



LORAIN COUNTY ENGINEER

KEN CARNEY, P.E., P.S.

Board of Lorain County Commissioners
226 Middle Avenue
Elyria, Ohio 44035

May 26, 2023

Attn: Theresa Upton, Clerk Tupton@loraincounty.us

Re: Annual Drainage Improvement Report

Commissioners:

Per ORC 6137.03, we herewith report the condition of drainage improvements (see attached summary of individual inspection reports that begins on the sixth page).

We estimate the assessments required for repair and maintenance of those improvements as indicated below. The following recommended rates are based upon suspension of individual assessments, with the cost of maintenance to be paid with Storm Water Management District Funds, in most cases in Groups A, B and C. See also the attached spreadsheets for the detailed assessments for each parcel of land that is subject to permanent maintenance.

The improvements fall into several groups:

- A. Petitioned ditches and improvements permanently maintained per ORC 6137
- B. Soil & Water Conservation District ditches permanently maintained per ORC 940
- C. Other improvements currently maintained by the County Storm Water Management District, but not assessed
- D. Subdivision Detention Basins permanently maintained by the County Engineer

A. PETITION DITCH IMPROVEMENTS maintained per ORC 6137

<u>NAME</u>	<u>TOWNSHIP</u>	<u>RATE</u>
A.1 Carlisle Ave. St. Sewer west #1122	Carlisle	0%
A.2 Eschtruth Tile #1131 & 1133	Sheffield	0%
A.3 King Kobelt North #1135	Carlisle	0%
A.4 Dewhurst Ditch #1139	Carlisle	0%
A.5 Forthofer Ditch #1141	Carlisle	0%
A.6 Porter Tile #1148	Henrietta	0%

A. PETITION DITCH IMPROVEMENTS maintained per ORC 6137, continued

<u>NAME</u>	<u>TOWNSHIP</u>	<u>RATE</u>
A.7 Gilson Ditch #1149	Elyria	0%
A.8 Higgins Ditch #1151/1151A	Henrietta	0%
A.9 Hastings Ditch	LaGrange	0%
A.10 Latteman Ditch #1161	Henrietta	0%
A.11 Smith Ditch #1162	Columbia	0%
A.12 a.) Draper Ditch #1157	Lorain County	0%
b.) Draper Ditch #1157	Huron County	5% *
*Draper Ditch is a joint county ditch with Huron County		
Please certify these maintenance assessments to Huron County		
A.13 Ives Ditch #1168	Columbia	0%
A.14 Allison Ditch #1176	Penfield	0%
A.15 Roth Tile Lateral #1	Columbia	0%
A.16 Stang (Bivins) Ditch	Elyria	0%
A.17 Gore-Orphanage Rd. Ditch (Draper Lat.)	Brighton	0%
A.18 Guthrie (Davis) Ditch Phase 3	Pittsfield	0%
A.19 King & Kobelt Ditch (South)	LaGrange	0%
A.20 Luther Lateral Ditch	Pittsfield	0%
A.21 Freeland Drive Ditch	Elyria	0%
A.22 Carpenter Ditch Lateral #7	Eaton	0%
A.23 a.) Mapleview Drive Ditch	Brownhelm	0%
b.) Mapleview Drive Ditch	Vermilion City	5%
A.24 Grafton Road Drain Outfall	Carlisle	0%
A.25 Battenhouse Ditch Lateral No. 2	Amherst&NewRussia	0%
A.26 Quarry Rd. Ditch Lateral No. 1	Pittsfield	0%

B. SOIL & WATER Conservation District ditches maintained per ORC 940

<u>NAME</u>	<u>TOWNSHIP</u>	<u>RATE</u>
B.1 More Relief Ditch #1153	Brownhelm	0%
B.2 Neal-Baus Ditch #1154	Amherst	0%
B.3 Brunson Ditch #1153A	Grafton	0%
B.4 Mauer Ditch #1154A	Camden, Wellington, Brighton, Pittsfield	0%
B.5 Groot, Davidson, Lewis Ditch #1160	Camden	0%
B.6 Gessner Waterway #1169	Rochester	0%
B.7 a. Dudley Ditch	New Russia	0%
b. Dudley Ditch	City of Oberlin	5%
B.8 Burge Ditch #1180	Wellington	0%
B.9 Dellefield Ditch #1179	Elyria	0%
B.10 Brownhelm Creek Ditch #1186	Brownhelm	0%
B.11 Cole Ditch #1183	Pittsfield	0%

