

ROLE OF ONTARIO COUNTY GOVERNMENT IN WATER QUALITY

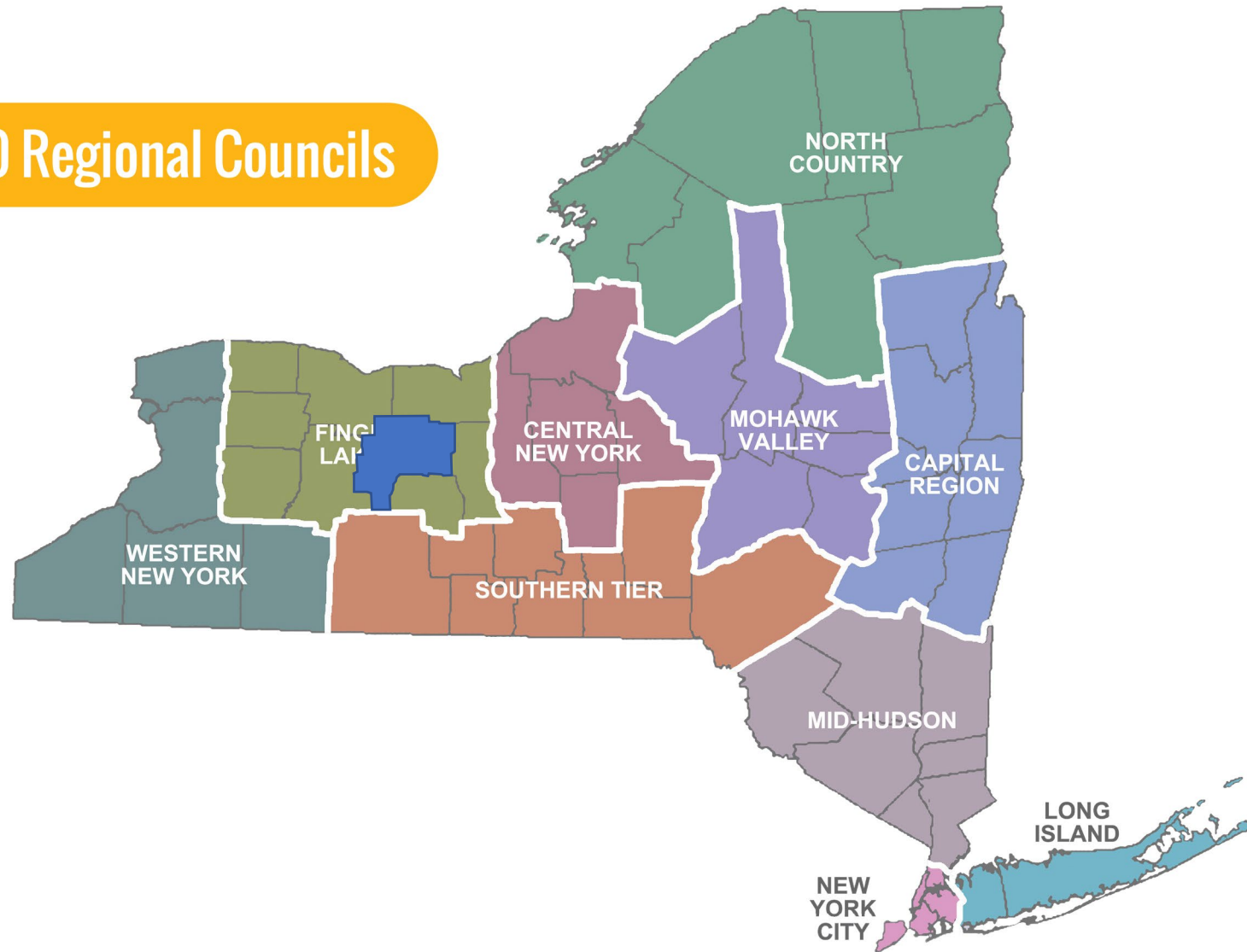
Thomas P. Harvey^{AICP}

Director

Ontario County Planning Department

October 26, 2024

10 Regional Councils



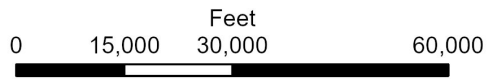
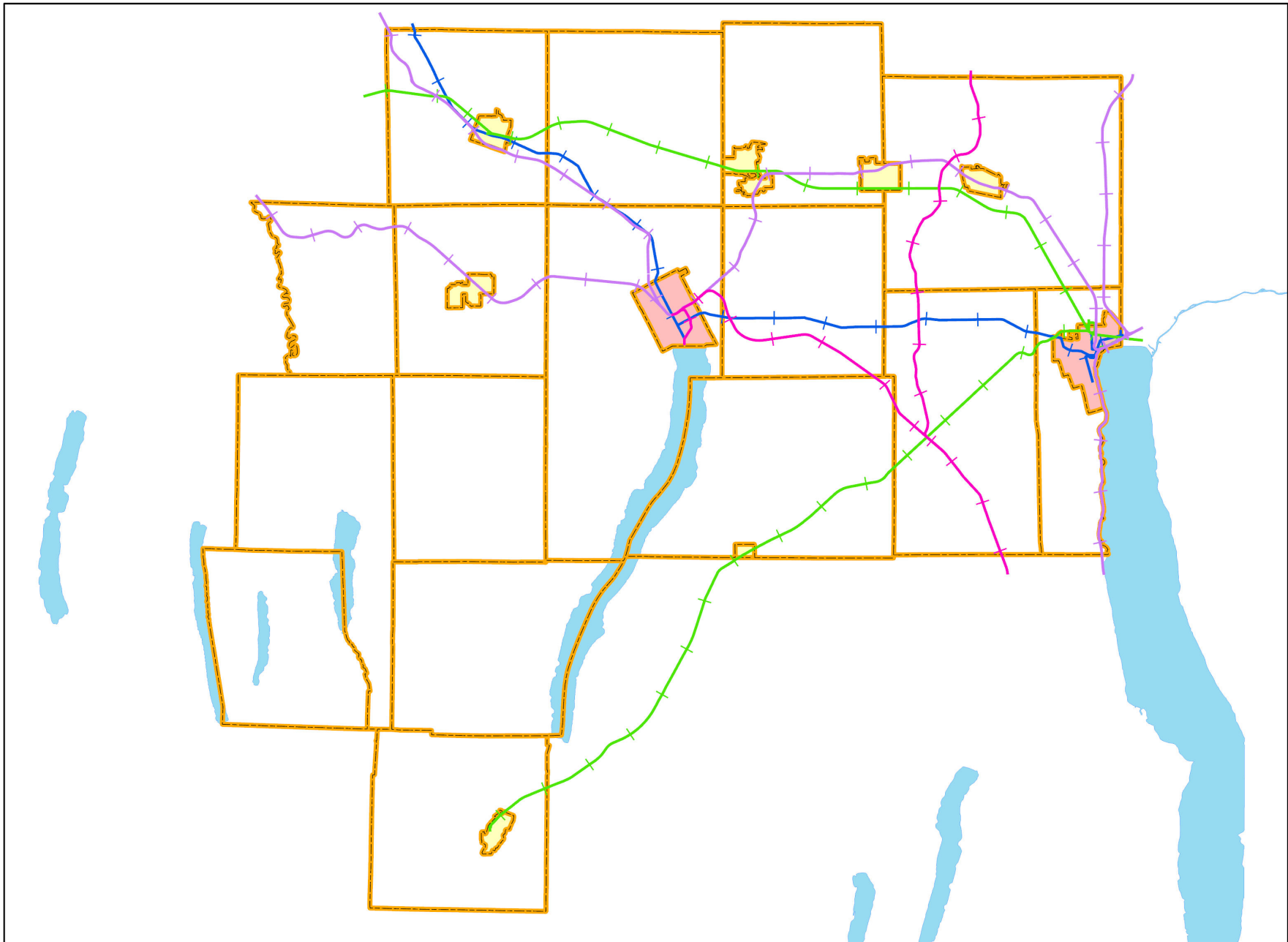


