

# GREAT LAKES CONSTRUCTION ROUNDTABLE

LTC Greg Turner  
Commander, Detroit District

31 January 2019  
Detroit, MI

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## **GREAT LAKES CONSTRUCTION ROUNDTABLE**

Thursday, January 31, 2019

FDA Training Room

300 River Place, Suite 5900, Detroit, MI 48207



<b><u>TIME</u></b>	<b><u>SESSION</u></b>	<b><u>PRESENTER</u></b>
12:00 pm	<i>Welcome &amp; Introductions</i>	<ul style="list-style-type: none"><li>o LTC Greg Turner, Detroit District Commander</li></ul>
12:15 pm	<i>District Overview &amp; Fiscal Year 2019 Workload</i>	<ul style="list-style-type: none"><li>o COL Reisinger, Chicago District Commander</li><li>o LTC Toth, Buffalo District Commander</li><li>o LTC Greg Turner, Detroit District Commander</li></ul>
12:45 pm	<i>Construction Projects Review</i>	<ul style="list-style-type: none"><li>o Marie Strum, Chief of Engineering and Technical Services, Detroit District</li><li>o Area Engineers; Construction Chiefs; Contractors</li></ul>
2:00 pm	<i>Networking Break</i>	
2:30 pm	<i>New Soo Lock Update</i>	<ul style="list-style-type: none"><li>o Mollie Mahoney, Soo Lock Project Manager</li></ul>
3:00 pm	<i>Safety Topics &amp; Discussion</i>	<ul style="list-style-type: none"><li>o Safety Committee</li></ul>
3:15 pm	<i>Contracting Update RMS 3.0 Update</i>	<ul style="list-style-type: none"><li>o Heather Turner, LRN &amp; Jeff Ernest, LRB</li><li>o Karen Carnago, Detroit District Chief CAB</li></ul>
3:30 pm	<i>Open Floor – Q &amp;A, Comments</i>	<ul style="list-style-type: none"><li>o Facilitated by: Marie Strum, Chief of Engineering and Technical Services</li></ul>
4:00 pm	<i>Closing Remarks</i>	<ul style="list-style-type: none"><li>o LTC Greg Turner, Detroit District Commander</li></ul>
4:15 pm	<i>Networking Event @ Atwater Brewery</i>	237 Joseph Campau Avenue, Detroit



RSVP by Jan 24, 2019 to Karen Kelly at (313) 226-6389 or [Karen.A.Kelly@usace.army.mil](mailto:Karen.A.Kelly@usace.army.mil)



# CHICAGO DISTRICT



**Mission:** USACE-Chicago District provides **valued, world class leadership, engineering services, and management capabilities** for diverse **stakeholders and partners** within the greater Chicagoland metropolitan area and to the Nation.

• **LRC Mission Areas:**

- Flood Risk Management
- Shoreline Protection
- Navigation
- Environmental
- Emergency Management
- Overseas Contingency Ops
- IIS Program
- Regulatory Support
- Real Estate



**Great Lakes and Ohio River Division**



9 Counties (IL – 6; IN – 2+); 5,000 Sq. Mi.; 9.1 Million people





# CHICAGO DISTRICT



## Opportunities

- 8 Section 219 Projects
- Structure Repairs / Maintenance
  - 7 Harbors and Multiple Breakwaters
  - Indiana Harbor CDF Expansion
  - Calumet Harbor CDF Replacement or Expansion
  - Chicago Harbor North Pier
  - Chicago Harbor – Miscellaneous Concrete Repairs
  - Calumet Harbor Storage Building
  - Dredging
  - Miscellaneous Levee Repairs