B. Soil & Water Conservation District ditches maintained per ORC 940, cont'd.

<u>NAME</u>	<u>TOWNSHIP</u>	<u>RATE</u>
B.12 McConnell-Perkins Ditch #1181	Wellington	0%
B.13 Miller Ditch #1182	Wellington	0%
B.14 a.) Kelner Ditch #1184	LaGrange Twp.	0%
b.) Kelner Ditch #1184	LaGrange Village	5%
B.15 Zurcher-Kendeigh Ditch #1185	Henrietta	0%
B.16 Ward Ditch #1187	Camden	0%
B.17 Irish Road Ditch #1188/Buck Creek Lateral	Rochester	0%
B.18 Bannister Ditch #1189 Lateral #1	Eaton	0%
B.19 Dawley Ditch #1190	Eaton	0%
B.20 Lindsley Ditch Phase 1	Penfield	0%
B.21 Lindsley Ditch Phase 2	Wellington	0%
B.22 Martins-Run Lateral Ditch #1194	Elyria	0%
B.23 Fowl Ditch #1195	Elyria	0%
B.24 Alexander Ditch Branch #1, Lateral #3	Grafton Village	5%
B.25 Hill-Spaulding Ditch #1192	Eaton	0%
B.26 Haag Ditch #1191	City of Elyria	5%
B.27 Dellefield Ditch #1179 – Lateral #3	Elyria	0%
B.28 Schroeder Ditch	Carlisle, NewRussia	0%
B.29 a.) Straw-Haag Ditch	Carlisle, New Russia, Amherst	0%
b.) Straw-Haag Ditch	City of Elyria	5%

C. Other Improvements maintained by Storm Water Management District (but not assessed)

<u>NAME</u>	<u>TOWNSHIP</u>	<u>N/A</u>
C.1 Curtice Ditch Phases 1, 2, and 3	Penfield	-
C.2 Bevin's Ditch/Hidden Valley	Amherst	-
C.3 Carlisle Ave. Outlet Ditch (northeast)	Carlisle	-
C.4 Meadow Creek Outlet	Carlisle	-
C.5 Forsythia Ditch Crossover	Columbia	-
C.6 Guthrie Ditch Phases 1, 2	Pittsfield	-
C.7 Bannister Ditch Ph.1,2 & Crocker Rd. Lat.	Eaton	-
C.8 Hales-Harrington Ditch - Phase 2	Eaton	-
C.9 Joyce Drive / Root Road Ditch	Columbia	-
C.10 Engle Ditch Phases 1, 2 and 3	Amherst	-
C.11 Baird-Betts Ditch Phases 1, 2 and 3	Camden	-

D. Subdivision DETENTION BASINS permanently maintained by County Engineer

<u>NAME</u>	<u>TOWNSHIP</u>	<u>RATE</u>
D.1 Law Road Subdivision Detention Basin	Grafton	3%
D.2 Mantle Rock Subdivision Detention Basin	Brownhelm	2%
D.3 Eaton Commerce Parkway Subdivision Detention Basin	Eaton	0%
D.4 Carlisle Farms & Ravines Edge #1 Subdivision Detention Basin	Carlisle	5%
D.5 Ravine's Edge #2 Detention Basin	Carlisle	5%
D.6 Crocker Landings Subdivision Detention Basin	Columbia	5%
D.7 Rolling Brook Subdivision Detention Basin	Columbia	0%
D.8 Hidden Oaks Subdivision	Columbia	3%
D.9 Cobblestone No. 1 and 2	Columbia	5%
D.10 Finnegan Farms (North and South)	New Russia	5%
D.11 Meadow Ridge	Columbia	4%
D.12 Heritage Ridge Estates Subdivision	Brownhelm	1%
D.13 Hope Court Subdivision Nos. 1 & 2	Carlisle	5%
D.14 Deer Creek Estates Subdivision	Brownhelm	3%
D.15 Highland Country Estates	Grafton	0%
D.16 Willow Creek #2	Eaton	1%
D.17 Willow Creek #3	Eaton	0%
D.18 Creekside Subdivision	LaGrange	5%
D.19 Carrington Pointe Estates Sub No. 1	Carlisle	5%
D.20 Lost Elms Subdivision	Carlisle	4%
D.21 Eagle Pointe Subdivision	Columbia	5%
D.22 Stone Ridge Estates Subdivision	Columbia	5%
D.23 Songbird Subdivision No. 1	LaGrange	4%
D.24 Greystone Pointe Subdivision	Brownhelm	0%

