



# **Metropolitan Water Reclamation District of Greater Chicago**

**Welcome to the November  
Edition of the 2022 M&R  
Seminar Series**

# NOTES FOR SEMINAR ATTENDEES

- Remote attendees' audio lines have been muted to minimize background noise. **For attendees in the auditorium, please silence your phones.**
- A question and answer session will follow the presentation.
- For remote attendees, Please use the “**Chat**” feature to ask a question via text to “**Host**”. **For attendees in the auditorium, please raise your hand and wait for the microphone to ask a verbal question.**
- The presentation slides will be posted on the MWRD website after the seminar.
- This seminar is pending approval by the ISPE for one PDH and pending approval by the IEPA for one TCH. Certificates will only be issued to participants who attend the entire presentation.

## Gregory Koch, P.E., Principal Civil Engineer Metropolitan Water Reclamation District of Greater Chicago



Greg Koch is a Principal Civil Engineer in the District's Plant Design Management Section. He received a Bachelor of Science and Master of Science in Civil and Environmental Engineering from the University of Illinois at Urbana-Champaign and a Juris Doctor from the Chicago-Kent College of Law. He has been with the District for over 17 years, including 10 years in the Stormwater Management Section managing flood control and streambank stabilization projects. Prior to joining the District, Greg worked as a consulting engineer for seven years.

## Justin Kirk, Principal Civil Engineer, P.E., CFM Metropolitan Water Reclamation District of Greater Chicago



Justin Kirk began his career at MWRD in 2008 working in the Engineering Department's Tunnel and Reservoir Plan Section and currently serves as a Principal Civil Engineer in its Stormwater Management Section. Justin has acted as project manager on numerous flood control and streambank stabilization projects throughout Cook County including Tinley Creek in Crestwood, Cherry Creek in Flossmoor and Arrowhead Lake in Palos Heights. Justin's experience includes balancing interests of multiple stakeholders, including municipalities, private landowners, special interest districts and regulatory agencies to create comprehensive multi-use projects. Justin received a Bachelor of Science in Civil Engineering from the Illinois Institute of Technology and Master of Science in Project Management from Northwestern University.

# Michael Cosme, P.E., CFM, Senior Civil Engineer Metropolitan Water Reclamation District of Greater Chicago



Mick Cosme joined the Metropolitan Water Reclamation District of Greater Chicago in 2001 and has more than 21 years of civil engineering experience. His project experience includes construction management and stormwater management. He currently is the project manager for the Addison Creek Reservoir and Channel Improvement projects and is involved in various stormwater management related activities at the MWRDGC. Mr. Cosme obtained his Bachelor of Science in Civil Engineering from the University of Illinois Urbana-Champaign.



**Metropolitan Water Reclamation  
District of Greater Chicago**

# **Flood Reduction from Metropolitan Water Reclamation District of Greater Chicago Regional Stormwater Projects**

November 18, 2022





# OUTLINE

- **Overview of the MWRDGC Stormwater Management Program**
- **Regional Stormwater Projects**
- **Buffalo Creek Reservoir Expansion**
- **Addison Creek Reservoir and Channel Improvements**



# STORMWATER MANAGEMENT TIMELINE

## Regional Stormwater Projects

Identified from the DWPs to address overbank flooding “riverine flooding”

## Local Stormwater Partnership Projects

Working with local communities and agencies to address local drainage problems.

## Stormwater Masterplans

Investigate “urban flooding” issues, green & gray infrastructure solutions.

## Green Infrastructure Projects

Partnerships addressing flooding and water quality issues using green practices that mimic the natural water cycle

2004

The authority for general supervision of stormwater management in Cook County was conveyed to the District by the Illinois State legislature.

2011

**Detail Watershed Plans (DWPs)** completed for the 6 major watersheds of Cook County:  
Cal-Sag Channel, Little Calumet River, Lower Des Plaines, North Branch of the Chicago River, Poplar Creek, and Upper Salt Creek.

2014

District’s authority was amended to allow for flood-prone property acquisition and to plan, implement, finance, and operate local stormwater management projects.

2015

2016

2021

2022

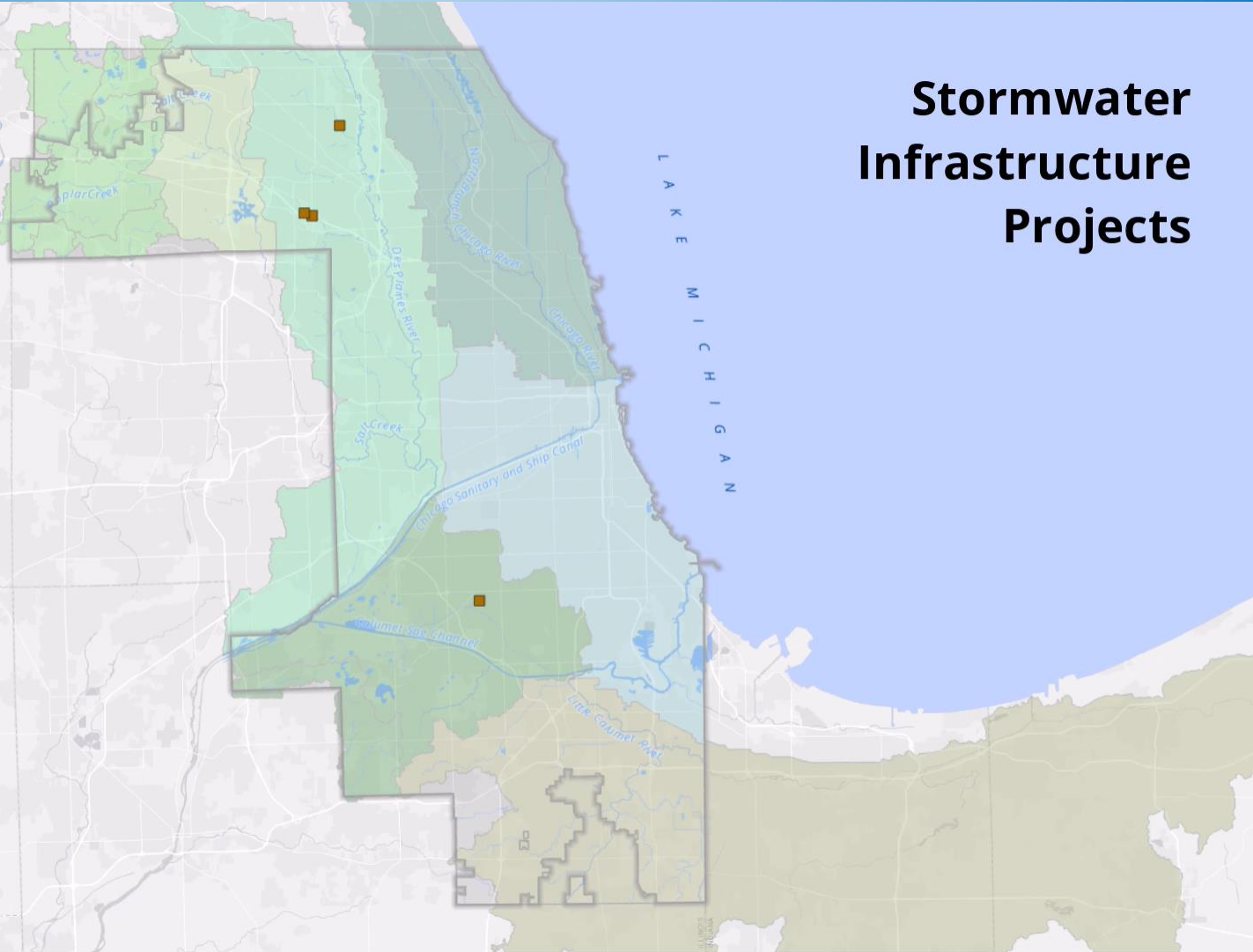




2011 October

# Stormwater Infrastructure Projects

- Legend**
- Regional - Ongoing
  - Regional - Complete
  - ◆ Local - Ongoing
  - ◆ Local - Complete
  - Green Infrastructure - Ongoing
  - Green Infrastructure - Complete
  - ▤ Space To Grow - Ongoing
  - ▤ Space To Grow - Complete
  - 🏠 FPPA - Ongoing
  - 🏠 FPPA - Complete
  - ▭ MWRD Boundary

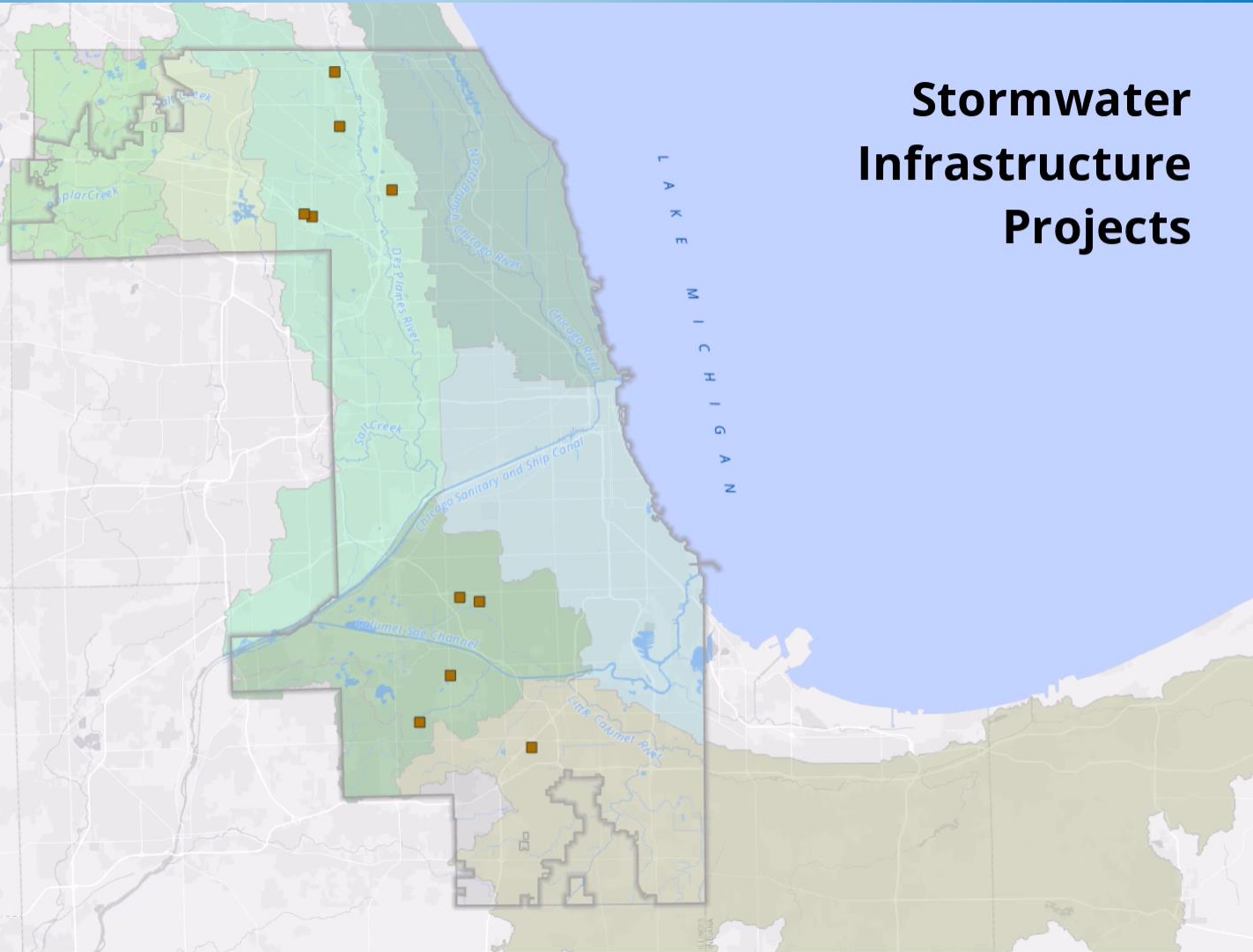




2013 July

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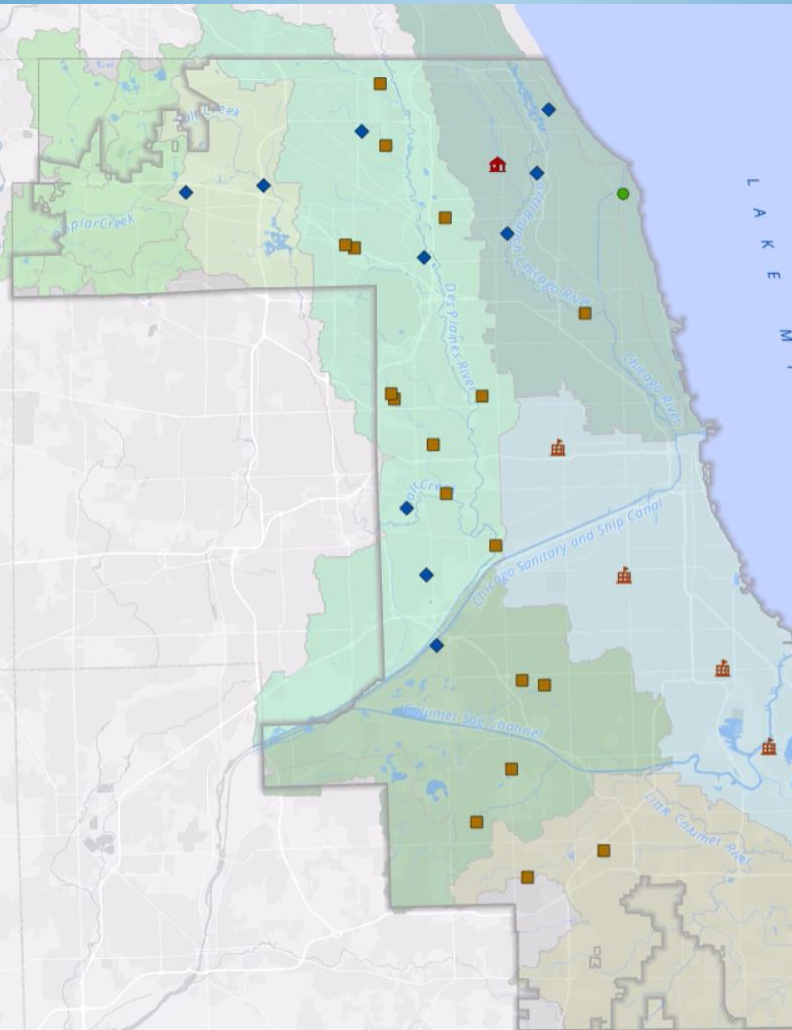




2014 September

# Stormwater Infrastructure Projects

- Legend**
- Regional - Ongoing
  - Regional - Complete
  - Local - Ongoing
  - Local - Complete
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  - FPPA - Ongoing
  - FPPA - Complete
  - MWRD Boundary



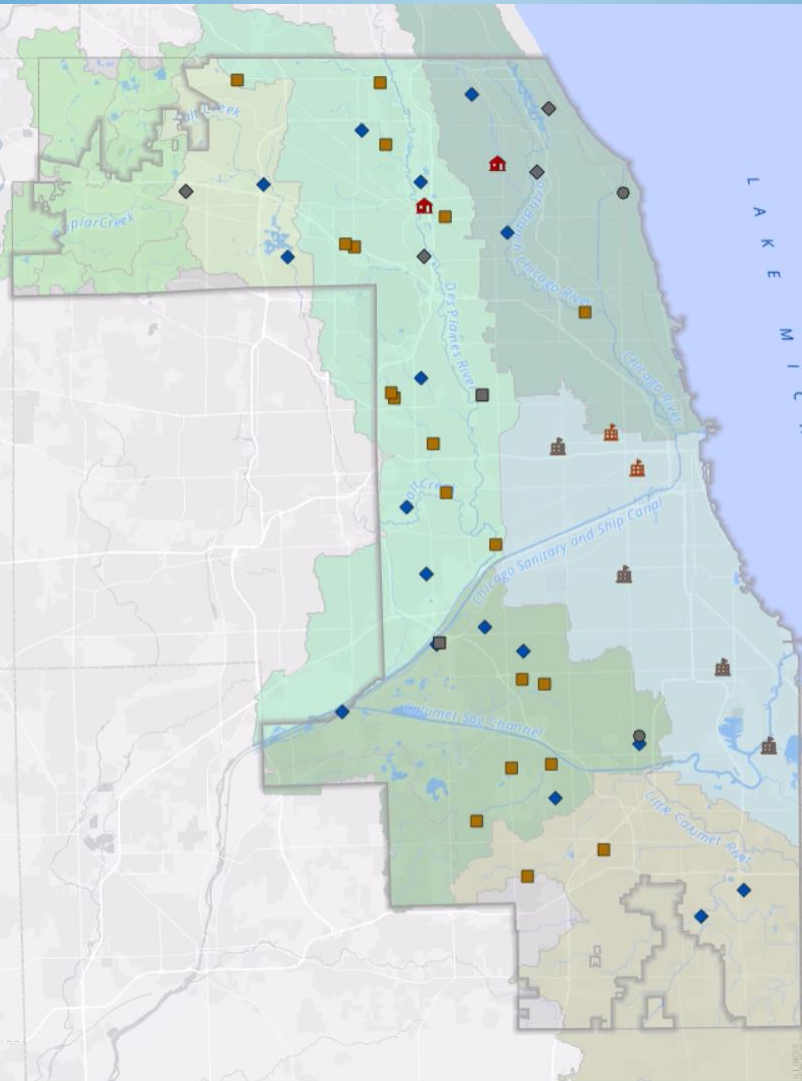
L A K E  
M I C H I G A N



2015 November

# Stormwater Infrastructure Projects

- Legend**
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  - FPPA - Complete
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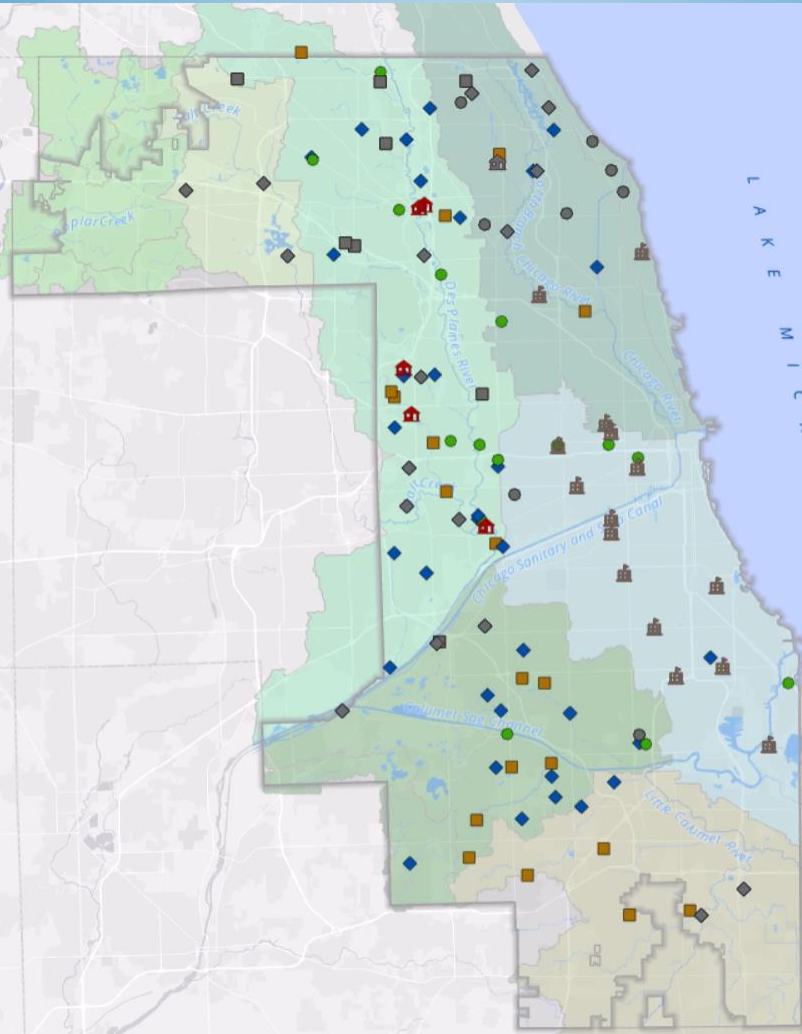
L A K E  
M I C H I G A N



2018 September

# Stormwater Infrastructure Projects

- Legend**
- Regional - Ongoing
  - Regional - Complete
  - Local - Ongoing
  - Local - Complete
  - Green Infrastructure - Ongoing
  - Green Infrastructure - Complete
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  - Space To Grow - Complete
  - FPPA - Ongoing
  - FPPA - Complete
  - MWRD Boundary

