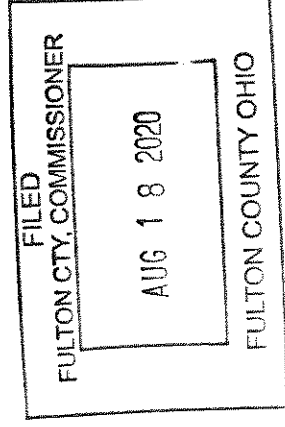


Engineer's Report
Ditch Improvement No. 2138
Tile Branch 7a1 Blue Creek
Petitioned by Don McClain et al.
June 30, 2020



PROJECT INITIATION

This drainage improvement was initiated through a single county drainage petition filed with the Fulton County Commissioners by the Don McClain on May 21, 2019. The petition calls for the installation of new outlet tile for the properties on Road 4 from Road B to the south approximately 1000 feet.

Currently, these properties drain through old agricultural drainage that was put in place in 1979. This old system is failing and causing flooding on numerous properties.

This proposed drainage improvement is located in Section 10, T-9-S, R-3-E in Swancreek Township, Fulton County, Ohio. A field review of the proposed project site was conducted by the Board of County Commissioners, Fulton County, on Thursday, August 8, 2019.

There are approximately 72 acres of land within the petitioned improvement watershed.

PROJECT OBJECTIVES

The primary objective of this improvement is to provide a modern outlet for the accelerated runoff from residential properties that have been developed along Road 4. Those lots have been drained into the old agricultural drainage tile originally placed in 1979 that is now failing.

Another objective is to provide an adequate outlet for agricultural drainage tile improvements in order to ensure that adjacent farmland remains productive.

Finally, establishing a systematic maintenance and operation plan and a source for future maintenance repair funding is another objective of this project. The future maintenance and operation plan will protect the adjacent landowner's investment in better drainage.

PROBLEMS OBSERVED

At one time the land along Road 4 was primarily open field. Parcels were sold off, new house lots were created and properties along the road were developed. Old tile mains ran along the north edge of a woods and have probably been disturbed by tree roots.

Public input at the Viewing described that the wet area has progressively gotten worse over the years as confirmed in aerial photography.

County forces have also fixed sections along Road B and patched the old clay tile numerous times.

WORK PROPOSED

The work proposed consists of the replacement of the outlet tile along the south side of Road B with new 15 and 12 inch tile. New basins would be installed along the roadway to allow access to the tile and a place for future maintenance. A new tile would also extend south through the Heber, McClain and Maneval properties to provide an outlet for the low spots in the rears of the properties.

Catch basin and/or drainage structure would be placed in low areas at lot lines. These structures would allow land owners future access to the system. All disturbed areas would be restored.

CONSTRUCTION ESTIMATE

The construction estimate is attached. The total estimated cost of the work proposed including contingencies, engineering and administrative costs are listed below.

The cost estimate for the project is \$73,379.43.

PROJECT BENEFITS AND ESTIMATED ASSESSMENTS

Assessments for the proposed improvement are based on the benefits received from the improved drainage outlet. The type and quantity of drainage runoff contributed by each parcel was considered. The primary benefits of this project are associated with improved residential drainage. Ag land and the Roads 4 and B rights-of-way will benefit as well. The estimated benefits of this project total \$146,614.50. The benefit to cost ratio is 2:1.

Residential properties will benefit from improved drainage by increasing or maintaining their property values. According to local real estate sources, as a general rule, properties suffering from standing water throughout their entire lots are often judged to be devalued as much as 20% to 30%. Properties with some standing water could be devalued as much as 10% to 20%. Areas that suffer even the stigma of standing water could be devalued by 5% to 10%. Standing water can flood septic systems and contribute to mosquito control problems and other health risks.

Agricultural property will benefit from the removal of excess storm water that ponds on fields or that saturates the root zone of growing crops.

MAINTENANCE

The Ohio Revised Code requires that all drainage improvement projects be placed on a permanent maintenance program. Maintenance activity is limited to the maintenance of the items originally constructed. The Fulton County Ditch Maintenance program is administered by the

county commissioners and carried out under the direction of the county engineer. Maintenance is paid for by periodic ditch maintenance assessments to the parcels in the watershed. The amount of the maintenance assessment is in proportion to the original ditch assessment for each parcel.

The Ohio Revised Code provides for the right of access to drainage tiles and open ditches constructed through ditch improvement petitions in order to perform necessary maintenance activities. The permanent maintenance access easement for this improvement will be forty feet (40) feet in width centered on the tile line.