WHY IS ONTARIO
COUNTY GOVERNMENT
INVOLVED IN WATER
QUALITY?



Long History of Tourism





Railroads 1904-1980

- +— Electric Light Rail
- +— Lehigh Valley
- +— New York Central
- +— Pennsylvania
- Finger Lakes

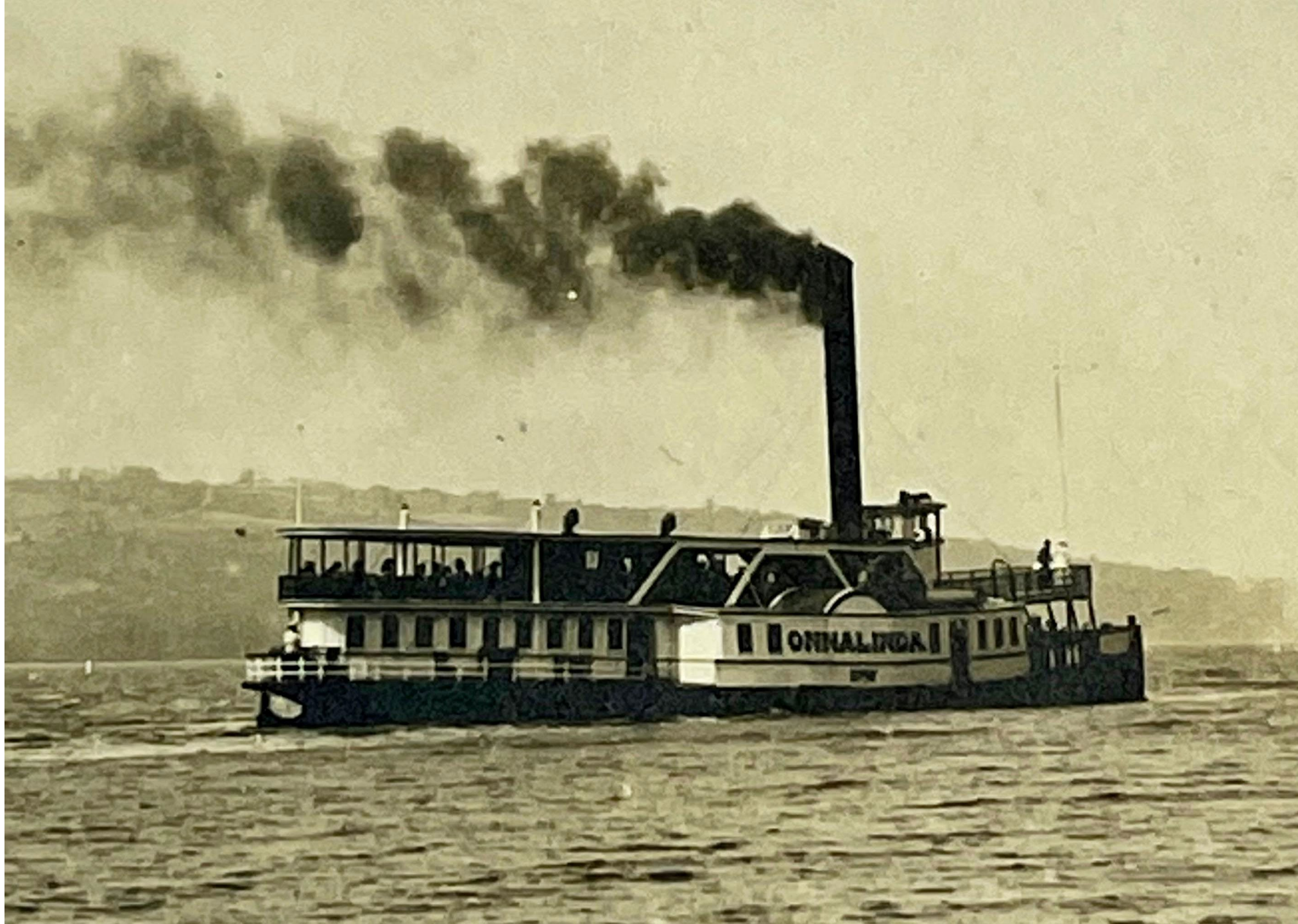




PHOTOGRAPHED BY
HENRY HOYCE
CHICAGO, ILL. U.S.A.



Canandaigua City Pier





What Does Tourism Mean to Ontario County?

In 2023, Visitor Spending at Local Businesses Totaled:

\$341,000,000!