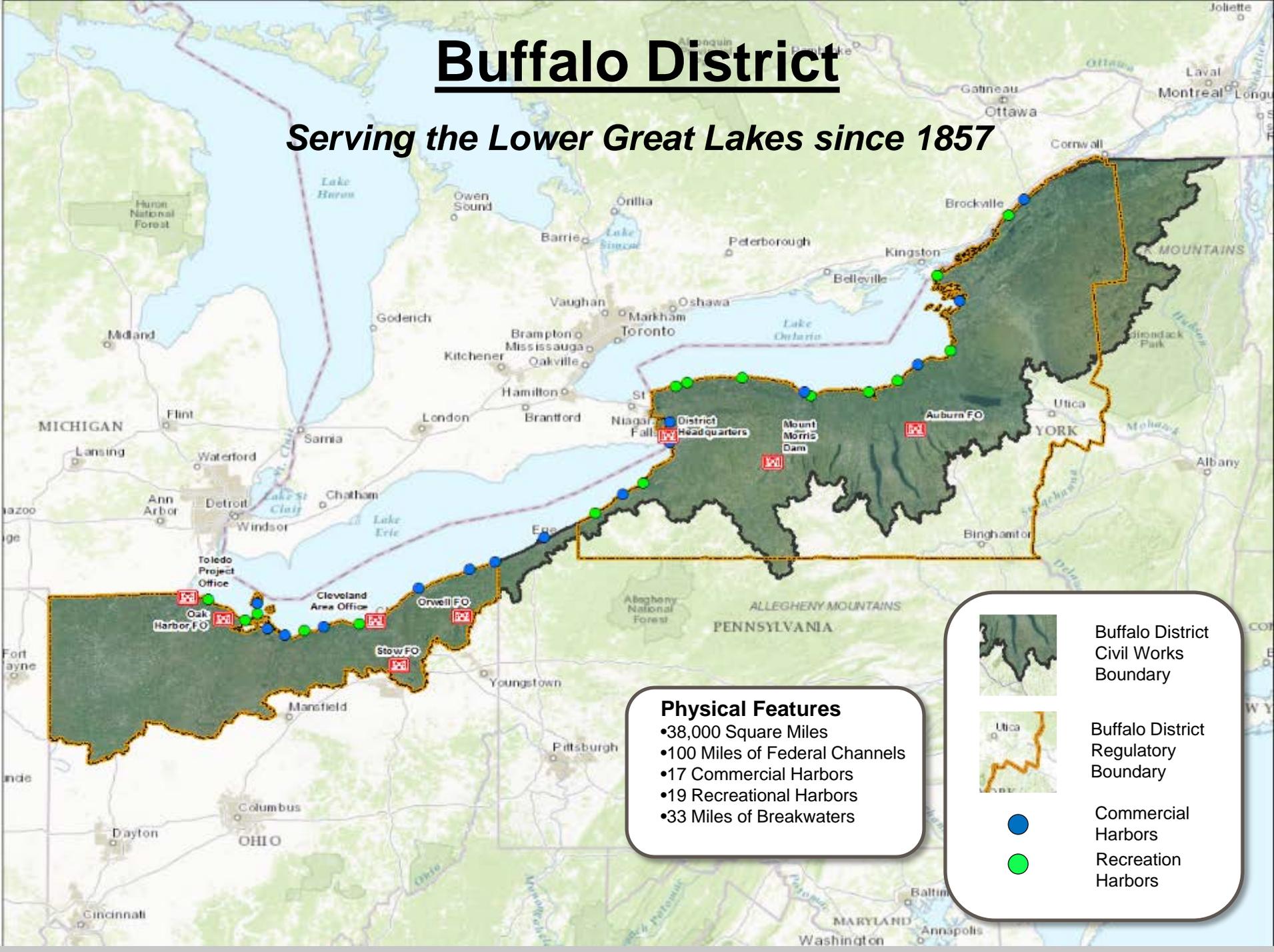
## Focus Areas

- **Safety** – *preserve excellence!*
- **Execute the Mission** – *faster & better*
- **Ecosystem Restoration** – *stay ahead of the curve*
- **IIS / Work for Others** – *increase our partnerships*