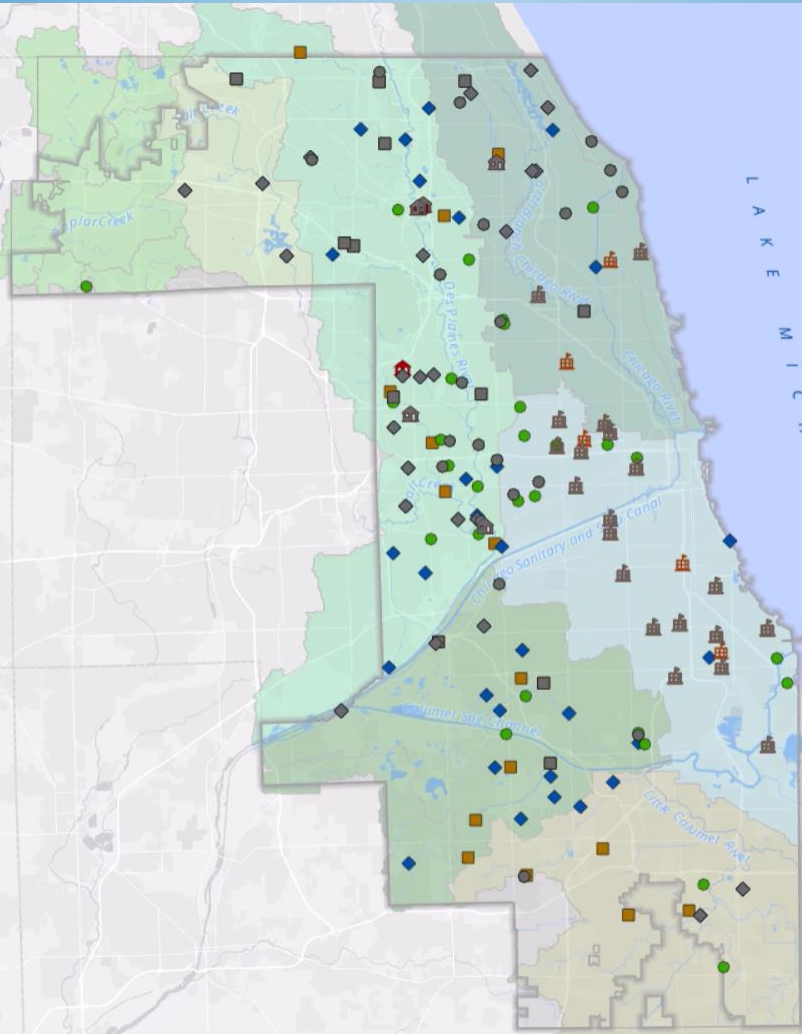




2020 May

# Stormwater Infrastructure Projects

- Legend**
- Regional - Ongoing
  - Regional - Complete
  - Local - Ongoing
  - Local - Complete
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  - Space To Grow - Ongoing
  - Space To Grow - Complete
  - FPPA - Ongoing
  - FPPA - Complete
  - MWRD Boundary



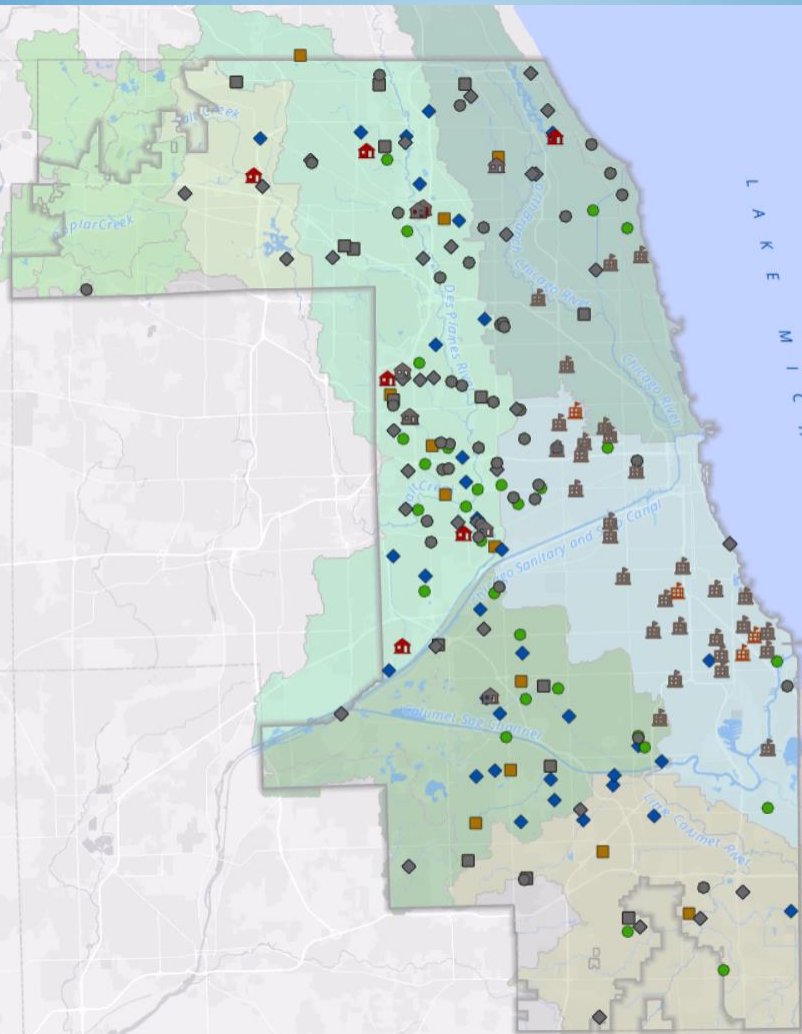
L A K E M I C H I G A N



2022 September

# Stormwater Infrastructure Projects

- Legend**
- Regional - Ongoing
  - Regional - Complete
  - ◆ Local - Ongoing
  - ◆ Local - Complete
  - Green Infrastructure - Ongoing
  - Green Infrastructure - Complete
  - 🏠 Space To Grow - Ongoing
  - 🏠 Space To Grow - Complete
  - 🏠 FPPA - Ongoing
  - 🏠 FPPA - Complete
  - MWRD Boundary



L A K E M I C H I G A N



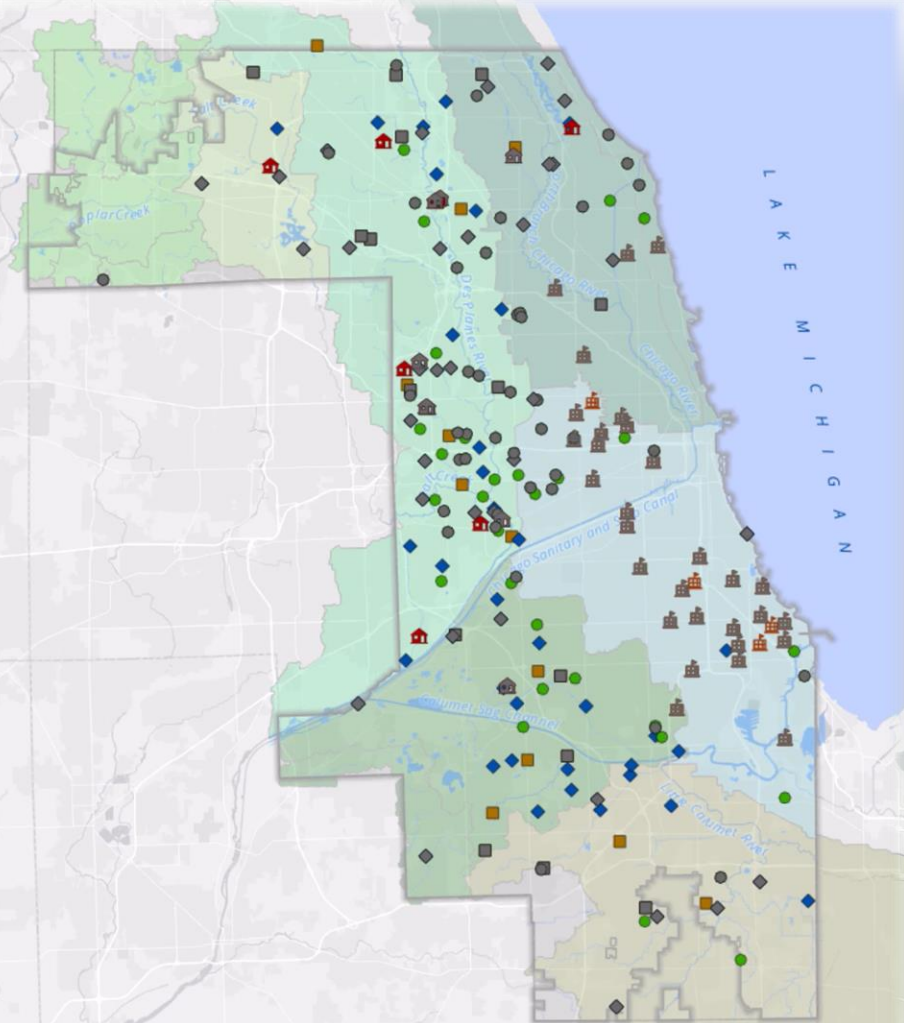
# Stormwater Partnership Projects

## Stormwater Program to-date

Program Component	Current Number of Projects	Structures Protected / Removed	Construction / Acquisition Cost (\$Millions)	MWRD Cost (\$Millions)
Regional Stormwater Projects (Phase I)	27	4,423	\$369	\$315
Local Stormwater Partnership Projects (Phase II)	67	>7,000	\$206	\$109
Green Infrastructure Projects	119*	5,382	\$114	\$35
Flood Prone Property Acquisitions	16	220	\$69	\$47
<b>Totals</b>	<b>229</b>	<b>&gt;17,000</b>	<b>\$758</b>	<b>\$506</b>

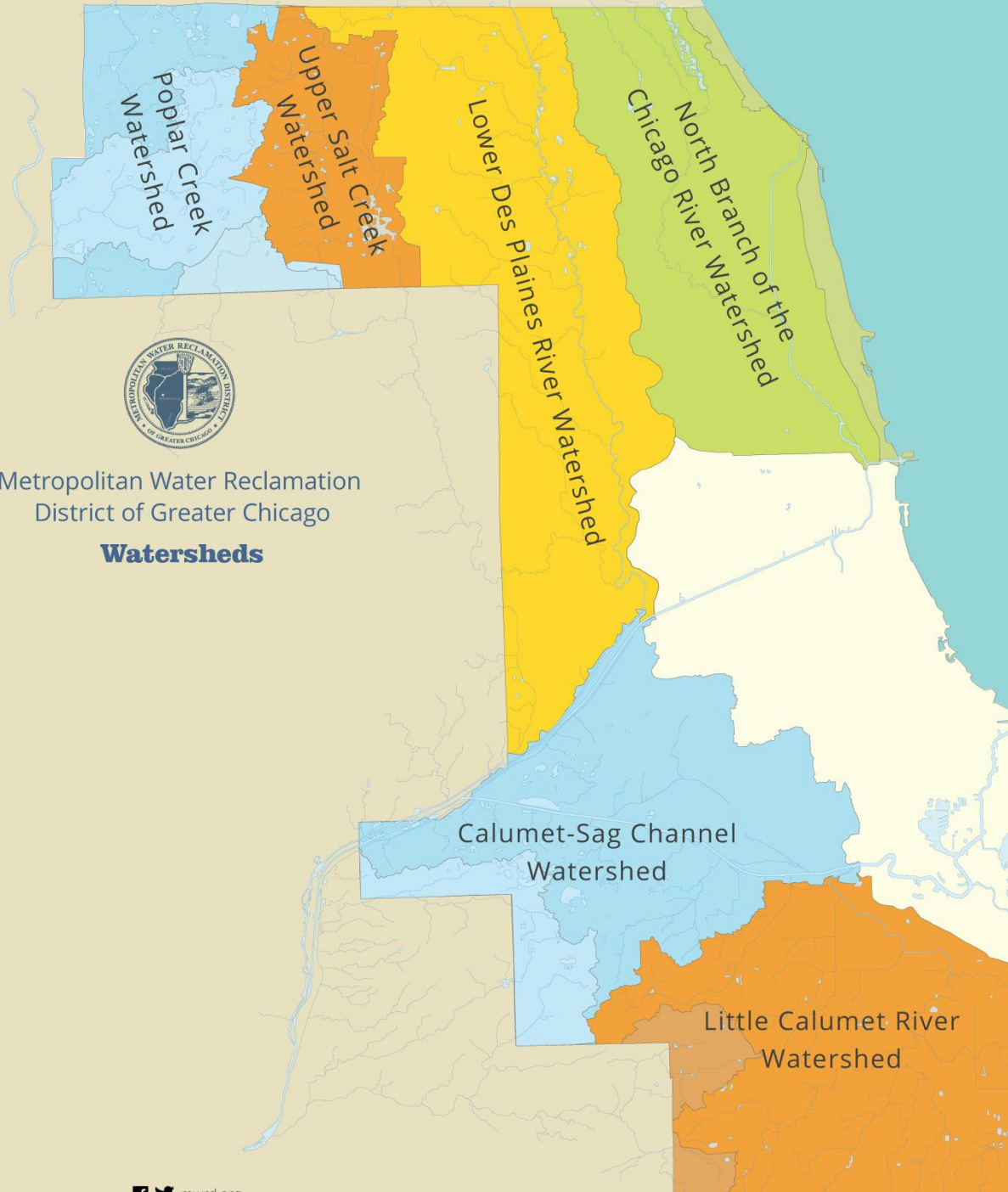
\*Includes all 34 Space to Grow projects to be completed by 2022.

See <https://mwr.org/stormwater-management> for more info





6 Major  
Watersheds  
Over 900  
square miles,  
& 125  
Communities,  
Combined  
sewer areas  
comprise 375  
square miles  
served by  
TARP



Metropolitan Water Reclamation  
District of Greater Chicago  
**Watersheds**



# REGIONAL STORMWATER MANAGEMENT PROJECT HIGHLIGHTS

**Heritage Park Flood Control Facility in Wheeling (2015)**

**Elmwood Park Floodwall (2015)**

**Upper Salt Creek Flood Control Project in Palatine (2016)**

**Tinley Creek Flood Control Project in Crestwood (2016)**

**Albany Park Diversion Tunnel (2018)**

**Melvina Ditch Reservoir Expansion (2020)**

**Cherry Creek Flood Control Project in Flossmoor (2020)**

**Buffalo Creek Reservoir Expansion (2021)**

**Lake Arrowhead Flood Control Project in Palos Heights (2022)**

**Calumet Union Drainage Ditch in Markham (2022)**

**Addison Creek Reservoir (2023) & Channel Improvements (2025)**

**Farmers & Prairie Creeks Flood Control Project (2025)**



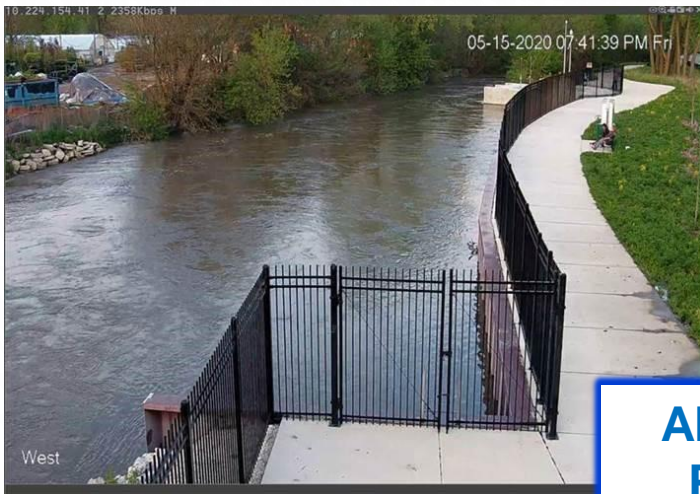
# REGIONAL STORMWATER MANAGEMENT PROJECTS



**Heritage Park**



**Upper Salt Creek**



**Albany Park**





# REGIONAL STORMWATER MANAGEMENT PROJECTS

## Tinley Creek Flood Control Project in Crestwood





# REGIONAL STORMWATER MANAGEMENT PROJECTS

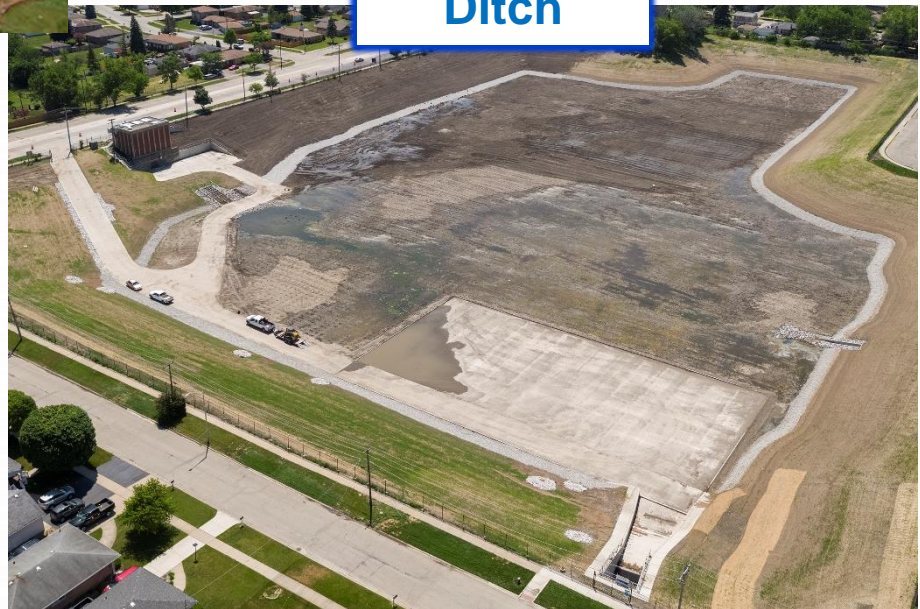
**Lake Arrowhead**



**Melvina Ditch**



**Cherry Creek**





# KEY STEPS FOR REGIONAL STORMWATER MANAGEMENT PROJECTS

- **DWP / Preliminary Design**
- **Intergovernmental Agreements**
- **Final Design**
- **ROW – Easements, Property Acquisition**
- **Permits – USACE, IDNR, IEPA, SWCD**
- **Utility Coordination**
- **Construction**
- **Startup / Vegetation Establishment**
- **Flood Map Revisions**



# BUFFALO CREEK RESERVOIR EXPANSION





# BUFFALO CREEK RESERVOIR 1982-1988







# BUFFALO CREEK RESERVOIR 1988-2018



Emergency Spillway

Auxiliary Spillway

Lower Pool (Elev. 688.1)

48" RCP Principal Spillway



# BUFFALO CREEK RESERVOIR 1988-2018



Spillways

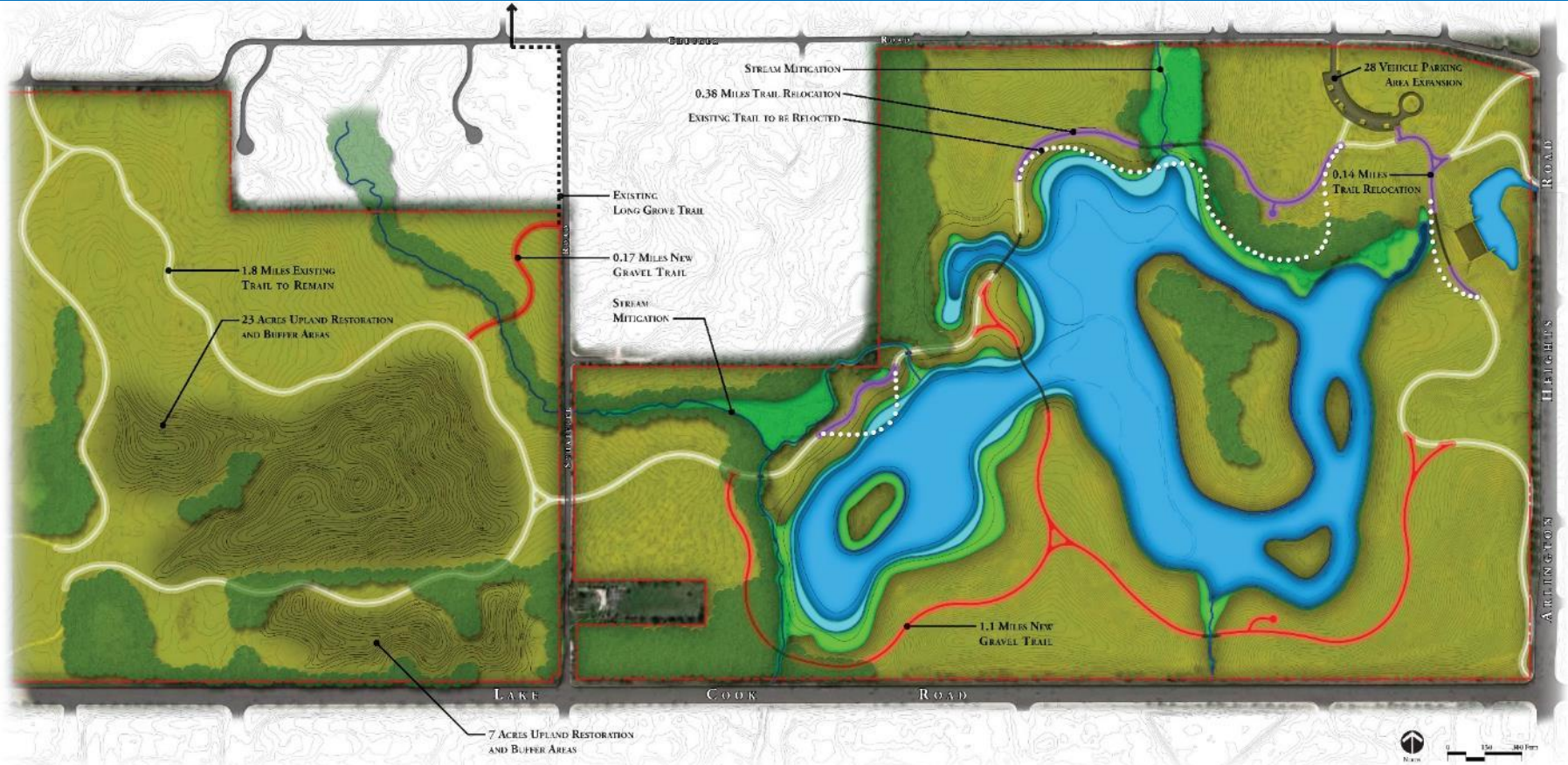
Lower Pool (Elev. 688.1)

Gabion Drop Structure

Upper Pool (Elev. 693.0)



# PLANS FOR EXPANSION



PREPARED FOR:



METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

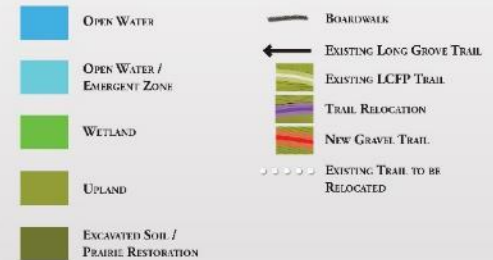
PROPERTY OWNER:



PREPARED BY:



	FINAL CONFIGURATION	EXISTING CONDITIONS	INCREASE
FLOOD VOLUME AT ELEVATION 702:	935.8 ACRE-FEET	755.1 ACRE-FEET	180.7 ACRE-FEET
OPEN WATER AREA:	40.1 ACRES	33.8 ACRES	6.3 ACRES
EMERGENT ZONE AREA:	4.5 ACRES	-----	4.5 ACRES
WETLAND AREA:	14.8 ACRES	14.1 ACRES	0.7 ACRES
TRAIL (EAST OF SCHAEFFER RD):	2.8 MILES	1.7 MILES	1.1 MILES
TRAIL (WEST OF SCHAEFFER RD):	1.97 MILES	1.8 MILES	0.17 MILES





# STAKEHOLDERS AND PERMITTING



LAKE COUNTY  
FOREST PRESERVES



LakeCounty  
Division of Transportation



THE VILLAGE OF  
Buffalo Grove  
ILLINOIS



ILLINOIS HISTORIC  
*Preservation*  
AGENCY



HISTORIC DOWNTOWN  
*Long Grove*



STORMWATER MANAGEMENT COMMISSION



US Army Corps  
of Engineers®  
Chicago District



# BIDDING AND AWARD

- Contract was advertised on November 1, 2017. Six bids were submitted ranging from \$9.7M to \$16.2M
- Contract was awarded to Lake County Grading Company on February 15, 2018 for \$9,678,900.00
- Contract duration is 2,557 days which allows for 2 years of reservoir construction and concurrent 3-year (general restoration) and 5-year (stream mitigation) monitoring and management periods





# DEWATERING FOR CONSTRUCTION





# DEWATERING FOR CONSTRUCTION





# RESERVOIR EXPANSION



New Trail  
(Under  
Construction)

Lake Cook Rd.

