



City of Aurora and Fox Metro Water Reclamation District CSO Public Notification Plan



**Walter E. Deuchler
Associates, Inc.**
CONSULTING ENGINEERS



May 31, 2016
Revision 0

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1.0 OVERVIEW

The Combined Sewer System (CSS) in the City of Aurora conveys wastewater and a portion of storm water flow to the Fox Metro Water Reclamation District (FMWRD) wastewater treatment plant (WWTP) for treatment. During certain rainfall events, storm water flow exceeds the containment capacity of the CSS resulting in the discharge of combined wastewater and storm water through several discharge points along the Fox River and Indian Creek. The discharge of this combined flow is permitted by the Illinois Environmental Protection Agency (IEPA) through National Pollution Discharge Elimination System (NPDES) permits issued to both the FMWRD (Permit No. IL0020818) and the City of Aurora (Permit No. IL0048518).

The IEPA assigned a Special Condition in the NPDES permit requiring that a Public Notification Program be developed employing a process that actively informs the affected public in accordance with Section II.B.8 of the federal Combined Sewer Overflow (CSO) Control Policy of 1994. Further guidance for developing a Public Notification Program is provided in the United States Environmental Protection Agency (USEPA) document, “*Combined Sewer Overflows, Guidance for Nine Minimum Controls*”. In response to the requirement, the City of Aurora and FMWRD have developed the following Public Notification Program.

2.0 COMBINED SEWER SYSTEM BACKGROUND

The CSS encompasses approximately 7,145 acres serviced by approximately 130 miles of combined sewers and is located entirely within the corporate limits of the City of Aurora. There are presently sixteen (16) permitted combined sewer overflow diversion structures in the City of Aurora's CSS and one (1) permitted combined sewer overflow diversion structure prior to the headworks of the FMWRD's wastewater treatment plant. The City of Aurora's CSS is served by the Original Combined Sewer Interceptor (OCSI) ranging in size from 36-inches to 69-inches in diameter, which transports all dry weather flows and a portion of the wet weather flows to the FMWRD's WWTP. All permitted combined sewer overflows discharge into the Fox River with one exception that discharges into Indian Creek, a tributary to the Fox River.

The FMWRD owns the combined sewer overflow diversion structure at the wastewater treatment plant, the OSCI, as well as all separated sanitary sewers with a diameter greater than fifteen inches (15"). The City of Aurora owns the remaining combined sewer overflow diversion structures, all sewers of the CSS, and all separated sanitary sewers less than fifteen inches (15") in diameter.

3.0 NOTIFICATION PROGRAM AND OBJECTIVES

The objective of public notification is to inform the public of the location of CSO outfalls, the actual occurrences of CSOs, the possible health and environmental effects of CSOs, and the recreational activities (e.g. swimming, fishing, etc.) curtailed as result of CSOs. The purpose for this plan is to provide a method to ensure that the general public is adequately informed of the presence and effects of combined sewer overflows.

3.1 Website Notifications

Both the City of Aurora and the FMWRD have made substantial information about CSO events available to the public by posting the data on their respective websites. The City of Aurora's website address is: https://www.aurora-il.org/engineering/discharge_monitoring.php

FMWRD's website address is: <http://www.foxmetro.dst.il.us/cso/>

In general, the websites include the following information:

- General information about CSOs.
- Various reports regarding CSOs.
- CSO identification names and permit numbers. For example: "West Galena Boulevard – Overflow No. 018".
- Location of each overflow (latitude and longitude).
- Dates for each overflow occurrence.
- Duration for each overflow occurrence.
- Rainfall data associated with each overflow occurrence.

The websites also include respective contact information for data.

3.2 Signs Posted at CSO Outfalls

Metal signs were manufactured by the City of Aurora Street Department and installed by both District and City of Aurora staff in the vicinity of various CSO outfalls advising the public in both English and Spanish of "Possible Sewage Overflow During and Following Heavy Rain". These signs were installed in 2001 and are periodically checked to ensure

they are still in place. If the sign is damaged or missing, it is replaced. Below is a copy of the sign:



Signs have been installed at the following CSO locations:

- Third Street (Overflow No. 005): Immediately downstream of the overflow structure, northeast of the animal shelter building.

- Rathbone Avenue (Overflow No. 001): One sign immediately downstream of the overflow structure near the parking lot and a second sign at the south end of the boat ramp area.
- Hazel Avenue (Overflow No. 004): Immediately downstream of the overflow structure, south of the bar screen.
- East Benton Street (Overflow No. 008): Immediately downstream of the overflow structure, just west of the City of Aurora Municipal Parking Lot on the south side of Benton Street.
- Superior Street (Overflow No. 022): West of the 400 N. Broadway property, south of the CSO treatment facility.
- CSO Treatment Facility (Overflow No. 027): Immediately downstream of the overflow structure, west of the CSO treatment facility.
- Pierce Street (Overflow No. 003): Immediately downstream of the overflow structure, west of the Fox Valley Park District bike path.
- East Illinois Avenue (Overflow No. 002): Immediately downstream of the overflow structure, southwest of the Illinois Avenue Bridge.
- West Illinois Avenue (Overflow No. 023): One sign near the bridge and a second sign down by the beach area.
- West Park Avenue (Overflow No. 021): Immediately downstream of the overflow structure, just north of a small park area. Upper left corner of sign is bent
- Fox Metro WWTP: At the outfall on the wastewater treatment plant site.
- West Galena Boulevard (Overflow No. 018): Sign next to overflow under bridge.
- Stolp Avenue (Overflow No. 017): Sign on guard rail of catwalk above overflow

Signs are scheduled to be installed at the following locations in 2016:

- West Benton Street (Overflow No. 015)
- Clark Street (Overflow No. 016A)
- First Street (Overflow No. 010)
- Dearborn Avenue / Trask Street (Overflow No. 025)

Appendix A depicts the CSO diversion structures, CSO discharge points, and notification sign locations for each CSO.

3.3 Public Information Meeting

Both the City of Aurora and FMWRD have solicited comments and feedback from the affected public in the development of this CSO Public Notification Plan. The affected public was deemed to include: governmental organizations, civic groups, recreational groups, or any public citizen with an interest in the area of the Fox River within the City of Aurora and/or Fox Metro's service area.

For FMWRD's Public Information Meeting, the identified affected public was invited to the public meeting held February 24, 2016. Notification about the planned public meeting was posted on FMWRD's website, through news media alerts to the Aurora Beacon News newspaper, and through direct notification. Entities that were directly notified of the public meeting included: IEPA, Sierra Club – Valley of the Fox Region, Fox River Study Group, Friends of the Fox River, Fox River Ecosystem Partnership, and Rocktown Adventures (Aurora business for canoe rental and watersports). A copy of the public meeting summary is included in **Appendix B** and includes copies of the email notification, the Certificate of Publication from the Aurora Beacon News, the PowerPoint presentation, and the sign-in sheet. No comments were received from the public as a result of these notifications or meeting.

The City of Aurora's NPDES permit will be effective on June 1, 2016. This permit requires a CSO Public Information Meeting within 9 months of the effective date. The Public Notification Plan will be updated after this meeting.

