects. The Duck Creek watershed maintenance fund currently receives \$114,948.38 annually from maintenance assessments. I believe that no damages will result to landowners by the reconstruction of this drain. Therefore, damages shall be set at \$0.00.

I recommend that a hearing be held for this matter on June 26, 2023.

Sincerely,



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/pl1

STATE OF INDIANA)
) ss:
COUNTY OF HAMILTON)

BEFORE THE HAMILTON COUNTY
DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN THE MATTER OF THE
RECONSTRUCTION OF THE
Adam Ault Drain Reconstruction

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the **Adam Ault Drain Reconstruction** came before the Hamilton County Drainage Board for hearing **on June 26, 2023**, on the Reconstruction Report consisting of the report and the Schedule of Damages and Assessments. The Board also received and considered the written objection of an owner of certain lands affected by the proposed Reconstruction, said owner being:

Evidence was heard on the Reconstruction Report and on the aforementioned objections.

The Board, having considered the evidence and objections, and, upon motion duly made, seconded and unanimously carried, did find and determine that the costs, damages and expenses of the proposed Reconstruction will be less than the benefits accruing to the owners of all land benefited by the Reconstruction.

The Board having considered the evidence and objections, upon motion duly made, seconded and unanimously carried, did adopt the Schedule of Assessments as proposed, subject to amendment after inspection of the subject drain as it relates to the lands of any owners which may have been erroneously included or omitted from the Schedule of Assessments.

The Board further finds that it has jurisdiction of these proceedings and that all required notices have been duly given or published as required by law.


Wherefore, it is ORDERED, that the proposed Reconstruction of the **Adam Ault Drain Reconstruction** be and is hereby declared established.

Thereafter, the Board made inspection for the purpose of determining whether or not the lands of any owners had been erroneously included or excluded from the Schedule of Assessments. The Board finds on the basis of the reports and findings at this hearing as follows:

HAMILTON COUNTY DRAINAGE BOARD



PRESIDENT



Member

Member

ATTEST: 
Executive Secretary

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

Adam Ault Drain Reconstruction

NOTICE

To Whom It May Concern and: _____

Notice is hereby given of the hearing of the Hamilton County Drainage Board concerning the reconstruction of the **Adam Ault Drain Reconstruction** on **June 26, 2023** at **9:00 A.M.** in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana. Construction and maintenance reports of the Surveyor and the Schedule of Assessments proposed by the Drainage Board have been filed and are available for public inspection in the office of the Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

STATE OF INDIANA)
) SS BEFORE THE HAMILTON
)
COUNTY OF HAMILTON) DRAINAGE BOARD

IN THE MATTER OF **Adam Ault Drain Reconstruction + Tipton Co.**

NOTICE

Notice is hereby given that the Hamilton County Drainage Board at its regular meeting **June 26, 2023** adopted the reconstruction report of the Surveyor and the Amended Schedule of damages and assessments including annual assessment for periodic maintenance, finding that the costs, damages and expense of the proposed improvement would be less than the benefits which will result to the owner of lands benefited thereby.

The Board issued an order declaring the proposed improvement established. Such findings and order were marked filed and are available for inspection in the Office of the Hamilton County Surveyor.

If judicial review of the findings and order of the Board is not requested pursuant to Article VIII of the 1965 Indiana Drainage Code as amended within twenty (20) days from the date of publication of this notice, the findings and order shall become conclusive.

HAMILTON COUNTY DRAINAGE BOARD

BY: Mark Heirbrandt
PRESIDENT

ATTEST: Lynette Mosbaugh
SECRETARY