



1/26/2023

Lorain County Engineer
247 Hadaway Street
Elyria, Ohio 44035
Attn: Peter Zwick, P.E., P.S., Chief Deputy Engineer

Re: Fortune Ditch and Dickson Ditch Restoration Petition Final Report

Lorain County Engineer's Office:

On behalf of the Lorain County Stormwater Management District, we report the final estimates of cost for the cleaning of sediment and restoring the Fortune Ditch and Dickson Ditch as petitioned. This is classified as a routine ditch maintenance project.

K.E. McCartney and Associates Inc. hereby estimates the total cost to clean and restore Fortune and Dickson Ditches at \$1,836,000.00 (see detailed engineer's estimate in Appendix B). The cost for each community is \$1,554,300.00 for Lorain County and \$281,700.00 for the City of North Ridgeville. In our opinion, this project is feasible, it is conducive to the public welfare, and its benefits are likely to exceed its estimated cost.

Project Location and Description

Based on the petition, the project was proposed to clean and restore Fortune Ditch from the confluence with Fortune Ditch main channel located 1,000 feet southwest of the intersection of State Route 83 and Butternut Ridge Road then easterly approximately 2.75 mile along Fortune Ditch to the terminus at the point the ditch crosses under Sprague Road 500 feet east of Root Road. Based on our investigation, we recommend a change in course to start the project from the Fortune Ditch confluence with Carpenter Ditch located 1900 feet south of the intersection of Lorain Road and State Route 83 and 500 feet east of State Route 83 then easterly approximately 2.6 mile along Fortune Ditch to the Lorain-Cuyahoga County line. The Dickson Ditch will remain as per the petition starting from the confluence with Fortune Ditch northly 1,500 feet and ending at the conveyance under Root Road as shown on the Benefit Area Map in Appendix A. The project will restore an adequate outfall to the local storm system, yard drains, house drains and field tiles that discharge to the ditch. Removal of flow obstructions will allow for better flow conveyance to reduce risk of flooding incidents and the severity of the incidents while improving drainage throughout

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the watershed. The project scope includes clearing on one side of the ditch to provide permanent access, removal of log jams or other obstructions, removal of sediment within the ditch, ditch reshaping at specific locations to restore original line and grade and removal of 2 undersized culvert crossings and replacement with 1 properly sized culvert crossing. The project will include best management practices for temporary and permanent erosion controls. The project will also provide for on-going inspection and maintenance in accordance with ORC 6137.06 within a new easement.

The project will improve drainage for seven hundred and twenty-four (724) acres located within the City of North Ridgeville, Eaton Township and Columbia Township. The benefit area and associated list of benefiting properties is provided in Appendix A, showing the ditch improvement project limits in blue and the benefit area in magenta.

Other factors pro & con

1. This improvement is necessary to provide an adequate drainage outlet for the local stormwater conveyance system, and to control and improve the drainage of about 724 acres of land within the City of North Ridgeville, Eaton Township and Columbia Township, as shown on the map of the Benefit Area in Appendix A.
2. The project will also help reduce the risk of flooding on a commercial property which has had incidences of interrupted business due to flooding.
3. The restoration of Dickson Ditch will provide an adequate outfall for the current existing stormwater infrastructure benefiting residential properties.
4. This improvement will reduce the risk of flooding of farms, residential basements, and portions of low-lying rural residential yards.
5. This improvement will relieve nearby agricultural tiles by restoring an adequate outfall.
6. This improvement will reconstruct and reshape the ditch in specific locations into safe and erosion-resistant banks that are properly sloped.
7. Fortune Ditch was previously petitioned in 1892 and the petition map is provided in appendix H.
8. A corridor of trees and brush must be cleared along the streamline for the purpose of access for construction as well as for ongoing maintenance.
9. This improvement will create permanent ditch maintenance easements (up to 60 foot wide) that will facilitate permanent maintenance by the County Engineer. The easements will encompass the ditch and an unobstructed access lane along the ditch.
10. Best management practices for temporary and permanent erosion controls will be employed before, during and after construction.
11. The wetlands environmental assessment indicated various wetlands present along the ditch. Wetlands and environmentally significant areas will be avoided. Sediment and vegetation will be removed per the US Army Corps of Engineers "one-step method." No additional impervious surface will result from this project. Any crossing of wetlands will be performed using US Army Corps of Engineers approved methods as to not disturb the wetlands.

12. K.E. McCartney and Associates, Inc. estimates damages at \$0. K.E. McCartney and Associates, Inc. estimates that as a result of this improvement and subsequent maintenance thereof, the benefits of this project (including providing an outlet for runoff from upland, reduction of damage from flooding, removal of water that jeopardizes public health, safety or welfare, increased value and productivity of land, storage, management and regulation of stream flow, and other benefits) will fully offset all potential damages.
13. This improvement will establish vegetated filter strip buffers that will protect water quality by removing sediment, contaminants, and suspended solids from overland flow coming from adjacent land and provide soil conservation.

Current conditions

Aerial drone photography will be presented at the viewing. A photo log of the drainage complaints, previous ditch reports, and a ditch memo with photos show the current condition of the ditch and are attached in appendix D, E, F, and G.

The following documents are included with this report:

- Appendix A – Benefit Area Map & Benefiting Parcels List
- Appendix B – Engineer's Cost Estimate
- Appendix C – Preliminary Plan
- Appendix D – Drainage Photo Log
- Appendix E – Fortune Ditch Report, May 2019
- Appendix F – Fortune Ditch Report, June 2019
- Appendix G – Fortune Ditch Memo, September 2019
- Appendix H – Fortune Ditch Petition Map, 1892

Mark Rufener, P.E., CPESC, CPSWQ
General Civil Services Manager
K.E. McCartney & Associates, Inc.

Enclosure

cc: Don Romancak, Assistant SWMD Director dromancak@loraincounty.us

Appendix A
Benefit Area Map & Benefiting Parcels List

List of Land Owners Claimed to be Benefitted or Damaged
Lorain County Ditch Petition
Estimated Assessments
Ditch Project
(0.00)

TOTAL PROJECT COSTS \$ 1,836,000.00 \$
TOTAL BENEFITTED 723.83 AC
ANNUAL MAINTENANCE FEE \$ 91,800.00
DITCH LENGTH 15,154.00 FT

Date: 1/26/2023

	Owner's Name	Owner's Address	Permanent Parcel	Township	Orig. Lot No.	Description	Damages	Acres Owned	Acres Benefitted	Assessment	Annual Maint.
1	GERACI PAUL THOMAS & DIXIE L	9360 ROOT RD N RIDGEVILLE, OH 44039	700012104009	North Ridgeville	7			0.59	0.58	\$1,471.17	\$73.56
2	SAYERS DAVID L & SAYERS LOIS Y	9641 NORTH ISLAND RD GRAFTON, OH 44044	1100030000037	Eaton	11			0.71	0.71	\$1,800.92	\$90.05
3	SANDVICK DALE R TRUSTEE	9690 ROOT ROAD COLUMBIA STATION, OH 44028	1100010000018	Eaton	11			7.15	0.07	\$177.56	\$8.88
4	LORAIN COUNTY PORT AUTHORITY	226 MIDDLE AVE ELYRIA, OH 44035	1100050000018	Eaton	11			58.90	9.24	\$23,437.33	\$1,171.87
5	NORTH ISLAND ROAD HOLDINGS LLC	11204 FAIRWAY DR COLUMBIA STATION, OH 44028	1100031000045	Eaton	11			72.52	58.86	\$149,298.81	\$7,464.94
6	BARTICK JOSEPH M & GODBY CHRISTINE M	9521 N REED RD COLUMBIA STATION, OH 44028	1100011000014	Eaton	11			58.67	53.92	\$136,768.47	\$6,838.42
7	HORVATH THOMAS M & SUSAN C	9560 ROOT RD COLUMBIA STATION, OH 44028	1100010000030	Eaton	11			1.02	1.02	\$2,587.24	\$129.36
8	KAUFFMAN ROBERT C & EDMONDS KIMBERLY A	9690 ISLAND RD N GRAFTON, OH 44044	1100031000032	Eaton	11			2.00	2.00	\$5,073.01	\$253.65
9	SKAPES DREW E & SKAPES KATHRYN	9846 ISLAND RD GRAFTON, OH 44044	1100031000028	Eaton	11			0.69	0.69	\$1,750.19	\$87.51
10	DOMBROSE JAMES V & DOMBROSE KATHLEEN A	9101 QUAIL CT N RIDGEVILLE, OH 44039	0700001000230	North Ridgeville	7			0.25	0.25	\$634.13	\$31.71
11	MAJCHER WILLIAM J	7136 PEARL RD MIDDLEBURG HTS, OH 441304942	1100010000034	Eaton	11			57.04	32.76	\$83,095.98	\$4,154.80
12	MCLAUGHLIN GLADYS M & GLENN E	31654 SPRAGUE RD N RIDGEVILLE, OH 44039	0700001000027	North Ridgeville	7			5.00	5.00	\$12,682.54	\$634.13
13	JOHNSON HELEN J	9119 QUAIL CT N RIDGEVILLE, OH 44039	0700001000233	North Ridgeville	7			0.17	0.17	\$431.21	\$21.56
14	MCCORT GARY L	9740 ISLAND RD GRAFTON, OH 44044	1100030000053	Eaton	11			11.73	11.73	\$29,753.23	\$1,487.66
15	ROELLE ROBERT D	9491 ROOT RD N RIDGEVILLE, OH 44039	0700001000037	North Ridgeville	7			0.75	0.75	\$1,902.38	\$95.12
16	SWAN DONALD L JR TRUSTEE	9489 MARIGOLD BLVD N RIDGEVILLE, OH 44039	700012103016	North Ridgeville	7			2.57	2.57	\$6,518.82	\$325.94
17	HILL JEFFREY S & JOLENE	9708 REED RD COLUMBIA STATION, OH 44028	1100030000049	Eaton	11			5.63	5.63	\$14,280.54	\$714.03
SHEET TOTAL								285.40	185.95	\$471,663.51	\$23,583.18

Property Owners shown in Bold are adjacent to the project

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18	ROELLE ROBERT D	9491 ROOT RD N RIDGEVILLE, OH 44039	0700001000059	North Ridgeville	7			0.33	0.33	\$837.05	\$41.85
19	DUNLAP PAUL & MARTHA	9478 ROOT RD N RIDGEVILLE, OH 44039	0700001000049	North Ridgeville	7			1.09	1.09	\$2,764.79	\$138.24
20	MCDOWELL ANDREW D	31666 SPRAGUE RD N RIDGEVILLE, OH 44039	0700001000309	North Ridgeville	7			3.02	3.02	\$7,660.25	\$383.01
21	PETO ROBERT A & PETO DIANE D	9124 QUAIL CT N RIDGEVILLE, OH 44039	0700001000238	North Ridgeville	7			0.24	0.24	\$608.76	\$30.44
22	SANDVICK DALE R TRUSTEE	9690 ROOT ROAD COLUMBIA STATION, OH 44028	1100011000011	Eaton	11			15.00	15.00	\$38,047.61	\$1,902.38
23	EDMONDS MARK T & DIANE L	2244 NO ISLAND RD GRAFTON, OH 44044	1100029000029	Eaton	11			0.69	0.69	\$1,750.19	\$87.51
24	LUBY JAMES W & LUBY ROSEMARY	9640 ROOT RD COLUMBIA STATION, OH 44028	1100010000004	Eaton	11			2.28	2.28	\$5,783.24	\$289.16
25	CATHCART ERIC M & HENRY CHRISTINE M	9700 ROOT RD COLUMBIA STATION, OH 44028	1100010000021	Eaton	11			0.97	0.97	\$2,460.41	\$123.02
26	MCPHIE KELSEY M & BALDWIN PHILLIP C	9456 ROOT RD N RIDGEVILLE, OH 44039	0700001000076	North Ridgeville	7			1.00	1.00	\$2,536.51	\$126.83
27	KIESEL DORIS TR	9042 NESTHAVEN WAY N RIDGEVILLE, OH 44039	0700001000045	North Ridgeville	7			0.53	0.53	\$1,344.35	\$67.22
28	COLBORN JOSHUA & KATELYN	9750 ISLAND RD N GRAFTON, OH 44044	1100031000016	Eaton	11			0.81	0.81	\$2,054.57	\$102.73
29	PERRY MARTIN V JR	9827 ISLAND RD GRAFTON, OH 44044	1100030000020	Eaton	11			0.69	0.69	\$1,750.19	\$87.51
30	KIESEL DORIS TRUSTEE	9042 NESTHAVEN WAY N RIDGEVILLE, OH 44039	0700001000086	North Ridgeville	7			4.75	4.75	\$12,048.41	\$602.42
31	GABEL NICHOLAS A & STEPHANIE D	9488 ROOT RD N RIDGEVILLE, OH 44039	0700001000074	North Ridgeville	7			0.99	0.99	\$2,511.14	\$125.56
32	SANDVICK DALE R TRUSTEE	9690 ROOT ROAD COLUMBIA STATION, OH 44028	1100010000007	Eaton	11			4.92	3.89	\$9,867.01	\$493.35
33	RADOS THOMAS G	9452 ROOT RD N RIDGEVILLE, OH 44039	0700001000071	North Ridgeville	7			0.81	0.81	\$2,054.57	\$102.73
34	REDLICH ROBERT J & GAYLE L	9760 REED RD COLUMBIA STATION, OH 44028	1100030000008	Eaton	11			12.00	6.74	\$17,096.06	\$854.80
Property Owners shown in Bold are adjacent to the project								50.12	43.83	\$111,175.11	\$5,558.76
SHEET TOTAL											