Appendix A



CSO Notification Sign

CSO Diversion Structure

CSO Discharge Points

Fox River



CSO Diversion Structure

Illinois Ave

CSO Discharge Point

Fox River

CSO Notification Sign





Fox River

Fox River

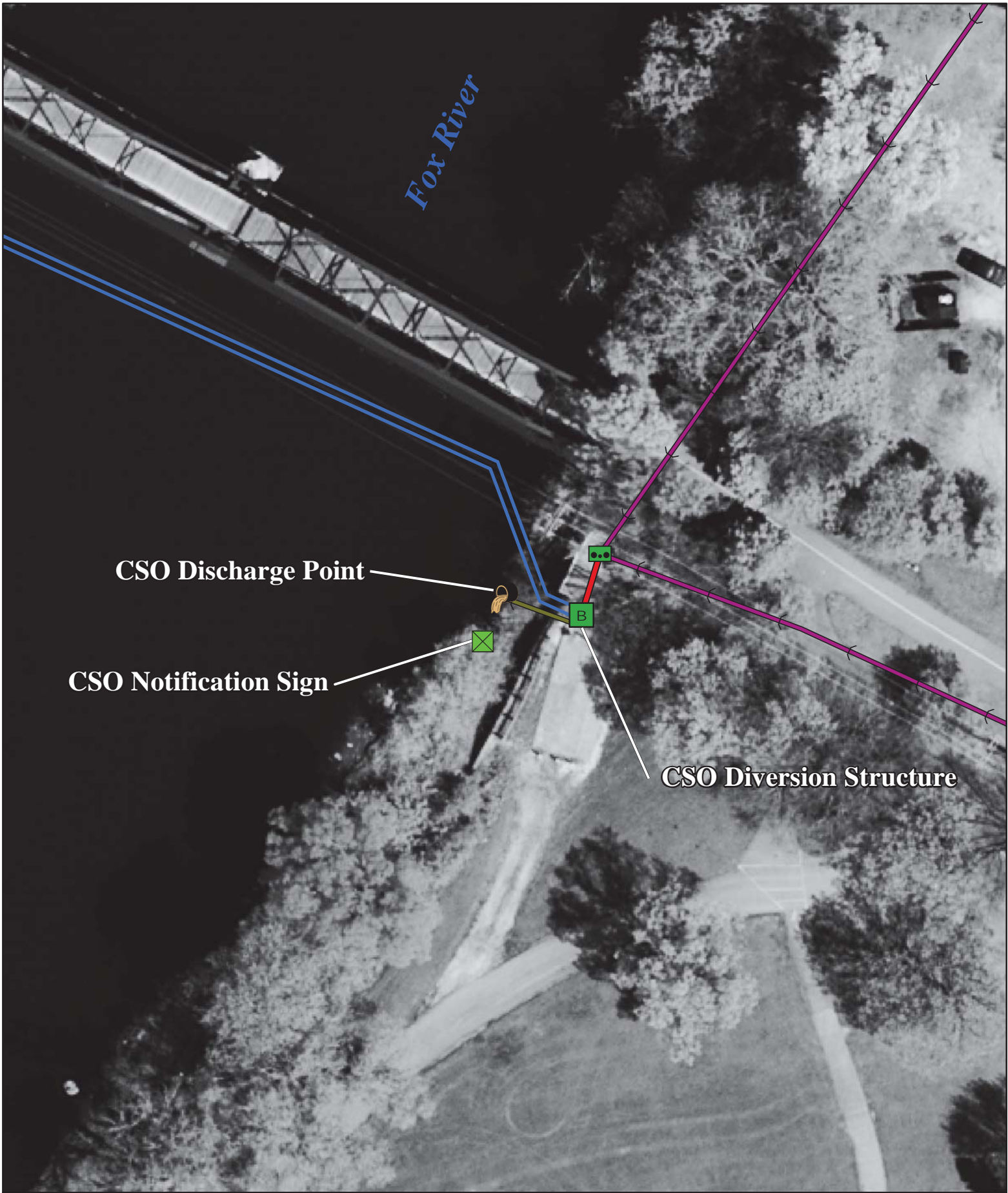
CSO Diversion Structures

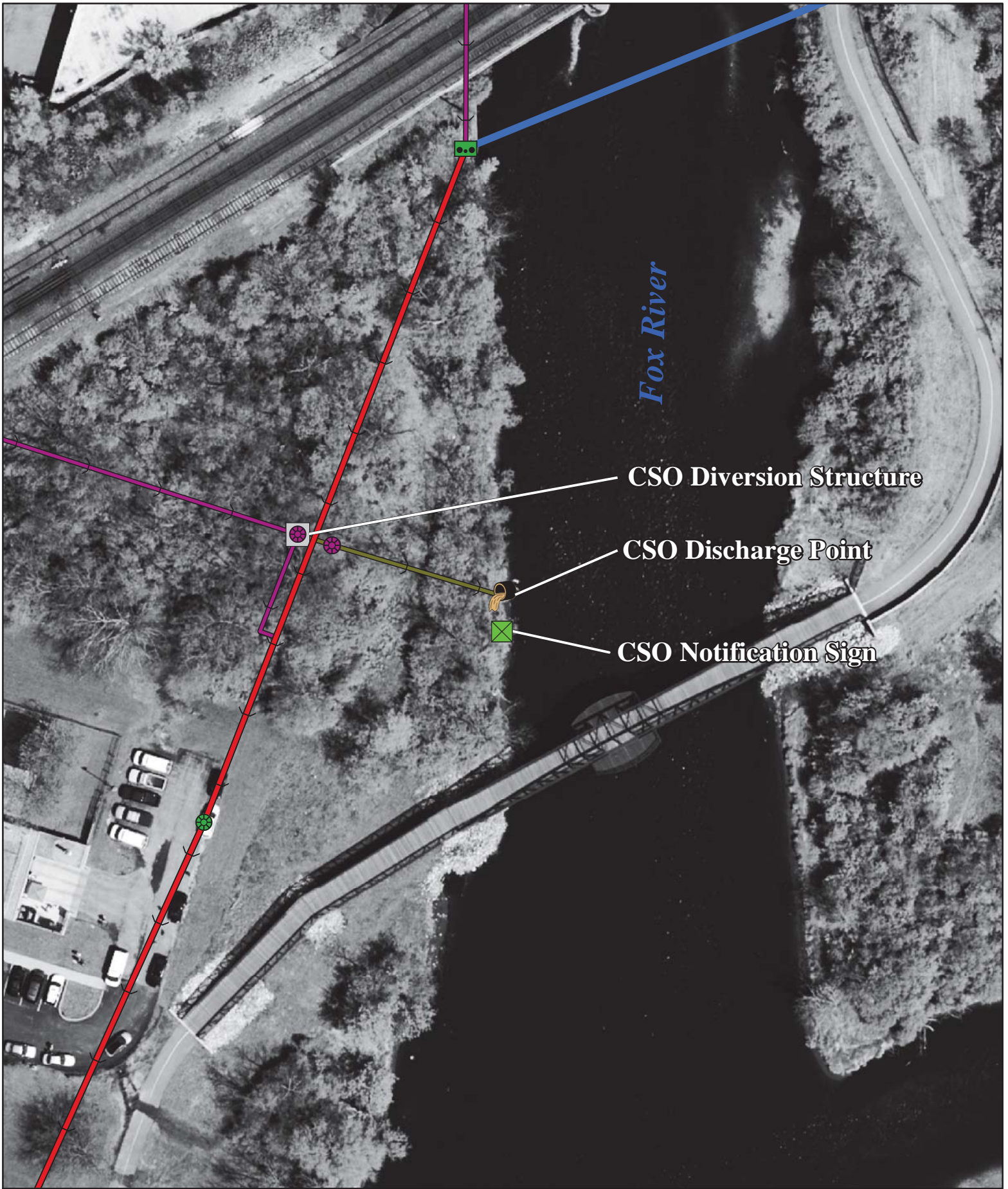
CSO Discharge Point

CSO Notification Sign

Pierce St





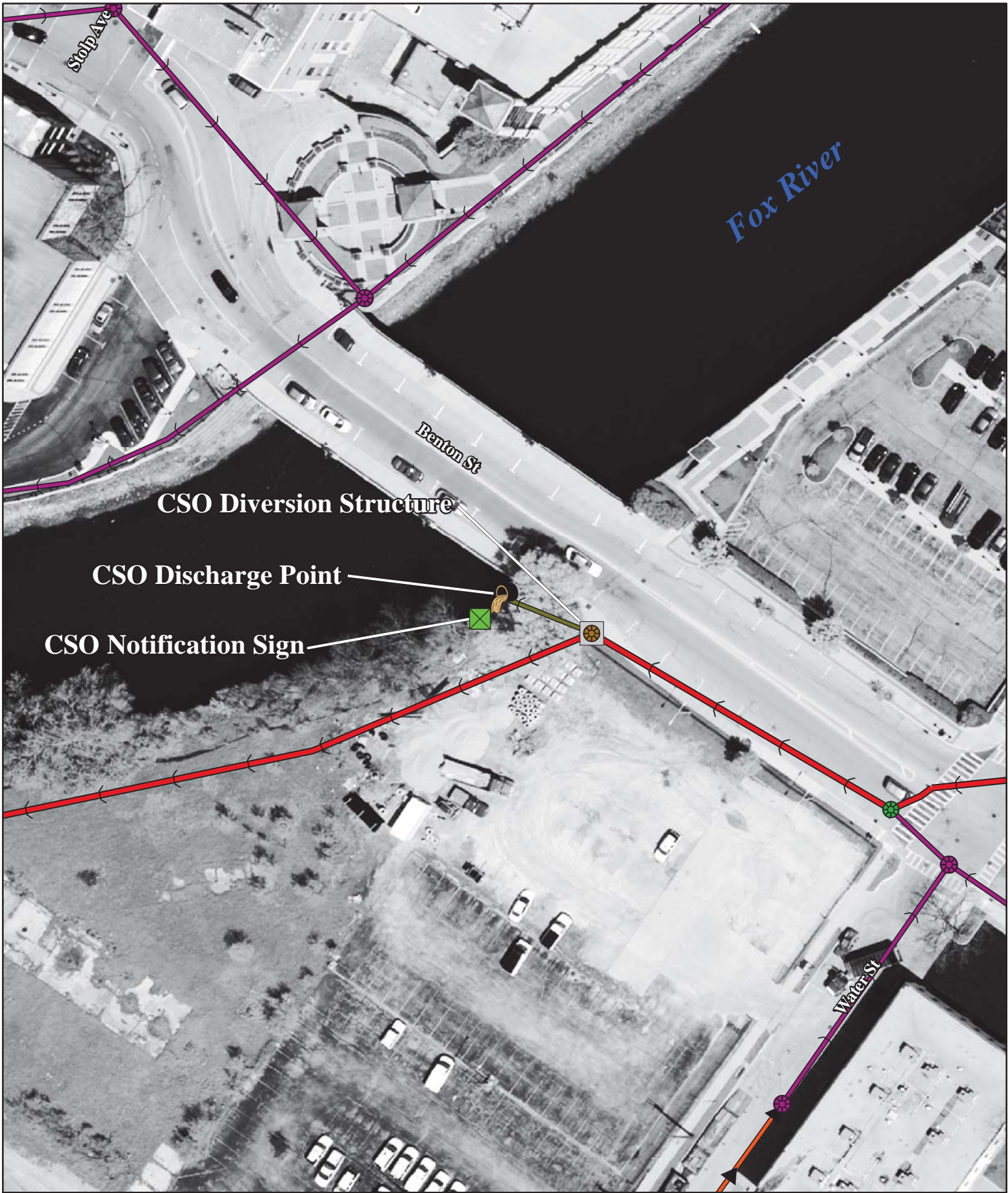


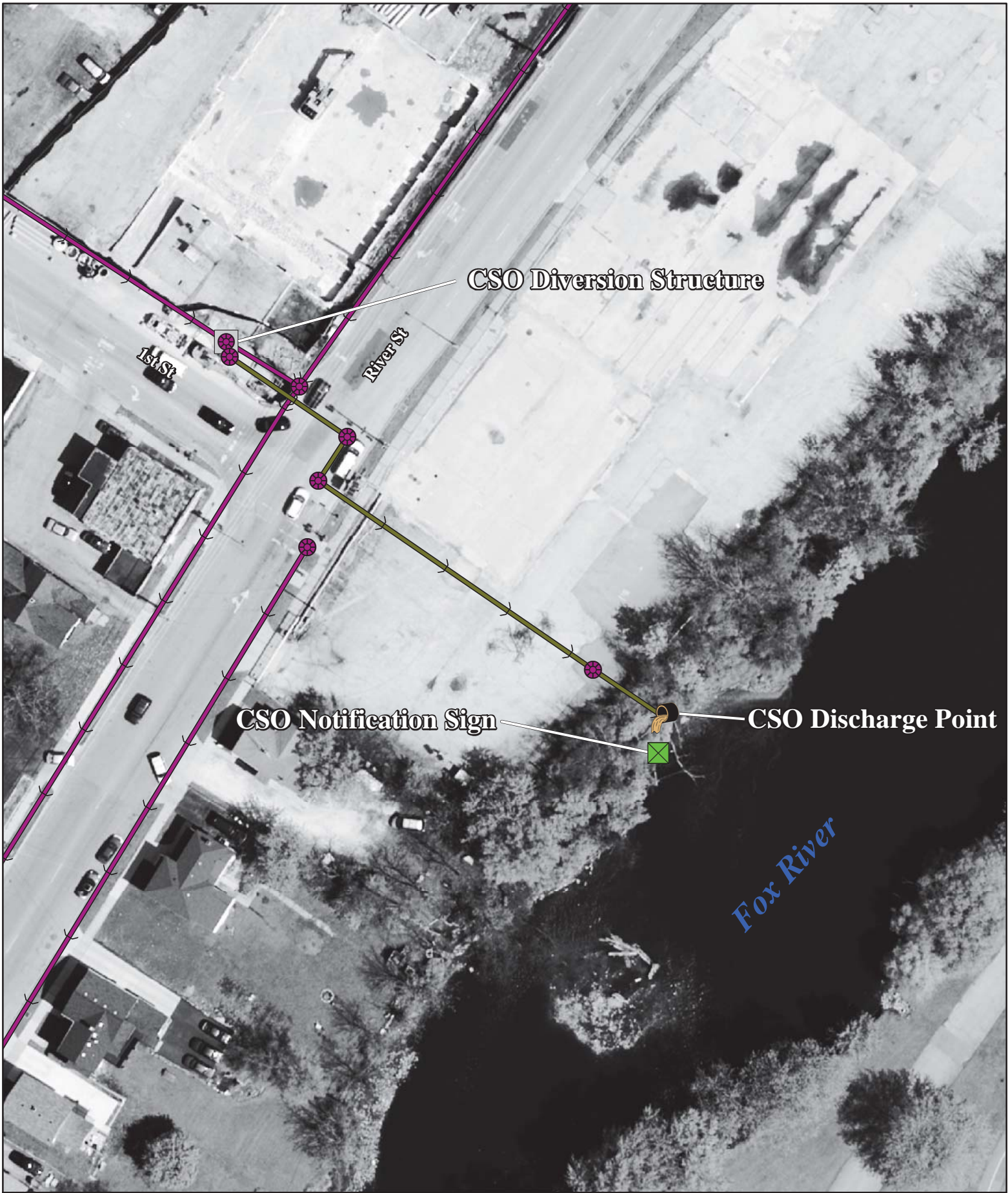
Fox River

CSO Diversion Structure

CSO Discharge Point

CSO Notification Sign





CSO Diversion Structure

1st St

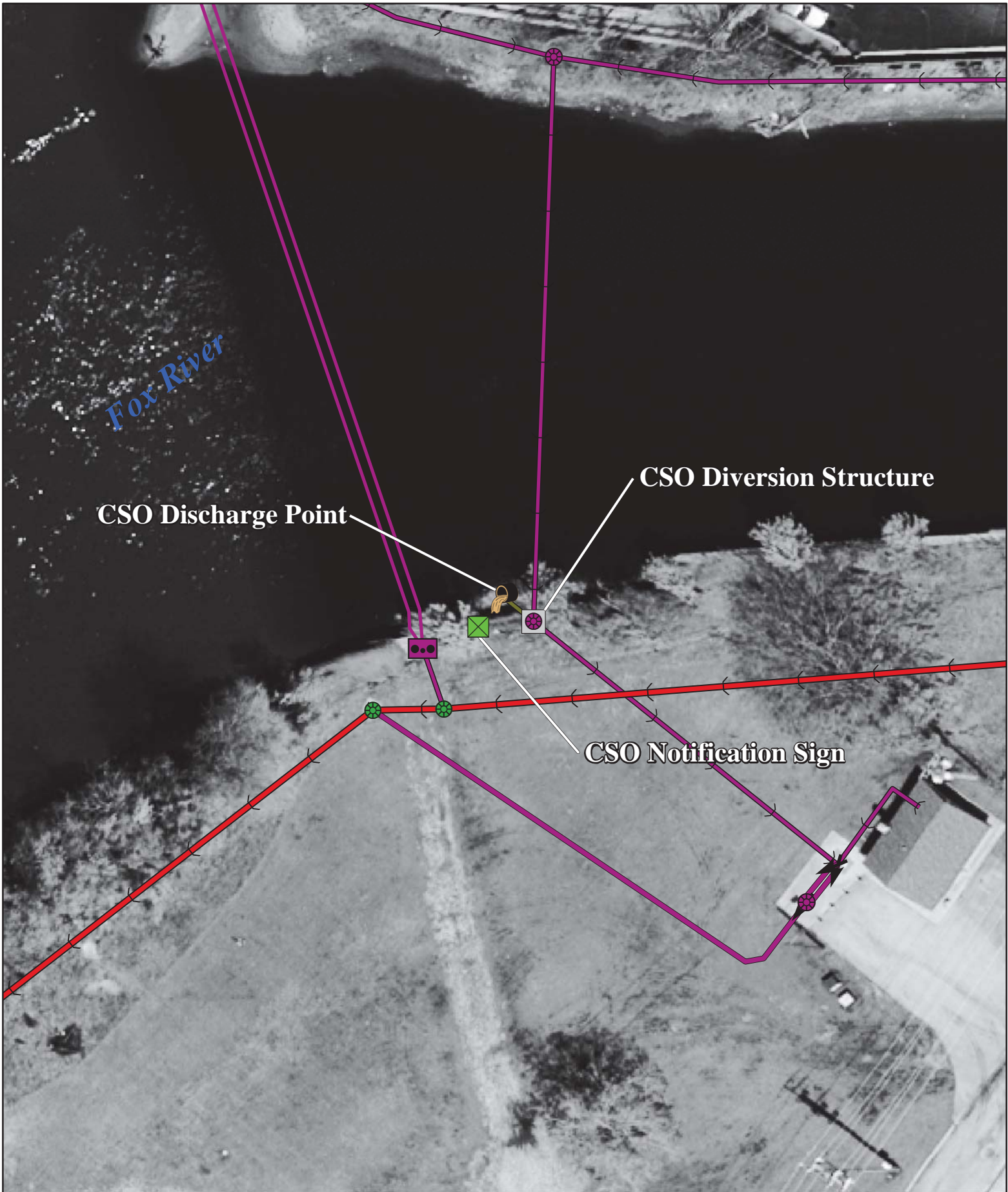
River St

CSO Notification Sign

CSO Discharge Point

Fox River



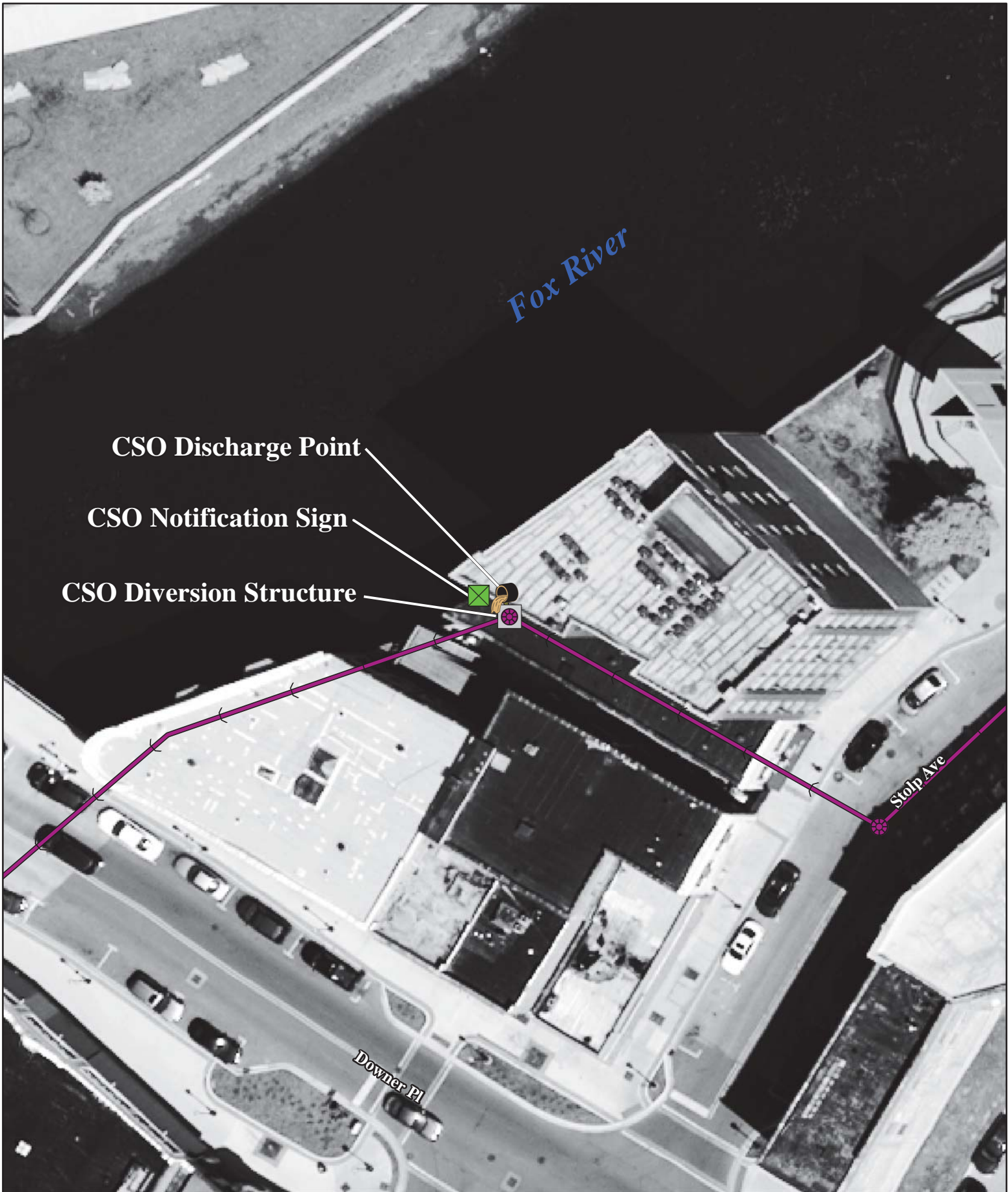


Fox River

CSO Discharge Point

CSO Diversion Structure

CSO Notification Sign



Fox River

CSO Discharge Point

CSO Notification Sign

CSO Diversion Structure

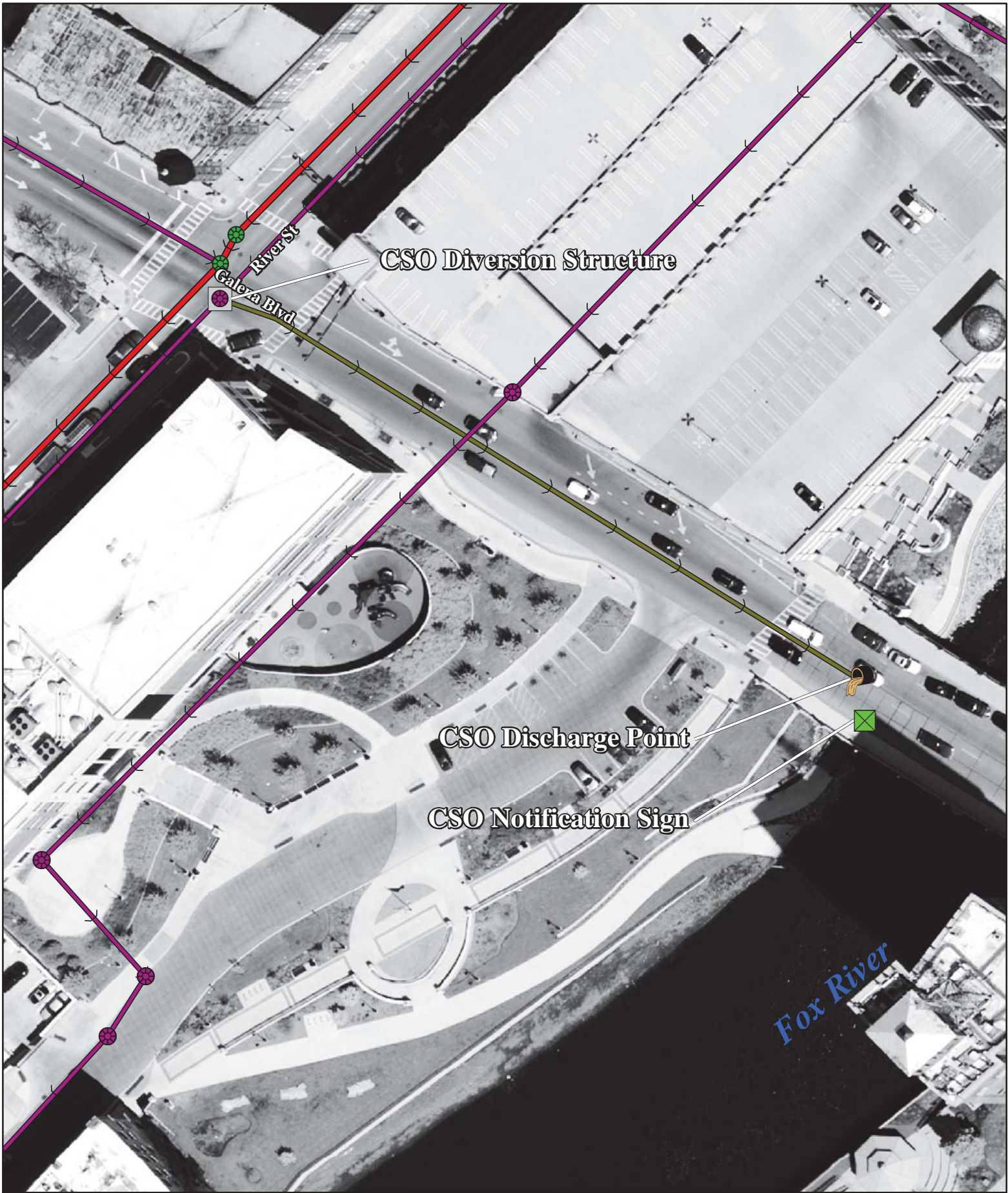
Stolp Ave

Downer Pl

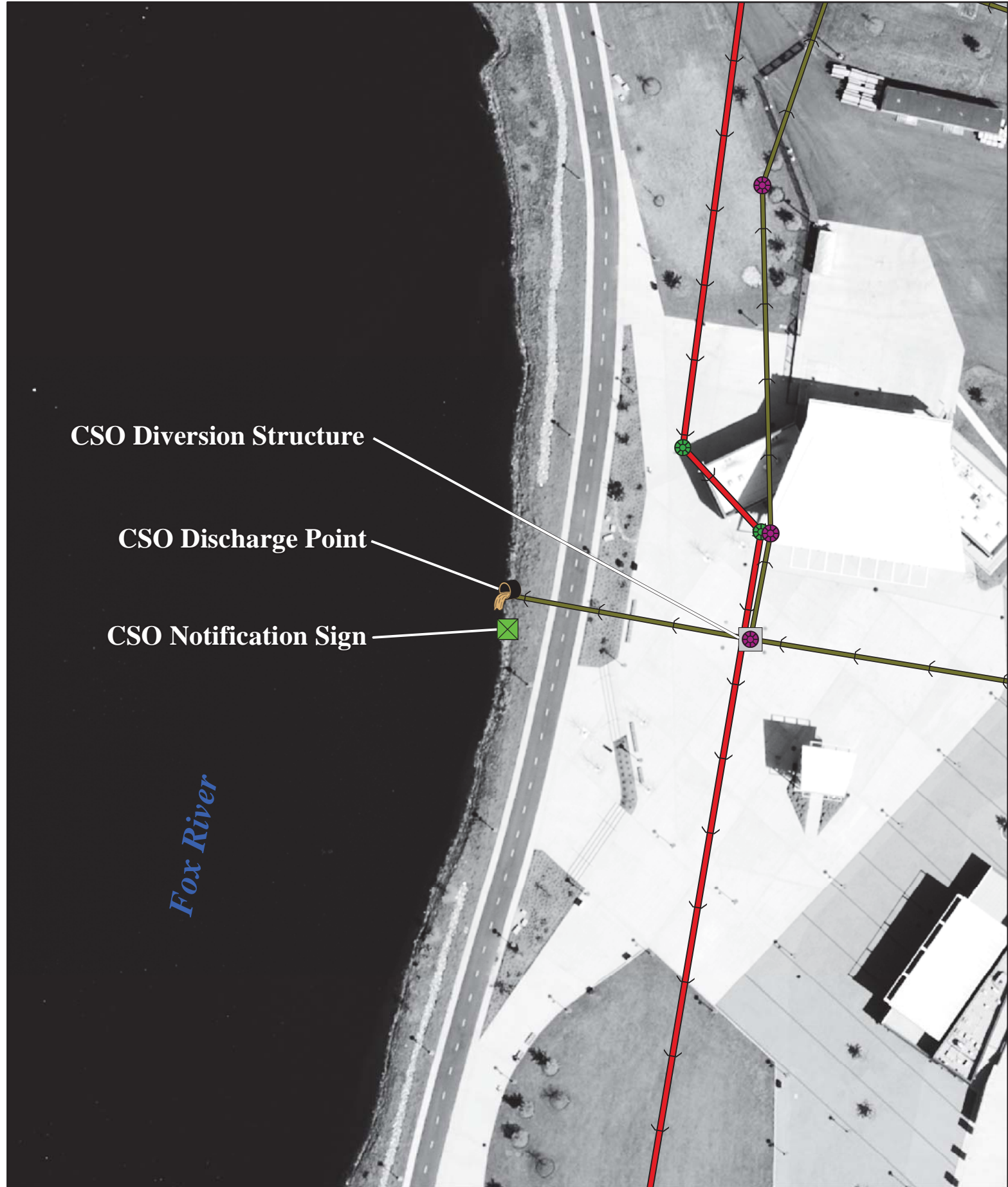