Assessments for Detention Basin maintenance remain in effect for most of the parcels within the subdivisions; although many account balances are adequate at this time, thus require no current rate. Additionally, the assessments of three subdivision parcels were revised to zero in exchange for maintenance (detention basin mowing) by their owners: 11-00-002-000-069, 12-00-070-000-028, and 12-00-070-000-038, as indicated by the attached spreadsheets.

Ken Carney, P.E., P.S.
Lorain County Engineer
KC/PZ



Attachments: summaries & spreadsheets

cc: Ron Bell, Lorain County Engineer-CADD Supv. rbell@loraincounty.us
Jean Kohls, Admin. Assistant of business operations jkohls@loraincounty.us
Rick Dominico, Lorain County Highway Garage Supt. rdominico@loraincounty.us
File

2023 Ditch Inspections	Ditch # Per LC Engineer	DATE	Inspector	2023 RATING	2022 RATING	Type of Attention	Easement noted	other	Invasives	Photos
Alexander ditch branch 3 lateral1		4/19/2023	Ickes	3	4	In the area between Dornyhock and Limerick it needs some attention	yes		Phrag	
Allison		4/13/2023	Ickes	3.5	3	Only maintained on the east side of 301. Needs some attention.	no			
Baird/Betts Phases 1-3		4/11/2023	Ickes	3	4	box culvert immediately north of Betts needs dipped, lots of sediment/ from Phase 1 Baird to half way to Betts on Phase 2 the water is not flowing...believe the issue of north of Phase 1	yes			X
Bannister Lateral #1		4/14/2023	Ickes	2	4	Very shallow swale. Not sure there is much that can be accomplished to correct lack of flow. It appears to be an issue with a very high ground water table. There may be quite a log jam at the western end beyond the project area.	no		Phrag is various areas through out east side of ditch	X
Bannister Phase 1 & 2		4/14/2023	Ickes	5	3	Excellent condition, property owners maintain their portions of the ditch with pride. No mowing required.	no easement on Phase 1			
Battenhouse		4/10/2023	Ickes	5	5	our side Good except very slow flow...issue probably north of railroad	yes			
Battenhouse Lateral #2		4/5/2023	Ickes	5	5	Looks great. Nice channel	yes			
Bevins			Zwick	4	3	Not mowed, not maintained was told this is not maintained by garage crew due to new subdivision	no			
Brownhelm		4/11/2023	Ickes	2	3	needs dipped	no		Phrag second property from south	
Brunson		4/19/2023	Ickes	4	4	the whole ditch was not dipped in 2022, just the area immediately west of Island Rd.	no			
Burge		4/12/2023	Ickes	5	4	Nagel did a great job	no			
Carlisle storm sewer		11/48	Zwick	4	5		no			
Carlisle Ave Outlet		11/22	Zwick	1	2		no			
Carpenter lateral 7		4/19/2023	Ickes	5	5	Looks good	yes			
Cole		4/13/2023	Ickes	2.5	4	The ditch is not in bad condition in and of itself but there is no flow. My personal opinion is that issue is at or very near the intersection of West Road and St Rt 303.	no			
Crocker		4/14/2023	Ickes	5	5	Excellent	yes			



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Lynn Ickes
Director & Maintenance
Manager