# Buffalo District

*Serving the Lower Great Lakes since 1857*



**Physical Features**

- 38,000 Square Miles
- 100 Miles of Federal Channels
- 17 Commercial Harbors
- 19 Recreational Harbors
- 33 Miles of Breakwaters

**Buffalo District Civil Works Boundary**

**Buffalo District Regulatory Boundary**

**Commercial Harbors**

**Recreation Harbors**



# BUFFALO DISTRICT



## Opportunities

- LaSalle Park Shoreline Protection
- Ogdensburg Channel Deepening
- Athol Springs Shoreline Protection
- 10 Dredging projects – Over 3 Million CY of material
- Structure Repairs
  - Cleveland West Breakwater
  - Buffalo North Breakwater
  - Oswego West Arrowhead
  - Rochester East Pier



## Focus Areas

- Safety
- Quality
- Schedule Risk Management
- Cost





# DETROIT DISTRICT



The Detroit District, established in 1841, covers 82,000 square miles of land inhabited by about 14 million people and includes the state of Michigan and portions of the states of Indiana, Wisconsin and Minnesota with 4,000 miles of Great Lakes shoreline. The District is headquartered in downtown Detroit with area offices in Detroit, MI, Duluth, MN, Sault Ste. Marie, MI, and our Lake Michigan Area Offices located in Grand Haven, MI, and Kewaunee, WI



## Primary Missions:

- Navigation
- Hydropower
- Environmental Sustainability
- Flood Risk Management
- Regulatory Program
- Emergency Management
- Support / Military Construction
- International & Interagency
- Recreation



# DETROIT DISTRICT



## Opportunities

- New Soo Lock: U/S Channel Deepening
- 15 Dredging projects / 12 Contracts
- Structure Repairs
  - Muskegon South Breakwater Connector Repair
  - Sheboygan South Breakwater Repair
  - Duluth-Superior Duluth Entrance North Pier Repair
- Rehab projects for Poe and MacArthur Locks and facility
- Wisconsin Piping Plover Habitat
- Union Street Bi-Directional Fish Passage
- Elkhart Dam Removal

## Focus Areas

- Safety
- New Soo Lock Construction
- Ecosystem Restoration
- Execute the Mission
- Maintain Current Soo Lock Assets

# GREAT LAKES NAVIGATION UPDATE & GREAT LAKES CONSTRUCTION PROJECT REVIEWS

Marie T. Strum, PE  
Great Lakes Navigation Lead  
Chief - Engineering & Technical Services  
Detroit District  
Date: 31 January 2019



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# GREAT LAKES UPCOMING CONTRACTS