\$98M was spent on Lodging / Accommodations

\$16M was spent on Recreation / Entertainment

\$138M was spent on Food & Beverage

\$44M was spent on Retail Goods and Services

\$20M was spent on Local Transportation

\$23M was spent on Vacation Property / Second Homes

Visitor spending enhances our Standard of Living in Ontario County, generating:

\$21M in COUNTY TAX REVENUE, reducing the tax burden on residents

\$157M LOCAL EMPLOYMENT INCOME supported by visitor spending

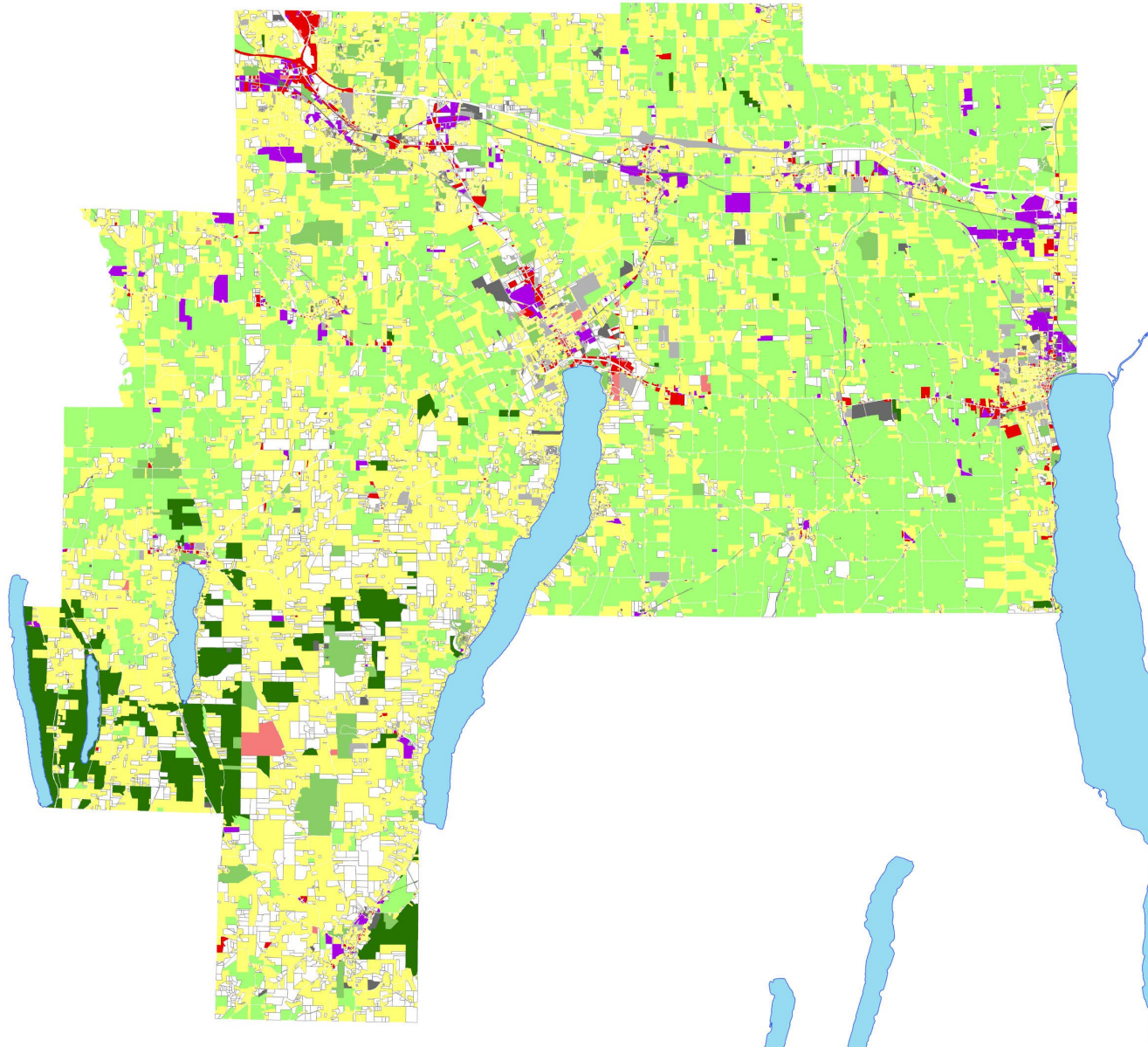
Source: Empire State Development, I LOVE NEW YORK & Tourism Economics

Land Uses from Real Property Tax Roll 2024

Legend

LAND USE

-  Agriculture
-  Residential
-  Vacant
-  Commercial
-  Indoor Entertainment/
Rec
-  Outdoor Recreation,
open spaces, Parks
-  Community Service
-  Industrial, Warehouse
-  Utilities & Infrastructure
-  Forest, Wild &
Conservation Land