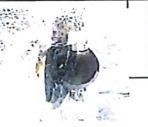
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Storm Water Management District
226 Middle Ave
5th Floor
Elyria, OH 44035

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Jurice Phase 1		4/13/2023	lickes	1	3	Access to this phase of Curtice Ditch is virtually impossible north of Webster Road. There are homes and buildings in the way and the area is over grown with wood. In many cases the ditch seems to disappear. South of Webster to the beginning of Phase 2 it is not awftul.	no	Cleared culvert at Hunt Club			
Jurice Phase 2 including "lateral" area		4/13/2023	lickes	3	5	Log jam right at Phase 1 and 2 conjunction, there is a tree across between parcels 1906116000019 & 071906116000009. Most property owners mantaining their own portion of the ditch. Will try to find a way clean culvert at Whitehead.	no		Phrag at south end	X	
Zawley	1190	4/14/2023	lickes	3	4	no water movement, ditch itself not horrible but there appears to be a huge log jam just beyond the project area	no			X	
Jellefield	1179	4/10/2023	lickes	3	4	will need attention sooner rather than later	no				
Jellefield lateral 3	1179	4/10/2023	N/A	4		no access, not mowed, not maintained	no				
Zewherst	1153		Zwick	5	5	Beaver Dam in large poorly maintained culvert just north of lateral 3. Area West of Gore was dipped recently however it appears the banks were undercut and there is much slumping.	no	Cleaned out Beaver Dam 4/13/2023		X	
Draper Main for laterals see below											
Huron Lateral 2		4/12/2023	lickes	1	n/a	no maintenance at all south of Betts	no				
Huron Lateral 3		4/12/2023	lickes	4	n/a	questional access	no				
						steep bank, not able to mow because of fencing and steepness. large willow in channel where it meets Draper			Phrag in bottom of ditch		
Huron Lateral 1		4/12/2023	lickes	4	n/a	Main	no				
Lorain lateral 5		4/12/2023	lickes	?	n/a	road ditch	no				
Lorain lateral 3		4/12/2023	lickes	?	n/a	licked	no				
Lorain lateral 2		4/12/2023	lickes	4	n/a	not bad	no				
Lorain lateral 1		4/12/2023	lickes	3	n/a	area west of wooded are is very shallow almost indfined in areas, the wooded area to the east is impassible. See photo	no			X	
Lorain lateral 4		4/12/2023	lickes	4 South 3 North	n/a	not bad south, north of Betts banks slumping on north south part of channel at Betts	no				
Lorain lateral 1 south		4/12/2023	lickes	4-Jan	n/a	not bad dipping will be required within the next couple of years	no				


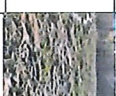




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Dudley		4/11/2023	lakes	2	3	needs dipped, address falling culvert, large log jam on far northwest end of project area	no		
ingle Phase 1, 2, 3		4/10/2023	lakes	5	4	looks great. Nice channel, some fallen trees that we were unable to navigate around	yes		
schtrubh Tile			Zwick	3	4	2023 jet cleaning	no		
orsythia Crossover			lakes	1	1	2023 investigation	no		
						Culvert needed cleaned, we did and helped a bit but water not flowing as it should.	no		X
orthofer		4/19/2023	lakes	3	4	Under sized culverts, needs dipped from at least access drive south. Also need to look at the lateral that enters fowl at the south end.	yes		
Fowl		4/10/2023	lakes	2.5	4	a little maintenance, tree across on the more northern end.	yes		
Freeland		4/10/2023	lakes	4	4	looks like a grass waterway	no		
Gessner		4/18/2023	lakes	5	5	Gilson is gross. Needs attention...believe there is a tile issue, new, looks good	no		X
Gilson		4/10/2023	lakes	3	4	Cattail from 20 north through first three properties is hindering flow, many areas of sedimentation and an instream crossing that is impeding flow.	no		X
Gore Onchange (Mudrock)		4/13/2023	lakes	5	5		yes		
Grafton Road Drain Outfall			Zwick	5			yes		
Groot Lewis		4/11/2023	lakes	1	4		no		X
Gurthrie Phases 1 & 2		4/13/2023	lakes	3	3	Beginning at 303 there is a log jam between the first to properties. There is sedimentation through much of the field and a log jam on the west side of 18 at the road culvert and a "dirt" jam on the east side. Through the fields on the East side of 58 there is sedimentation.	no		X
Guthrie Phase 3 Davis		4/13/2023	lakes	4	3	Looks good except the area on the north branch of the Y, overgrowth and perhaps a log jam.	no		
Haag with lateral #1	1191	4/10/2023	lakes	1	3	Engineers will investigate. Will clear area north of Telegraph. Then there is the issue it ahs a slugish flow regime. I believe this is one of those that seasonally may flow in both directions.	no	trash rack needs cleaned	
Hales Harrington Phase 2		4/19/2023	lakes	3	4	Will inspect again after construction	no		