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35	SIGAN DEAN J TRUSTEE	9604 REED RD COLUMBIA STATION, OH 44028	1100030000047	Eaton	11			5.60	5.60	\$14,204.44	\$710.22
36	YOUNG ALLEN J & YOUNG JENNIFER L	9820 ISLAND RD GRAFTON, OH 44044	1100031000026	Eaton	11			0.69	0.69	\$1,750.19	\$87.51
37	HARROLD WILLIAM A SR & HARROLD LYNN M	9430 ROOT RD N RIDGEVILLE, OH 44039	0700001000011	North Ridgeville	7			0.59	0.59	\$1,496.54	\$74.83
38	SEABOLD JAMES L & JOAN M	2251 N ISLAND RD GRAFTON, OH 44044	1100031000022	Eaton	11			0.69	0.69	\$1,750.19	\$87.51
39	WESTLAKE SPORTMENS ASSOC INC	10000 REED RD COLUMBIA STATION, OH 44028	1.10003E+12	Eaton	11			26.54	0.80	\$2,029.21	\$101.46
40	REED DENNIS TRUSTEE	9500 REED RD COLUMBIA STATION, OH 44028	1100030000027	Eaton	11			6.16	6.16	\$15,624.88	\$781.24
41	LAFOLLETTE RONALD LEE & PEGGY ANN	PO BOX 39243 N RIDGEVILLE, OH 44039	1100010000057	Eaton	11			2.03	2.03	\$5,149.11	\$257.46
42	MCDEVITT STONE JACK	9760 REED RD COLUMBIA STATION, OH 44028	1100030000050	Eaton	11			5.60	5.19	\$13,164.47	\$658.22
43	GALARZA MARICEL	9125 REED RD N RIDGEVILLE, OH 44039	1100031000038	Eaton	11			1.01	1.01	\$2,561.87	\$128.09
44	PETRIK KAROLY & EVA	9468 ROOT RD N RIDGEVILLE, OH 44039	1200100000020	Columbia	12			11.05	4.04	\$10,247.49	\$512.37
45	NESTHAVEN QUAIL CLUSTER ASSOCIATION INC	9049 NESTHAVEN WAY N RIDGEVILLE, OH 44039	0700001000300	North Ridgeville	7			1.59	1.59	\$4,033.05	\$201.65
46	HILL JOHN E & HILL ELLEN	9740 ROOT RD COLUMBIA STATION, OH 44028	1100010000019	Eaton	11			5.27	4.70	\$11,921.58	\$596.08
47	KIESEL DORIS TRUSTEE	9042 NESTHAVEN WAY N RIDGEVILLE, OH 44039	0700001000039	North Ridgeville	7			0.53	0.53	\$1,344.35	\$67.22
48	GRILLS MARK L	9509 N REED RD COLUMBIA STATION, OH 44028	1100011000002	Eaton	11			0.88	0.54	\$1,369.71	\$68.49
49	BARTICK JOSEPH M	9521 N REED RD COLUMBIA STATION, OH 44028	1100011000007	Eaton	11			1.01	1.01	\$2,561.87	\$128.09
50	KIESEL DORIS TRUSTEE	9042 NESTHAVEN WAY N RIDGEVILLE, OH 44039	0700001000083	North Ridgeville	7			0.94	0.94	\$2,384.32	\$119.22
51	BURDETTE STEVEN E & JOAN C	9380 ROOT RD N RIDGEVILLE, OH 44039	0700001000008	North Ridgville	7			0.59	0.59	\$1,496.54	\$74.83
Property Owners shown in Bold are adjacent to the project								70.75	36.70	\$93,089.81	\$4,654.49
SHEET TOTAL											

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52	SIMMONS JOSEPH J TRUSTEE	43 EDGEWOOD DR GRAFTON, OH 44044	1100032000013	Eaton	11			47.92	13.94	\$35,358.91	\$1,767.95
53	HRONEK SHIRLEY A	9472 ROOT RD N RIDGEVILLE, OH 44039	0700001000080	North Ridgeville	7			1.40	1.40	\$3,551.11	\$177.56
54	HOLMOK ALAN & JANET	9760 N ISLAND RD GRAFTON, OH 44044	1100031000030	Eaton	11			0.69	0.69	\$1,750.19	\$87.51
55	SANDVICK DALE R TRUSTEE	9690 ROOT ROAD COLUMBIA STATION, OH 44028	1100011000012	Eaton	11			5.00	1.29	\$3,272.09	\$163.60
56	MAJOROS MICHAEL P	9667 ISLAND RD GRAFTON, OH 44044	1100030000038	Eaton	11			10.06	10.06	\$25,517.26	\$1,275.86
57	ROELLE ROBERT D	9491 ROOT RD N RIDGEVILLE, OH 44039	0700001000058	North Ridgeville	7			1.85	1.84	\$4,667.17	\$233.36
58	FARIS BROWN BETHANN TRUSTEE	91370 QUAIL COURT N RIDGEVILLE, OH 44039	0700001000236	North Ridgeville	7			0.25	0.25	\$634.13	\$31.71
59	MILLER WILLIAM T JR & MILLER CHERYL ANN	27855 SPRAGUE RD COLUMBIA STATION, OH 44028	1200100000003	Columbia	12			1.64	0.33	\$837.05	\$41.85
60	DIDONATO ALBERT A & MELISSA D	9600 ROOT RD COLUMBIA STATION, OH 44028	1100010000024	Eaton	11			1.73	1.73	\$4,388.16	\$219.41
61	AWIG DONALD R & GEORGIA G & AWIG DONALD R	9125 QUAIL CT NORTH RIDGEVILLE, OH 44039	0700001000234	North Ridgeville	7			0.23	0.23	\$583.40	\$29.17
62	ZERGOTT BRIAN W & ZERGOTT JULIE D	9130 QUAIL CT N RIDGEVILLE, OH 44039	0700001000237	North Ridgeville	7			0.24	0.24	\$608.76	\$30.44
63	CLARK KENNETH E	9923 ISLAND RD GRAFTON, OH 44044	1100029000026	Eaton	11			1.03	1.03	\$2,612.60	\$130.63
64	SWAN DONALD L JR TRUSTEE	9489 MARIGOLD BLVD N RIDGEVILLE, OH 44039	0700001000014	North Ridgeville	7			1.14	1.14	\$2,891.62	\$144.58
65	COLBORN JOSHUA & KATELYN	9750 ISLAND RD N GRAFTON, OH 44044	1100031000018	Eaton	11			0.46	0.46	\$1,166.79	\$58.34
66	HAINES PAMELA & HAINES ALAN R	27945 SPRAGUE RD COLUMBIA STATION, OH 44028	1200100000018	Columbia	12			2.00	1.73	\$4,388.16	\$219.41
67	GEHRING M MICHELE TRUSTEE	9843 ISLAND RD GRAFTON, OH 44044	1100030000021	Eaton	11			0.69	0.69	\$1,750.19	\$87.51
68	SCHWARZWALDER GENE R & KOHL MARY ANN E	9112 QUAIL CT N RIDGEVILLE, OH 44039	0700001000240	North Ridgeville	7			0.18	0.18	\$456.57	\$22.83
Property Owners shown in Bold are adjacent to the project								76.51	37.23	\$94,434.16	\$4,721.71
SHEET TOTAL											

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69	DIVVY HOMES WAREHOUSE II LLC	300 MONTGOMERY ST SAN FRANCISCO, CA 94104	1100010000009	Eaton	11			0.48	0.48	\$1,217.52	\$60.88
70	HENDERSON TARA M	10146 ISLAND RD GRAFTON, OH 44044	1100032000014	Eaton	11			4.00	1.29	\$3,272.09	\$163.60
71	TESSARO TERRENCE L	35520 E ROYALTON RD GRAFTON, OH 44044	1100029000002	Eaton	11			2.07	1.18	\$2,993.08	\$149.65
72	KIESEL DORIS TR	9042 NESTHAVEN WAY N RIDGEVILLE, OH 44039	0700001000047	North Ridgeville	7			0.55	0.55	\$1,395.08	\$69.75
73	SCHEFFLER WILLIAM W	9459 MARIGOLD BLVD N RIDGEVILLE, OH 44039	0700001000016	North Ridgeville	7			0.68	0.68	\$1,724.82	\$86.24
74	KIESEL DORIS TR	9042 NESTHAVEN WAY N RIDGEVILLE, OH 44039	0700001000044	North Ridgeville	7			0.53	0.53	\$1,344.35	\$67.22
75	ISLAND 58 LLC	9740 ISLAND RD GRAFTON, OH 44044	1100030000051	Eaton	11			0.80	0.80	\$2,029.21	\$101.46
76	SANDVICK DALE R TRUSTEE	9690 ROOT ROAD COLUMBIA STATION, OH 44028	1100011000004	Eaton	11			15.41	14.39	\$36,500.34	\$1,825.02
77	MORAN PATRICIA M	9995 ISLAND RD GRAFTON, OH 44044	1100029000005	Eaton	11			1.03	0.34	\$862.41	\$43.12
78	SHAFT JOSEPH C & SHAFT SANDRA K	9836 ISLAND RD GRAFTON, OH 44044	1100031000027	Eaton	11			0.69	0.69	\$1,750.19	\$87.51
79	ROIG SPENSER MICHAEL WILLIAM & EBEL STEPHANIE	9420 ROOT RD N RIDGEVILLE, OH 44039	0700001000010	North Ridgeville	7			0.59	0.58	\$1,471.17	\$73.56
80	REED DENNIS R	9500 REED RD COLUMBIA STATION, OH 44028	1100030000036	Eaton	11			68.65	39.33	\$99,760.83	\$4,988.04
81	WEBB JOHN A JR & WEBB SUSAN H	9107 QUAIL CT N RIDGEVILLE, OH 44039	0700001000231	North Ridgeville	7			0.29	0.29	\$735.59	\$36.78
82	KIESEL DORIS TR	9042 NESTHAVEN WAY N RIDGEVILLE, OH 44039	0700001000041	North Ridgeville	7			0.53	0.53	\$1,344.35	\$67.22
83	COOKE WANDA E	9660 ROOT RD COLUMBIA STATION, OH 44028	1100010000005	Eaton	11			2.36	2.36	\$5,986.16	\$299.31
84	KIESEL DORIS TRUSTEE	9042 NESTHAVEN WAY N RIDGEVILLE, OH 44039	0700001000085	North Ridgeville	7			1.04	1.04	\$2,637.97	\$131.90
85	SWAN DONALD L JR TRUSTEE	9489 ROOT RD N RIDGEVILLE, OH 44039	0700001000013	North Ridgeville	7			8.50	8.50	\$21,560.31	\$1,078.02
Property Owners shown in Bold are adjacent to the project								108.20	73.56	\$186,585.47	\$9,329.27
SHEET TOTAL											