**City of Aurora CSO - 017
Stolp**







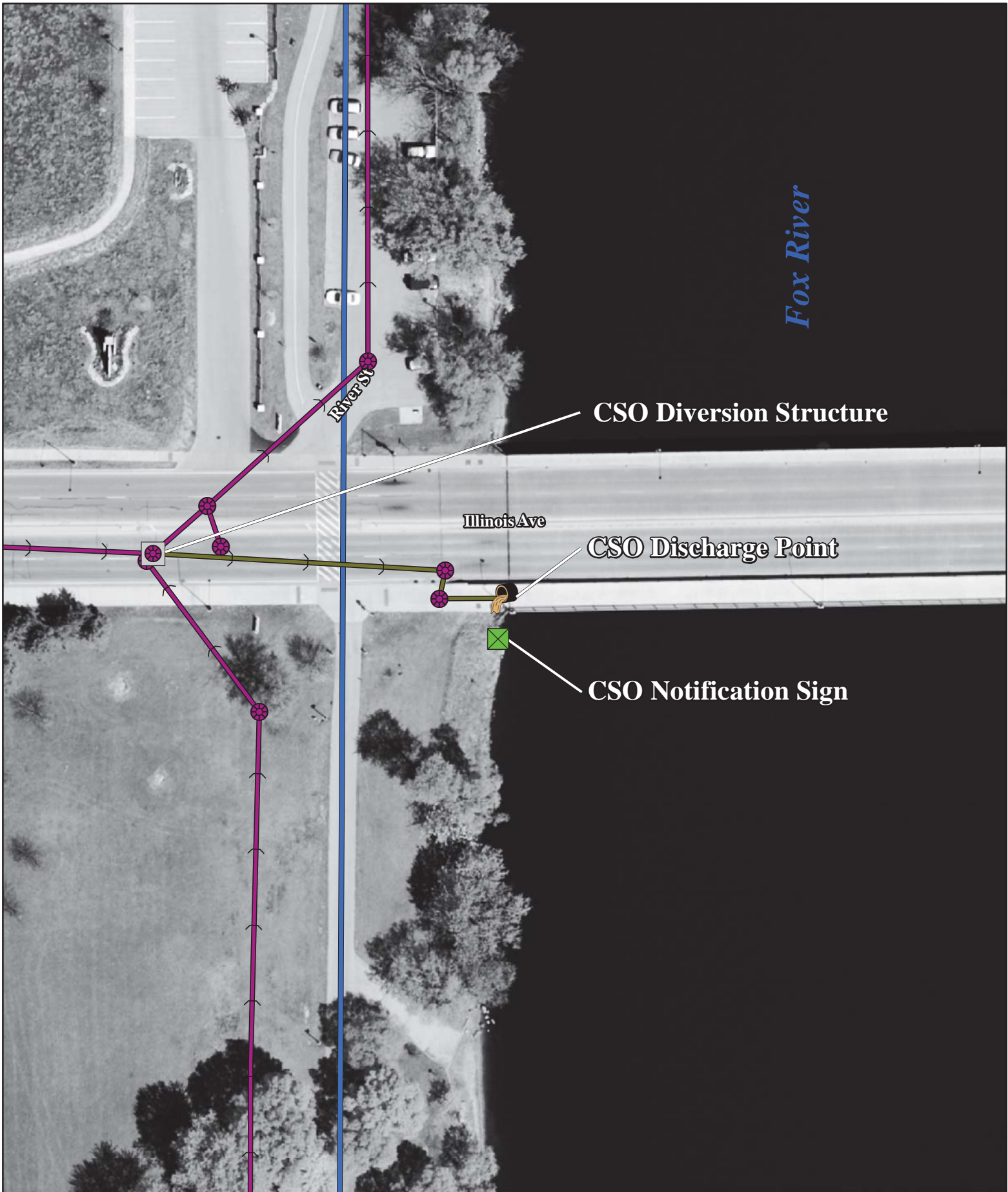


CSO Diversion Structure

CSO Discharge Point

CSO Notification Sign

Fox River





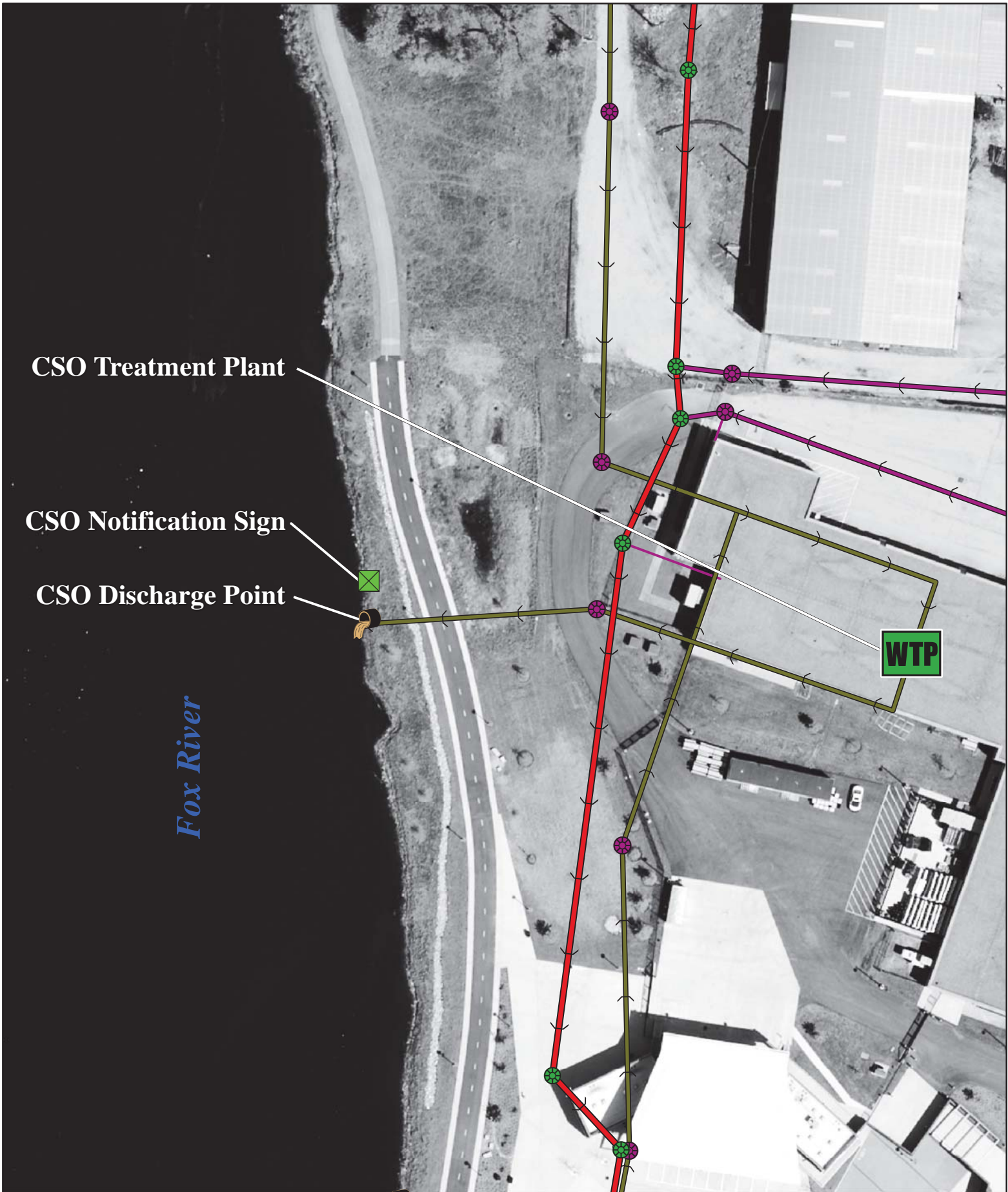
CSO Discharge Point

Indian Creek

CSO Diversion Structure

Dearborn Ave

Trask St



Appendix B

WALTER E. DEUCHLER ASSOCIATES INC.

Consulting Engineers

230 WOODLAWN AVENUE • TELEPHONE (630) 897-4651 • FAX (630) 897-5696
AURORA, ILLINOIS 60506



April 5, 2016

Illinois Environmental Protection Agency
Attention: Compliance Assurance Section
Division of Water Pollution Control
Illinois Environmental Protection Agency
1021 N. Grand Ave. East
Springfield, IL 62794

**RE: Fox Metro Water Reclamation District
NPDES Permit No. IL0020818**

To the Compliance Assurance Section:

On behalf of the Fox Metro Water Reclamation District, we are pleased to provide you with the attached Public Notification Information Meeting Summary. A Public Information Meeting was held on February 24, 