Trib 'A'

Haul  
Route

Island  
Removed

Existing  
Trail  
(Open)

Diversion  
Ditch

Upper Pool





# RESERVOIR EXPANSION

- Spoil material from reservoir construction used to create hills (6 to 25 feet high) that were planted with native prairie seed





# CHANNEL STABILIZATION

- Stone grade control structure at West Unnamed Tributary
- Installation of sheet pile and riprap grade control structure on Tributary A





# WETLAND AND STREAM MITIGATION

- Construction of the project necessitated unavoidable impacts to 2.70 acres of wetland and 339 feet of tributary stream channel under USACE jurisdiction
- MWRD and LCFPD entered into separate IGA for LCFPD to perform offsite wetland mitigation at Captain Daniel Wright Woods Forest Preserve
- Stream Mitigation consisting of selective clearing, grading banks, riffle enhancements, and native vegetation completed on 400 feet of the Main Stem and 1,200 feet of the West Unnamed Tributary





# NATURAL AREA IMPROVEMENTS

- Site restored with native prairie, terraced wetlands, and a naturalized shoreline





# NATURAL AREA IMPROVEMENTS





# NATURAL AREA IMPROVEMENTS

- 850 native trees and 200 native shrubs planted on site





# PUBLIC ACCESS IMPROVEMENTS

- 7 timber bridges/boardwalks
- 29 space parking lot expansion
- 2 pedestrian overlooks
- Over 2 miles of new or reconstructed trails
- 2 new benches





# MONITORING & MANAGEMENT

- 3 years: Non-mitigation (BMPs, buffers, etc.) areas
- 5 years: On-site (stream) mitigation areas







# Metropolitan Water Reclamation District of Greater Chicago

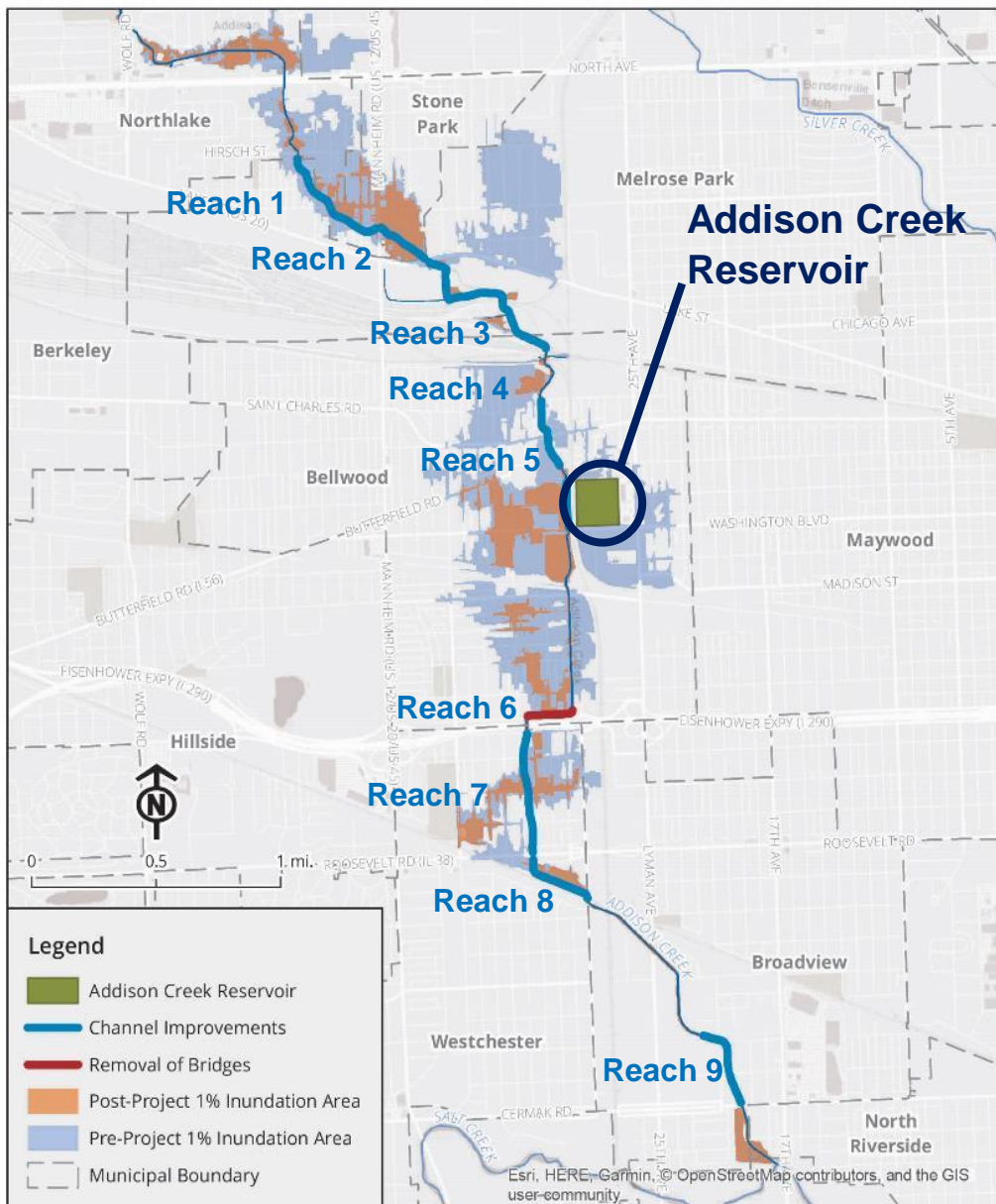
## Addison Creek Reservoir

Mick Cosme, PE, CFM  
Senior Civil Engineer  
Stromwater Management

November 18, 2022



# ADDISON CREEK RESERVOIR & CHANNEL IMPROVEMENTS



- **Protects 2,200 Structures**
  - Northlake
  - Stone Park
  - Melrose Park
  - Bellwood
  - Westchester
  - Broadview
- **1,700 Structures Removed from the Floodplain**
- **\$116 Million in Flood Benefits**
- **Reservoir Stores 195 MG**
- **3 Miles of Channel Improvements**



# APRIL 2013 FLOOD

## Northlake - Morse Drive



### Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
- (6) 11.18 ft on 05/17/2020
- (7) 11.13 ft on 05/09/1990
- (8) 10.94 ft on 10/14/2017
- (9) 10.33 ft on 09/13/2008
- (10) 10.07 ft on 10/02/2006
- (11) 9.86 ft on 08/16/1997
- (12) 9.19 ft on 05/27/2019
- (13) 8.97 ft on 10/13/2001
- (14) 8.83 ft on 05/15/2020



### Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



# APRIL 2013 FLOOD

## Northlake – E. Hirsh St.



### Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
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Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



# APRIL 2013 FLOOD

## Northlake – 45<sup>th</sup> Ave



### Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
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Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



# APRIL 2013 FLOOD

## Stone Park – Mannheim Road



### Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
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- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
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Flood Categories (in feet)	
Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



# APRIL 2013 FLOOD

## Stone Park – 40<sup>th</sup> Ave



### Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
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### Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



# APRIL 2013 FLOOD

## Stone Park – Lake Street



### Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
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Flood Categories (in feet)	
Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates





# APRIL 2013 FLOOD

## Melrose Park– 37<sup>th</sup> Ave



### Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
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### Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



# APRIL 2013 FLOOD

## Bellwood – St. Charles Place



### Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois



- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
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### Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



# APRIL 2013 FLOOD

## Bellwood – Butterfield Road



### Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
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### Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



# APRIL 2013 FLOOD

## Bellwood – Van Buren Street



### Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
- (6) 11.18 ft on 05/17/2020
- (7) 11.13 ft on 05/09/1990
- (8) 10.94 ft on 10/14/2017
- (9) 10.33 ft on 09/13/2008
- (10) 10.07 ft on 10/02/2006
- (11) 9.86 ft on 08/16/1997
- (12) 9.19 ft on 05/27/2019
- (13) 8.97 ft on 10/13/2001
- (14) 8.83 ft on 05/15/2020



### Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



# APRIL 2013 FLOOD

## Bellwood – Harrison Street



### Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
- (6) 11.18 ft on 05/17/2020
- (7) 11.13 ft on 05/09/1990
- (8) 10.94 ft on 10/14/2017
- (9) 10.33 ft on 09/13/2008
- (10) 10.07 ft on 10/02/2006
- (11) 9.86 ft on 08/16/1997
- (12) 9.19 ft on 05/27/2019
- (13) 8.97 ft on 10/13/2001
- (14) 8.83 ft on 05/15/2020



### Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



# APRIL 2013 FLOOD

## Westchester – Suffolk Ave



### Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
- (6) 11.18 ft on 05/17/2020
- (7) 11.13 ft on 05/09/1990
- (8) 10.94 ft on 10/14/2017
- (9) 10.33 ft on 09/13/2008
- (10) 10.07 ft on 10/02/2006
- (11) 9.86 ft on 08/16/1997
- (12) 9.19 ft on 05/27/2019
- (13) 8.97 ft on 10/13/2001
- (14) 8.83 ft on 05/15/2020



### Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



# APRIL 2013 FLOOD

## Westchester – Norfolk Ave



### Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
- (6) 11.18 ft on 05/17/2020
- (7) 11.13 ft on 05/09/1990
- (8) 10.94 ft on 10/14/2017
- (9) 10.33 ft on 09/13/2008
- (10) 10.07 ft on 10/02/2006
- (11) 9.86 ft on 08/16/1997
- (12) 9.19 ft on 05/27/2019
- (13) 8.97 ft on 10/13/2001
- (14) 8.83 ft on 05/15/2020



### Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



# APRIL 2013 FLOOD

## Westchester – Norfolk Ave



### Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
- (6) 11.18 ft on 05/17/2020
- (7) 11.13 ft on 05/09/1990
- (8) 10.94 ft on 10/14/2017
- (9) 10.33 ft on 09/13/2008
- (10) 10.07 ft on 10/02/2006
- (11) 9.86 ft on 08/16/1997
- (12) 9.19 ft on 05/27/2019
- (13) 8.97 ft on 10/13/2001
- (14) 8.83 ft on 05/15/2020



### Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates





# APRIL 2013 FLOOD

## Westchester – Derby Lane



### Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
- (6) 11.18 ft on 05/17/2020
- (7) 11.13 ft on 05/09/1990
- (8) 10.94 ft on 10/14/2017
- (9) 10.33 ft on 09/13/2008
- (10) 10.07 ft on 10/02/2006
- (11) 9.86 ft on 08/16/1997
- (12) 9.19 ft on 05/27/2019
- (13) 8.97 ft on 10/13/2001
- (14) 8.83 ft on 05/15/2020



### Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



# APRIL 2013 FLOOD

## Broadview – Cermak Road



### Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
- (6) 11.18 ft on 05/17/2020
- (7) 11.13 ft on 05/09/1990
- (8) 10.94 ft on 10/14/2017
- (9) 10.33 ft on 09/13/2008
- (10) 10.07 ft on 10/02/2006
- (11) 9.86 ft on 08/16/1997
- (12) 9.19 ft on 05/27/2019
- (13) 8.97 ft on 10/13/2001
- (14) 8.83 ft on 05/15/2020



### Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Photo Credit: Hey & Associates



# DETAILED WATERSHED PLAN

Final Report

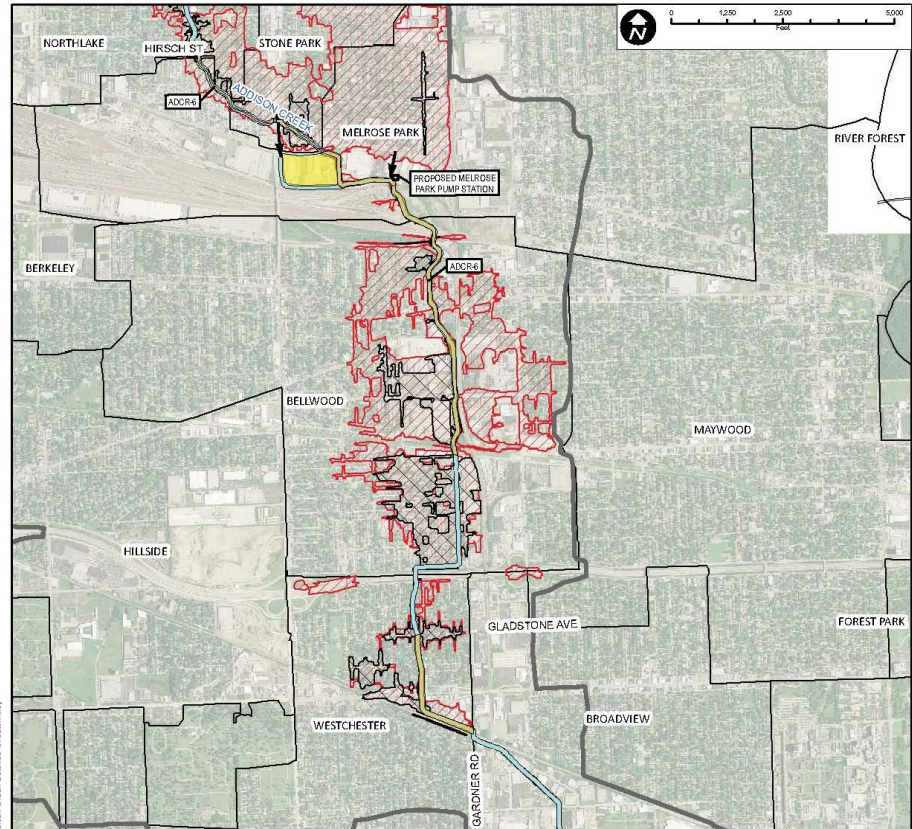
## Detailed Watershed Plan for the Lower Des Plaines River Watershed: Volume 1

Prepared for  
**Metropolitan Water Reclamation District of Greater Chicago**  
 February 28, 2011



Christopher B. Burke Engineering, Ltd.

Map Document: Z:\MWR\DC\06\048 Phase B\GIS\Habitat\Map\Addison Creek\Detailed\Shaded.mxd



Subwatershed: Addison Creek  
 Alternative: ADCR-60  
 Alternatives Description: 960 A-F Reservoir southeast of Lake Street and Mannheim Road. Mannheim Pump Station modification force main extended to the Lake and Mannheim Tributary. New Melrose Park Pump Station with 3-20 cfs pumps following existing storm sewer alignment south of 33rd Avenue. Channel improvements from Hirsch Street to Madison Street and Gladstone to Gardiner Road. Mannheim Road culvert modification. Lake Street sediment removal.

Concept Level Cost: \$133,821,295  
 Benefits: \$186,463,022  
 B/C Ratio: 1.5

Legend		Problem Areas	
	100-Year Storm Event Flood Inundation Without Project		Culvert/Bridge Modification
	100-Year Storm Event Flood Inundation With Project		Channel Improvements
	Reservoir		Levee/Floodwall
	Approximate Creek Channel Location		Municipal Boundary
	Watershed Boundary		Modeled
			Regional

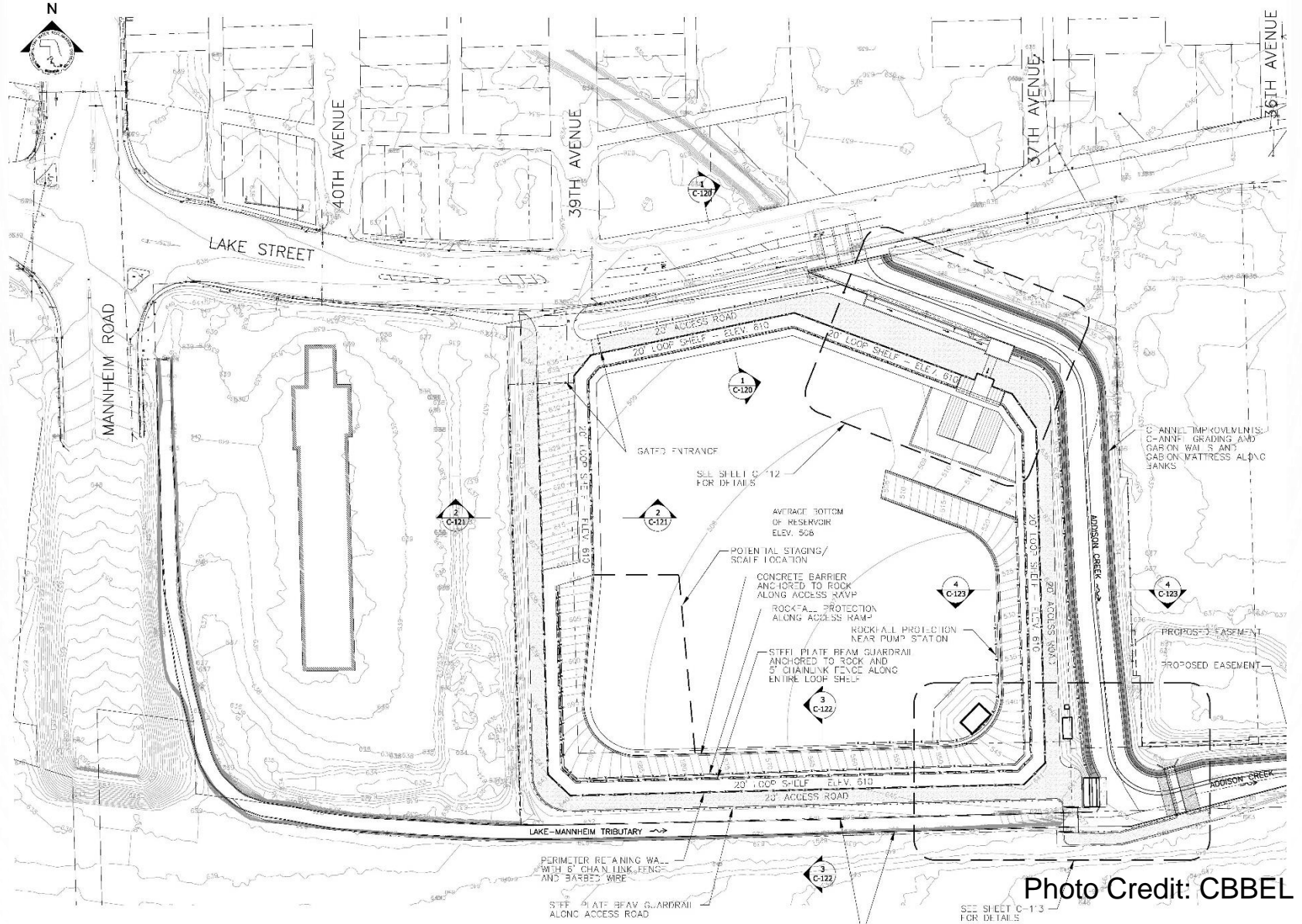
CLIENT: <b>METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO</b>	TITLE: <b>LOWER DES PLAINES RIVER DETAILED WATERSHED PLAN ADDISON CREEK WATERSHED RECOMMENDED ALTERNATIVE ADCR-6B</b>	PROJ. NO.: 08-0943 DATE: 05-23-2010 SHEET: 1 OF 1 DRAWING NO.:
--	--	---

<b>CHRISTOPHER B. BURKE ENGINEERING, LTD.</b> 9575 W. Higgins Road, Suite 600 · Rosemont, Illinois 60018 · (847) 823-0500	DESIGN	DRW 4-10	SCALE	
	DRAWN		GIS USER	DRW
	CHDR		PLOT DATE	
	FILE			

FIGURE 3.2.20



# PRELIMINARY DESIGN - MELROSE PARK SITE



BOT = 508.00 (AVERAGE)  
PROPOSED STORAGE VOLUME = 978 A-F (BELOW 630)