There will be maintenance access through standing crops if it is necessary to enter crop fields during the growing season to make timely repairs. Crop damages can be paid if repairs are necessary during the growing season.

APPARENT FAVORABLE FACTORS

Apparent favorable factors associated with this project are as follows:

- A modern drainage outlet will be provided for the recent development along Road 4 and Road B.
- An improved agricultural drainage outlet will also be provided.
- The improvement will be placed on a permanent maintenance program to extend its useful life.
- There will be a mechanism for funding future maintenance repairs.
- Property values will be improved or protected by providing more consistent drainage maintenance.

APPARENT UNFAVORABLE FACTORS

The apparent unfavorable factors associated with this proposed drainage improvement are as follows:

- Lawn areas will be disturbed by initial construction activities and during future maintenance activity along the line of the improvement.
- Temporary disruption to farming operations may occur during any work that involves the installation of tile across the farm fields.
- Disruption to farming operations in the future due to any maintenance performed on the tile.

PROJECT FEASIBILITY

This project work plan is feasible and can be economically completed through the drainage improvement petition process.







Ditch 2138

8

4

Legend

- 12" 
- 6" 
- 8" 
- Feature 1 



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OFFICE OF THE FULTON COUNTY ENGINEER

Frank T. Onweller, P.E., P.S.,
County Engineer

Rod Creager, P.E., P.S.,
Chief Deputy Engineer

9120 Co. Rd. 14
Wauseon, OH 43567-9669
Telephone: 419-335-3816 Fax: 419-335-1091

ENGINEER'S ESTIMATE

PROJECT: Ditch No. 2138 Branch 7a1 Blue Creek

DATE: June 30, 2020

REF. ITEM NO.	NO.	QUANTITY	UNITS	DESCRIPTION	UNIT PRICE	ESTIMATED COST
<u>McClain Storm Water Outlet</u>						
1	202	2037	LF	Abandon Existing Drain Tile; 706.09	\$ 1.50	\$ 3,055.50
3	202	2	Each	Catch Basin Removed; 2-2-B	\$ 200.00	\$ 400.00
4	202	365	LF	Ditch Dipout	\$ 1.50	\$ 547.50
8	207	6	Each	Temporary Erosion Control; Inlet Protection CB 2-2-B	\$ 100.00	\$ 600.00
10	411	20	Tons	Stabilized Crushed Aggregate; Drive repair	\$ 45.00	\$ 900.00
12	452	20	S.Y.	Plain Concrete Pavement; Drive repair	\$ 80.00	\$ 1,600.00
16	603	4	Each	6-Inch Cap, Type C; 707.32	\$ 12.50	\$ 50.00
17	603	2	Each	6-Inch Tee, Type C; 707.33	\$ 15.00	\$ 30.00
18	603	6	LF	4/6-Inch Misc Connections, Type C; 707.33	\$ 15.00	\$ 90.00
19	603	520	LF	6-Inch Conduit, Type E; 707.33	\$ 8.00	\$ 4,160.00
20	603	2	Each	6-Inch Cap, Type C; 707.33	\$ 13.00	\$ 26.00
21	603	1	Each	8-Inch Tee, Type C; 707.32	\$ 15.00	\$ 15.00
22	603	4	LF	8-Inch Riser, Type B; 707.33	\$ 8.00	\$ 32.00
23	603	910	LF	8-Inch Conduit, Type E; 707.33	\$ 10.00	\$ 9,100.00
30	603	85	LF	12-Inch Conduit, Type B; 707.33	\$ 25.00	\$ 2,125.00
34	603	1749	LF	12-Inch Conduit, Type C; 707.33	\$ 15.00	\$ 26,235.00
35	603	25	LF	15-Inch Conduit, Type B; 707.33	\$ 30.00	\$ 750.00
35	603	165	LF	15-Inch Conduit, Type C; 707.33	\$ 20.00	\$ 3,300.00
36	603	1	Each	Animal Guard 15-Inch 707.33	\$ 50.00	\$ 50.00
53	604	6	Each	Catch Basin 2-2-B	\$ 1,100.00	\$ 6,600.00
55	659	4388	S.Y.	Seeding and Mulching Lawns	\$ 1.00	\$ 4,388.00
<u>Incidentals</u>						
58	103	1	Lump	Premium for Contract & Maintenance Bond.....	\$ 1,281.08	\$ 1,281.08
59	614	1	Lump	Maintaining Traffic.....	\$ 2,000.00	\$ 2,000.00
60	623	1	Lump	Construction Layout Staking.....	\$ 1,500.00	\$ 1,500.00
Storm Water Outlet Total						\$ 68,835.08