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	Owner's Name	Owner's Address	Permanent Parcel	Township	Orig. Lot No.	Description	Damages	Acres Owned	Acres Benefitted	Assessment	Annual Maint.
86	GABEL NICHOLAS A & STEPHANIE D	9488 ROOT RD N RIDGEVILLE, OH 44039	0700001000051	North Ridgeville	7			1.10	1.10	\$2,790.16	\$139.51
87	TAPPE MARGARET J & TAPPE COLETTE B	9370 ROOT RD N RIDGEVILLE, OH 44039	700001000007	North Ridgeville	7			0.59	0.58	\$1,471.17	\$73.56
88	GEHRING M MICHELE TRUSTEE	9843 ISLAND RD GRAFTON, OH 44044	1100030000029	Eaton	11			0.69	0.69	\$1,750.19	\$87.51
89	SANDVICK DALE R TRUSTEE	9690 ROOT ROAD COLUMBIA STATION, OH 44028	1100010000020	Eaton	11			0.99	0.17	\$431.21	\$21.56
90	SIMMONS JOSEPH J TRUSTEE	43 EDGEWOOD DR GRAFTON, OH 44044	1100031000031	Eaton	11			34.36	32.89	\$83,425.72	\$4,171.29
91	ANDZELIK ALAN F	9590 ROOT RD COLUMBIA STATION, OH 44028	1100010000029	Eaton	11			0.70	0.70	\$1,775.56	\$88.78
92	MCCORT GARY L	9740 ISLAND RD GRAFTON, OH 44044	1100030000045	Eaton	11			7.51	7.50	\$19,023.80	\$951.19
93	ROELLE ROBERT D	9491 ROOT RD N RIDGEVILLE, OH 44039	0700001000061	North Ridgeville	7			5.68	5.68	\$14,407.36	\$720.37
94	RIDGEFIELD HOMEOWNERS ASSOCIATION THE	ROOT RD NORTH RIDGEVILLE, OH 44039	0700001000301	North Ridgeville	7			2.09	2.08	\$5,275.93	\$263.80
95	BLAINE DOUGLAS M & KIMBERLY S	9700 N ISLAND RD GRAFTON, OH 44044	1100031000041	Eaton	11			2.00	2.00	\$5,073.01	\$253.65
96	NORTH ISLAND ROAD HOLDINGS LLC	11204 FAIRWAY DR COLUMBIA STATION, OH 44028	1100031000039	Eaton	11			1.54	1.54	\$3,906.22	\$195.31
97	HOLLIDAY CALVIN E & THERESA A	9482 ROOT RD N RIDGEVILLE, OH 44039	0700001000053	North Ridgeville	7			1.17	1.17	\$2,967.71	\$148.39
98	KIESEL DORIS TR	9042 NESTHAVEN WAY N RIDGEVILLE, OH 44039	0700001000046	North Ridgeville	7			0.53	0.53	\$1,344.35	\$67.22
99	ZAVESKY ROBERT D & JEAN M TRUSTEES	9656 REED RD COLUMBIA STATION, OH 44028	1100030000048	Eaton	11			5.60	5.60	\$14,204.44	\$710.22
100	MILLER WILLIAM T JR & MILLER CHERYL ANN	27717 SPRAGUE ROAD COLUMBIA STATION, OH 44028	1200100000011	Columbia	12			7.64	0.55	\$1,395.08	\$69.75
101	FORTUNA MARC A & FORTUNA KATHLEEN E	9462 ROOT RD N RIDGEVILLE, OH 44039	0700001000077	North Ridgeville	7			1.00	1.00	\$2,536.51	\$126.83
102	ACKLIN DAYAN & ACKLIN VICKI L	9865 N AVON BELDEN RD GRAFTON, OH 44044	1100050000006	Eaton	11			32.00	25.75	\$65,315.06	\$3,265.75
Property Owners shown in Bold are adjacent to the project								105.19	89.53	\$227,093.49	\$11,354.67
SHEET TOTAL											

List of Land Owners Claimed to be Benefitted or Damaged
Lorain County Ditch Petition
Estimated Assessments
Ditch Project

TOTAL PROJECT COSTS \$ 1,836,000.00
TOTAL BENEFITTED 723.83 AC
ANNUAL MAINTENANCE FEE \$ 91,800.00
DITCH LENGTH 15,154.00 FT

Date: 1/26/2023

	Owner's Name	Owner's Address	Permanent Parcel	Township	Orig. Lot No.	Description	Damages	Acres Owned	Acres Benefitted	Assessment	Annual Maint.
103	SETTER WILLIAM	31678 SPRAGUE RD N RIDGEVILLE, OH 44039	0700001000308	North Ridgeville	7			2.12	2.11	\$5,352.03	\$267.60
104	SIMMONS JOSEPH J TRUSTEE	9920 ISLAND RD GRAFTON, OH 44044	1100032000012	Eaton	11			1.09	1.09	\$2,764.79	\$138.24
105	MORRIS SCOTT A & REGINA L	9485 ROOT RD NORTH RIDGEVILLE, OH 44039	0700001000216	North Ridgeville	7			4.33	4.33	\$10,983.08	\$549.15
106	BRANSCUM N GENE	108 BUCKEYE STREET AMHERST, OH 44001	1100031000025	Eaton	11			1.00	1.00	\$2,536.51	\$126.83
107	RIDGEFIELD HOMEOWNERS ASSOCIATION THE	MEADOWS EDGE LN NORTH RIDGEVILLE, OH 44039	0700001000303	North Ridgeville	7			0.09	0.09	\$228.29	\$11.41
108	VRBA JOHN E	9350 ROOT RD N RIDGEVILLE, OH 44039	0700012104008	North Ridgeville	7			0.59	0.30	\$760.95	\$38.05
109	REED DENNIS TRUSTEE	9500 REED RD COLUMBIA STATION, OH 44028	1100030000040	Eaton	11			10.04	10.04	\$25,466.53	\$1,273.33
110	SCHEFFLER KARL W & SCHEFFLER VICKIE L	9453 MARIGOLD BLVD N RIDGEVILLE, OH 44039	0700001000015	North Ridgeville	7			0.95	0.95	\$2,409.68	\$120.48
111	GRILLS MARK L	9509 N REED RD COLUMBIA STATION, OH 44028	1100011000013	Eaton	11			1.00	1.00	\$2,536.51	\$126.83
112	KIESEL DORIS TR	9042 NESTHAVEN WAY N RIDGEVILLE, OH 44039	0700001000043	North Ridgeville	7			0.53	0.53	\$1,344.35	\$67.22
113	HOBAR ROBERT L & HOBAR EVELYN M	9131 QUAIL CT N RIDGEVILLE, OH 44039	0700001000235	North Ridgeville	7			0.30	0.30	\$760.95	\$38.05
114	HORVAT KENNETH P TRUSTEE & HORVAT CAROLYN M	9468 ROOT RD N RIDGEVILLE, OH 44039	0700001000079	North Ridgeville	7			6.00	6.00	\$15,219.04	\$760.95
115	PRESLEY MATT A & PRESLEY SELENA	33543 SPRAGUE RD COLUMBIA STATION, OH 44028	1100010000056	Eaton	11			3.98	3.97	\$10,069.93	\$503.50
116	RUSSELL BARBARA A TRUSTEE	7267 SONGBIRD LN N RIDGEVILLE, OH 44039	0700001000239	North Ridgeville	7			0.18	0.18	\$456.57	\$22.83
117	GRILLS MARK L	9509 N REED RD COLUMBIA STATION, OH 44028	1100011000009	Eaton	11			0.07	0.04	\$101.46	\$5.07
118	PETRIK KAROLY & EVA	27969 SPRAGUE RD COLUMBIA STATION, OH 44028	1200100000019	Columbia	12			2.00	2.00	\$5,073.01	\$253.65
119	KRASLENKO DANIEL	2266 N ISLAND RD GRAFTON, OH 44044	1100029000027	Eaton	11			0.69	0.69	\$1,750.19	\$87.51
Property Owners shown in Bold are adjacent to the project								34.95	34.62	\$87,813.88	\$4,390.69
SHEET TOTAL											

List of Land Owners Claimed to be Benefitted or Damaged
Lorain County Ditch Petition
Estimated Assessments
Ditch Project

TOTAL PROJECT COSTS \$ 1,836,000.00
TOTAL BENEFITTED 723.83 AC
ANNUAL MAINTENANCE FEE \$ 91,800.00
DITCH LENGTH 15,154.00 FT

Date: 1/26/2023

	Owner's Name	Owner's Address	Permanent Parcel	Township	Orig. Lot No.	Description	Damages	Acres Owned	Acres Benefitted	Assessment	Annual Maint.
120	KIESEL DORIS TRUSTEE	9042 NESTHAVEN WAY N RIDGEVILLE, OH 44039	0700001000038	North Ridgeville	7			0.55	0.55	\$1,395.08	\$69.75
121	BLAINE LONDA TRUSTEE & BLAINE RICHARD TRUST	9700 ISLAND RD GRAFTON, OH 44044	1100031000042	Eaton	11			14.46	14.46	\$36,677.89	\$1,833.89
122	FREDERICK KEVIN S	9113 QUAIL CT N RIDGEVILLE, OH 44039	0700001000232	North Ridgeville	7			0.24	0.24	\$608.76	\$30.44
123	TESSARO TERRENCE L	35520 E ROYALTON RD GRAFTON, OH 44044	1100029000003	Eaton	11			48.24	29.75	\$75,461.09	\$3,773.05
124	HRUSCH GARY PHILLIP & CHARMAINE SZANYI	9440 ROOT RD N RIDGEVILLE, OH 44039	0700001000012	North Ridgeville	7			1.28	1.28	\$3,246.73	\$162.34
125	SETTER WILLIAM W & DUNN KRISTIAN M	31678 SPRAGUE RD N RIDGEVILLE, OH 44039	0700001000160	North Ridgeville	7			3.21	3.21	\$8,142.19	\$407.11
126	PIVCEVICH EDWIN JR	10003 AVON BELDEN RD GRAFTON, OH 44044	1100050000016	Eaton	11			28.96	17.28	\$43,830.84	\$2,191.54
127	GABEL NICHOLAS A & STEPHANIE D	9488 ROOT RD N RIDGEVILLE, OH 44039	0700001000383	North Ridgeville	7			2.48	2.48	\$6,290.54	\$314.53
128	MCCORT GARY L	9740 ISLAND RD GRAFTON, OH 44044	1100030000019	Eaton	11			0.69	0.69	\$1,750.19	\$87.51
129	KIESEL DORIS	9042 NESTHAVEN WAY N RIDGEVILLE, OH 44039	0700001000040	North Ridgeville	7			0.53	0.53	\$1,344.35	\$67.22
130	SANDVICK DALE R TRUSTEE	9690 ROOT ROAD COLUMBIA STATION, OH 44028	1100010000006	Eaton	11			2.44	2.48	\$6,290.54	\$314.53
131	BALDWIN CHARLES O JR	9540 ROOT RD COLUMBIA STATION, OH 44028	1100010000001	Eaton	11			7.83	7.83	\$19,860.85	\$993.04
132	MEEHAN JENNIFER A & MEEHAN JERRY T	9633 ISLAND RD GRAFTON, OH 44044	1100030000026	Eaton	11			0.79	0.79	\$2,003.84	\$100.19
133	MACK MATTHEW V & MACK SHERRY A	9800 NORTH ISLAND ROAD GRAFTON, OH 44044	1100031000020	Eaton	11			0.69	0.69	\$1,750.19	\$87.51
134	PETRIK ANNA	9486 ROOT RD N RIDGEVILLE, OH 44039	0700001000384	North Ridgeville	7			2.47	2.46	\$6,239.81	\$311.99
135	SWAN DONALD L JR TRUSTEE	9489 MARIGOLD BLVD N RIDGEVILLE, OH 44039	0700001000009	North Ridgeville	7			0.44	0.44	\$1,116.06	\$55.80
136	FLANIGAN RYAN	9552 REED RD COLUMBIA STATION, OH 44028	1100030000046	Eaton	11			5.60	5.60	\$14,204.44	\$710.22
Property Owners shown in Bold are adjacent to the project								120.90	90.76	\$230,213.39	\$11,510.67
SHEET TOTAL											

List of Land Owners Claimed to be Benefitted or Damaged
Lorain County Ditch Petition
Estimated Assessments
Ditch Project

TOTAL PROJECT COSTS \$ 1,836,000.00
TOTAL BENEFITTED 723.83 AC
ANNUAL MAINTENANCE FEE \$ 91,800.00
DITCH LENGTH 15,154.00 FT