EXISTING CONCRETE RETAINING WALLS ALONG TRIBUTARY





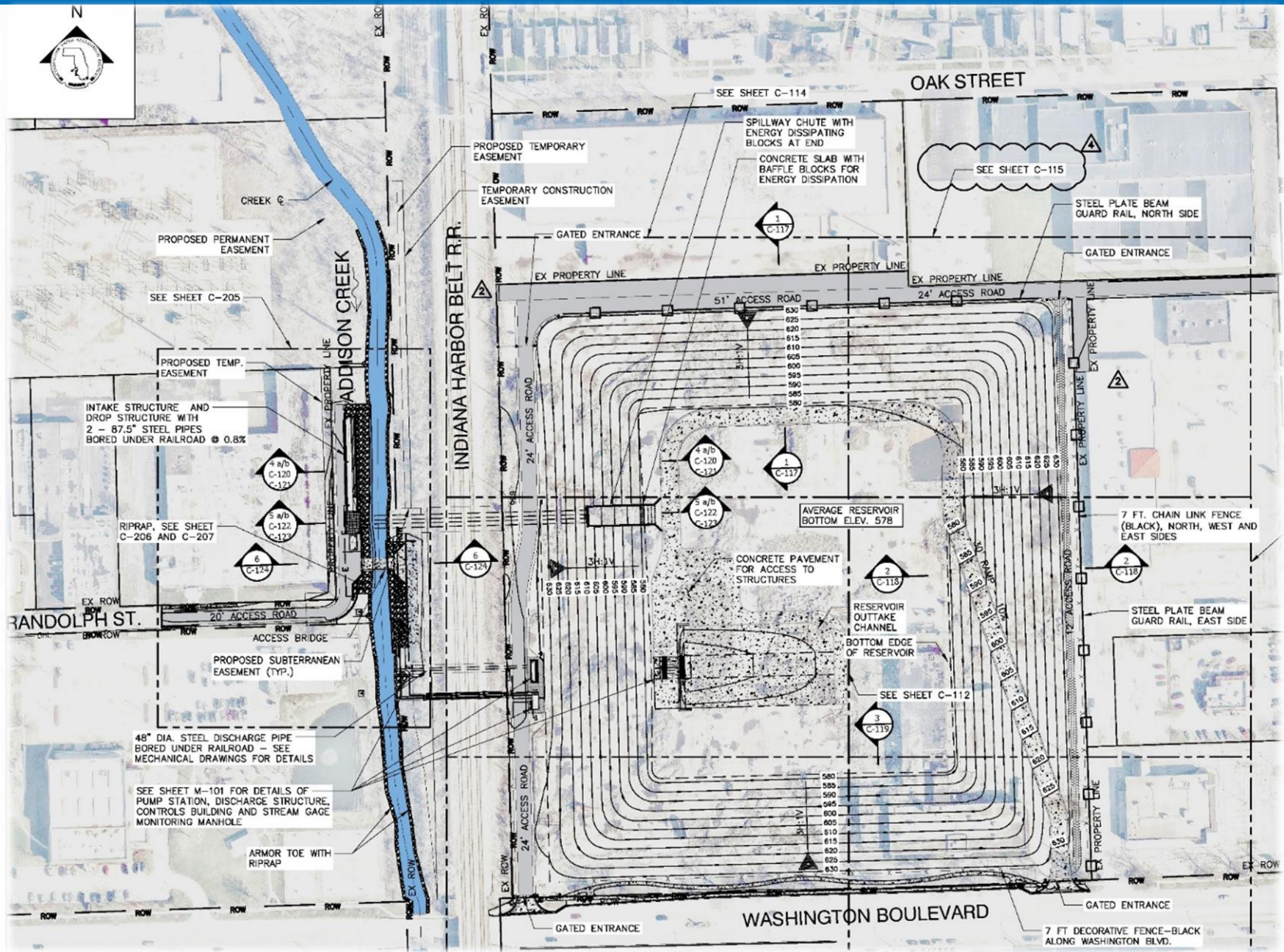
# PRELIMINARY DESIGN - MELROSE PARK SITE



Photo Credit: CBBEL



# FINAL DESIGN - BELLWOOD SITE





# STAKEHOLDERS AND CHALLENGES



Cuna



Nubani Brothers, LLC

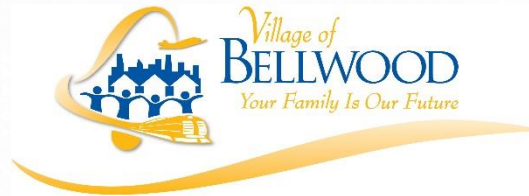


Nicor Gas

AT&T



EFN Bellwood Properties, LLC



ILLINOIS HISTORIC *Preservation* AGENCY



**US Army Corps of Engineers®**  
Chicago District



# REMOVAL OF PILES OF DEBRIS



Photo Credit: CBBEL





# REMOVAL OF THE DEBRIS PILE



- **JOC Contractor:**  
Meccor Industries Ltd
- **Awarded:**  
June 2017
- **Completed:**  
August 2017
- **Cost:**  
\$1.06 million



# RELOCATIONS OF UTILITIES



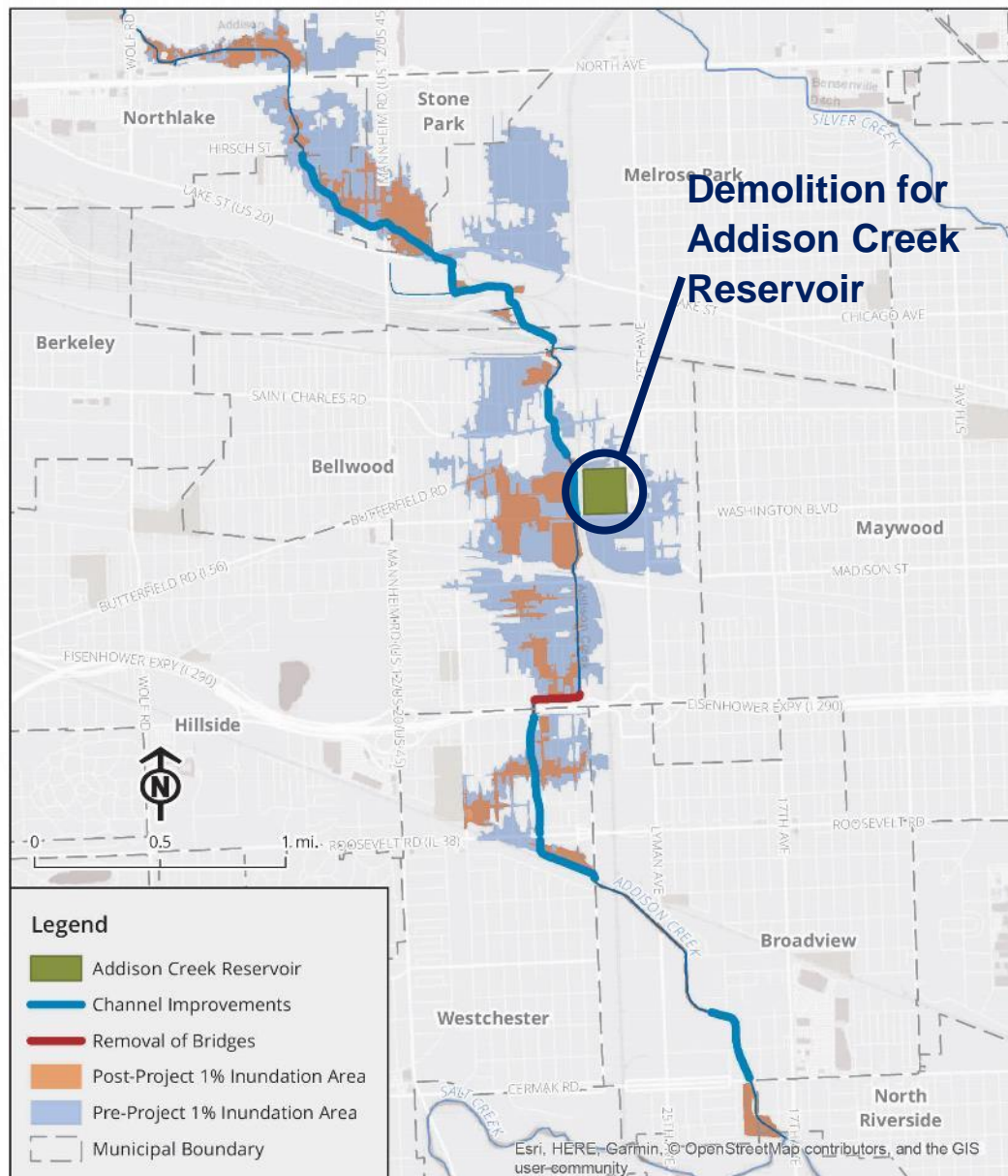
Google Earth



# DEMOLITION FOR ADDISON CREEK RESERVOIR

## Demolition for Addison Creek Reservoir

- **Contract:**  
11-186-AF
- **Contractor:**  
KLF Enterprises
- **Awarded:**  
March 2018
- **Completed:**  
May 2018 to July 2018
- **Cost w/ CORs:**  
App. \$274K





# DEMOLITION CONTRACT

3/2018

2795 Washington Blvd



Tank



Remaining Building

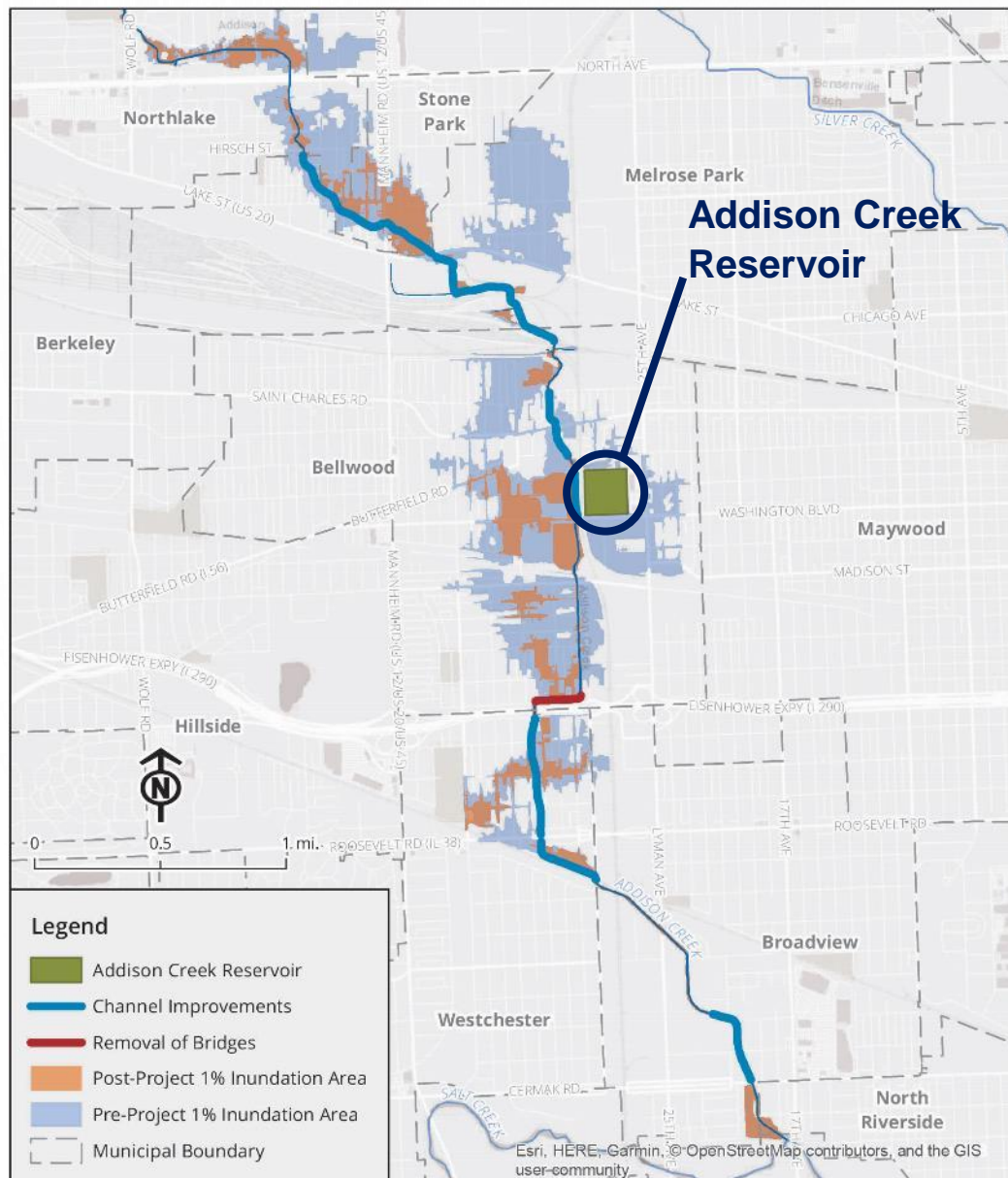


Garage

Google Earth



# ADDISON CREEK RESERVOIR



- **Contract:**  
11-186-3F
- **Contractor:**  
IHC Construction
- **Award Date:**  
January 2019
- **Completion Date:**  
Est. Summer 2023
- **Award Value:**  
\$63,280,000
- **Current Value w/ CORs:**  
\$81,291,388.93
- **Reservoir Capacity:**  
600 ac-ft or 195MG



OAK STREET

Spillway

Pump Station Wet Well

2- 87.5" Dia. Steel Intake Pipes

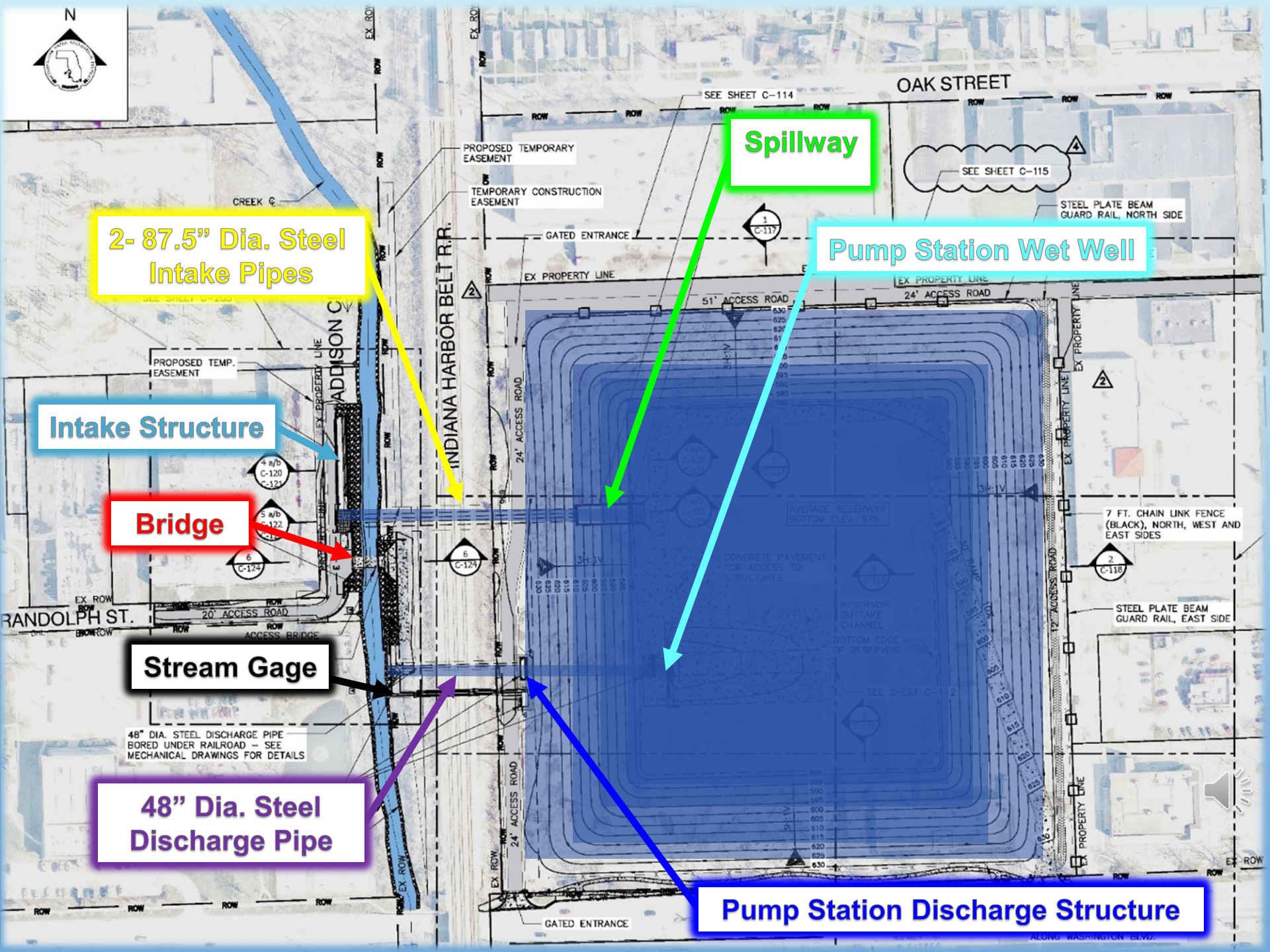
Intake Structure

Bridge

Stream Gage

48" Dia. Steel Discharge Pipe

Pump Station Discharge Structure



PROPOSED TEMPORARY EASEMENT

TEMPORARY CONSTRUCTION EASEMENT

GATED ENTRANCE

EX PROPERTY LINE

SEE SHEET C-114

SEE SHEET C-115

STEEL PLATE BEAM GUARD RAIL, NORTH SIDE

PROPOSED TEMP. EASEMENT

ADDISON CR.

INDIANA HARBOR BELT R.R.

51' ACCESS ROAD

24' ACCESS ROAD

EX PROPERTY LINE

7 FT. CHAIN LINK FENCE (BLACK), NORTH, WEST AND EAST SIDES

STEEL PLATE BEAM GUARD RAIL, EAST SIDE

RANDOLPH ST.

20' ACCESS ROAD

Stream Gage

48" DIA. STEEL DISCHARGE PIPE BORED UNDER RAILROAD - SEE MECHANICAL DRAWINGS FOR DETAILS

GATED ENTRANCE

ALONG WASHINGTON BLVD.