0 15,000 30,000 60,000
Feet



Ontario County government is a Board of Supervisors





PLANNING & ZONING TRAINING: SITE PLAN/SUBDIVISION

NYS General Municipal Law §239

COUNTY PLANNING BOARD

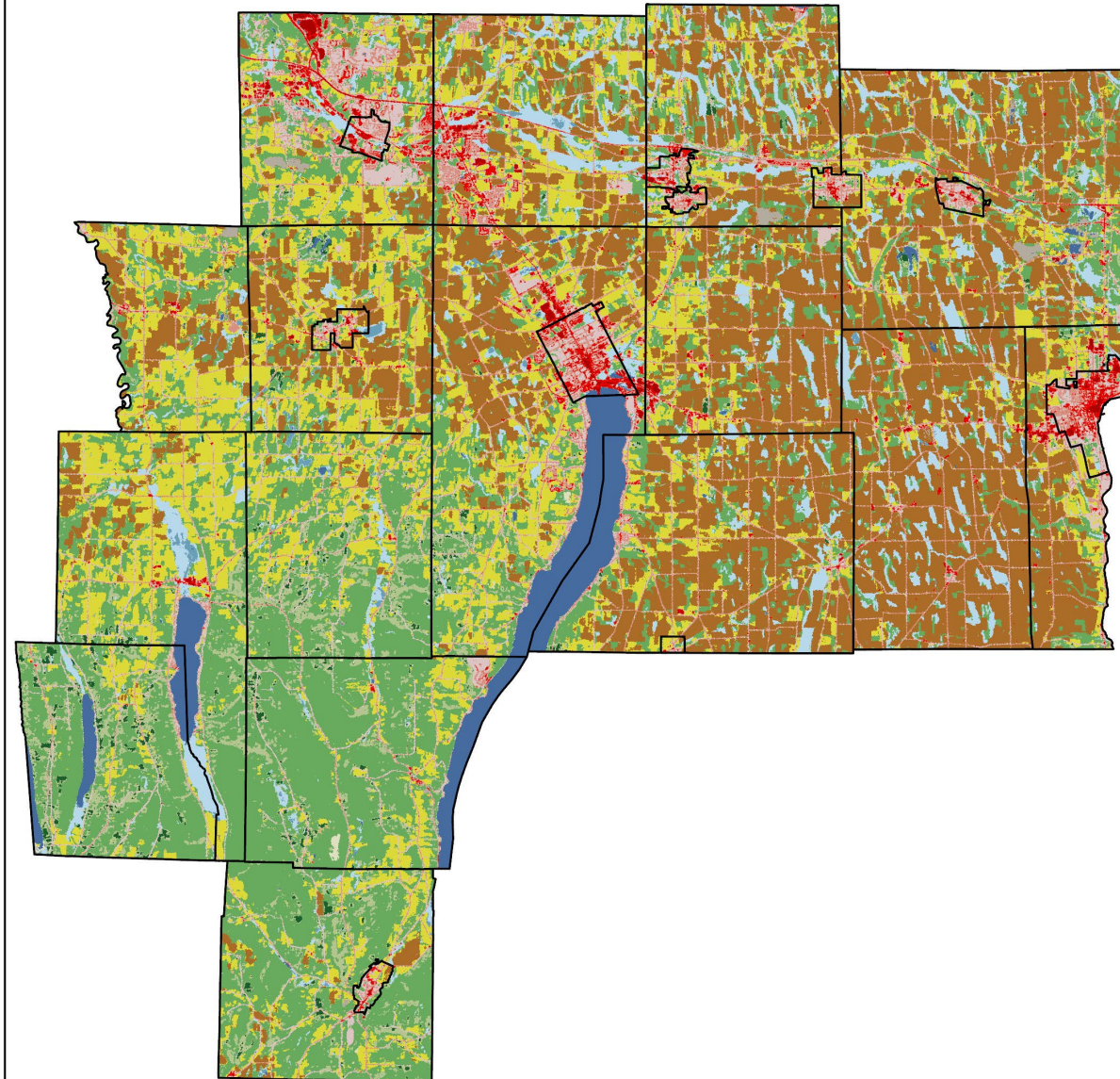
- RECOMMENDATION ON PLANNING & ZONING APPLICATIONS WITHIN 500 FT. OF MUNICIPAL BOUNDARY, COUNTY ROAD, RECREATION AREA, ETC.
- CONSIDER:
 - INTERMUNICIPAL & REGIONAL IMPACTS
 - STORMWATER MANAGEMENT
 - TRAFFIC IMPACTS
- COORDINATED REVIEW COMMITTEE INCLUDES
 - SOIL & WATER CONSERVATION DISTRICT
 - COUNTY HIGHWAY/COUNTY SEWER DISTRICTS
 - OTHER EXPERTS AS COUNTY PLANNING DEEMS APPROPRIATE, SUCH AS
 - CANANDAIGUA WATERSHED COUNCIL
 - DEC

COUNTY DATA CONTRIBUTIONS

IMPORTANT IN CONDUCTING 9 ELEMENT PLANS,
DEVELOPING WATERSHED MODELS, MUNICIPAL
COMPREHENSIVE PLANS, ZONING MAPS (ESPECIALLY
NATURAL RESOURCE PROTECTION ZONES)

- GIS SYSTEM (IN-HOUSE AND ONCOR PUBLIC PORTAL)
- LIDAR (ELEVATION) DATA
- UPDATED SOIL MAPS (NRCS, USDA SCS PARTNERSHIP)
- LAND USE/LANDCOVER DATA

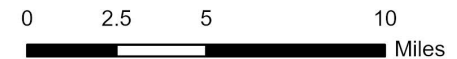
National Land Cover in Ontario County



NLCD Land Cover Classification Legend

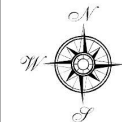
- 11 Open Water
- 12 Perennial Ice/ Snow
- 21 Developed, Open Space
- 22 Developed, Low Intensity
- 23 Developed, Medium Intensity
- 24 Developed, High Intensity
- 31 Barren Land (Rock/Sand/Clay)
- 41 Deciduous Forest
- 42 Evergreen Forest
- 43 Mixed Forest
- 51 Dwarf Scrub*
- 52 Shrub/Scrub
- 71 Grassland/Herbaceous
- 72 Sedge/Herbaceous*
- 73 Lichens*
- 74 Moss*
- 81 Pasture/Hay
- 82 Cultivated Crops
- 90 Woody Wetlands
- 95 Emergent Herbaceous Wetlands

* Alaska only



Notes

1. Land Cover data from 2023 by the USGS National Land Cover Dataset
2. Map Prepared by the Ontario County GIS Program in October 2024



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Coordinating role

ONTARIO COUNTY WATER RESOURCES COUNCIL: An independent agency formed under County Law 220-a as a Water Quality Management Agency

Bring together:

- Local agencies (Planning, SWCD, DPW, CPB, G/FRPC)
- Water quality experts (limnologists, DEC Regional Water Staff, FLI, Cdga Watershed Council)
- Lake Associations (Honeoye Lake Watershed Task Force, HVA, Cdga Pure Waters, SWIO)

Communication with BOS

Provide local funding:

- Historically \$16K/yr, increased to \$76K this year, \$116K in 2025

Ontario County WRC

- Formed by Ontario County BOS Resolution 426-1992
- Meets Bi-Monthly
- Forum for Info Sharing (Education)
- Encourages Cooperative and Complementary Action
- Focused on consensus-based priorities

NO.	PROJECT NAME	AGENCY	AWARD
1-2018	Aquatic invasive species program - Yr 2 - Canandaigua Lake	CLWA	\$2,000
2-2018	4-H Camp Bristol Hills storm water management project	CCE	\$2,000
3-2018	Collect population data for zebra and quagga mussels - Honeoye Lake	HLWTF	\$1,600
4-2018	Analyzing water quality impacts from sediment disturbances and macrophyte cutting - building the data set Yr. 2	Planning/HLWTF	\$2,000
5-2018	Putting soils to work: A workshop on soil health and nutrient management	SWCD	\$1,200
6-2018	Canandaigua Lake watershed inspection program support - Upgrade of OWSIT system	SWCD	\$750
7-2018	Sucker Brook stormwater management project @ County Rd. 30	CLWC	\$1,000
8-2018	Purchase and use GPS unit for water quality projects	CLWC/Town of Canandaigua	\$1,000
9-2018	FLCC water quality, flood resiliency, and habitat enhancement project	CLWC	\$2,000
10-2018	Cottage City Dr. flood resiliency and water quality improvement project	CLWC	\$1,000
11-2018	HABs curriculum project: Regionally-focused HABs study for the high school classroom	FLI	\$2,000
			\$16,550