REF. ITEM NO.	ITEM NO.	QUANTITY	UNITS	DESCRIPTION	UNIT PRICE	ESTIMATED COST
				DRAINAGE IMPROVEMENT CONSTRUCTION TOTAL	\$	68,835.08
				<i>Engineering costs Survey and Design through Inspection</i>	\$	3,500.00
				<i>Clerks costs for mailing notices and publications</i>	\$	400.00
				PROJECT TOTAL ASSESSED	\$	72,735.08

1791 CO RD 4	1791 CO RD 4	SWANTON OH 43562	511	5.708	3.4	50%	100%	50%	\$ 8,424.00	\$ 3,702.23	\$ 3,963.34	\$ 1,165.69
1932 CO RD 4	1932 CO RD 4	SWANTON OH 43582	110	1.14	1.14	100%	100%	100%	\$ 15,000.00	\$ 6,592.30	\$ 7,057.22	\$ 6,190.55
CO RD 4	CO RD 4	5751 ALBERT LEYTHAM DR THEODORE AL 36582	511	1.554	1.554	50%	100%	50%	\$ 513.66	\$ 225.75	\$ 241.67	\$ 155.51
CO RD B	CO RD B	SWANTON OH 43569	511	18.095	18.095	100%	100%	100%	\$ 13,432.52	\$ 5,903.41	\$ 6,319.76	\$ 349.25
CO RD 4	CO RD 4	SWANTON OH 43576	110	6.891	6.891	100%	100%	100%	\$ 5,634.72	\$ 2,476.38	\$ 2,651.03	\$ 384.71
3781 CO RD B	3781 CO RD B	SWANTON OH 43572	101	2.76	2.76	45%	100%	45%	\$ 10,544.58	\$ 4,634.20	\$ 4,961.03	\$ 1,797.48
3585 CO RD B	13210 WATERVILLE SWAN	SWANTON OH 43568	511	2	2	10%	100%	10%	\$ 675.00	\$ 296.65	\$ 317.58	\$ 158.79
CO RD B	5757 W ROWLAND	TOLEDO OH 43613	511	36.919	9.43	10%	100%	10%	\$ 777.00	\$ 341.48	\$ 365.56	\$ 38.77
1901 CO RD 4	1901 CO RD 4	SWANTON OH 43564	511	1.4	1.4	50%	100%	50%	\$ 7,617.60	\$ 3,347.83	\$ 3,583.94	\$ 2,559.96
3949 CO RD B	3949 CO RD B	SWANTON OH 43571	110	1	1	50%	100%	50%	\$ 6,675.00	\$ 2,933.57	\$ 3,140.46	\$ 3,140.46
1850 CO RD 4	1850 CO RD 4	SWANTON OH 43575	511	2.648	2.648	100%	100%	100%	\$ 16,268.40	\$ 7,149.74	\$ 7,653.98	\$ 2,890.48
1888 CO RD 4	1888 CO RD 4	SWANTON OH 43574	110	4.241	4.241	100%	100%	100%	\$ 17,553.52	\$ 7,714.53	\$ 8,258.61	\$ 1,947.33
CO RD 4	CO RD 4	SWANTON OH 43561	110	0.184	0.184	50%	100%	50%	\$ 65.94	\$ 28.98	\$ 31.02	\$ 168.61
1811 CO RD 4	1811 CO RD 4	SWANTON OH 43565	511	2.24	2.24	50%	100%	50%	\$ 7,864.56	\$ 3,456.37	\$ 3,700.13	\$ 1,651.84
CO RD B	CO RD B	SWANTON OH 43563	110	15.22	3.1	50%	100%	50%	\$ 1,218.00	\$ 535.29	\$ 573.05	\$ 184.85
1873 CO RD 4	1873 CO RD 4	1542 CO RD 4-1	511	0.5	0.5	50%	100%	50%	\$ 3,300.00	\$ 1,450.31	\$ 1,552.59	\$ 3,105.18
<p>66.813 60% \$ 146,614.50 \$ 64,435.08 \$ 4,400.00 \$ 73,379.43 \$ 1,856.68</p>												