# SOIL BENTONITE CUT-OFF WALL

**BENTONITE IS  
INJECTED AND  
MIXES WITH THE  
NATIVE SOILS**

**A PERFECTLY  
HOMOGENIZED  
WALL IS CREATED  
IN PLACE**



Video Credit: Dewind



# SOIL BENTONITE CUT-OFF WALL



Video Credit: Dewind







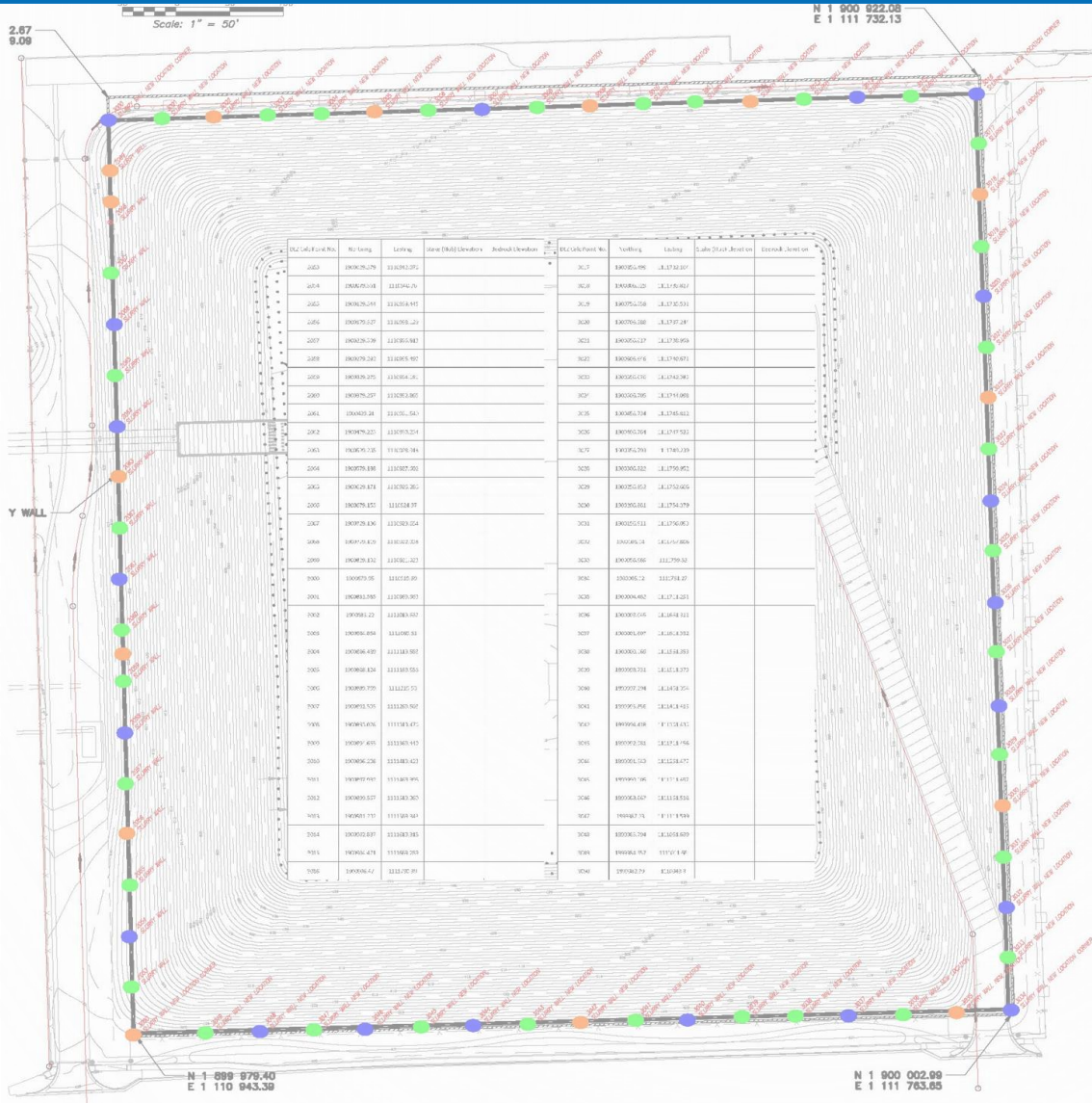
# SOIL BENTONITE CUT-OFF WALL



Video Credit: Dewind



# SOIL BENTONITE CUT-OFF WALL

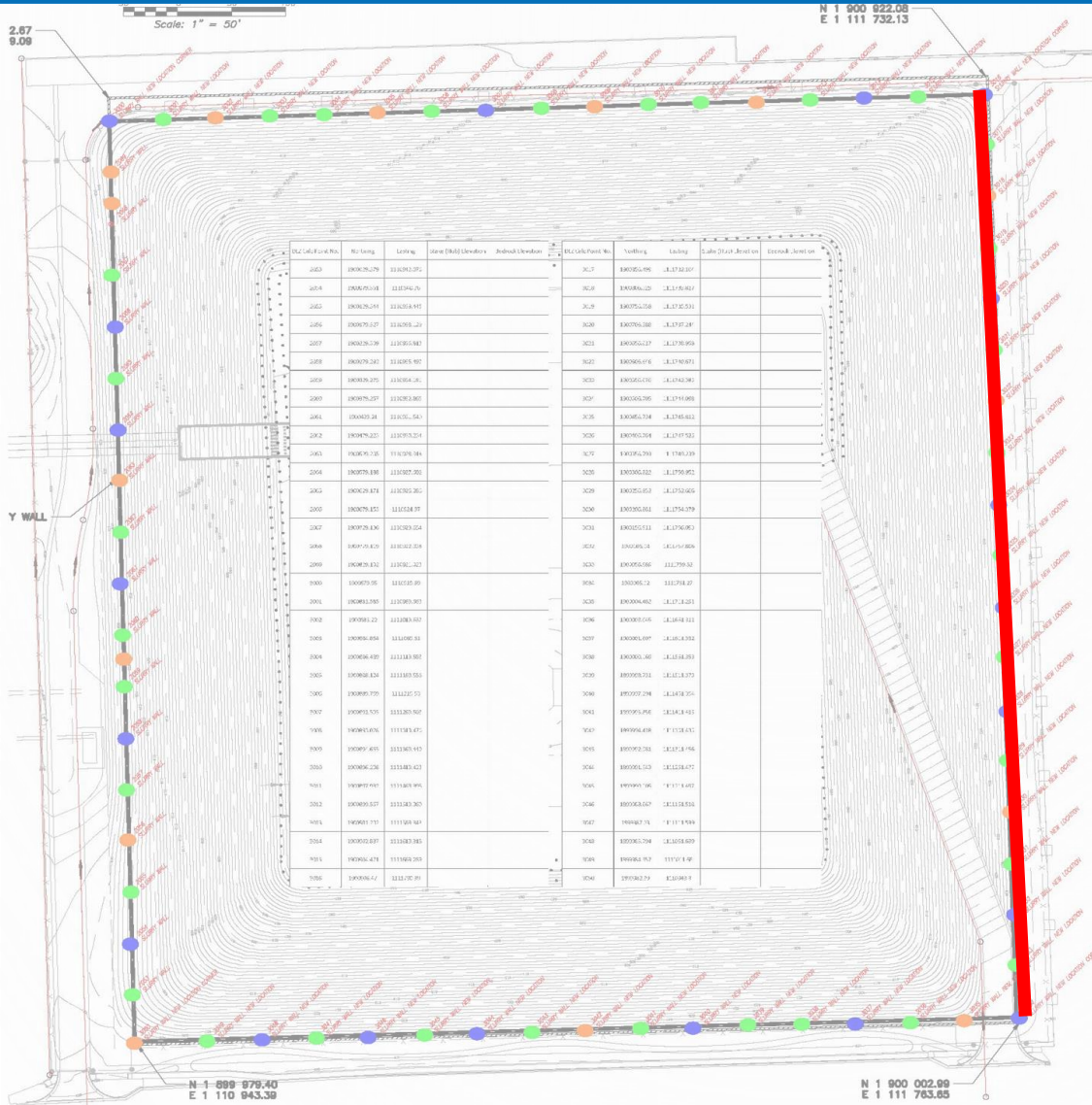


- = Rock Cores Already Completed
- = New Rock Core Locations
- = Roller Bit Locations

Location	Distance (ft)	Workdays	Average Production (ft/day)
East Wall	920	6	153.33
South Wall	838	5	167.60
West Wall	917	8	114.63
North Wall	830	7	118.57
Total Length	3505 ft	26	134.81



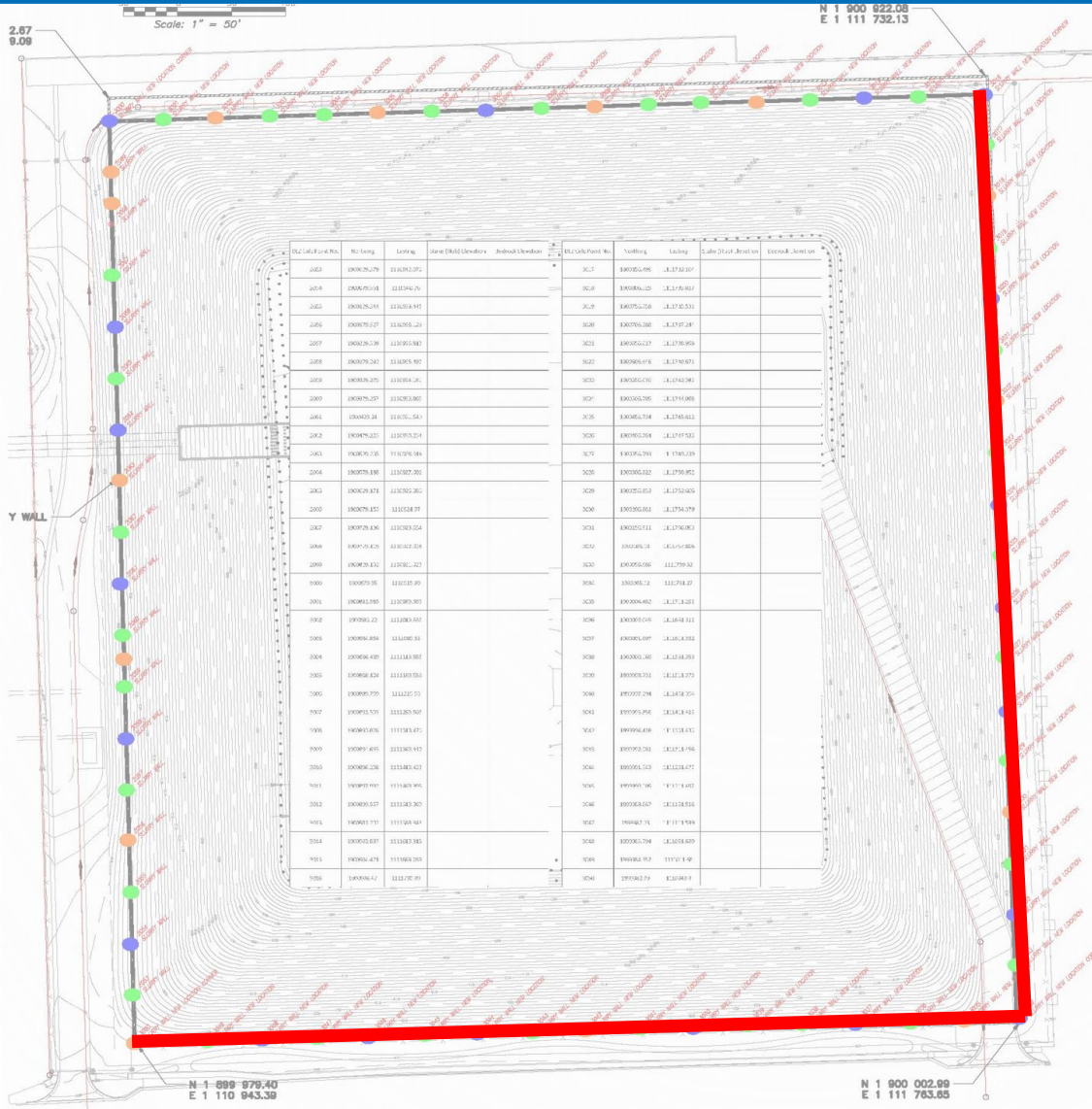
# SOIL BENTONITE CUT-OFF WALL



DC Core Log No.	No. Log	Logging	Date (M/D/Year)	Drillbit Location	REG Log Point No.	Northing	Easting	Tube (Diam./Depth)	Drillbit Location
203	100076379	11/06/12	11/06/12		3C2	180765.09	-113718.07		
204	100076378	11/06/12	11/06/12		3C3	180764.12	-113718.07		
205	100076374	11/06/12	11/06/12		3C4	180763.78	-113718.07		
206	100076371	11/06/12	11/06/12		3C5	180763.38	-113718.07		
207	100076377	11/06/12	11/06/12		3C6	180763.38	-113718.07		
208	100076376	11/06/12	11/06/12		3C7	180763.27	-113718.07		
209	100076381	11/06/12	11/06/12		3C8	180763.07	-113718.07		
210	100076375	11/06/12	11/06/12		3C9	180762.01	-113718.07		
211	100076377	11/06/12	11/06/12		3C10	180762.09	-113718.07		
212	100076374	11/06/12	11/06/12		3C11	180761.74	-113718.07		
213	100076375	11/06/12	11/06/12		3C12	180761.74	-113718.07		
214	100076373	11/06/12	11/06/12		3C13	180761.34	-113718.07		
215	100076376	11/06/12	11/06/12		3C14	180761.34	-113718.07		
216	100076376	11/06/12	11/06/12		3C15	180761.34	-113718.07		
217	100076373	11/06/12	11/06/12		3C16	180760.94	-113718.07		
218	100076376	11/06/12	11/06/12		3C17	180760.74	-113718.07		
219	100076381	11/06/12	11/06/12		3C18	180760.32	-113718.07		
220	100076374	11/06/12	11/06/12		3C19	180759.82	-113718.07		
221	100076377	11/06/12	11/06/12		3C20	180759.82	-113718.07		
222	100076375	11/06/12	11/06/12		3C21	180759.82	-113718.07		
223	100076373	11/06/12	11/06/12		3C22	180759.42	-113718.07		
224	100076376	11/06/12	11/06/12		3C23	180759.02	-113718.07		
225	100076376	11/06/12	11/06/12		3C24	180758.62	-113718.07		
226	100076373	11/06/12	11/06/12		3C25	180758.22	-113718.07		
227	100076376	11/06/12	11/06/12		3C26	180757.82	-113718.07		
228	100076376	11/06/12	11/06/12		3C27	180757.42	-113718.07		
229	100076373	11/06/12	11/06/12		3C28	180757.02	-113718.07		
230	100076376	11/06/12	11/06/12		3C29	180756.62	-113718.07		
231	100076376	11/06/12	11/06/12		3C30	180756.22	-113718.07		
232	100076373	11/06/12	11/06/12		3C31	180755.82	-113718.07		
233	100076376	11/06/12	11/06/12		3C32	180755.42	-113718.07		
234	100076376	11/06/12	11/06/12		3C33	180755.02	-113718.07		
235	100076373	11/06/12	11/06/12		3C34	180754.62	-113718.07		
236	100076376	11/06/12	11/06/12		3C35	180754.22	-113718.07		
237	100076376	11/06/12	11/06/12		3C36	180753.82	-113718.07		
238	100076373	11/06/12	11/06/12		3C37	180753.42	-113718.07		
239	100076376	11/06/12	11/06/12		3C38	180753.02	-113718.07		
240	100076376	11/06/12	11/06/12		3C39	180752.62	-113718.07		
241	100076373	11/06/12	11/06/12		3C40	180752.22	-113718.07		
242	100076376	11/06/12	11/06/12		3C41	180751.82	-113718.07		
243	100076376	11/06/12	11/06/12		3C42	180751.42	-113718.07		
244	100076373	11/06/12	11/06/12		3C43	180751.02	-113718.07		
245	100076376	11/06/12	11/06/12		3C44	180750.62	-113718.07		
246	100076376	11/06/12	11/06/12		3C45	180750.22	-113718.07		
247	100076373	11/06/12	11/06/12		3C46	180749.82	-113718.07		
248	100076376	11/06/12	11/06/12		3C47	180749.42	-113718.07		
249	100076376	11/06/12	11/06/12		3C48	180749.02	-113718.07		
250	100076373	11/06/12	11/06/12		3C49	180748.62	-113718.07		
251	100076376	11/06/12	11/06/12		3C50	180748.22	-113718.07		
252	100076376	11/06/12	11/06/12		3C51	180747.82	-113718.07		
253	100076373	11/06/12	11/06/12		3C52	180747.42	-113718.07		
254	100076376	11/06/12	11/06/12		3C53	180747.02	-113718.07		
255	100076376	11/06/12	11/06/12		3C54	180746.62	-113718.07		
256	100076373	11/06/12	11/06/12		3C55	180746.22	-113718.07		
257	100076376	11/06/12	11/06/12		3C56	180745.82	-113718.07		
258	100076376	11/06/12	11/06/12		3C57	180745.42	-113718.07		
259	100076373	11/06/12	11/06/12		3C58	180745.02	-113718.07		
260	100076376	11/06/12	11/06/12		3C59	180744.62	-113718.07		
261	100076376	11/06/12	11/06/12		3C60	180744.22	-113718.07		
262	100076373	11/06/12	11/06/12		3C61	180743.82	-113718.07		
263	100076376	11/06/12	11/06/12		3C62	180743.42	-113718.07		
264	100076376	11/06/12	11/06/12		3C63	180743.02	-113718.07		
265	100076373	11/06/12	11/06/12		3C64	180742.62	-113718.07		
266	100076376	11/06/12	11/06/12		3C65	180742.22	-113718.07		
267	100076376	11/06/12	11/06/12		3C66	180741.82	-113718.07		
268	100076373	11/06/12	11/06/12		3C67	180741.42	-113718.07		
269	100076376	11/06/12	11/06/12		3C68	180741.02	-113718.07		
270	100076376	11/06/12	11/06/12		3C69	180740.62	-113718.07		
271	100076373	11/06/12	11/06/12		3C70	180740.22	-113718.07		
272	100076376	11/06/12	11/06/12		3C71	180739.82	-113718.07		
273	100076376	11/06/12	11/06/12		3C72	180739.42	-113718.07		
274	100076373	11/06/12	11/06/12		3C73	180739.02	-113718.07		
275	100076376	11/06/12	11/06/12		3C74	180738.62	-113718.07		
276	100076376	11/06/12	11/06/12		3C75	180738.22	-113718.07		
277	100076373	11/06/12	11/06/12		3C76	180737.82	-113718.07		
278	100076376	11/06/12	11/06/12		3C77	180737.42	-113718.07		
279	100076376	11/06/12	11/06/12		3C78	180737.02	-113718.07		
280	100076373	11/06/12	11/06/12		3C79	180736.62	-113718.07		
281	100076376	11/06/12	11/06/12		3C80	180736.22	-113718.07		
282	100076376	11/06/12	11/06/12		3C81	180735.82	-113718.07		
283	100076373	11/06/12	11/06/12		3C82	180735.42	-113718.07		
284	100076376	11/06/12	11/06/12		3C83	180735.02	-113718.07		
285	100076376	11/06/12	11/06/12		3C84	180734.62	-113718.07		
286	100076373	11/06/12	11/06/12		3C85	180734.22	-113718.07		
287	100076376	11/06/12	11/06/12		3C86	180733.82	-113718.07		
288	100076376	11/06/12	11/06/12		3C87	180733.42	-113718.07		
289	100076373	11/06/12	11/06/12		3C88	180733.02	-113718.07		
290	100076376	11/06/12	11/06/12		3C89	180732.62	-113718.07		
291	100076376	11/06/12	11/06/12		3C90	180732.22	-113718.07		
292	100076373	11/06/12	11/06/12		3C91	180731.82	-113718.07		
293	100076376	11/06/12	11/06/12		3C92	180731.42	-113718.07		
294	100076376	11/06/12	11/06/12		3C93	180731.02	-113718.07		
295	100076373	11/06/12	11/06/12		3C94	180730.62	-113718.07		
296	100076376	11/06/12	11/06/12		3C95	180730.22	-113718.07		
297	100076376	11/06/12	11/06/12		3C96	180729.82	-113718.07		
298	100076373	11/06/12	11/06/12		3C97	180729.42	-113718.07		
299	100076376	11/06/12	11/06/12		3C98	180729.02	-113718.07		
300	100076376	11/06/12	11/06/12		3C99	180728.62	-113718.07		
301	100076373	11/06/12	11/06/12		3C100	180728.22	-113718.07		
302	100076376	11/06/12	11/06/12		3C101	180727.82	-113718.07		
303	100076376	11/06/12	11/06/12		3C102	180727.42	-113718.07		
304	100076373	11/06/12	11/06/12		3C103	180727.02	-113718.07		
305	100076376	11/06/12	11/06/12		3C104	180726.62	-113718.07		
306	100076376	11/06/12	11/06/12		3C105	180726.22	-113718.07		
307	100076373	11/06/12	11/06/12		3C106	180725.82	-113718.07		
308	100076376	11/06/12	11/06/12		3C107	180725.42	-113718.07		
309	100076376	11/06/12	11/06/12		3C108	180725.02	-113718.07		
310	100076373	11/06/12	11/06/12		3C109	180724.62	-113718.07		
311	100076376	11/06/12	11/06/12		3C110	180724.22	-113718.07		
312	100076376	11/06/12	11/06/12		3C111	180723.82	-113718.07		
313	100076373	11/06/12	11/06/12		3C112	180723.42	-113718.07		
314	100076376	11/06/12	11/06/12		3C113	180723.02	-113718.07		
315	100076376	11/06/12	11/06/12		3C114	180722.62	-113718.07		
316	100076373	11/06/12	11/06/12		3C115	180722.22	-113718.07		
317	100076376	11/06/12	11/06/12		3C116	180721.82	-113718.07		
318	100076376	11/06/12	11/06/12		3C117	180721.42	-113718.07		
319	100076373	11/06/12	11/06/						



# SOIL BENTONITE CUT-OFF WALL

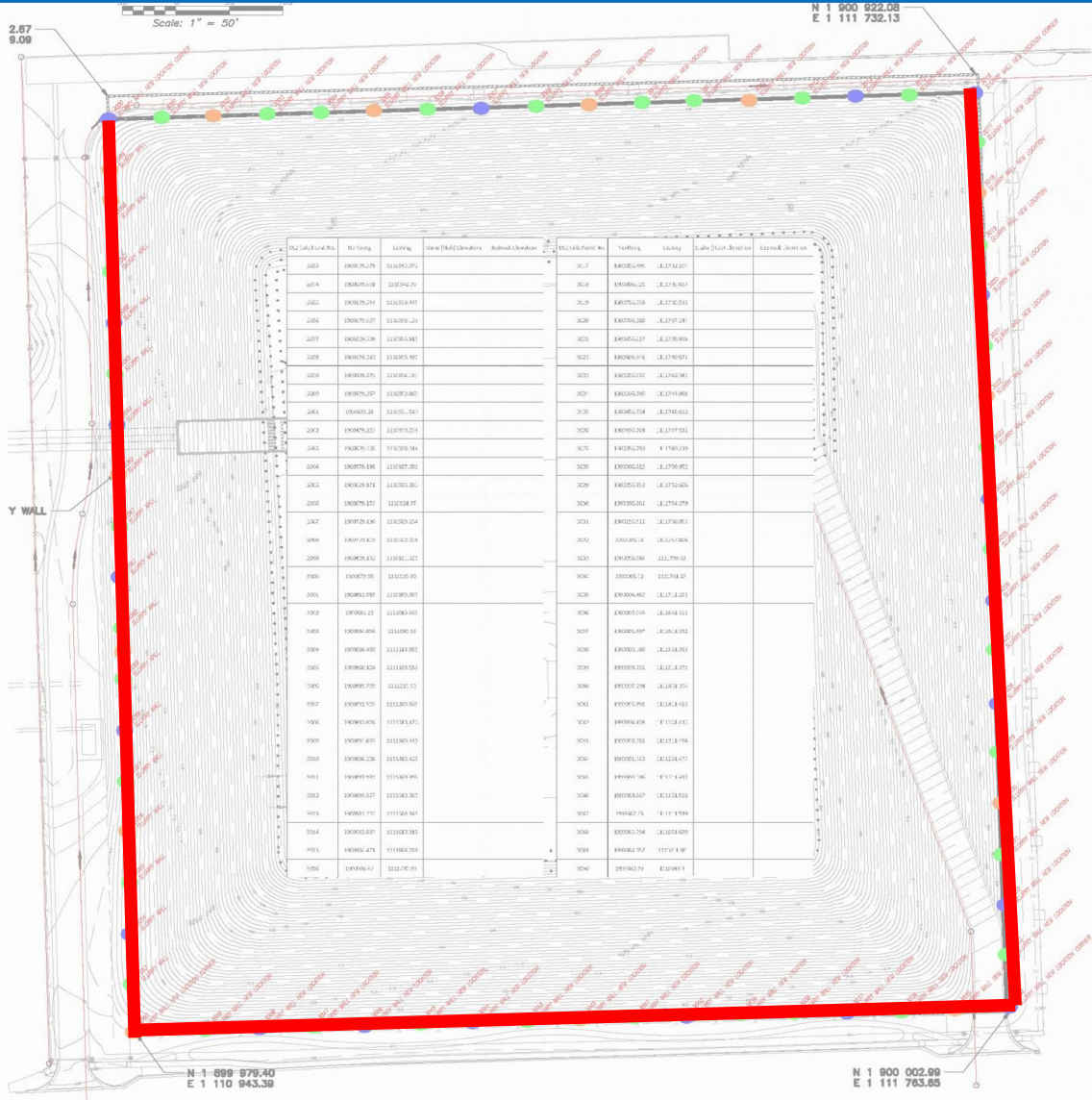


- = Rock Cores Already Completed
- = New Rock Core Locations
- = Roller Bit Locations

Location	Distance (ft)	Workdays	Average Production (ft/day)
East Wall	920	6	153.33
South Wall	838	5	167.60
West Wall	917	8	114.63
North Wall	830	7	118.57
<b>Total Length</b>	<b>3505 ft</b>	<b>26</b>	<b>134.81</b>