Date: 1/26/2023

	Owner's Name	Owner's Address	Permanent Parcel	Township	Orig. Lot No.	Description	Damages	Acres Owned	Acres Benefitted	Assessment	Annual Maint.
137	BOB SCHMITT HOMES INC	9095 GATESTONE RD NORTH RIDGEVILLE, OH 44039	700001000441	Eaton	11			150.60	98.39	\$249,566.94	\$12,478.35
138	CARNEY BRIAN K TRUSTEE & CARNEY JENNIFER A TR	9820 ROOT RD COLUMBIA STATION, OH 44028	1100010000058	Eaton	11			5.15	0.33	\$837.05	\$41.85
139	LENART DOLORES	9790 ROOT RD COLUMBIA STATION, OH 44028	1100010000011	Eaton	11			2.32	0.85	\$2,156.03	\$107.80
140	NORTH RIDGEVILLE CITY OF	7307 AVON BELDEN RD N RIDGEVILLE, OH 44039	0700001900004	Eaton	11			6.31	2.10	\$5,326.67	\$266.33
141	MCCORT GARY L	9740 ISLAND RD GRAFTON, OH 44044	1100031000014	Eaton	11			1.00	1.00	\$2,536.51	\$126.83
142	SANDVICK DALE R TRUSTEE	9690 ROOT ROAD COLUMBIA STATION, OH 44028	1100011000006	Eaton	11			83.59	14.93	\$37,870.05	\$1,893.50
143	WILLIAMSON CASEY J	9665 ISLAND RD N GRAFTON, OH 44044	1100030000005	Eaton	11			0.29	0.29	\$735.59	\$36.78
144	ARCURI BRIAN & KIMBERLY L	9620 ROOT RD COLUMBIA STATION, OH 44028	1100010000003	Eaton	11			2.19	2.19	\$5,554.95	\$277.75
145	DAUGHERTY JANET	9660 ISLAND RD GRAFTON, OH 44044	1100031000004	Eaton	11			0.77	0.77	\$1,953.11	\$97.66
146	NOWAGARSKI WILLIAM J TRUSTEE	9510 ISLAND RD GRAFTON, OH 44044	1100031000012	Eaton	11			2.00	1.29	\$3,272.09	\$163.60
147	SMITH STEVEN & TONYA	9540 ISLAND RD GRAFTON, OH 44044	1100031000008	Eaton	11			0.80	0.80	\$2,029.21	\$101.46
148	SMITH STEVEN & TONYA	9540 ISLAND RD GRAFTON, OH 44044	1100031000010	Eaton	11			0.20	0.20	\$507.30	\$25.37
149	MISKA CHUCK M & LAURA L	9500 N ISLAND RD GRAFTON, OH 44044	1100031000013	Eaton	11			23.00	0.09	\$228.29	\$11.41
150	BRACHT SUSAN	9590 N ISLAND RD GRAFTON, OH 44044	1100031000024	Eaton	11			1.00	1.00	\$2,536.51	\$126.83
151	WIENCEK JOHN	9520 ISLAND RD GRAFTON, OH 44044	1100031000046	Eaton	11			2.43	2.42	\$6,138.35	\$306.92
152	[DUPLICATE REMOVED]										
153	[DUPLICATE REMOVED]										
Property Owners shown in Bold are adjacent to the project								281.66	126.65	\$321,248.64	\$16,062.43
SHEET TOTAL											

List of Land Owners Claimed to be Benefitted or Damaged
Lorain County Ditch Petition
Estimated Assessments
Ditch Project

TOTAL PROJECT COSTS \$ 1,836,000.00
TOTAL BENEFITTED 723.83 AC
ANNUAL MAINTENANCE FEE \$ 91,800.00
DITCH LENGTH 15,154.00 FT

Date: 1/26/2023

	Owner's Name	Owner's Address	Permanent Parcel	Township	Orig. Lot No.	Description	Damages	Acres Owned	Acres Benefitted	Assessment	Annual Maint.
154	[DUPLICATE REMOVED]										
155	[DUPLICATE REMOVED]										
156	[DUPLICATE REMOVED]										
157	[DUPLICATE REMOVED]										
158	HANKINSON JAMES WILLIAM & DIANE CO-TRUSTEES	9543 ISLAND RD GRAFTON, OH 44044	1100030000035	Eaton	11			0.60	0.60	\$1,521.90	\$76.10
159	HANKINSON JAMES WILLIAM & DIANE CO-TRUSTEES	9543 ISLAND RD GRAFTON, OH 44044	1100030000023	Eaton	11			0.50	0.50	\$1,268.25	\$63.41
160	MOROG BRIAN A & BERNACIAK DEBBIE M	9627 ISLAND RD GRAFTON, OH 44044	1100030000025	Eaton	11			0.50	0.50	\$1,268.25	\$63.41
161	[REMOVED DUE TO ROUNDING]										
162	BAZAR MICHAEL J & KEATIGN TAYLOR R	9523 ISLAND RD GRAFTON, OH 44044	1100030000032	Eaton	11			0.60	0.26	\$659.49	\$32.97
163	BURKE TERRY	9451 ROOT RD N RIDGEVILLE, OH 44039	0700001000026	North Ridgeville	7			2.35	1.70	\$4,312.06	\$215.60
164	POWELL WILLIAM N	18617 PARKMOUNT AVE CLEVELAND, OH 44135	0700001000069	North Ridgeville	7			0.89	0.06	\$152.19	\$7.61
165	POWELL WILLIAM N	18700 PARKMOUNT AVE CLEVELAND, OH 44135	0700001000064	North Ridgeville	7			0.61	0.31	\$786.32	\$39.32
166	RIDGEFIELD HOMEOWNERS ASSOCIATION THE	NESTHAVEN WAY NORTH RIDGEVILLE, OH 44039	0700001000302	North Ridgeville	7			1.14	1.07	\$2,714.06	\$135.70
167											
168											
169											
170											
Property Owners shown in Bold are adjacent to the project								7.20	5.00	\$12,682.54	\$634.13
SHEET TOTAL											

Appendix B

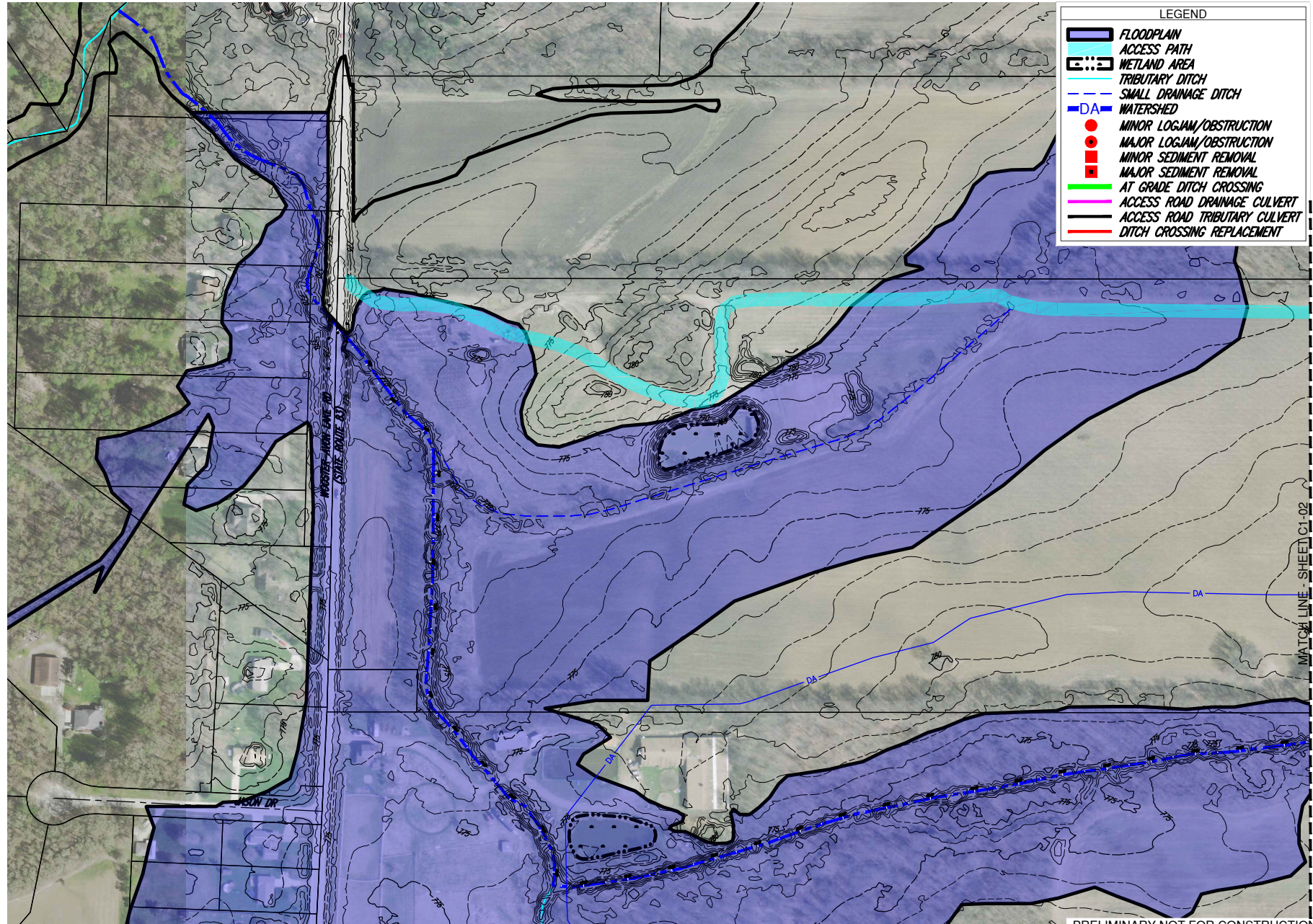
Engineer's Estimate

Fortune South and Dickson Ditch Restoration						
Estimate of Probable Project Cost						
Wednesday, January 25, 2023						
TOTAL DITCH LENGTH			15,154	LF	2.87	Miles
No	ODOT ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	SUBTOTAL
1	103.1	PREMIUM CONTRACT BOND	1	LS	\$ 16,000.00	\$ 16,000.00
2	201	CLEARING & GRUBBING	17.0	AC	\$ 13,000.00	\$ 221,000.00
3	202	TEMPORARY WETLAND MATTING	4,600	LF	\$ 100.00	\$ 460,000.00
4	202	REMOVE PIPE	106	LF	\$ 25.00	\$ 2,650.00
5	202	REMOVE STRUCTURE	1	LS	\$ 5,000.00	\$ 5,000.00
6	203	LOGJAM/OBSTRUCTION - MINOR	10	EA	\$ 2,500.00	\$ 25,000.00
7	203	EXCAVATION	7,400	CY	\$ 6.50	\$ 48,100.00
8	203	EMBANKMENT	300	CY	\$ 5.00	\$ 1,500.00
9	203	TOPSOIL STOCKPILE & REPLACEMENT	100	CY	\$ 15.00	\$ 1,500.00
10	203	SPOILS REMOVAL - HAULING/DISPOSAL	7,000	CY	\$ 10.00	\$ 70,000.00
11	204	SUBGRADE COMPACTION	550	SY	\$ 2.50	\$ 1,375.00
12	204	PROOF ROLLING, AS PER PLAN	1	HR	\$ 100.00	\$ 100.00
13	659	SEEDING AND MULCHING, CLASS 3A	81,965	SY	\$ 2.00	\$ 163,930.00
14	671	EROSION CONTROL MAT, TYPE B	17,980	SY	\$ 6.00	\$ 107,880.00
15	832	EROSION CONTROL	1	LS	\$ 25,000.00	\$ 25,000.00
16	601	ROCK CHANNEL PROTECTION, TYPE C, WITH FILTER	100	CY	\$ 130.00	\$ 13,000.00
17	602	CONCRETE MASONRY	15	CY	\$ 2,000.00	\$ 30,000.00
18	603	4"-10" CONDUIT, TYPE E, AS PER PLAN	100	FT	\$ 30.00	\$ 3,000.00
19	611	12" CONDUIT, TYPE B, AS PER PLAN	225	FT	\$ 85.00	\$ 19,125.00
20	611	12" CONDUIT, TYPE C, AS PER PLAN	150	FT	\$ 70.00	\$ 10,500.00
21	611	18" CONDUIT, TYPE B, AS PER PLAN	26	FT	\$ 110.00	\$ 2,860.00
22	611	8' X 5' CONDUIT, TYPE A, 706.05, AS PER PLAN	60	FT	\$ 825.00	\$ 49,500.00
23	638	RELOCATE EXISTING WATER MAIN / SERVICE LINE, AS PER PLAN	1	EA	\$ 3,000.00	\$ 3,000.00
24	304	AGGREGATE BASE, AS PER PLAN	60	CY	\$ 100.00	\$ 6,000.00
25	407	NON-TRACKING TACK COAT, AS PER PLAN	6	GAL	\$ 5.00	\$ 30.00
26	441	ASPHALT CONCRETE SURFACE, TYPE 1 (448), AS PER PLAN	5	CY	\$ 350.00	\$ 1,750.00
27	441	ASPHALT CONCRETE INTERMEDIATE, TYPE 2 (448), AS PER PLAN	10	CY	\$ 300.00	\$ 3,000.00
28	SPC	PERMANENT ACCESS DRIVE, AS PER PLAN	7	EA	\$ 3,500.00	\$ 24,500.00
29	601	TIED CONCRETE BLOCK MAT, AS PER PLAN	145	SY	\$ 130.00	\$ 18,850.00
30	614	MAINTENANCE OF TRAFFIC	1	LS	\$ 15,000.00	\$ 15,000.00
31	SPC	DITCH SIGN, GROUND MOUNTED, AS PER PLAN	9	EA	\$ 250.00	\$ 2,250.00
32	623	CONSTRUCTION LAYOUT STAKES	1	LS	\$ 18,000.00	\$ 18,000.00
33	624	MOBILIZATION	1	LS	\$ 15,000.00	\$ 15,000.00
CONSTRUCTION SUBTOTAL						\$ 1,384,000.00
CONTINGENCY						\$ 163,400.00
CONSTRUCTION TOTAL						\$ 1,547,400.00
ANNUAL MAINTENANCE (5%)						\$ 77,370.00
DAMAGES ESTIMATED						\$ -
*SOFT COSTS						\$ 211,000.00
TOTAL PROJECT COST (2023 Construction)						\$ 1,836,000.00
TOTAL PROJECT COST PER FT						\$ 121.16

*Soft cost include engineering cost, wetland review, bidding, construction administration and inspection.