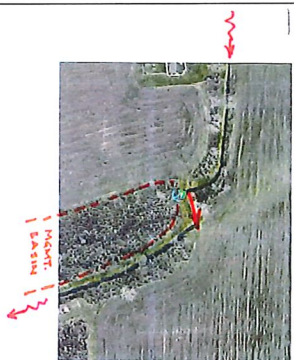
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atteman	1161	4/11/2023	lickes	1	3	Needs work, road appears to be sinking.	no			
Indsey Phase 1	1192	4/13/2023	lickes	3	3	very slow moving south of St Rt 18 perhaps due a problem at the ODOT box culvert on 18. There are is one potential log jam just north of 1904007000013 and a log jam at 194007000023	no			
Indsey Phase 2		4/13/2023	lickes	4	3	From West to Peck Wadsworth it doesn't look too bad.	no			
luther Lateral		45029	lickes	4.5	3	Nagel dipped in 2022. Looks good except where he left dirt piles which will make it difficult to mow for the next several seasons.	yes			
Mapleview		4/11/2023	lickes	4	5	flowing well	yes			
Martins Run lateral		4/11/2023	lickes	5	4	flowing well,	no		Phrag at south end	
Mauer	1154A	4/13/2023	lickes	3	3	Mauer Lateral from Austin Road to to the intersection of the Mauer ditch it doesn't appear that there has been maintenance for many years. It needs established. There is a field crossing that may be causing problems too. Mauer main channel has some sedimentation but nothing like the lateral.	no			X 
McConnell	1181	4/14/2023	lickes	4	4	The ditch looks to be well maintained and mowed regularly.	no			
Meadow Creek Outlet		4/14/2023	lickes	1	1	Need to get the cattails out and find the "path" to Keiner.	yes			
Miller	1182	4/13/2023	lickes	3.5	3	It is in okay condition for the time being. There is a tree down just pas the culvert near the first group of trees. It will need dipped in the not distant future, especially if the Wackers continue to dump fill near the ditch.	no			
More Relief	1136		Zwick	N/A		Lorain county will attempt to gain access so maintenance can be resumed.	no			Inspections were occurring at the wrong location X 
Neal Baus	1154		NA	?	2	was instructed if not mowed not maintained no inspection but it was given a 2 with "needs established" in 2022	no			
Porter Title			Zwick	2	1	Not maintained no access	no			
Quarry Rd. Lateral #1		45027	lickes	5	5	Looks good.	yes			
Rooh Tile Lateral #1	1139		Zwick	3	5		yes			