# SOIL BENTONITE CUT-OFF WALL

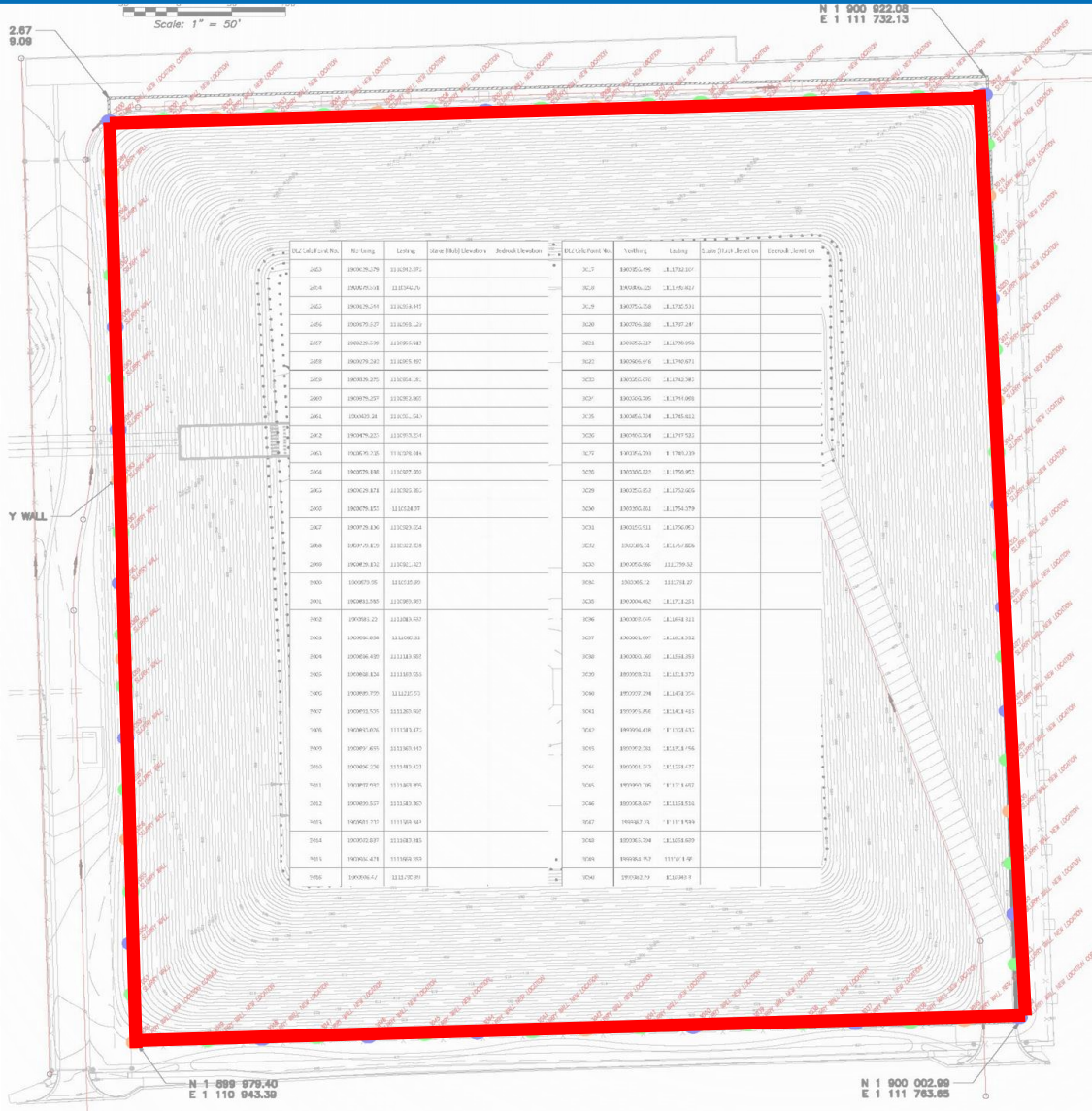


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# SOIL BENTONITE CUT-OFF WALL



Station	Easting	Northing	Station	Easting	Northing
2003	100075.079	111020.070	2017	100075.079	111020.070
2004	100075.079	111020.070	2018	100075.079	111020.070
2005	100075.079	111020.070	2019	100075.079	111020.070
2006	100075.079	111020.070	2020	100075.079	111020.070
2007	100075.079	111020.070	2021	100075.079	111020.070
2008	100075.079	111020.070	2022	100075.079	111020.070
2009	100075.079	111020.070	2023	100075.079	111020.070
2010	100075.079	111020.070	2024	100075.079	111020.070
2011	100075.079	111020.070	2025	100075.079	111020.070
2012	100075.079	111020.070	2026	100075.079	111020.070
2013	100075.079	111020.070	2027	100075.079	111020.070
2014	100075.079	111020.070	2028	100075.079	111020.070
2015	100075.079	111020.070	2029	100075.079	111020.070
2016	100075.079	111020.070	2030	100075.079	111020.070
2017	100075.079	111020.070	2031	100075.079	111020.070
2018	100075.079	111020.070	2032	100075.079	111020.070
2019	100075.079	111020.070	2033	100075.079	111020.070
2020	100075.079	111020.070	2034	100075.079	111020.070
2021	100075.079	111020.070	2035	100075.079	111020.070
2022	100075.079	111020.070	2036	100075.079	111020.070
2023	100075.079	111020.070	2037	100075.079	111020.070
2024	100075.079	111020.070	2038	100075.079	111020.070
2025	100075.079	111020.070	2039	100075.079	111020.070
2026	100075.079	111020.070	2040	100075.079	111020.070
2027	100075.079	111020.070	2041	100075.079	111020.070
2028	100075.079	111020.070	2042	100075.079	111020.070
2029	100075.079	111020.070	2043	100075.079	111020.070
2030	100075.079	111020.070	2044	100075.079	111020.070
2031	100075.079	111020.070	2045	100075.079	111020.070
2032	100075.079	111020.070	2046	100075.079	111020.070
2033	100075.079	111020.070	2047	100075.079	111020.070
2034	100075.079	111020.070	2048	100075.079	111020.070
2035	100075.079	111020.070	2049	100075.079	111020.070
2036	100075.079	111020.070	2050	100075.079	111020.070

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Washington Blvd

Washington Blvd

Google Earth

Imagery Date: 10/8/2019 41852150.701' N - 87851150.241' W scale: 0.5 ft = 1 inch 1640 ft



# SOIL BENTONITE CUT-OFF WALL



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Image © 2022 Maxar Technologies

N 1 889 975.40  
E 1 110 943.39

N 1 900 922.08  
E 1 111 732.13

Google Earth





# SOIL BENTONITE CUT-OFF WALL



Video Credit: Dan Wendt



# INSTALLATION OF 87.5-INCH DIAMETER PIPES



Addison Creek Reservoir, January 2021

Video Credit: Dan Wendt



# INSTALLATION OF 87.5-INCH DIAMETER PIPES



Addison Creek Reservoir, Jacking pits, 2021

Video Credit: Dan Wendt



# INSTALLATION OF 87.5-INCH DIAMETER PIPES



Addison Creek Reservoir, Tunnel boring machine, inside the tunnel

Video Credit: Dan Wendt





# INSTALLATION OF 87.5-INCH DIAMETER PIPES



Video Credit: Dan Wendt

TLC200 PRO 2021/03/16 06:56:46



# INSTALLATION OF 87.5-INCH DIAMETER PIPES



Tunnel boring machine, cutting through to the intake structure

Video Credit: Dan Wendt



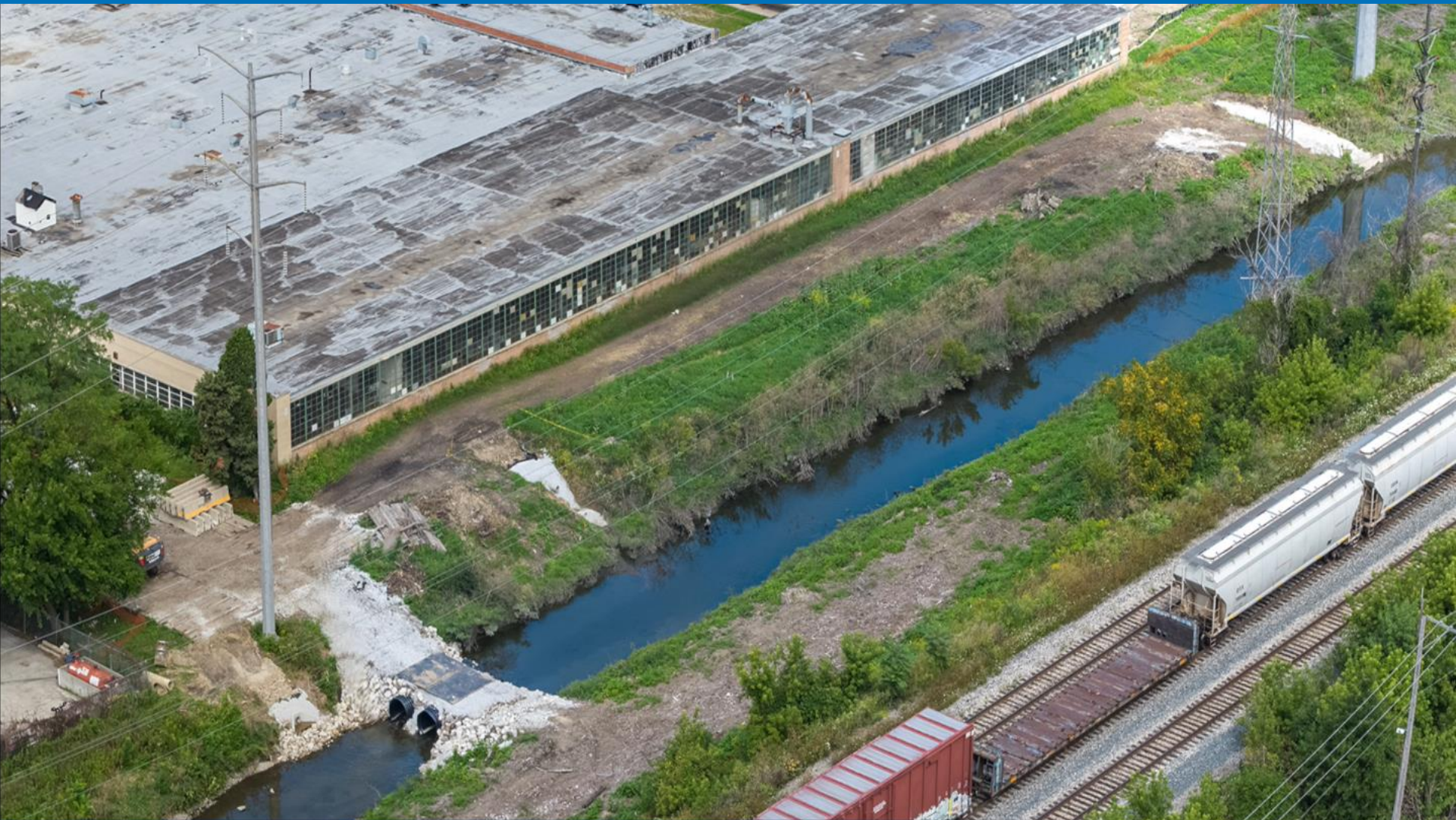
# INSTALLATION OF 87.5-INCH DIAMETER PIPES



Video Credit: Dan Wendt



# BRIDGE, INTAKE STRUCTURE, AND DROP STRUCTURE



Addison Creek Reservoir / channel structures, 2019

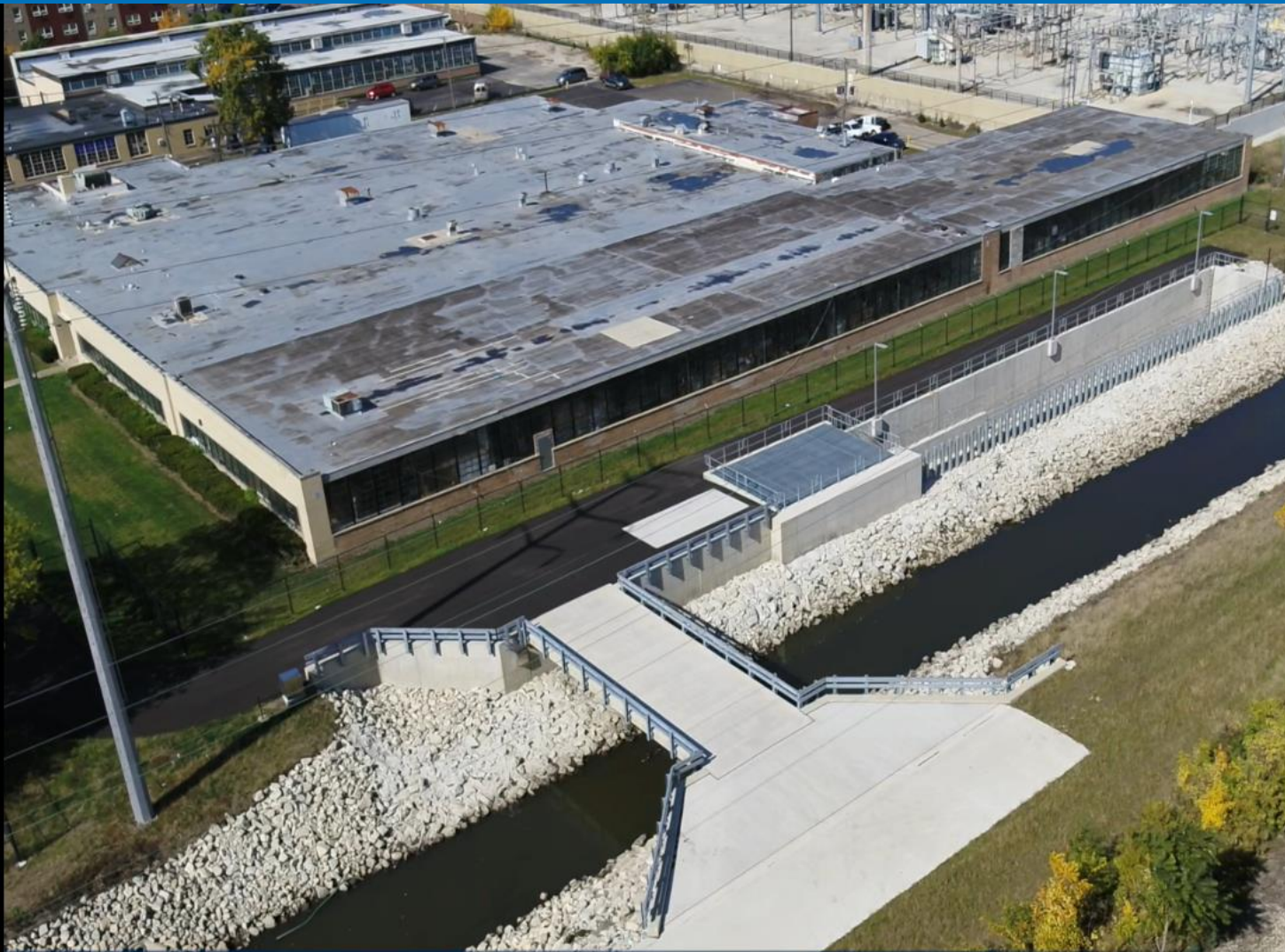
Video Credit: Dan Wendt







# BRIDGE, INTAKE STRUCTURE, AND DROP STRUCTURE



## Historic Crests for Addison Creek at USGS Gauge in Bellwood, Illinois

- (1) 13.57 ft on 07/24/2010
- (2) 13.16 ft on 04/18/2013
- (3) 12.84 ft on 08/14/1987
- (4) 12.32 ft on 06/15/2015
- (5) 11.51 ft on 08/22/2014
- (6) 11.18 ft on 05/17/2020
- (7) 11.13 ft on 05/09/1990
- (8) 10.94 ft on 10/14/2017
- (9) 10.33 ft on 09/13/2008
- (10) 10.07 ft on 10/02/2006
- (11) 9.86 ft on 08/16/1997
- (12) 9.19 ft on 05/27/2019
- (13) 8.97 ft on 10/13/2001
- (14) 8.83 ft on 05/15/2020

## Flood Categories (in feet)

Major Flood Stage:	12
Moderate Flood Stage:	11
Flood Stage:	9
Action Stage:	8
Low Stage (in feet):	1

Addison Creek Reservoir / channel structures, 2022

Video Credit: Dan Wendt



# SPILLWAY



Photo Credit: Dan Wendt



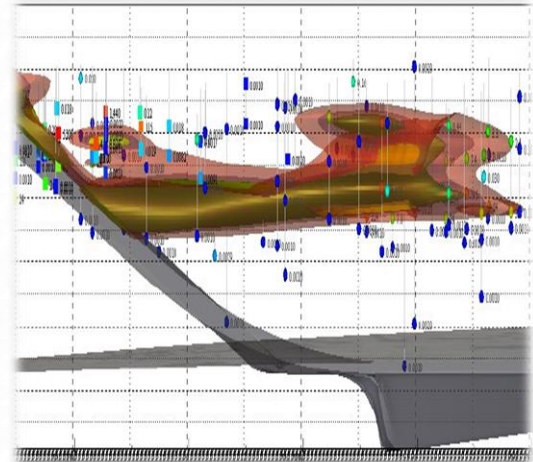
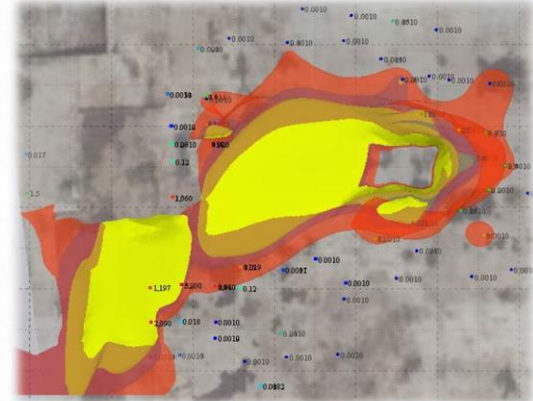
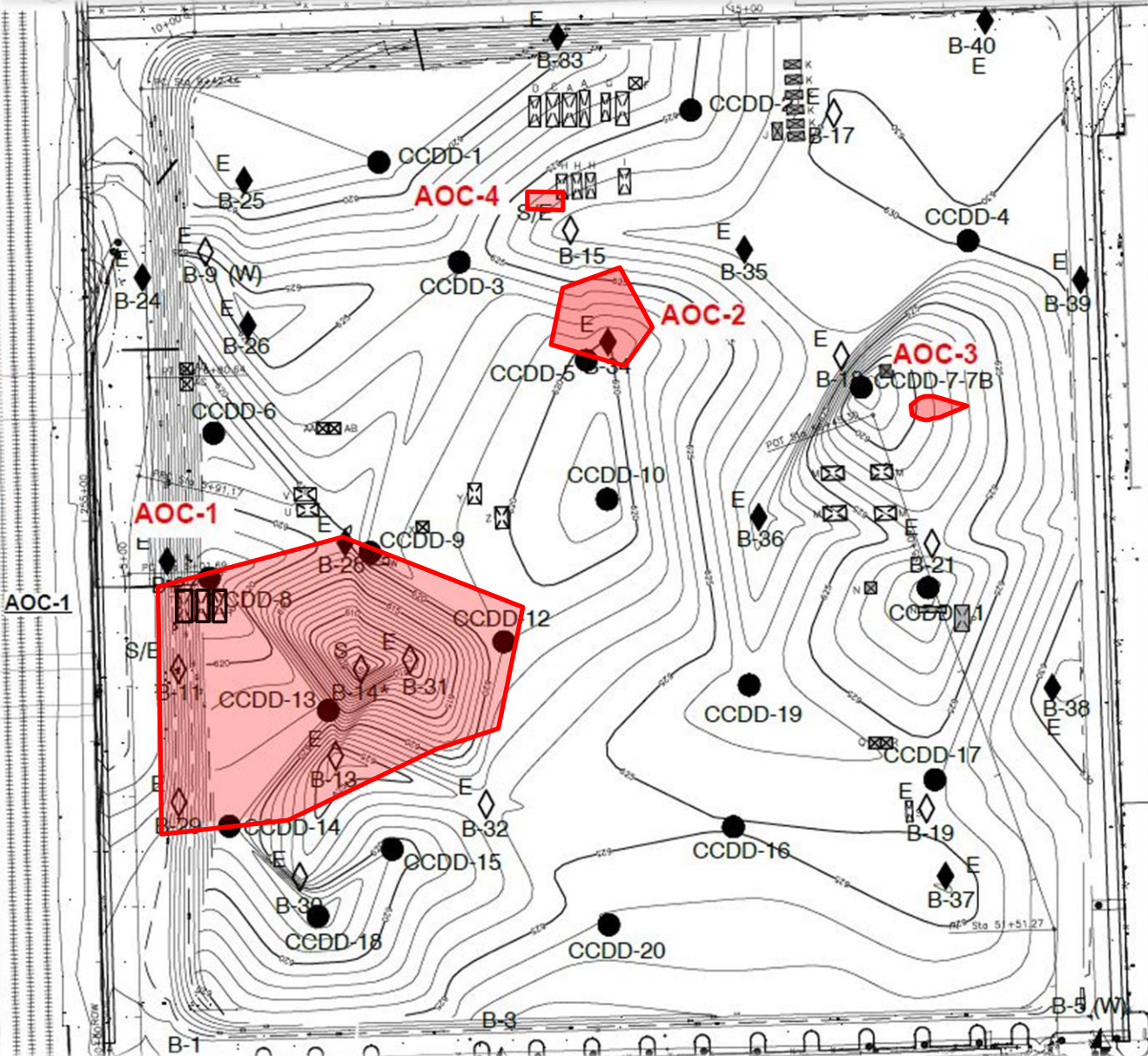
# PUMP STATION