2016 to present the Pollution Prevention Plan (Paragraph 8), Public Notification Program (Paragraph 13), and Operational and Maintenance Plan (Paragraph 10).

We trust that the attached will meet with your approval. Should you have any questions or require any additional information regarding this matter, please do not hesitate to contact the undersigned.

Very truly yours,
WALTER E. DEUCHLER ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read "John W. Frerich".

John W. Frerich, P.E.

Encl.

cc: Tom Muth, District Manager, FMWRD, w/Encl.
Eric Schoeny, City of Aurora, w/Encl.
Karen Clementi, Deuchler Environmental, Inc, w/Encl.

FOX METRO WATER RECLAMATION DISTRICT

CSO PUBLIC NOTIFICATION PROGRAM

Public Information Meeting Summary

- Attached is a copy of the Certificate of Publication of the Notice of the Public Information Meeting. The notice was published in the local newspaper on January 26, 2016.
- In addition to the published notice, an announcement was made at the Fox Metro Water Reclamation District's meeting of the Board of Trustees on February 17, 2016 and a personal invitation was sent via e-mail (see attached) to the IEPA, Sierra Club – Valley of the Fox Region, Fox River Study Group, Friends of the Fox River, Fox River Ecosystem Partnership, and a local business for canoe rental and watersports.
- The public meeting was held on February 24, 2016. Attached is a copy of the attendance sign-in sheet.
- A powerpoint presentation was given at this public meeting. Attached is a copy of the presentation. This presentation will also be posted on Fox Metro Water Reclamation District's website as part of their future CSO information page. The scheduled publication date for this website page is June 1, 2016.
- No public comments were received regarding the Pollution Prevention Plan, Operational & Maintenance Plan, and Public Notification Program as presented.

CHICAGO TRIBUNE

media group

Sold To:

FOX METRO WATER RECLAMATION DISTRICT - CU00407430