Appendix C

Preliminary Plan



LEGEND

- FLOODPLAIN
- ACCESS PATH
- WETLAND AREA
- TRIBUTARY DITCH
- SMALL DRAINAGE DITCH
- WATERSHED
- MINOR LOGJAM/OBSTRUCTION
- MAJOR LOGJAM/OBSTRUCTION
- MINOR SEDIMENT REMOVAL
- MAJOR SEDIMENT REMOVAL
- AT GRADE DITCH CROSSING
- ACCESS ROAD DRAINAGE CULVERT
- ACCESS ROAD TRIBUTARY CULVERT
- DITCH CROSSING REPLACEMENT

0 100 200
HORIZONTAL SCALE IN FEET

KEM
K.E. MCCARTNEY & ASSOCIATES
ENGINEERS • PLANNERS • SURVEYORS
ENGINEERING INFRASTRUCTURE SOLUTIONS
SINCE 1978
www.kemccartney.com

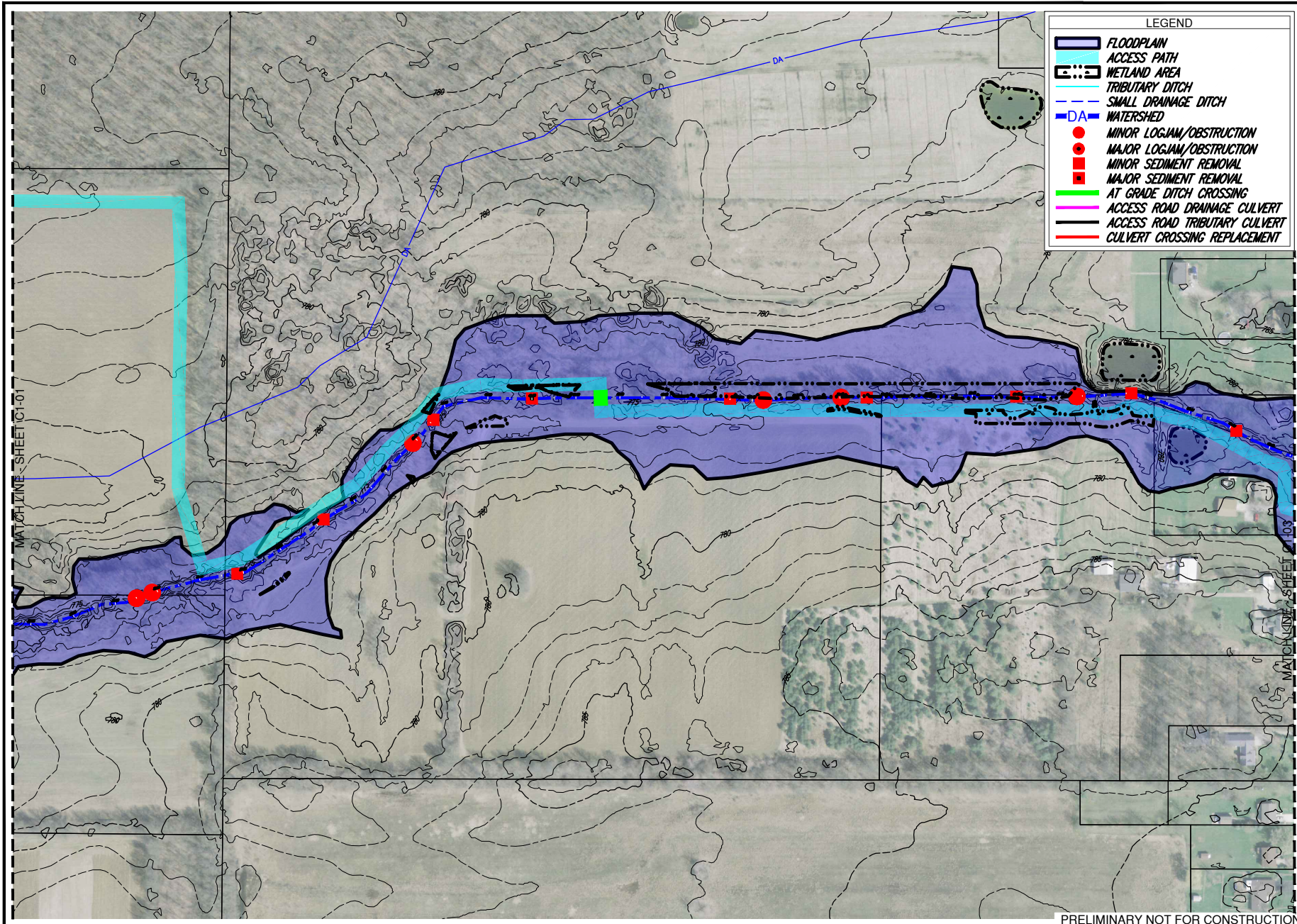


FORTUNE DITCH IMPROVEMENTS

LORAIN COUNTY, OHIO
CUYAHOGA COUNTY, OHIO

DATE	DRAWN	CHECKED
OCT 30, 2022	JSW	xxx
SHEET NUMBER	C1-01	

PRELIMINARY NOT FOR CONSTRUCTION



- LEGEND**
- FLOODPLAIN
 - ACCESS PATH
 - WETLAND AREA
 - TRIBUTARY DITCH
 - SMALL DRAINAGE DITCH
 - WATERSHED
 - MINOR LOGJAM/OBSTRUCTION
 - MAJOR LOGJAM/OBSTRUCTION
 - MINOR SEDIMENT REMOVAL
 - MAJOR SEDIMENT REMOVAL
 - AT GRADE DITCH CROSSING
 - ACCESS ROAD DRAINAGE CULVERT
 - ACCESS ROAD TRIBUTARY CULVERT
 - CULVERT CROSSING REPLACEMENT

0 100 200

HORIZONTAL SCALE IN FEET

K.E. McCARTNEY & ASSOCIATES

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storm water

MANAGEMENT

FORTUNE DITCH IMPROVEMENTS

LORAIN COUNTY, OHIO

CUYAHOGA COUNTY, OHIO

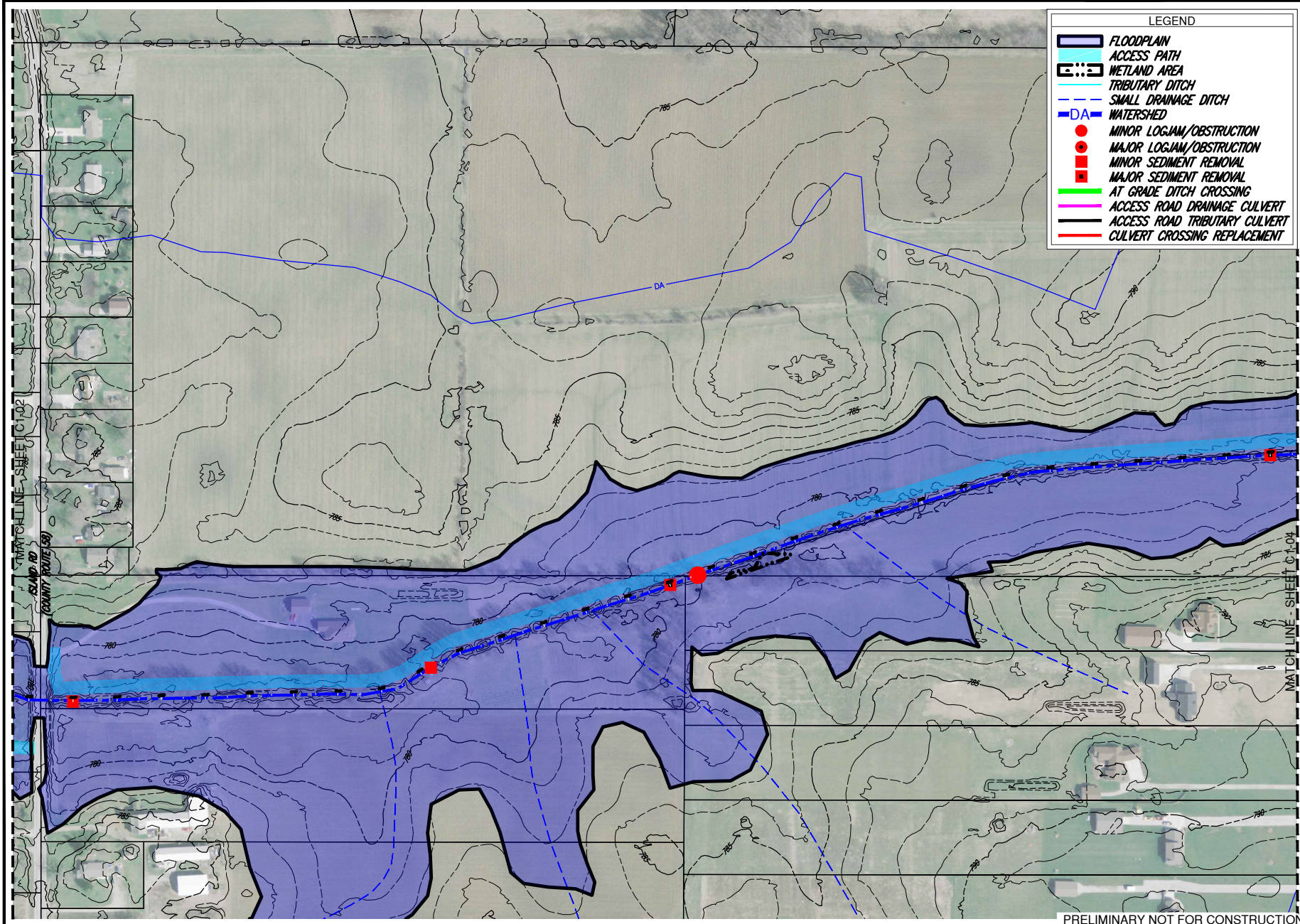
DATE: OCT 30, 2022

SHEET NUMBER: C1-02

DRAWN BY: JSW

CHECKED BY: xxx

PRELIMINARY NOT FOR CONSTRUCTION



- LEGEND**
- FLOODPLAIN
 - ACCESS PATH
 - WETLAND AREA
 - TRIBUTARY DITCH
 - SMALL DRAINAGE DITCH
 - WATERSHED
 - MINOR LOGJAM/OBSTRUCTION
 - MAJOR LOGJAM/OBSTRUCTION
 - MINOR SEDIMENT REMOVAL
 - MAJOR SEDIMENT REMOVAL
 - AT GRADE DITCH CROSSING
 - ACCESS ROAD DRAINAGE CULVERT
 - ACCESS ROAD TRIBUTARY CULVERT
 - CULVERT CROSSING REPLACEMENT

LEGEND

- FLOODPLAIN
- ACCESS PATH
- WETLAND AREA
- TRIBUTARY DITCH
- SMALL DRAINAGE DITCH
- WATERSHED
- MINOR LOGJAM/OBSTRUCTION
- MAJOR LOGJAM/OBSTRUCTION
- MINOR SEDIMENT REMOVAL
- MAJOR SEDIMENT REMOVAL
- AT GRADE DITCH CROSSING
- ACCESS ROAD DRAINAGE CULVERT
- ACCESS ROAD TRIBUTARY CULVERT
- CULVERT CROSSING REPLACEMENT