Photo Credit: Dan Wendt



# SOURCE CONTAMINATION







# TIMELAPSE VIDEO OF CONSTRUCTION APRIL 2019 TO OCTOBER 2022



Addison Creek Reservoir, April 2019

Video Credit: Dan Wendt



# TIMELAPSE VIDEO OF CONSTRUCTION APRIL 2019 TO OCTOBER 2022



Addison Creek Reservoir, October 2019

Video Credit: Dan Wendt





# TIMELAPSE VIDEO OF CONSTRUCTION APRIL 2019 TO OCTOBER 2022



Addison Creek Reservoir, October 2020

Video Credit: Dan Wendt







# TIMELAPSE VIDEO OF CONSTRUCTION APRIL 2019 TO OCTOBER 2022



Addison Creek Reservoir, September 2021

Video Credit: Dan Wendt





# TIMELAPSE VIDEO OF CONSTRUCTION APRIL 2019 TO OCTOBER 2022



Addison Creek Reservoir, March 2022

Video Credit: Dan Wendt



# TIMELAPSE VIDEO OF CONSTRUCTION APRIL 2019 TO OCTOBER 2022



Addison Creek Reservoir, June 2022

Video Credit: Dan Wendt





# TIMELAPSE VIDEO OF CONSTRUCTION APRIL 2019 TO OCTOBER 2022



Addison Creek Reservoir, October 2022

Video Credit: Dan Wendt



**2- 87.5" Dia. Steel Intake Pipes**

**Spillway**

**Pump Station Wet Well**

**Pump Station Discharge Structure**

**48" Dia. Steel Discharge Pipe**

**Intake Structure**

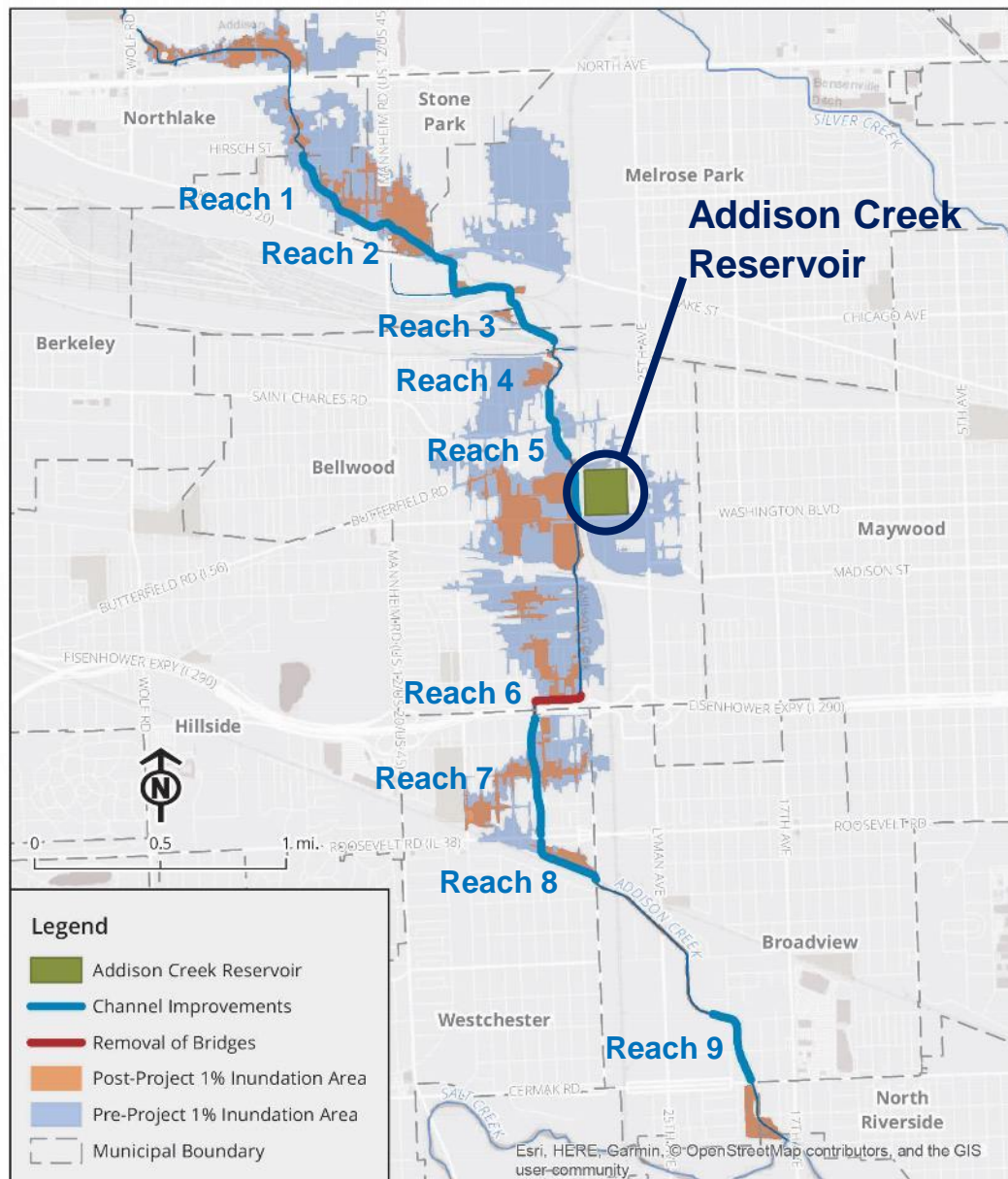
**Stream Gage**

**Bridge**

Photo Credit: Dan Wendt



# DEMOLITION FOR ADDISON CREEK CHANNEL IMPROVEMENTS



- **Contract:**  
11-187-AF
- **Contractor:**  
TBD- Currently Out for Bids
- **Awarded:**  
July 2021
- **Completed:**  
January 2022
- **Cost:**  
\$747,601
- **Demo**  
16 Residential Homes &  
13 Mobile Home Trailers



# RELOCATION WARNING SIREN AND BILLBOARD



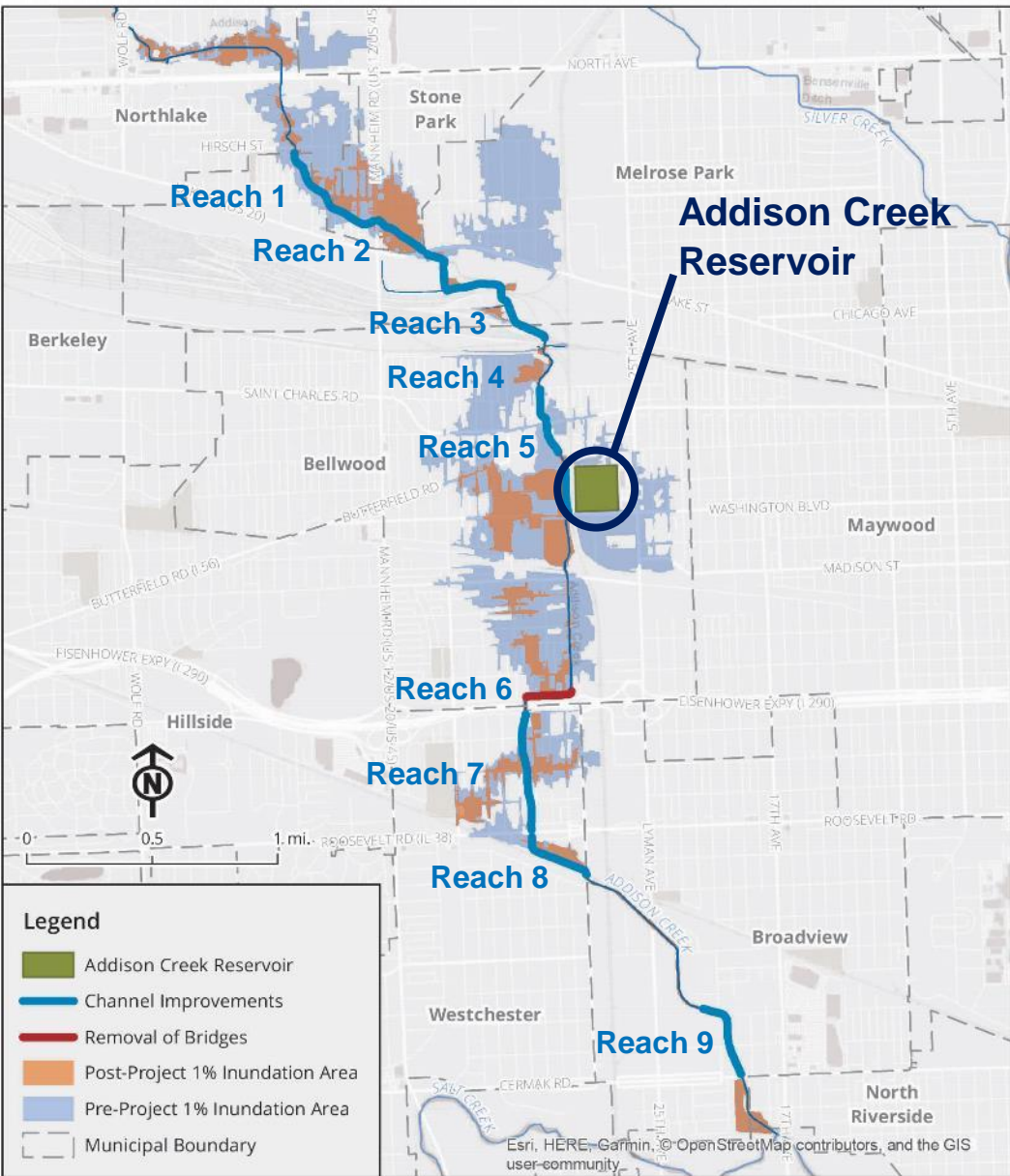
Photo Credit: Mick Cosmet



Photo Credit: Google



# ADDISON CREEK CHANNEL IMPROVEMENTS

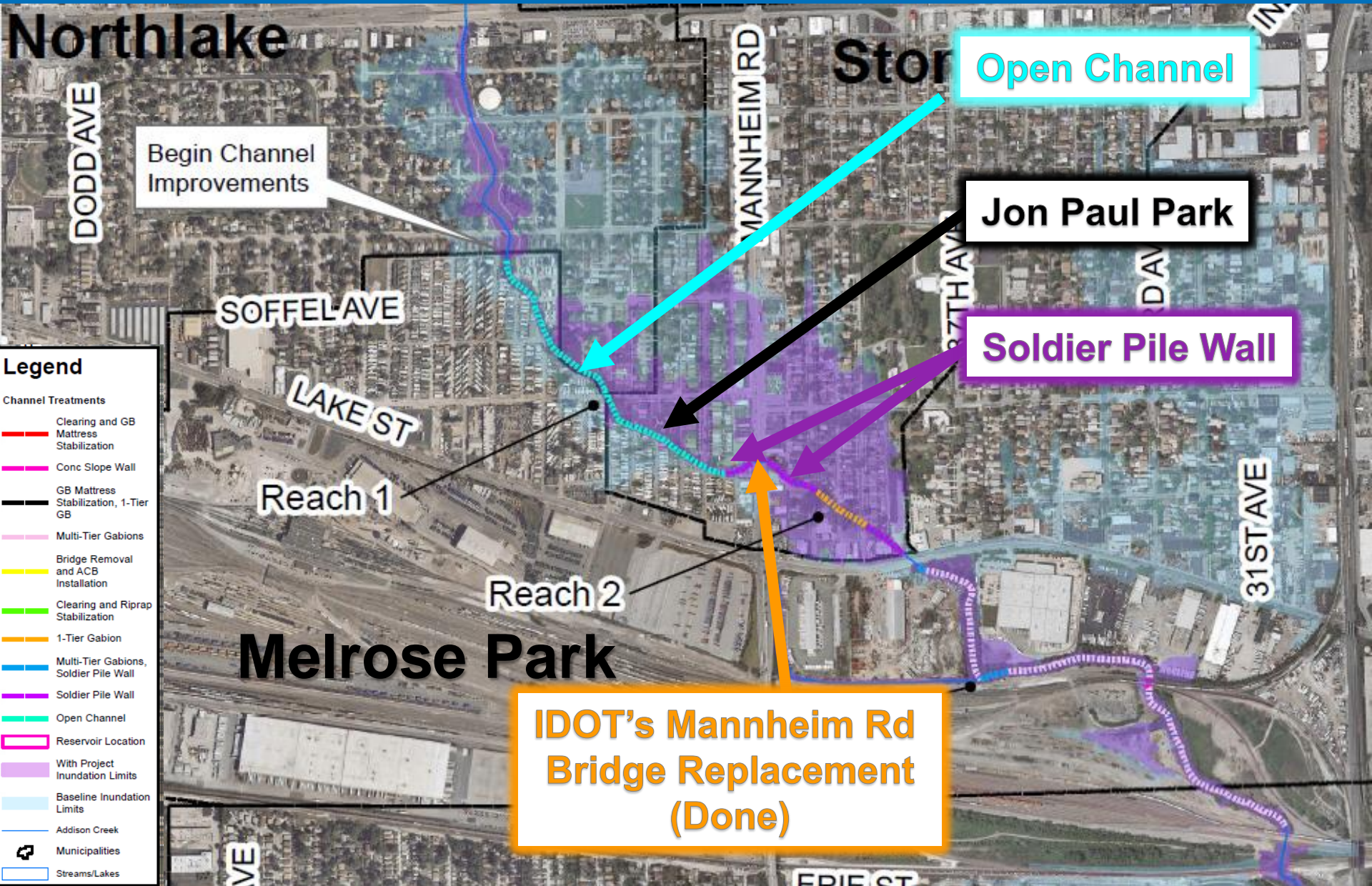


- **Contractor:**  
TBD- Currently Out for Bids
- **Est Award Date:**  
Spring 2023
- **Est. Completion Date:**  
Spring 2026
- **Est. Value:**  
Between \$57,133,000 and \$69,161,000
- **Channel Improvements:**  
App. 3 miles





# ADDISON CREEK CHANNEL IMPROVEMENTS REACH 1



Legend	
Channel Treatments	
	Clearing and GB Mattress Stabilization
	Conc Slope Wall
	GB Mattress Stabilization, 1-Tier GB
	Multi-Tier Gabions
	Bridge Removal and ACB Installation
	Clearing and Riprap Stabilization
	1-Tier Gabion
	Multi-Tier Gabions, Soldier Pile Wall
	Soldier Pile Wall
	Open Channel
	Reservoir Location
	With Project Inundation Limits
	Baseline Inundation Limits
	Addison Creek
	Municipalities
	Streams/Lakes

Open Channel

Jon Paul Park

Soldier Pile Wall

IDOT's Mannheim Rd Bridge Replacement (Done)

Begin Channel Improvements

SOFFEL AVE

LAKE ST

Reach 1

Reach 2

Melrose Park

MANNHEIM RD

Stor

37TH AVE

DAV

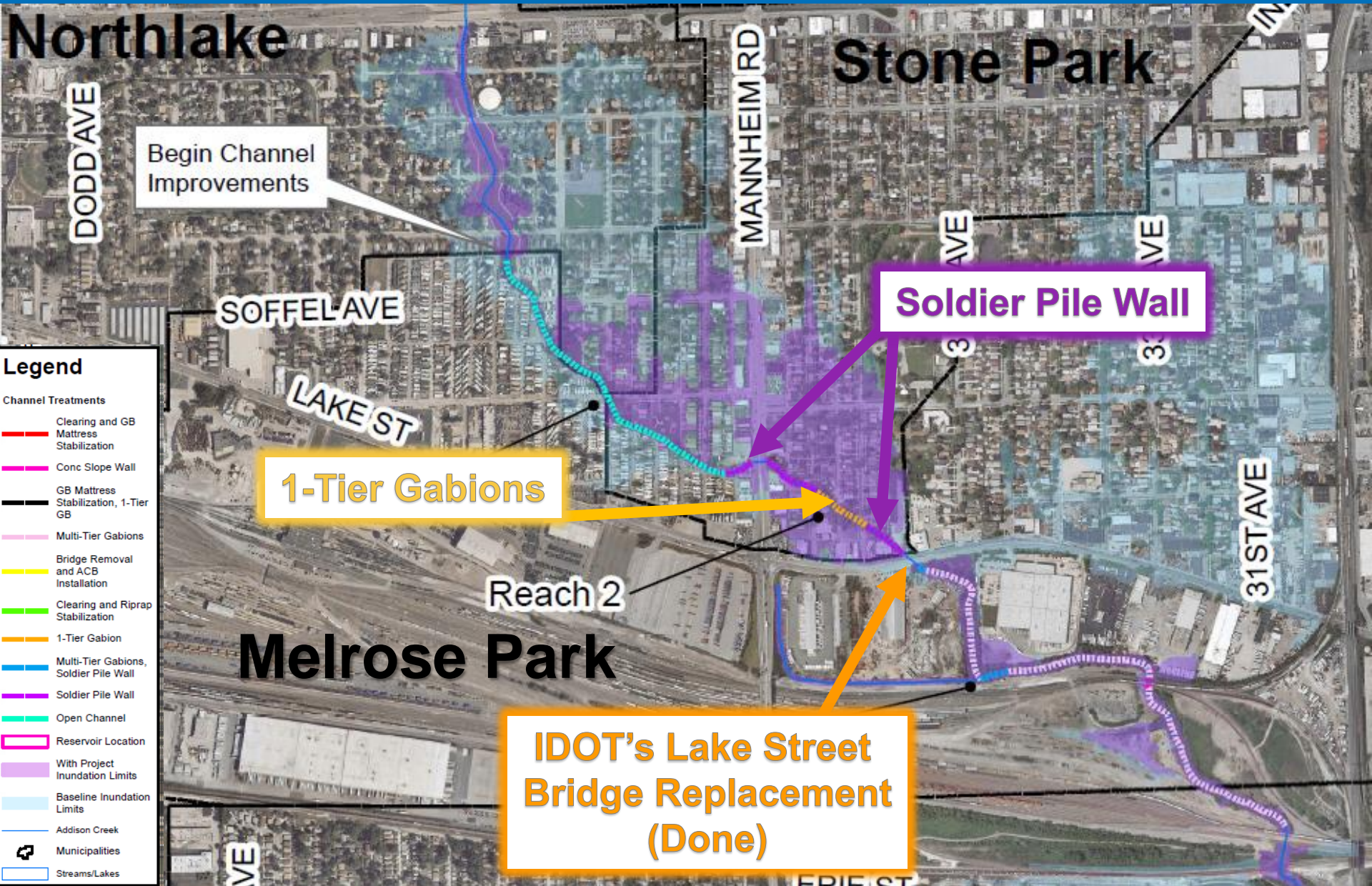
31ST AVE

ERIE ST

VE



# ADDISON CREEK CHANNEL IMPROVEMENTS REACH 2



Begin Channel Improvements

Soldier Pile Wall

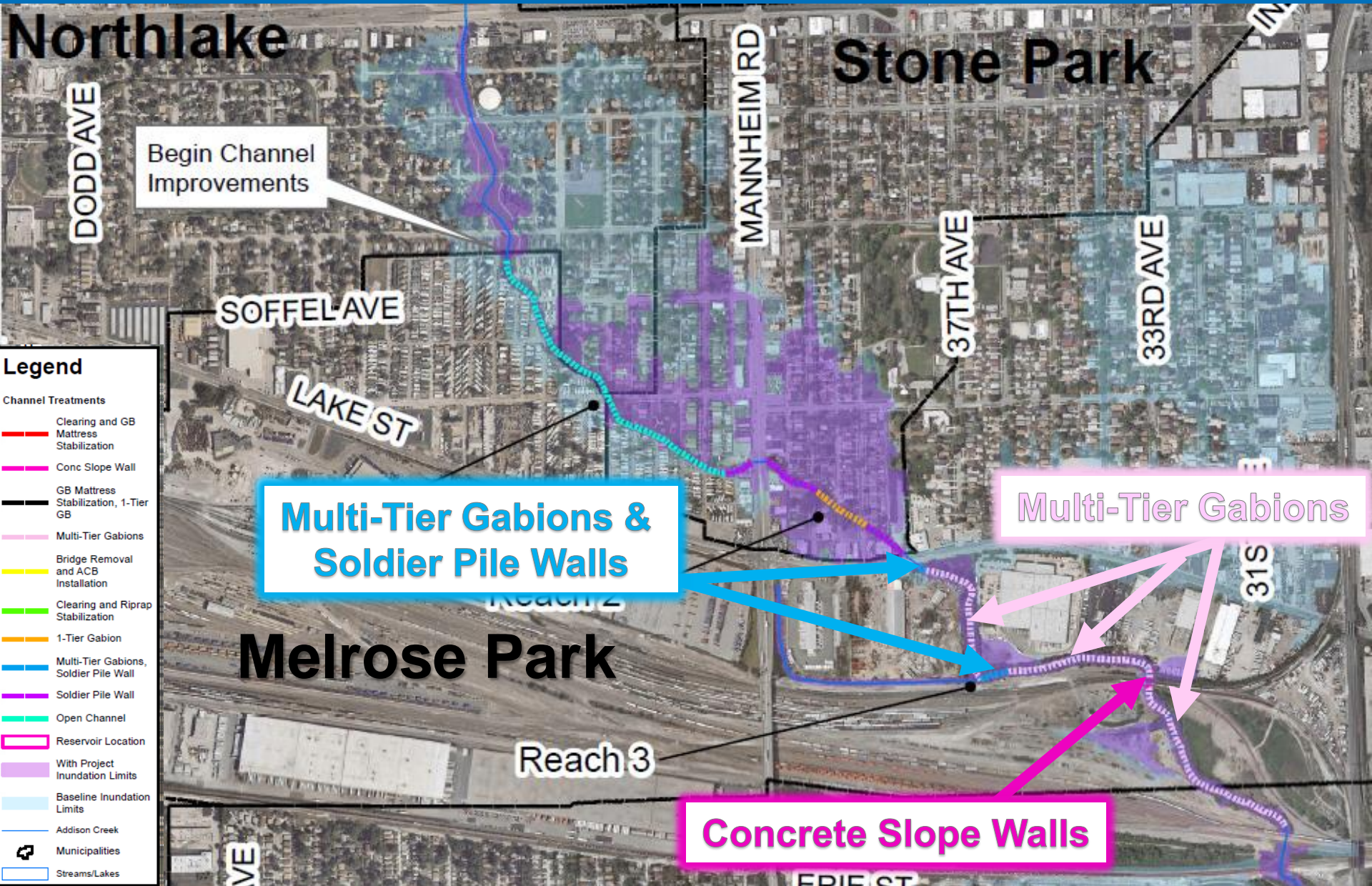
1-Tier Gabions

IDOT's Lake Street Bridge Replacement (Done)