Examples of WRC Mini-Grant Projects

Project #	Title	Sponsor	Watershed	Award
IMP 1-24	Excavator Funding Assistance to Accelerate the Implementation of Canandaigua Lake Watershed Resiliency Projects	CLWC	Canandaigua Lake	\$15,000
IMP 2-24	Building Flood Resiliency for Village of Naples Water Treatment Plant and Protecting Water Quality in Reservoir Creek and Canandaigua Lake	CLWC	Canandaigua Lake	\$15,000
IMP 3-24	Wilson Creek Erosion Control Project	SWCD	Seneca Lake	\$15,000
IMP 4-24	Flint Creek Erosion Control Project	SWCD	Flint Creek	\$15,000

PLANNING DEPARTMENT ROLE IN COUNTY PROJECTS

1. Lead agency for
 - A. All SEQR and NEPA compliance
 - B. Representative to FL-LOWPA
 - C. County Capital Project Management (everything not involving County Roads & Bridges, through construction bid award) including Finger Lakes Community College
 - 1) Policy: No net increase in rate or total runoff after development from the pre-development condition
2. County Projects
 - A. Honeoye Lake Aquatic Harvesting (FL-LOWPA and the municipalities of Canadice & Richmond)

A. Aquatic Harvesting Program: Honeoye Lake

- Participate in Honeoye Lake Watershed Task Force
- Participate in Development of the Honeoye Lake Watershed Management Plan
- Harvesting a recommended practice because of the unique geomorphology and limnology of Honeoye Lake







PLANNING DEPARTMENT ROLE IN COUNTY PROJECTS

2. County Projects

A. Aquatic Harvesting Program: Honeoye Lake

B. Black Brook Watershed Hydrologic Study:

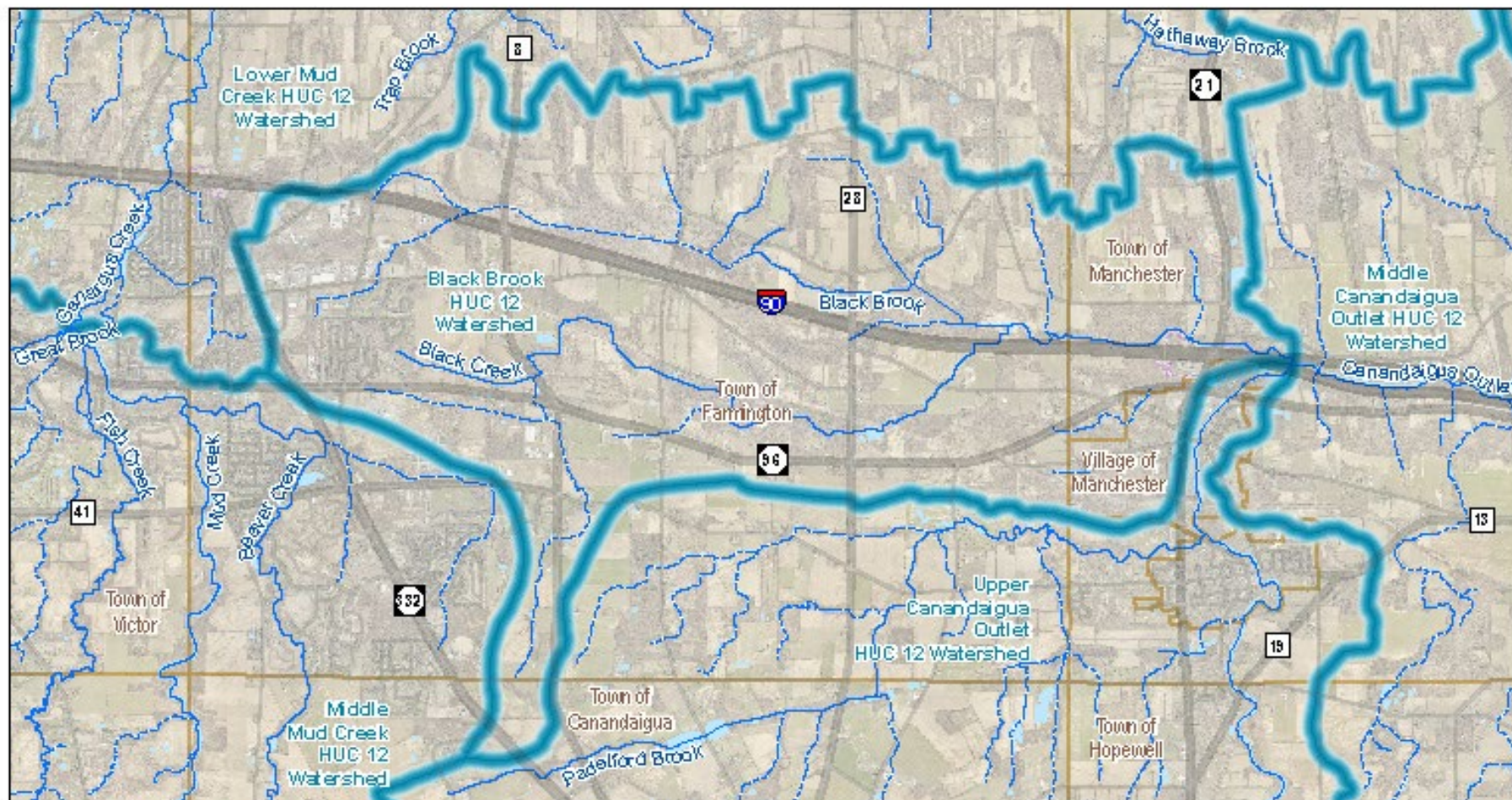
1) Awarded a WQIP Planning Grant in 2023 for \$75K

2) Contributions from the County, Towns of Victor, Canandaigua, Farmington, and Manchester

3) Concern is the cumulative impact of development on

a. Farmland

b. Downstream developed areas (Village and Town of Manchester) and social justice areas therein



Black Brook - Black Creek Drainage Study Watershed Vicinity

Scale: 1:65,000

Map prepared in July 2023 by
the Ontario County GIS Program



- Tributaries
- Named Creeks and Streams
- Water Bodies
- USDA HUC12 Watersheds
- Municipal Boundaries