0 100 200
HORIZONTAL SCALE IN FEET

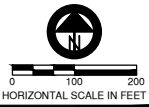
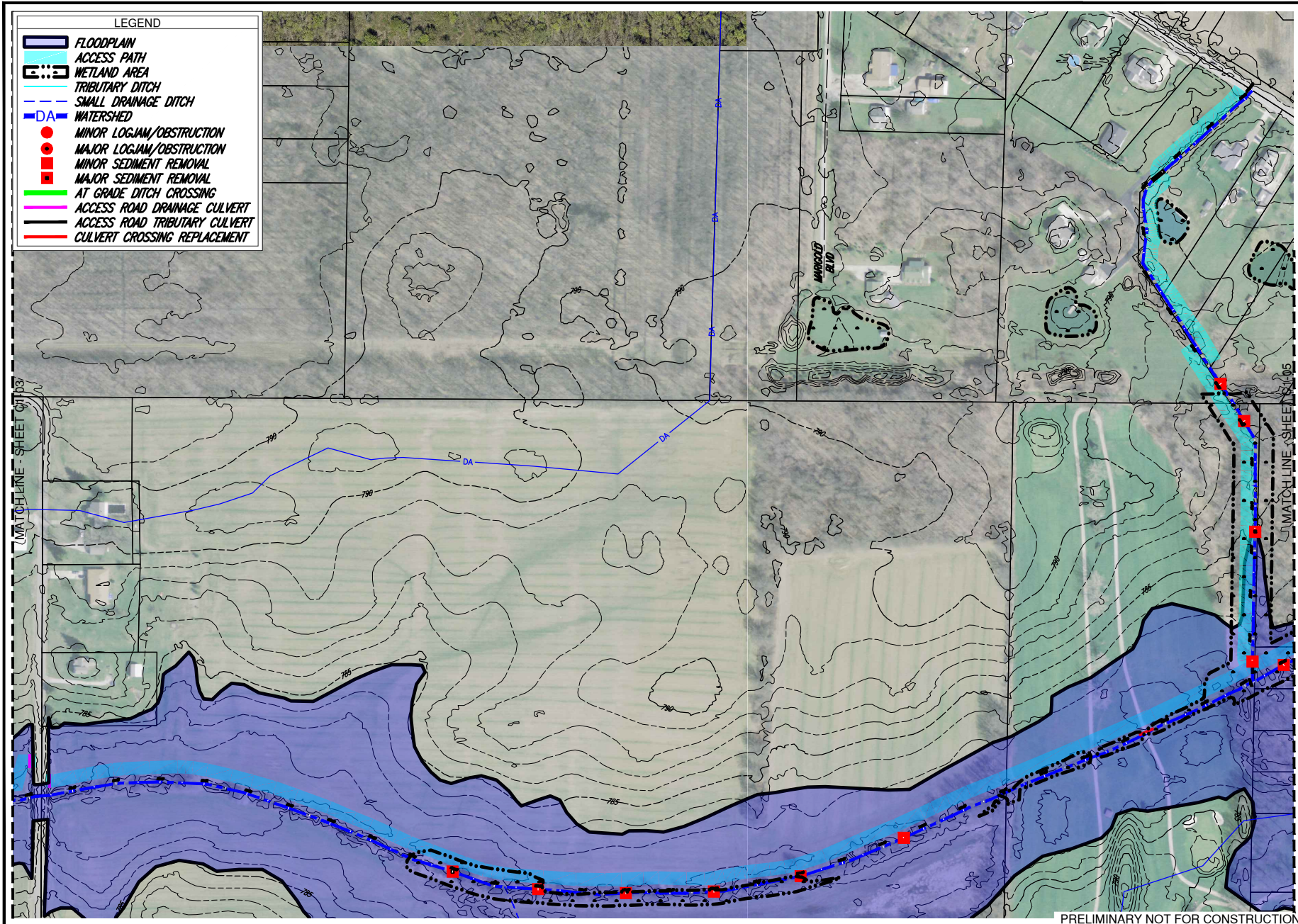
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storm water
MANAGEMENT

FORTUNE DITCH IMPROVEMENTS
LORAIN COUNTY, OHIO
CUYAHOGA COUNTY, OHIO

DATE: OCT 30, 2022 DRAWN BY: JSW CHECKED BY: xxx
SHEET NUMBER: C1-03

PRELIMINARY NOT FOR CONSTRUCTION



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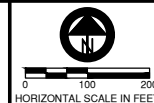
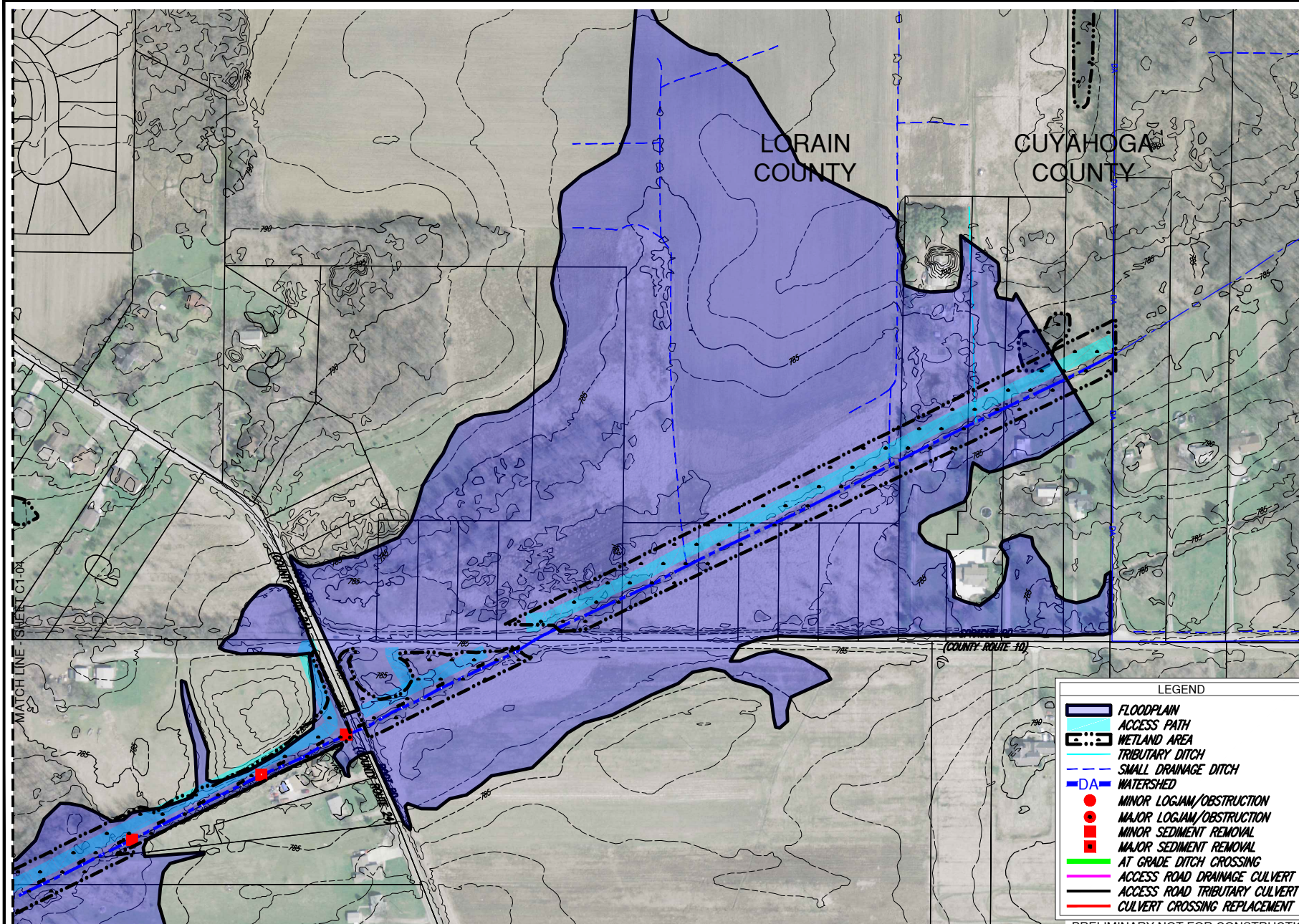


FORTUNE DITCH IMPROVEMENTS

LORAIN COUNTY, OHIO
CUYAHOGA COUNTY, OHIO

DATE: OCT 30, 2022
DRAWN BY: JSW
CHECKED BY: xxx
SHEET NUMBER: C1-04

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FORTUNE DITCH IMPROVEMENTS

LORAIN COUNTY, OHIO
CUYAHOGA COUNTY, OHIO

DATE: OCT 30, 2022
DRAWN BY: JSW
CHECKED BY: xxx
SHEET NUMBER

C1-05

- LEGEND**
- FLOODPLAIN
 - ACCESS PATH
 - WETLAND AREA
 - TRIBUTARY DITCH
 - SMALL DRAINAGE DITCH
 - WATERSHED
 - MINOR LOGJAM/OBSTRUCTION
 - MAJOR LOGJAM/OBSTRUCTION
 - MINOR SEDIMENT REMOVAL
 - MAJOR SEDIMENT REMOVAL
 - AT GRADE DITCH CROSSING
 - ACCESS ROAD DRAINAGE CULVERT
 - ACCESS ROAD TRIBUTARY CULVERT
 - CULVERT CROSSING REPLACEMENT

PRELIMINARY NOT FOR CONSTRUCTION

Appendix D

Drainage Photo Log

Fortune and Dickson Ditch Drainage Photo Log

Point # 135 Log Jam 6/4/21



Point # 192 Log Jam 11/3/21



Point # 193 Log Jam 11/3/21



Point # 194 Log Jam 11/3/21



Point # 195 Log Jam 11/3/21



Point # 243 Log Jam 12/7/21



Point # 244 Log Jam 12/7/21



Appendix E
Fortune Ditch Report, May 2019

Fortune Ditch Memo 9-25-19

Purpose: Walk Fortune Ditch to determine if there is a need for improvements to aid the flow of water. Observe physical characteristics of ditch such as shape, grade, and erosion. Look for evidence of sedimentation and other restrictive factors that may impede the flow or cause flooding. Make contacts with other communities that have interest and responsibility to collaborate on solutions if there are issues that should be addressed.

Scope: Investigation of the Fortune Ditch system in Olmsted Township at 27506 Sprague Road heading down stream (West) to Root Rd in Lorain County. Collaboration of multiple communities is required to investigate and propose solutions at this location where the corners of Olmsted Township, North Ridgeville, Eaton, and Columbia Townships all have jurisdictional boundaries.

Personnel from Olmsted Township, NEORSD, and Lorain County Storm Water Management District conducted this investigation. They were: Matt Arnold, Eric Williams, and Meiring Borchers.

Findings:

1. Several residences along Fortune Ditch have crossings that have restricted the flow of Fortune Ditch. These should be upgraded to sizable culverts or bridges that do not impede the flow of the ditch or allow obstructions to gather creating a "damming" effect. **See Figures 1 and 4-6**
2. The confluence where Fortune Ditch and the roadside ditch on the north side of Sprague Road join is overgrown with vegetation and has much silt deposited in this location. This can cause merging water to back up since the capacity is reduced at the confluence similar to a road way merge during rush hour. **See Figures 2 and 7**
3. The shape, size, and grade of Fortune Ditch is shallow and exhibits much siltation. It appears to frequently breach its banks flooding residential yards. **See Figure 9**
4. The roadside ditch could be cleaned and regraded since siltation is exhibited in it as well. This could help to move more standing water out of the front yards of local residents but is not a solution for the area. **See Figure 8.**

5. A possible wetland/stream restoration project or storm water management project could be considered for the rest of the wetland areas around where the confluence of Fortune Ditch and Sprague roadside ditch joins. This would aid in detaining water for longer times and slowly releasing it to the stream channel, reducing the amount of water in the stream channel, and thus relieving some of the issues experienced by residents. It could also provide for water quality benefits of Fortune Ditch. **See Figure 2**
6. Much of the land along Fortune Ditch resides within the FEMA 100-year flood zone and would not be developable for much other than a wetland/stream restoration project with a conservation easement place over it. **See Figure 3**