- Legend**
- Channel Treatments**
- Clearing and GB Mattress Stabilization
  - Conc Slope Wall
  - GB Mattress Stabilization, 1-Tier GB
  - Multi-Tier Gabions
  - Bridge Removal and ACB Installation
  - Clearing and Riprap Stabilization
  - 1-Tier Gabion
  - Multi-Tier Gabions, Soldier Pile Wall
  - Soldier Pile Wall
  - Open Channel
  - Reservoir Location
  - With Project Inundation Limits
  - Baseline Inundation Limits
  - Addison Creek
  - Municipalities
  - Streams/Lakes



# ADDISON CREEK CHANNEL IMPROVEMENTS REACH 3



Begin Channel Improvements

**Multi-Tier Gabions & Soldier Pile Walls**

**Multi-Tier Gabions**

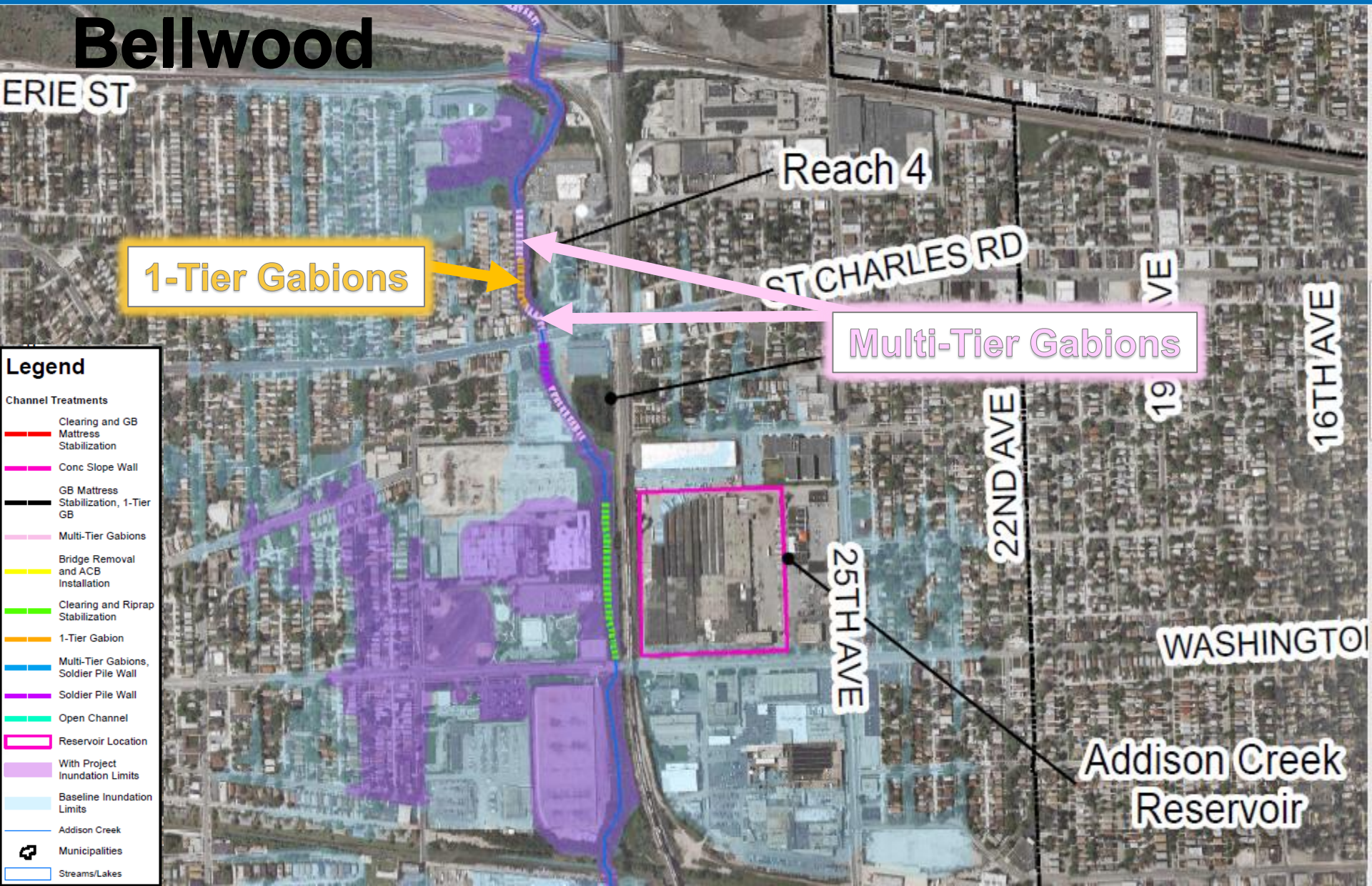
**Concrete Slope Walls**

- Legend**
- Channel Treatments**
- Clearing and GB Mattress Stabilization
  - Conc Slope Wall
  - GB Mattress Stabilization, 1-Tier GB
  - Multi-Tier Gabions
  - Bridge Removal and ACB Installation
  - Clearing and Riprap Stabilization
  - 1-Tier Gabion
  - Multi-Tier Gabions, Soldier Pile Wall
  - Soldier Pile Wall
  - Open Channel
  - Reservoir Location
  - With Project Inundation Limits
  - Baseline Inundation Limits
  - Addison Creek
  - Municipalities
  - Streams/Lakes



# ADDISON CREEK CHANNEL IMPROVEMENTS REACH 4

## Bellwood



1-Tier Gabions

Multi-Tier Gabions

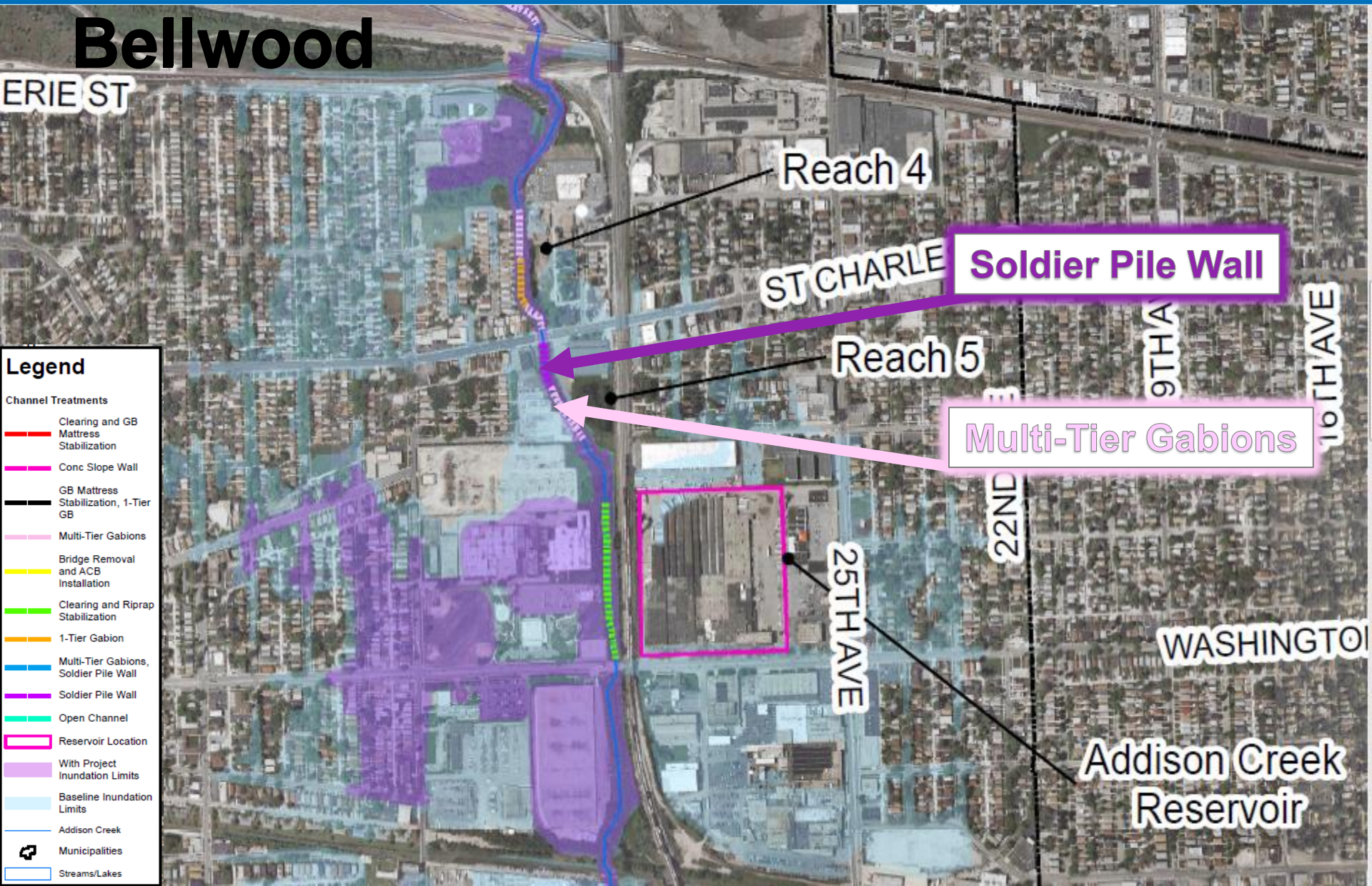
Legend	
Channel Treatments	
	Clearing and GB Mattress Stabilization
	Conc Slope Wall
	GB Mattress Stabilization, 1-Tier GB
	Multi-Tier Gabions
	Bridge Removal and ACB Installation
	Clearing and Riprap Stabilization
	1-Tier Gabion
	Multi-Tier Gabions, Soldier Pile Wall
	Soldier Pile Wall
	Open Channel
	Reservoir Location
	With Project Inundation Limits
	Baseline Inundation Limits
	Addison Creek
	Municipalities
	Streams/Lakes

Addison Creek Reservoir



# ADDISON CREEK CHANNEL IMPROVEMENTS REACH 5

## Bellwood



**Legend**

**Channel Treatments**

- Clearing and GB Mattress Stabilization
- Conc Slope Wall
- GB Mattress Stabilization, 1-Tier GB
- Multi-Tier Gabions
- Bridge Removal and ACB Installation
- Clearing and Riprap Stabilization
- 1-Tier Gabion
- Multi-Tier Gabions, Soldier Pile Wall
- Soldier Pile Wall
- Open Channel
- Reservoir Location
- With Project Inundation Limits
- Baseline Inundation Limits
- Addison Creek
- Municipalities
- Streams/Lakes

Reach 4

ST CHARLES

Soldier Pile Wall

Reach 5

Multi-Tier Gabions

9TH AVE

16TH AVE

22ND AVE

25TH AVE

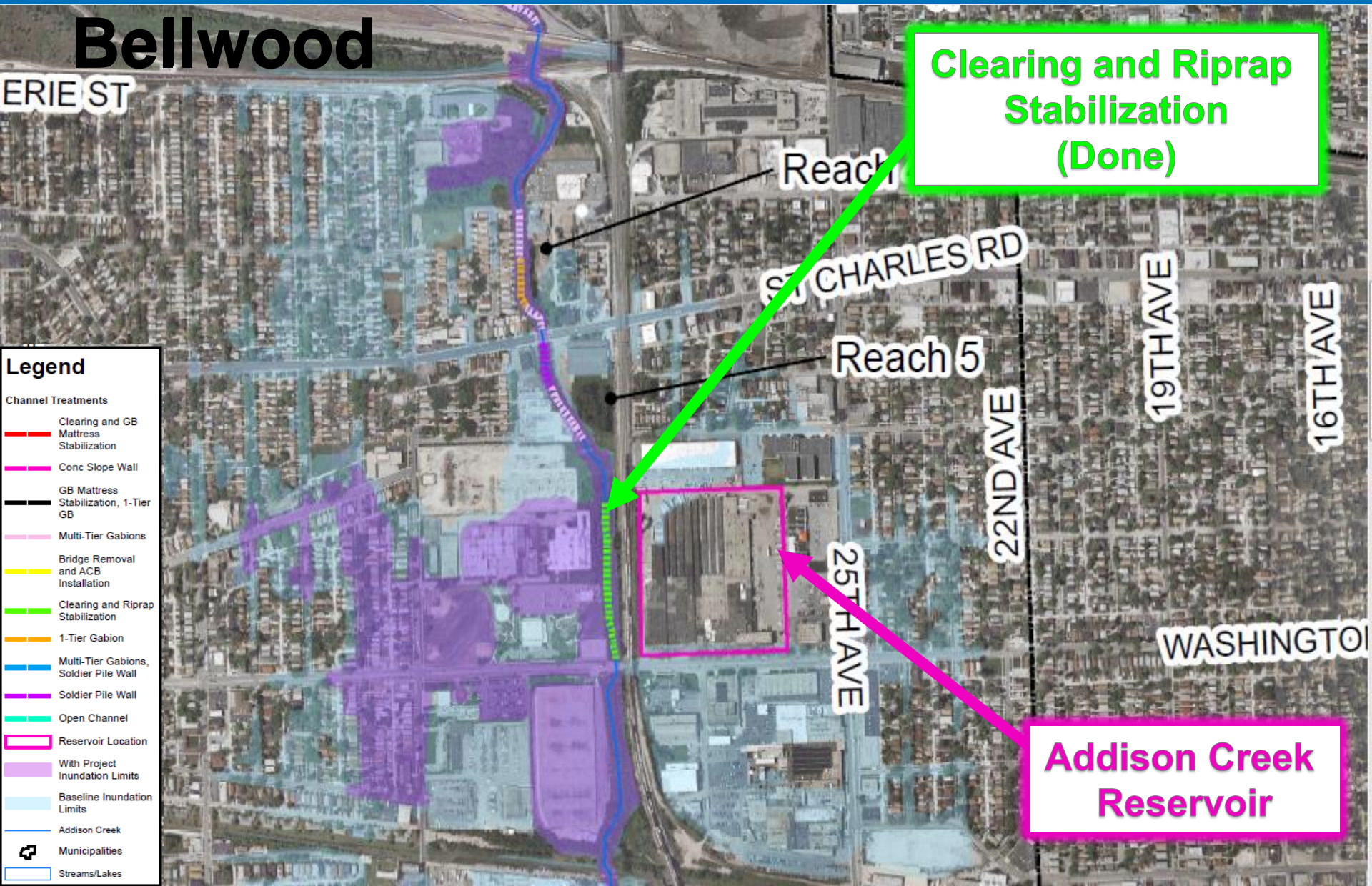
WASHINGTON

Addison Creek Reservoir



# ADDISON CREEK RESERVOIR

## Bellwood



**Clearing and Riprap Stabilization (Done)**

**Addison Creek Reservoir**

### Legend

- Channel Treatments**
- Clearing and GB Mattress Stabilization
- Conc Slope Wall
- GB Mattress Stabilization, 1-Tier GB
- Multi-Tier Gabions
- Bridge Removal and ACB Installation
- Clearing and Riprap Stabilization
- 1-Tier Gabion
- Multi-Tier Gabions, Soldier Pile Wall
- Soldier Pile Wall
- Open Channel
- Reservoir Location
- With Project Inundation Limits
- Baseline Inundation Limits
- Addison Creek
- Municipalities
- Streams/Lakes



# ADDISON CREEK CHANNEL IMPROVEMENTS REACH 6

## Bellwood

Remove  
3 Bridges

Remove 3 Bridges &  
Installation ACB



Legend	
Channel Treatments	
	Clearing and GB Mattress Stabilization
	Conc Slope Wall
	GB Mattress Stabilization, 1-Tier GB
	Multi-Tier Gabions
	Bridge Removal and ACB Installation
	Clearing and Riprap Stabilization
	1-Tier Gabion
	Multi-Tier Gabions, Soldier Pile Wall
	Soldier Pile Wall
	Open Channel
	Reservoir Location
	With Project Inundation Limits
	Baseline Inundation Limits
	Addison Creek
	Municipalities
	Streams/Lakes

IDOT'S I-290

Reach 7

## Westchester

## Broadview

ROOSEVELT RD

LEMAN AVE

2ND AVE

HARVARD



# ADDISON CREEK CHANNEL IMPROVEMENTS REACH 7

## Bellwood

Remove  
3 Bridges

MAYWOOD DR

Reach 6

**Clearing &  
Gabions Mattresses**

18TH AVE

Legend	
Channel Treatments	
	Clearing and GB Mattress Stabilization
	Conc Slope Wall
	GB Mattress Stabilization, 1-Tier GB
	Multi-Tier Gabions
	Bridge Removal and ACB Installation
	Clearing and Riprap Stabilization
	1-Tier Gabion
	Multi-Tier Gabions, Soldier Pile Wall
	Soldier Pile Wall
	Open Channel
	Reservoir Location
	With Project Inundation Limits
	Baseline Inundation Limits
	Addison Creek
	Municipalities
	Streams/Lakes

**WESTCHESTER  
GLADESTONE BRIDGE  
(UNDER CONSTRUCTION)**

Reach 7

## Westchester

ROOSEVELT RD

HARVARD

Broadview



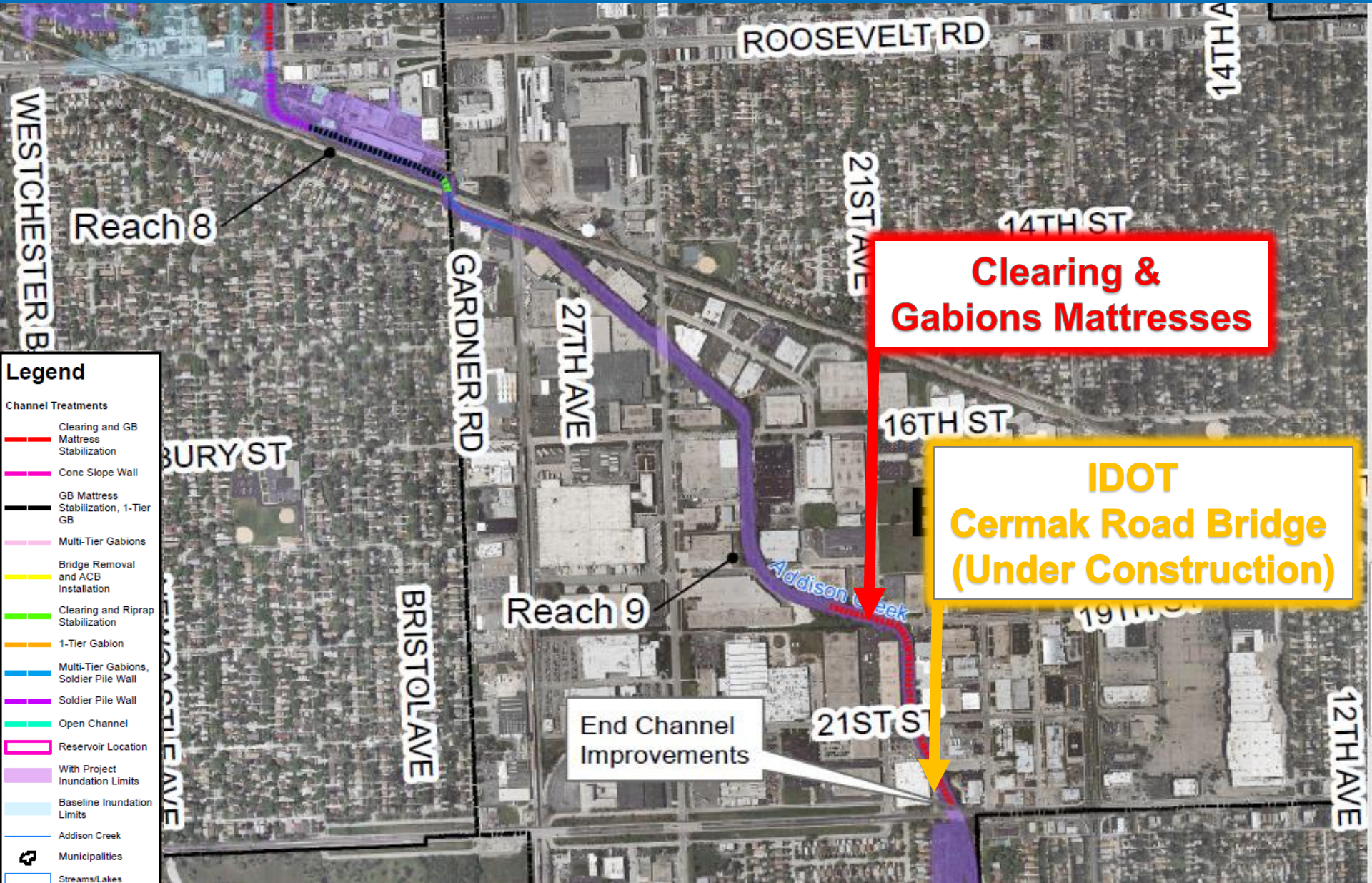


# ADDISON CREEK CHANNEL IMPROVEMENTS REACH 8





# ADDISON CREEK CHANNEL IMPROVEMENTS REACH 9





# MILESTONES TO COMPLETION

Complete Reservoir Control Building - Spring 2023

Place Reservoir Online - Summer 2023

Construct Reach 1, 2, Upstream 3, 7, & 9 - Spring 2024

Construct Reach Downstream 3, 4, 5, 6, & 8 - Spring 2025

Following with FEMA Map Revisions



# QUESTIONS?