DATA SOURCES:
 Aerial Photos (EagleView, 2021)
 HUC12 Watersheds (USGS, 2022)
 Municipal Boundaries (Ontario County, 2023)
 Streams and Creeks (USGS, 2022)



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PLANNING DEPARTMENT ROLE IN COUNTY PROJECTS

2. County Projects

A. Aquatic Harvesting Program: Honeoye Lake

B. Black Brook Watershed Hydrologic Study

C. All Hazard Mitigation Plan

A. FEMA and DHSES require update every 5 years

B. Flooding #1 issue



ONTARIO COUNTY

**WHAT SHOULD BE
DONE ABOUT
GENEVA FLOODING?**









FLCC, 2023



City of Canandaigua 2023



City of Canandaigua 2023

PLANNING DEPARTMENT ROLE IN COUNTY PROJECTS

2. County Projects

A. Aquatic Harvesting Program: Honeoye Lake

B. Black Brook Watershed Hydrologic Study

C. All Hazard Mitigation Plan

D. Parking Lot G/CL-13 Wetland Project

1) 2005 Prompted by downstream neighbors

2) Comprehensive hydrologic study of small watershed

3) Locals would not acknowledge their role in restricting flow out of wetland

4) County addressed its contribution through a WQIP funded grant, a \$469K project

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7-209 SUBSECTION 2 OF THE NEW YORK STATE EDUCATION LAW.



PROJECT CHARGES PROJECT CHARGES DRAWN BY: R. TROTT CHECKED BY: L. CALDERINO SCALE: 1" = 200' DATE: SEP 16, 2009 PROJECT NUMBER: 42-3-5563 DRAWN BY: R. TROTT CHECKED BY: L. CALDERINO SCALE: 1" = 200' DATE: SEP 16, 2009 PROJECT NUMBER: 42-3-5563	REVISIONS NO. _____ DATE _____	
	NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7-209 SUBSECTION 2 OF THE NEW YORK STATE EDUCATION LAW.	
	PROJECT INFORMATION PROJECT: FINGER LAKES COMMUNITY COLLEGE DRAINAGE STUDY TOWN OF CANANDAIGUA, COUNTY OF CANANDAIGUA, STATE OF NEW YORK TITLE: CL-18 WATERSHED PLAN	
PROJECT NO.: 42-3-5563		

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 Drawn By: R. TROTT

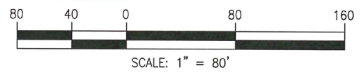
SHEET NO. **1 OF 1** DRAWING NO. **G 101**



LEGEND

- PARKING LOT IMPACT AREA**
- PARKING SPACES TO BE REMOVED**
- PROPOSED**

**TOTAL
PARKING SPACES
TO BE REMOVED
97**



NO ALIENATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 205B, ARTICLE VIII, CONSTITUTION OF THE STATE OF ALABAMA AND THE ALABAMA STATE EDUCATION LAW.		BY DATE	
		REVISED	
		NO.	
PROJECT NUMBER			
DATE PRINTED			
PROJECT ANALYST	S.C.V.	DRAWN BY	A.J.M.
CHECKED BY	S.B.S.	SCALE	1" = 80'
DATE		FEB. 2007	
FLOCC CAMPUS STORMWATER MANAGEMENT FACILITY <small>TOWN OF DAVENPORT, COUNTY OF DAVENPORT, STATE OF NEW YORK</small>			
PARKING LOT IMPACT AREA ALTERNATE 3			
PROJECT NO.		42-3-5863	

DATE PLOTTED: 10/20/07 10:00 AM. PLOTTED BY: J.M. BROWN. PLOTTER: HP DesignJet 1000. PLOT SCALE: 1" = 80'. PLOT ORIGIN: 0,0. PLOT WIDTH: 100.0. PLOT HEIGHT: 100.0. PLOT STATUS: SUCCESS. PLOT MESSAGE: PLOTTING SUCCESSFUL. PLOT FILE: 42-3-5863.dwg.

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SCALE: 1" = 80'

BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

SHEET NO. **3 OF 3** DRAWING NO. **EXHIBIT-3**

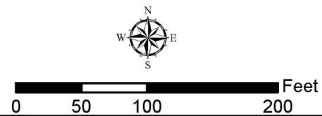
Legend
Survey Limits



Survey Limits

Sources: Aerial - NYSGIS Clearinghouse;