RESOLUTION – 2020-559

**COMMISSIONERS’ FINDING AFFIRMING FORMER ORDER,
CONFIRMING THE ASSESSMENTS, AND ORDERING THE LETTING OF
THE CONTRACTS**

Revised Code, Sec. 6131.21 to 24
Form 22025

In the Matter of the Single)
County Ditch No. 2138 Petitioned) Office of County Commissioners,
for by Donald McClain) Fulton County, Ohio
August 18, 2020)

The Board of County Commissioners of Fulton County, Ohio met in regular session on August 18, 2020 at the office of said board with the following members present:

Jon Rupp
Jeff Rupp

Commissioner Jon Rupp moved the adoption of the following Resolution:

WHEREAS, This being the day fixed by said Board, in its order dated June 30, 2020 for the final hearing on the Report, Plans, and Schedules of the County Engineer, on the estimated assessments, on claims for compensation or damages and on the proceeding for the improvement, and on application filed for change of route or change in the nature, kind and extent of the work proposed to be done; and

WHEREAS, The Board finds that due and legal notice of this final hearing has been given as required by law; and

WHEREAS, The Board has heard all the evidence offered in the proceedings and received and considered all the schedules, plans and reports filed by the County Engineer;

THEREFORE BE IT RESOLVED, That the Board hereby approve the maps, profiles, plans, schedules, and reports prepared by the County Engineer, and review and reconsider its former order made and dated June 30, 2020; and

WHEREAS, This Board has considered the cost of location and construction, the compensation for land taken, the effect on land along or in the vicinity of the route of the improvement, the effect on land below the lower terminus of the improvement that may be caused by constructing the improvement, the sufficiency of the outlet, the benefits to the public welfare, and the special benefits to land needing the improvement, etc.;

THEREFORE BE IT RESOLVED, That the former order finding in favor of the improvement made at the first hearing on August 22, 2019, is hereby affirmed; and

WHEREAS, No objections to the proposed assessment having been filed, and the Board having heard the objections and all evidence offered for or against the assessment proposed to be levied against any owner or on any land, as shown by the schedule of assessments filed by the County Engineer and any competent evidence on the question of benefits, and from an actual view of the premises;

THEREFORE BE IT RESOLVED, That the assessments are hereby attached, and

BE IT FURTHER RESOLVED, That the County Engineer’s assessments as presented are hereby approved and confirmed; and

BE IT FURTHER RESOLVED, That \$59,240.46 is hereby assessed for benefits to the general public by reason of the improvement being conducive to the public welfare and shall be paid by the public and assessed by the County, and \$14,138.97 found to benefit County Roads and is hereby assessed against the County; and

BE IT FURTHER RESOLVED, That 5 year (s) shall be the period of time, in semi-annual installments, as taxes are paid, given the owners of land benefitted, to pay the assessments that may be made for the improvement;

BE IT FURTHER RESOLVED, That, subject to pending right-of-way acquisitions, September 8, 2020 at 9:01 a.m. at office of said board is hereby fixed as the time and place for the County Engineer to receive bids, and that the County Engineer is hereby directed to prepare the necessary bid documents and legal advertisements; and

BE IT FURTHER RESOLVED, That the County Engineer be and he is hereby directed to give at least two weeks' public notice as required by law of the time when and the place where bids will be received for furnishing any material for the improvement, or for the construction of the improvement, or any part thereof, and in case manufactured material is required for the construction of the improvement, the County Engineer is hereby directed to send copies of the notice by mail to dealers and manufacturers, and all bids shall be received at office of said Board; and

BE IT FURTHER RESOLVED, that it is found and determined that all formal actions of this -Board of County Commissioners, County of Fulton, State of Ohio concerning the adoption of this resolution were adopted in an open meeting of this Board of County Commissioners, and that all deliberations of this Board of County Commissioners and of any of its committees that resulted in such formal action, were in meetings open to the public in compliance with all legal requirements including Section 121.22 of the Ohio Revised Code.

Commissioner Jeff Rupp seconded the resolution and the roll being called upon its adoption, the vote resulted as follows:

Voting Aye thereon:	Voting Nay thereon:	Abstain:
<u>Jon Rupp</u> Jon Rupp	<u>Jon Rupp</u> Jon Rupp	<u>Jon Rupp</u> Jon Rupp
<u>Jeff Rupp</u> Jeff Rupp	<u>Jeff Rupp</u> Jeff Rupp	<u>Jeff Rupp</u> Jeff Rupp

**BOARD OF COUNTY COMMISSIONERS
FULTON COUNTY, OHIO**

Attest: Teri Suarez
Teri Suarez, Clerk