682 State Route 31
Oswego, IL 60543-8919

Bill To:

FOX METRO WATER RECLAMATION DISTRICT - CU00407430
682 State Route 31
Oswego, IL 60543-8919

Certificate of Publication:

Order Number: 3919592
Purchase Order: CSO Program

State of Illinois - Kane

Tribune Publishing does hereby certify that it is the publisher of the Aurora Beacon News. The Aurora Beacon News is a secular newspaper, has been continuously published Daily for more than fifty (50) weeks prior to the first publication of the attached notice, is published in the County of Kane, State of Illinois, is of general circulation throughout that county and surrounding area, and is a newspaper as defined by 715 IL CS 5/5.

This is to certify that a notice, a true copy of which is attached, was published 1 time(s) in the Aurora Beacon News on Jan 26, 2016.

This notice was also placed on a statewide public notice website as required by 5 ILCS 5/2.1.

PUBLICATION DATES: Jan 26, 2016.

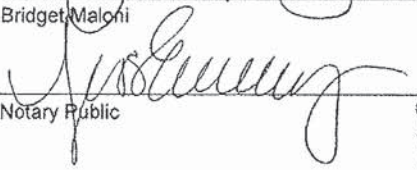
Aurora Beacon News

Executed at Chicago, Illinois on this

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CHICAGO TRIBUNE

media group

FOX METRO WATER RECLAMATION DISTRICT COMBINED SEWER OVERFLOW (CSO) PROGRAM

NOTICE OF PUBLIC INFORMATION MEETING

On Wednesday, February 24, 2016 at 10:00 a.m. at the Fox Metro Water Reclamation District located at 682 State Route 31, Oswego, Illinois, the Fox Metro Water Reclamation District (District) will hold a public information meeting for the purpose of presenting to the general public the following:

CSO Pollution Prevention Plan
CSO Operation & Maintenance Plan
CSO Public Notification Program

This public information meeting is required by the Illinois Environmental Protection Agency as a Special Condition of the District's National Pollutant Discharge Elimination System (NPDES) permits. Prior to final approval and initiation of the above plans/programs, the public's comments are sought regarding any significant issues relating to these plans/programs.