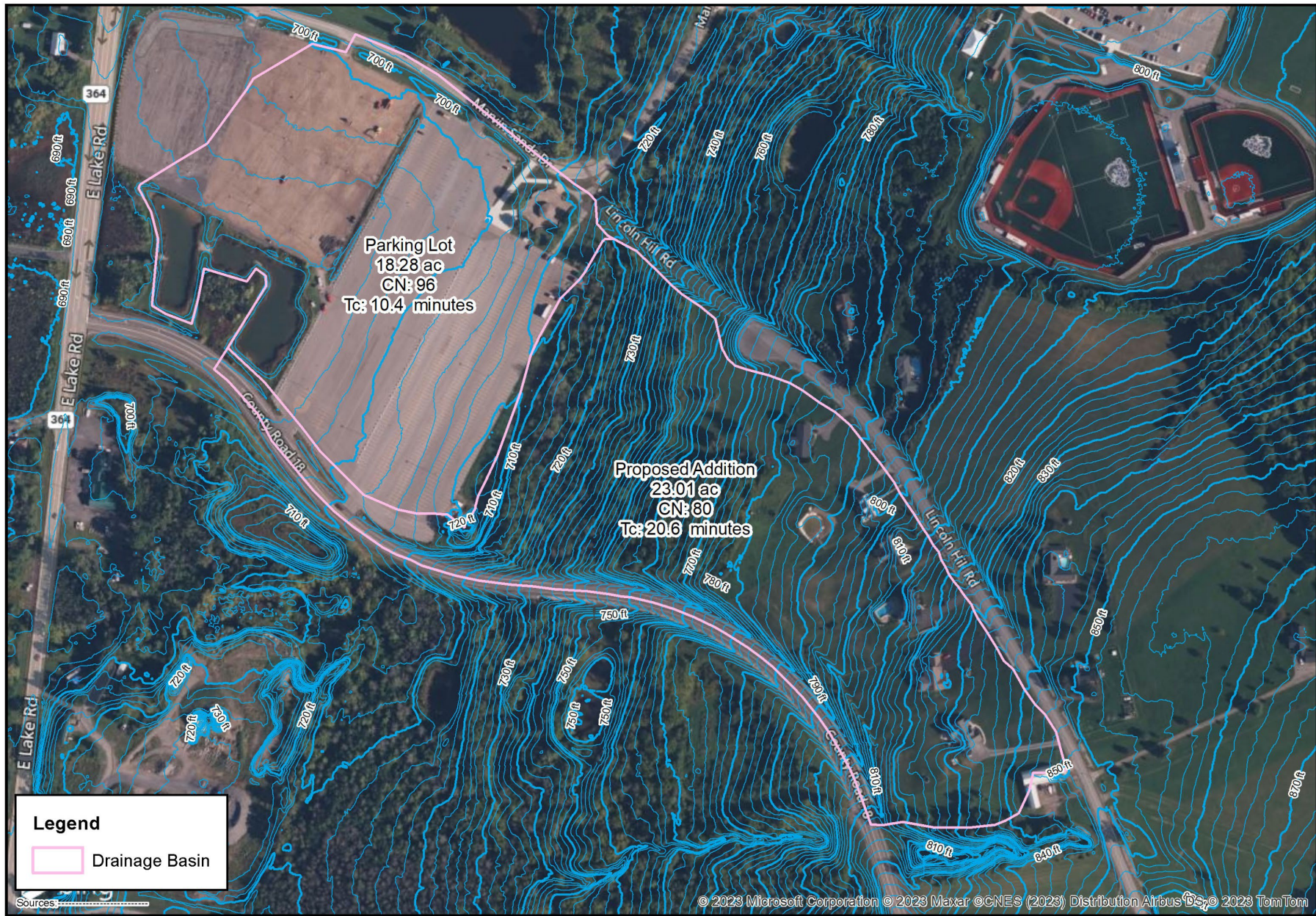
Barton & Loguidice



SUNY Finger Lakes Community College
Aerial Project Location Map
Ontario County 6/16/2023 New York