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chroeder		4/10/2023	lakes	3	3	Some areas need some attention, dipping. Very wet area far northwest area unable to inspect. Issues with access on private property on lateral #2	no				
mith	1162	4/19/2023	lakes	3	3	Very slow following, given the vegetation that appears in the ditch I believe this is a high water table issue. South of the RR tracks it is flowing well	no				
hang (Bivins)		4/10/2023	lakes	4	5	Little flow, believe it is the Phrag at the turnpike	yes				
Straw Haag		4/10/2023	lakes	2.5	3	The issue with Straw -Haag is simply a big question mark. It is my hypothesis that it was once connect to Haag. City of Elyria parcel number 062400304090. Rocks in Culvert impeding flow, trees down. Peter Zwick Explanation: The short explanation is that the pipe shown in light blue color is part of the storm water management basin located near Straw-Haag Ditch. That pipe is located at the inlet to the basin (it may also serve as the outlet if intended to flow in reverse after storms). However, it is not our concern because the basin is not on County maintenance— it may be a private storm water control measure under the City of Elyria Jurisdiction.	no	Need to remove good sized metal shed.	Phrag and Poison Hemlock in some areas. The small pipe that joins the west and east side of Straw Haag is virtually always underwater. Perhaps we should consider day/lighting.	X	
Ward	1187	4/11/2023	lakes	5	4	excellent condition overall/ one wayward culvert needs removed just north of bike path	no				
Wellington Creek		4/17/2023	lakes	4	4	A few trees down, the east branch does not appear to have been mowed for a number of years. The west branch doesn't look as if it has been mowed up to the Stewart road. Advised Engineers of corrected limits and Townships maintenance.	no				X
Zurcher	1185	4/11/2023	lakes	1 south 3 north	3	Property immediately to the west on the south side of the ditch has allowed or they pushed multiple trees and brush into the ditch. A few other logs across the ditch further south as well. Some dipping will be required to the north within the next couple of years.	no				X



D.

DRAINAGE IMPROVEMENTS SUMMARY

2023

DETENTION BASINS

1. Law Rd Subdivision Detention Basin
 - Located on Law Rd. East of Chamberlain Rd. Excellent condition. No work needed.
2. Mantle Rock Subdivision Detention Basin
 - Located on Portman Rd. Good condition. Spillway needs to be cleaned.
3. Eaton Commerce Parkway Subdivision Detention Basin
 - Located on SR 82. Excellent condition. No work needed.
4. Carlisle Farms/ Ravine's Edge 1 & 2 Subdivision Detention Basin
 - Located Slife Rd and Mills Circle and SR 301. Excellent condition. No work needed.
5. Crocker Landings Detention
 - Located on Station Rd., south of SR 82. Good Condition. A few trees need to be removed.
6. Rolling Brook Subdivision Detention Basin
 - Located Crocker Rd, east of Station Rd. Good condition. Needs dipped.
7. Hidden Oaks Subdivision Detention Basin
 - Located Station Rd, south of Crocker Rd. Excellent condition. No work needed.
8. Cobblestone 1 & 2 Subdivision Detention Basin
 - Located Sprague and Jaquay. Excellent condition. No work needed.
9. Finnegan Farms Detention (North, South & Outlet channel to SR 511)
 - Located Quarry Rd & SR 511. Good condition. North and South spillways need to be dipped.
10. Meadow Ridge Detention Basin
 - Located Columbia West River Rd. Excellent condition. No work needed.
11. Heritage Ridge Detention Basin
 - Located Rice Rd, west of Quarry Rd. Excellent condition. No work needed.
12. Hope Court Subdivision 1 & 2
 - Located Hope Court and Kelser Court. Excellent condition. No work needed.
13. Deer Creek Estates
 - Located on Middle Ridge Rd. Excellent condition. No work needed.
14. Highland Estates Basin

- Located on SR 57, south of Grafton. Good condition. Needs to be spot dipped.
- 15. Willow Creek Detention #2 & #3
 - Located Cowley Rd. Excellent condition. No work needed.
- 16. Creekside Subdivision
 - Located Whitehead Rd. Excellent condition. No work needed.
- 17. Carrington Pointe Estates Subdivision
 - Located on Banks Rd., east of SR 301. Good condition. Tile inlet needs to be dipped.
- 18. Lost Elms Subdivision
 - Located on Hastings Rd. Excellent condition. No work needed.
- 19. Eagle Pointe Basin
 - Located Columbia East River Rd., south of Snell Rd. Excellent condition. No work needed.
- 20. Stone Ridge Estates
 - Located Station Rd, south of Sprague Rd. Excellent condition. No work needed.
- 21. Song Bird Subdivision
 - Located at Biggs Rd and Whitehead Rd. Excellent condition. Maintained by property owner
- 22. Greystone Pointe Detention
 - Located off Middle Ridge Rd west of Baumhart Rd. Excellent condition. No work needed.