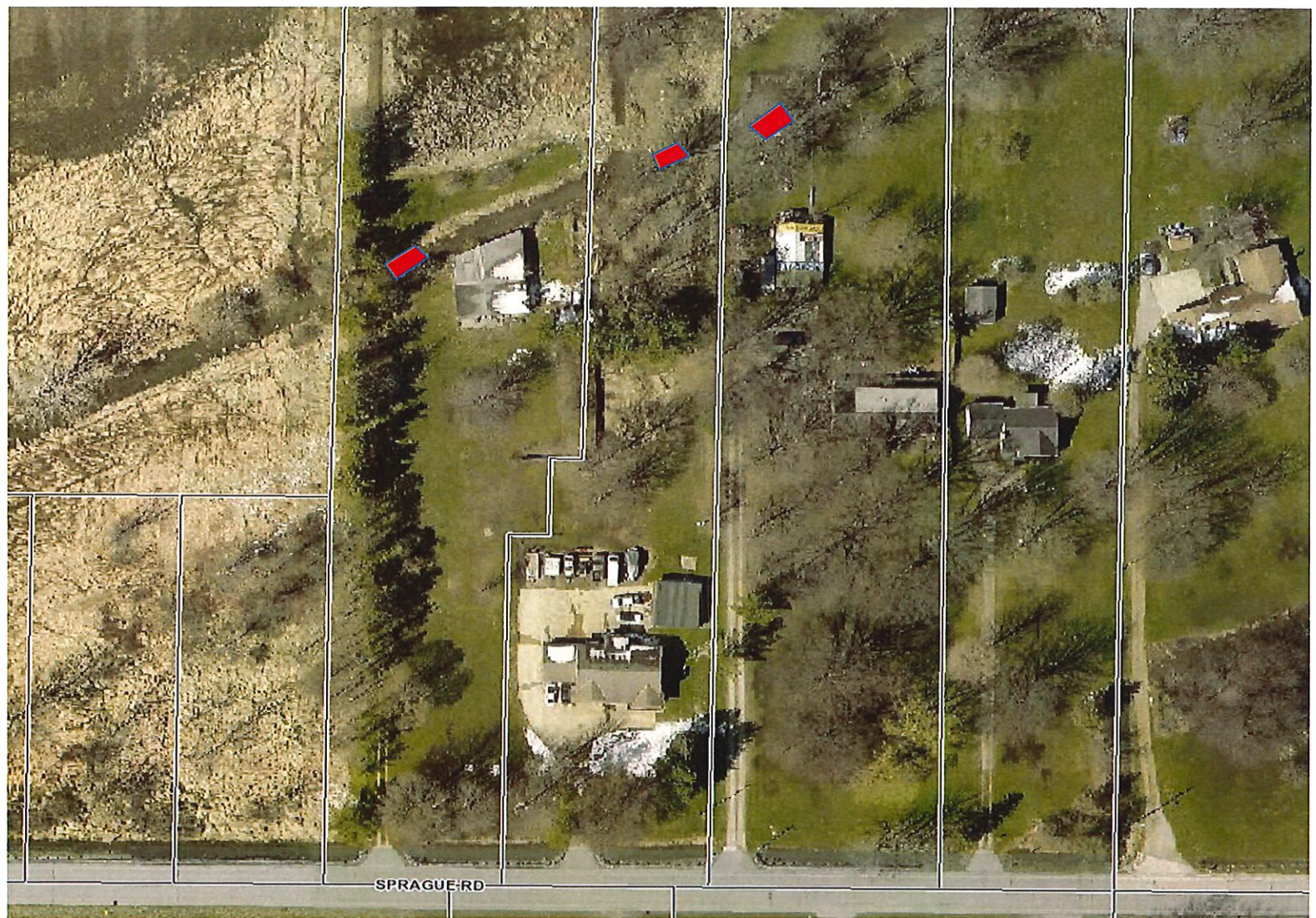


Figure 1- Map of Residents with restrictive crossings

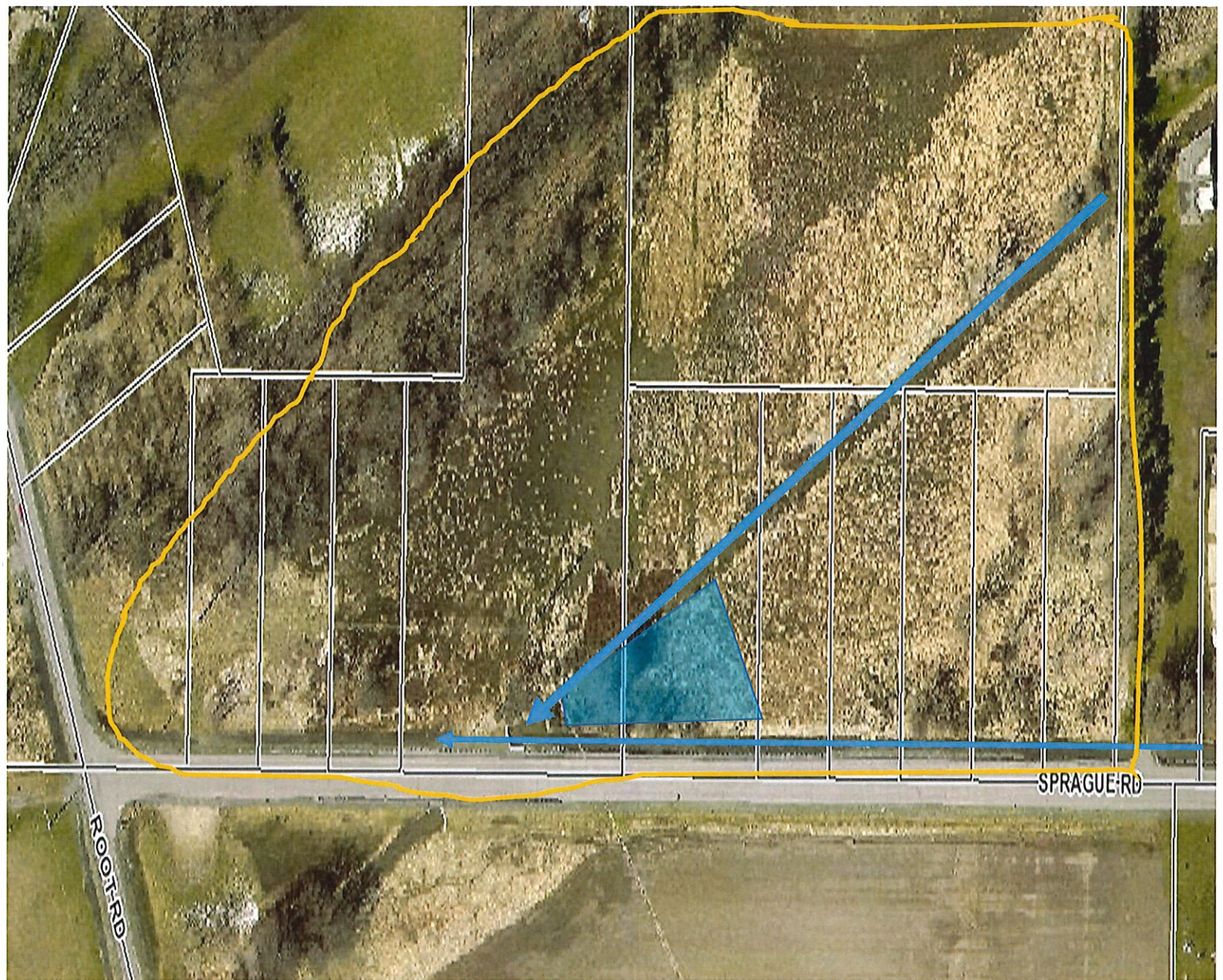


Figure 2- Map of Roadside ditch and Fortune Ditch confluence depicted in blue

Area circled in Gold could be considered for storm water management purposes



Figure 3- Depiction of FEMA 100-year Flood zone over most of the Fortune Ditch corridor

Sincerely,

Matthew B. Arnold

Matthew Arnold

Storm Water Technician

Lorain County Storm Water Management District

440-328-2364

marnold@loraincounty.us



Figure 4- Restrictive Crossing



Figure 5- Restrictive Crossing



Figure 6- Restrictive Crossing



Figure 7- Confluence of Fortune Ditch and Sprague roadside ditch



Figure 8- Roadside ditch could be regraded and cleaned of sediment to allow water to flow. It sits like swamp currently growing duck weed and has become anoxic.



Figure 9- Ditch has become shallow with little shape and no flow.

Appendix F
Fortune Ditch Status Report, June 2019



THE LORAIN COUNTY STORMWATER MANAGEMENT DISTRICT

May 22, 2019

Board Members

Lorain County Commissioners

- Sharon Sweda
- Lori Kokoski
- Matt Lundy

James Cordes, Director

Don Romancak, Assistant Director

Theresa Upton, Record Custodian

Management Team

Ken Carney, Engineer

Peter Zwick, Chief Deputy

Don,

I have completed a preliminary investigation into the section of Fortune Ditch at the intersection of Sprague and Root Roads. The ditch suffers from a lack of maintenance within private property boundaries and resides within the FEMA flood plain.

It has potential as a Storm Water District or SWAC project to increase flow and reduce the flooding within the area. However, there are potential wetlands located within the immediate surrounding area and a survey by certified professionals would give us better insight into the hurdles that may be involved with a construction project.

Working within this section of ditch would require the involvement of multiple communities working together to help improve this section of Fortune Ditch since it has a large watershed and flows through 4 communities at this location, all of which would receive some benefit from ditch improvements. The communities involved are Olmsted Township, North Ridgeville, Columbia Township, and Eaton Township.

I have attached my report for your review and comments.

Sincerely,

Matthew Arnold
Storm Water Technician
Lorain County Storm Water Management District

Fortune Ditch Report

Location: Near the intersection of Root Rd. and Sprague Rd. on the border of Columbia Station, Eaton and North Ridgeville.

See Figure 1

Conditions Observed:

1. Section of the Ditch North of Sprague Rd. and East of Root Rd. flows from Cuyahoga County through private property entailing agricultural land, woods, and floodplain wetland areas.
 - a. The Condition of this section of ditch is unknown due to accessibility.

See Figure 2

2. Large box culverts convey water under Sprague Rd
 - a. Both sides of the road have ponding water around culverts averaging 24" or more in depth (Observed during low flow/ dry period)

See Figures 3-5

3. Water slowly drains South Westerly from previous location through a shallow unmaintained section of ditch on Majcher property (parcel # 1100010000034) to a large culvert under Root Rd.

See Figure 5-8

4. On the West side of Root Rd., there is some built up sedimentation where the ditch exits the culverts. Then the ditch continues West through private property in Eaton Township.
 - a. A road side lateral that has been recently cleaned joins at this location from North Ridgeville.

See Figure 5 & 9-10

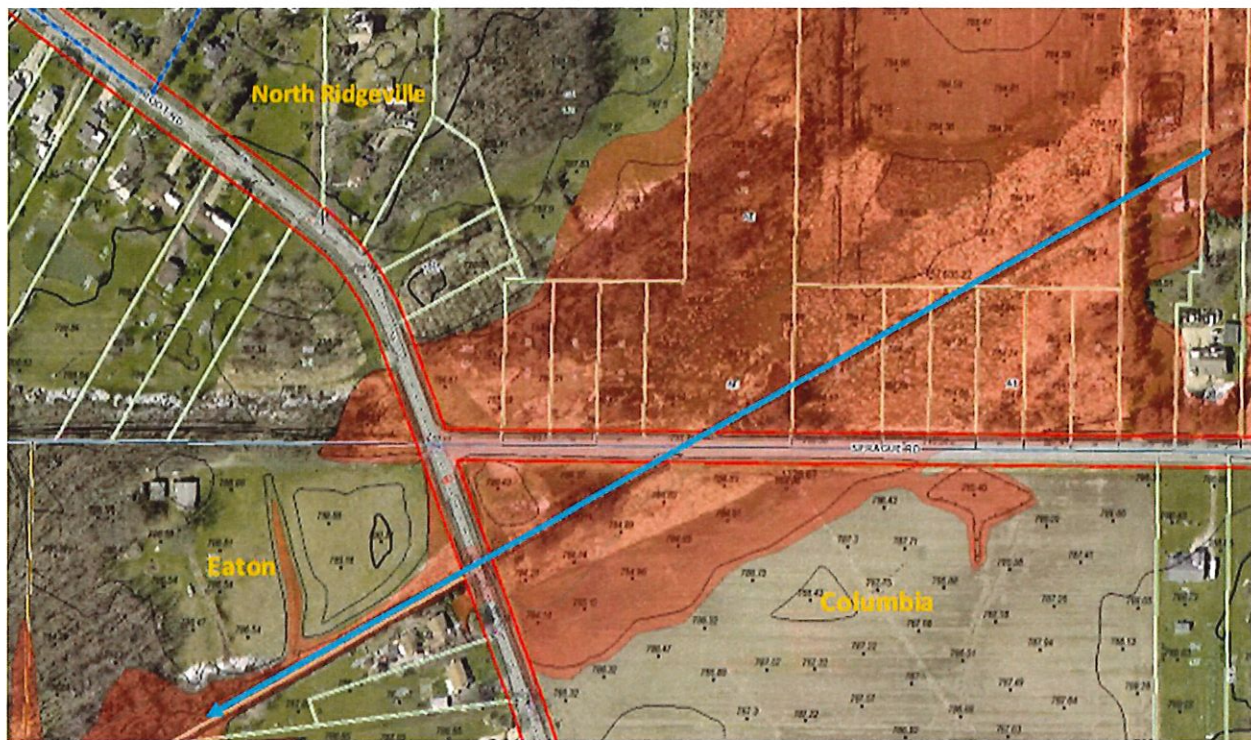


Figure 1

Blue- Represents the Ditch



Figure 2- Fortune Ditch looking NE towards Olmsted.