Figure
2
Project
No.
462.032

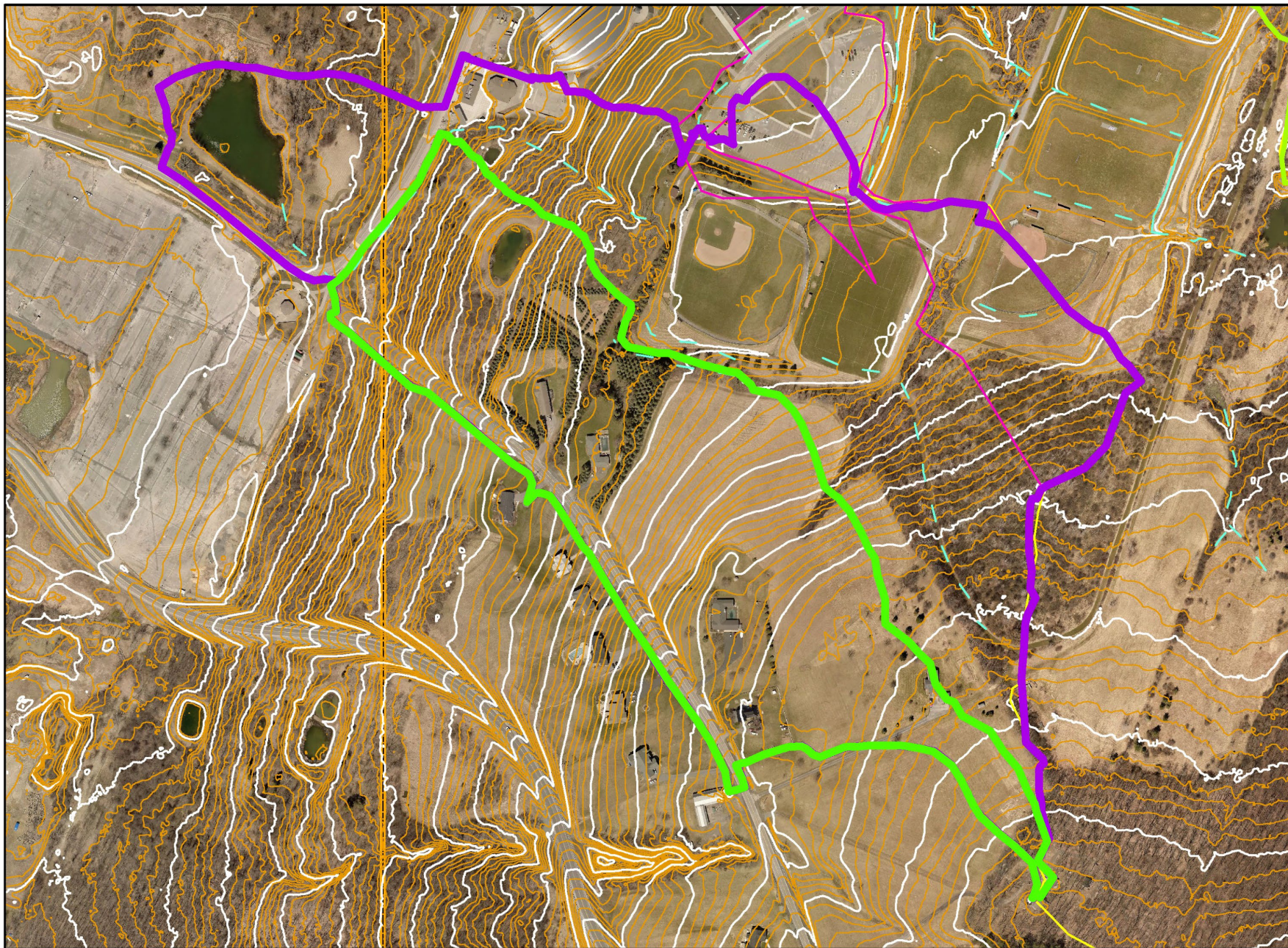






COOPERATIVE PROJECTS

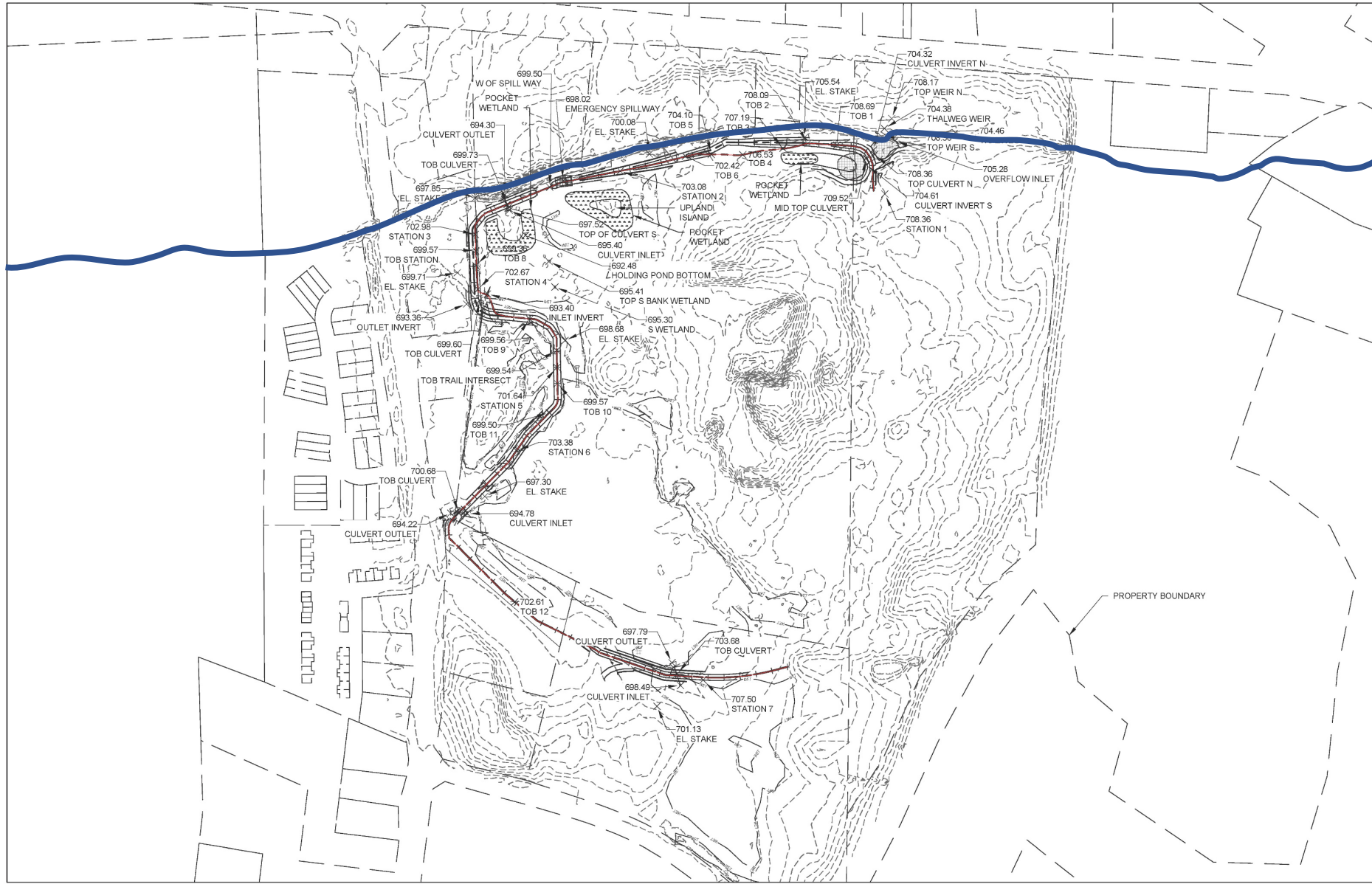
FALL BROOK AT FLCC

- Partners
 - FLCC
 - Ontario County
 - Canandaigua Lake Watershed Council
 - Towns of Canandaigua, Gorham, Naples, Hopewell, Middlesex!
 - WQIP funding through DEC: \$262,400
- Objectives
 - Water quality treatment by diverting high flows to settlement area
 - Reduce erosion in downstream golf course
 - Restore historic watershed drainage areas



-  Canoe Pond Watershed
-  Proposed to be added to Canoe Pond Watershed





AS-BUILT



Attention:			
NO.	DATE	ISSUE/REVISION	APP
1	12/15/2020	AS-BUILTS	
0	4/3/2020	FOR CONSTRUCTION	

FINALIZE

Designed:	SD
Checked:	DK
Drawn:	MS
Submitted By:	-
P.E. Number:	-



Ontario County
20 Ontario Street, 2nd Floor
Canadagua, NY 14424

GEI Project 1902466

FLCC Watershed
& Habitat Restoration Project
Ontario County, New York

AS-BUILT ELEVATIONS

DWG. NO.
C15

SHEET NO.
16 OF 16



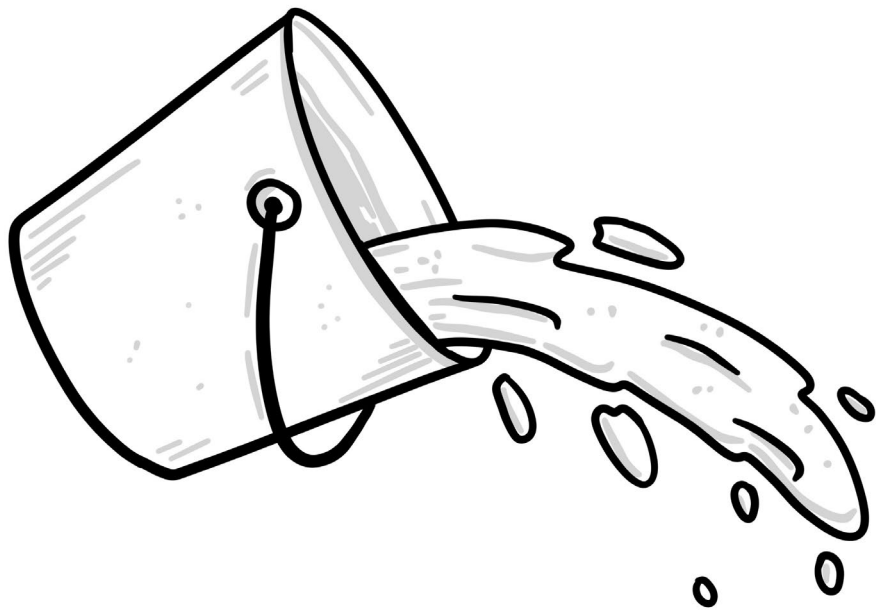
Diversion Channel in
use during high flow

Outflow into
settlement area





Enhanced
Wilderness
Walking
Trails on
FLCC Campus





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