Dated this 20th day of January, 2016.
Michael C. Funkey, Secretary
1/26/2016 3919592

3919592

Karen Clementi

From: Karen Clementi <kclementi@deuchler.com>
Sent: Friday, February 12, 2016 5:29 PM
To: Tom Muth (tmuth@foxmetro.org); John Frerich; 'Cindy Skrukud'; fran.caffee@gmail.com; Becky Hoag (foxriverinfo@comcast.net); Schoeny, Eric (ESchoeny@aurora-il.org); swick (swick@mc.net); 'jay.patel@illinois.gov'; Charlie Zine (czine107@gmail.com)
Subject: Fox Metro CSO Public Information Meeting

Tracking:	Recipient	Read
	Tom Muth (tmuth@foxmetro.org)	
	John Frerich	
	'Cindy Skrukud'	
	fran.caffee@gmail.com	Read: 2/12/2016 5:56 PM
	Becky Hoag (foxriverinfo@comcast.net)	
	Schoeny, Eric (ESchoeny@aurora-il.org)	Read: 2/13/2016 3:12 PM
	swick (swick@mc.net)	
	'jay.patel@illinois.gov'	
	Charlie Zine (czine107@gmail.com)	

On behalf of the Fox Metro Water Reclamation District, below is information regarding the public information meeting for Combined Sewer Overflow (CSO) Program compliance.

Please feel free to forward this email to anyone within your respective organizations that may be interested in attending.

FOX METRO WATER RECLAMATION DISTRICT COMBINED SEWER OVERFLOW (CSO) PROGRAM

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- CSO Pollution Prevention Plan
- CSO Operation & Maintenance Plan
- CSO Public Notification Program

This public information meeting is required by the Illinois Environmental Protection Agency as a Special Condition of the District's National Pollutant Discharge Elimination System (NPDES)

permits. Prior to final approval and initiation of the above plans/programs, the public's comments are sought regarding any significant issues relating to these plans/programs.

Karen Kempson Clementi
Vice President
Deuchler Environmental, Inc.
230 Woodlawn Ave.
Aurora, IL 60506
Direct Line: 630-423-0478
Fax: 630-897-5696

FOX METRO WATER RECLAMATION DISTRICT
COMBINED SEWER OVERFLOW (CSO) PROGRAM

PUBLIC INFORMATION MEETING

Wednesday, February 24, 2016 at 10:00 a.m. for the purpose of presenting to the general public the following:

- CSO Pollution Prevention Plan
 - CSO Operation & Maintenance Plan
 - CSO Public Notification Program
-

SIGN IN SHEET

1. Albert Howard
2. Kurt Muth
3. Carrie Carter
4. Karen Clementi
5. Tom Muth
6. Matt Woodin
7. John Frederick
8. Pat Divine
- 9.

Public Information Meeting

Fox Metro Water Reclamation District CSOs

NPDES Permits No. IL0020818

February 24, 2016



Summary of the CSS

- ±7,145 acres
- 130 miles of combined sewers
- 16 permitted CSOs in the City
- 1 permitted CSO at the WWTP
- Served by the Original East and West Bank Interceptor (36"-69")



Original Combined Sewer Interceptor



Permitted Discharge Locations

Discharge #	Location	Receiving Water
004	Hazel Ave.	Fox River
001	Rathbone Ave.	Fox River
005	Third St.	Fox River
010	First St.	Fox River
016	Clark St.	Fox River
015	West Benton St.	Fox River
018	West Galena Blvd.	Fox River
021	Elm St.	Fox River
022	Superior St.	Fox River
023	West Illinois Ave.	Fox River
002	East Illinois Ave.	Fox River
017	Stalp Ave.	Fox River
008	Benton St.	Fox River
003	Pierce St.	Fox River
025	Trask St.-Dearborn Ave.	Indian Creek
027	CSO Facility	Fox River
002 (FM)	WWTP Headworks	Fox River



CSO Overview Map



Fox Metro Water Reclamation District
CSO Overview Map



CSO Tributary Areas



City of Aurora CSO - 881
Rathbone



NPDES Permit Requirements

- **Public Notification Program**
- **Pollution Prevention Plan**
- **Operational & Maintenance Plan**



Public Notification

Purpose:

To provide a method to ensure that the general public is adequately informed of the presence and effects of combined sewer overflows.



Public Notification

1. Posting info in public place and on agencies' websites

- CSO Information
- CSO Location
- DMRs
 - Dates of each occurrence
 - Duration of each occurrence
 - Rainfall data for each occurrence



Public Notification

[Fox Metro CSO Website](#)



Public Notification

2. Signs Posted at CSO Outfalls



CSO Sign Maps



Pollution Prevention Plan

Purpose:

To reduce the amount of contaminants that enter the CSS, to the greatest extent possible



Pollution Prevention Plan

1. Street Sweeping



Pollution Prevention Plan

2. Public Education Programs
3. Solid Waste Collection and Recycling
4. Product Ban/Substitution
5. Control of Product Use
6. Illegal Dumping
7. Bulk Refuse Disposal



Pollution Prevention Plan

- 8. Hazardous Waste Collection**
- 9. Water Conservation**
- 10. Industrial Pollution Prevention**



O&M Plan

Purpose:

To establish operation, maintenance and inspection procedures to ensure that a CSS and treatment facility will function in a way to maximize treatment of combined sewage. Implementation of the plan will reduce the magnitude, frequency and duration of CSOs by enabling existing facilities to perform as effectively as possible.



O&M Plan

- 1. Preventative Maintenance**
 - **Cleaning and Repairs**



O&M Plan

- **Emergency Response**
- **Inspections**
- **Grit Reduction**
- **Telemetry (SCADA)**
- **Sewer Investigations**



O&M Plan

- Flow Monitoring/System Modeling



Fox Metro
Water Reclamation District

O&M Plan

2. Combined Sewer Improvement Projects

- Sewer Rehabilitation
- Sewer Separation
- Outfall Improvements

Fox Metro
Water Reclamation District

O&M Plan

3. Continuous Efforts

- CSO Treatment Facility



Fox Metro
Water Reclamation District

O&M Plan

3. Continuous Efforts

- Building T at WWTP



Fox Metro
Water Reclamation District



O&M Plan

3. Building T: Performance

June 22, 2014

TSS removal	61.02%
NH3-N	37.09%
BOD removal	55.26%

What does this mean for the river? 30 MG was processed through CEPT reducing the loading of BOD to the river by 8,757 lbs and the loading of ammonia to the river by 1,298 lbs. The oxygen sink that was averted because of the CEPT process was 17,803 lbs of O2 (assuming a NH3-N/TKN of 0.66).

July 1, 2014

TSS removal	63.64%
NH3-N removal	7.38%
BOD removal	42.94%



O&M Plan

- CSO Partnership
- Long Term Control Plan
- WWTP Improvements



CSO LTCP Phase II Improvement Schedule

	Walden Interceptor	South Facility	North Facility
Construction Cost	\$5,500,000	\$8,000,000	\$6,800,000
Allyments for Bids	June 2015: complete	June 2015: complete	June 2017
Bids Opening	Aug 2015: complete	Aug 2015: complete	Aug 2017
Notice to Proceed	Nov 2015: complete	Nov 2015: complete	Nov 2017
Construction Complete	Apr 2017	Dec 2018	Oct 2018



Major Components of the South Facility

Headworks Building B-3

- Screening
- Grit Removal
- Raw Sewage Pumping

Primary Clarifiers D-6 / D-7

Primary Sludge Pump Station C-7

- Pumping of Primary Sludge
- Scum Concentration

BNR Process F-1

Secondary Control Building G-7

- RAS and WAS Pumping
- Internal Recycle
- Blowers

GBT Building L-1

- Ferric Chloride Addition V-1
- Potable Water Pumping W and W-1