Figure 3



Figure 4- Large box culverts with 24"+ of ponding water

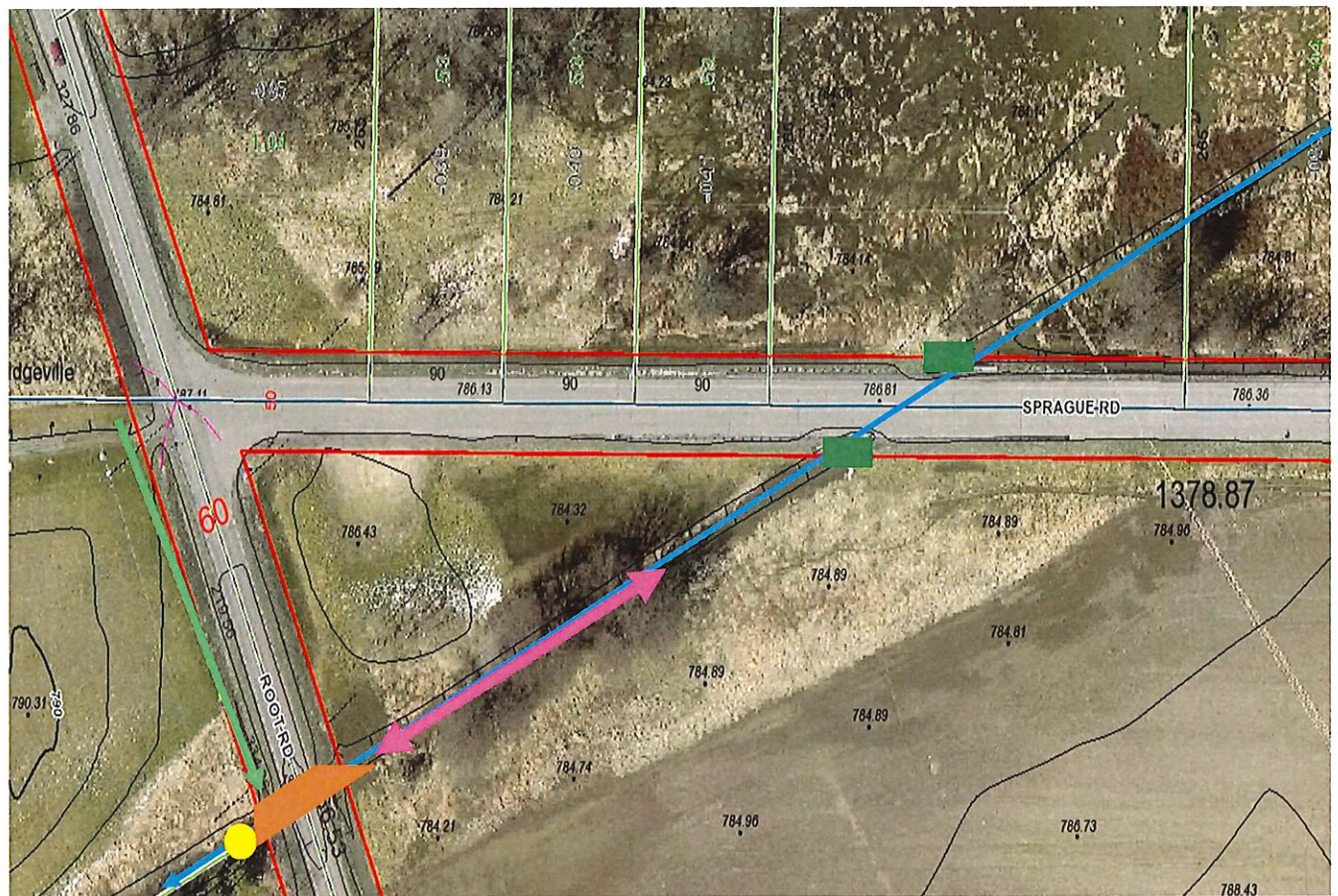


Figure 5

Blue- Represents Fortune Ditch

Green- Represents Box Culverts with ponding Water

Orange- Represents the culverts under Root Rd.

Yellow- Represents the sedimentation exiting the Root Rd Culvert.

Pink- Represents the section of Fortune Ditch that needs some maintenance attention.

Pastel Green- Represents the North Ridgeville roadside lateral, recently cleaned, flowing into Fortune Ditch



Figure 6- From Sprague box culverts looking West toward Root Rd.



Figure 7- Looking from Root Rd. East toward Sprague.



Figure 8- Looking from Root Rd. East toward Sprague.



Figure 9- Built up sedimentation at exit of culverts and roadside lateral from North Ridgeville.



Figure 10- Fortune Ditch continuing westerly through private property in Eaton Township.

Appendix G
Fortune Ditch Memo, September 2019

Fortune Ditch Report 6-21-19

Location Investigated: From Reed Rd. heading East to the intersection of Root and Sprague Roads.

See Figure 1

Reason: Received call from North Ridgeville Service Department asking for aid in relieving flooding to some of their residents. Met with John Montgomery to investigate.

Conditions Observed:

1. Water flows under Reed Rd. in fair condition. There is some sediment built up along the headwalls and banks. There is also an abundance of vegetative debris that could be mowed to help the ditch flow.

See Figure 2

2. Between Reed Rd. and Root Rd., Fortune Ditch exhibits sluggish flow throughout. Several causes have been identified
 - a. There were at least two dozen small snags and obstructions caused by brush, sizable sticks, small logs, and overgrowth of woody vegetation within the ditch.

See Figures 2-5

- b. There are approximately 3 or 4 small log jams

See Figures 6-8

- c. Creek Wood Golf course has 2 cart crossings on holes #4 and #5 that utilize culverts that may be restrictive to the system.

See Figures 9 and 10

- d. Sections of the ditch suffer from siltation that has caused the ditch to lose shape and capacity, causing it to shallow and widen into a flood plain type shape, other sections have narrowed and are restricted through silt humps created by deposition.

See Figures 2-5 and 11-13

3. This section of Fortune Ditch suffers from a lack of outstanding maintenance allowing silt to build up and overgrowth of woody vegetation.

4. Dale Sandovich, Owner of Creek Wood Golf Course, said that he is willing to work with us in any way possible to help improve the ditch flow and capacity as it has affected his business for some time now.
5. Other efforts will need to be made to collaborate with properties owners along the ditch who would benefit by receiving reduced occurrences of flooding and increased uses of yards that would have better drainage. Farm fields along the ditch may be able to reclaim and replant some of the areas, as I was informed by Dale that sections of field have been abandoned for years due to the excessive amount of water making them unproductive.
6. There are areas along the ditch that appear to be wetlands. A delineation would be required to determine wetland areas. Much of the area also resides within the FEMA flood plain.
7. The ditch affects and provides an outlet for properties located within 4 communities which include North Ridgeville, Olmsted, Columbia, and Eaton Townships. Collective efforts to improve the ditch could help benefit residents from all communities involved.

Sincerely,



Matthew Arnold
Stormwater Technician
Lorain County Stormwater Management District
440-328-2364
marnold@loraincounty.us

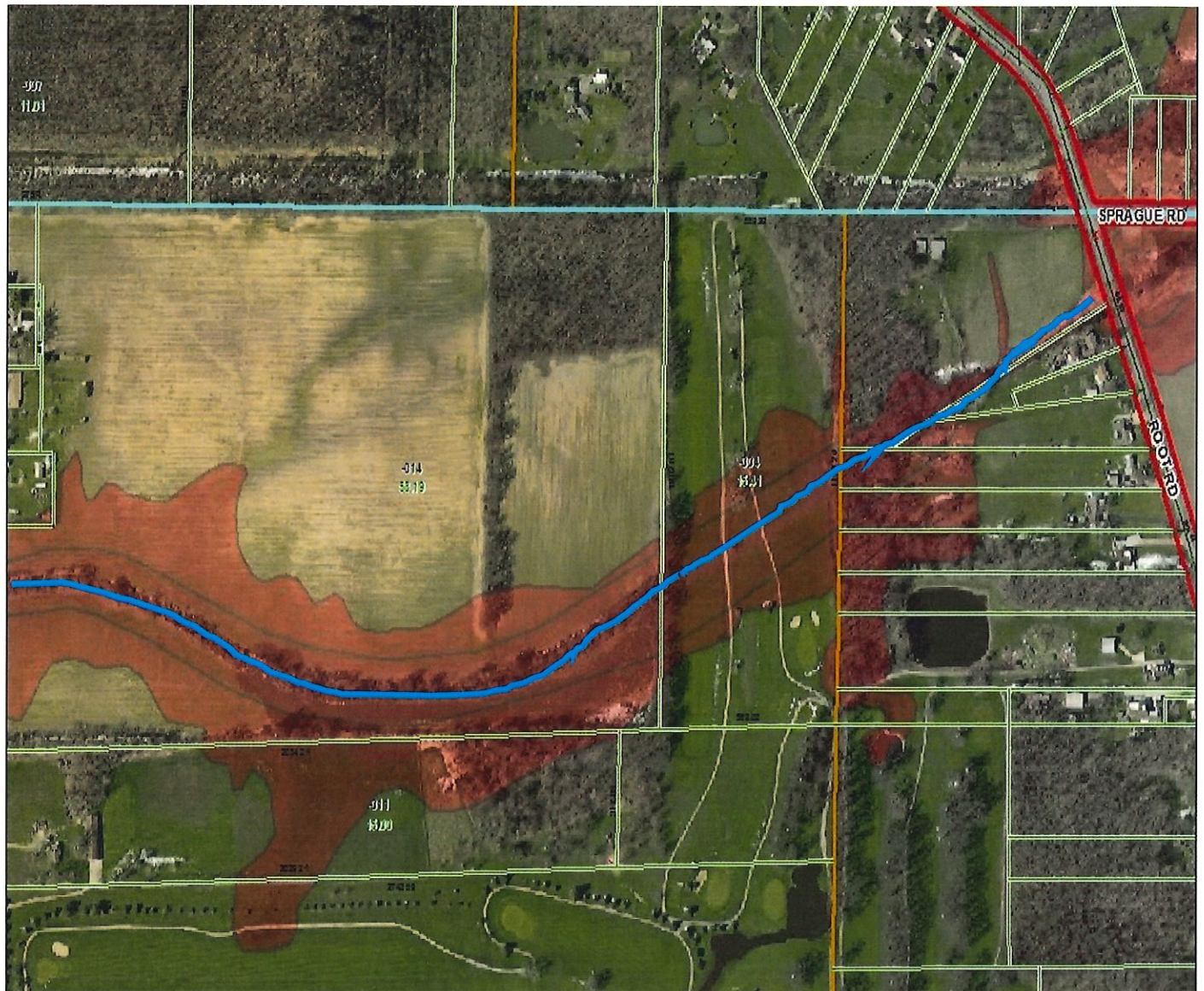


Figure 1

Blue- Represents the Ditch

Red- Shows the FEMA Flood Plain



Figure 2- Culvert under Reed Rd. Silt Built up on sides and vegetation overgrowth causing narrow pinch point.



Figure 3- Sticks, debris, and silt obstructing flow



Figure 4- Stick and limb jam upstream. Silt built up along sides



Figure 5- Silt built up in ditch causing sluggish flow.



Figure 6- Small log jam



Figure 7- Small log and limb jam



Figure 8- Log jam



Figure 9- Creek Wood Golf Course cart paths. One path has two approximately 36" culverts, one with lots of siltation. The other path has one approximately 36" culvert with a piece of board and other obstructions attached (Fig 10)



Figure 10- Pipe and board obstruction attached to culvert



Figure 11- Ditch has significant silt build up in some stretches causing narrowing and pinch points.



Figure 12- Some stretches are wide and flat but a very thick silt layer has developed causing ponding of water only inches deep over wide areas. Almost as if the ditch has become non-existent in some areas.



Figure 13- Silt build up causing debris and snags to occur and narrow the ditch channel

Appendix H
Fortune Ditch Petition Map, 1892