**US Army Corps  
of Engineers**

## Great Lakes and Ohio River Division *Construction Contracts Scheduled for Advertisement in FY19*

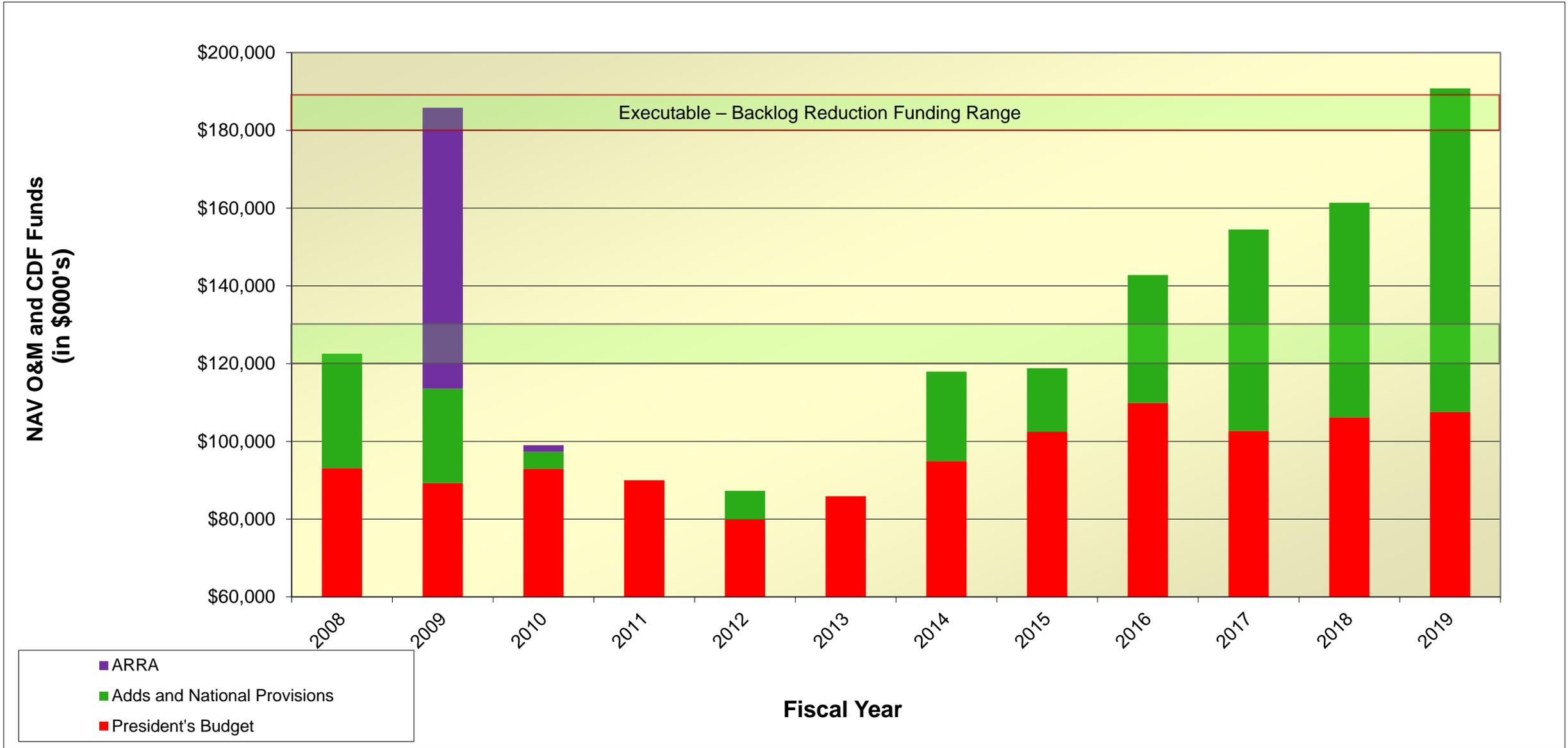
Last updated 1/30/2019  
Advertise dates subject to change

BUFFALO DISTRICT PROJECTS (W912P4)	Branch Chief, Detroit District Contracting: Ty Palaganas - (716) 879-4126 Email: Tyrone.B.Palaganas@usace.army.mil			District Contracting Chief: Jeffrey Ernest - (716) 879-4173 Email: Jeffrey.G.Ernest@usace.army.mil		
	Deputy for Small Business: Sherrie Plonski - (412) 395-7127 Email: Sherrie.Plonski@usace.army.mil					
Project Description/Location	Scheduled Advertise Date (Month-Yr)	Magnitude of Construction (Range per DFAR 236.204)	Work Description	Cubic Yards (dredging projects)	Anticipated Acquisition Type & Strategy	Remarks
FY18 Cleveland Harbor West Breakwater, OH	January-19	\$5,000,000 - \$10,000,000.	West breakwater repairs to concrete apron, concrete parapet, and a section of steel sheet pile construction.	N/A	IFB, Small Business	Potential delays to advertisement due to OH SHPO concerns
FY19 M/D - Rochester, NY	January-19	\$500,000 - \$1,000,000	Maintenance Dredging.	100,000	IFB, Small Business	
FY19 M/D - Oswego, NY	February-19	\$500,000 - \$1,000,000	Maintenance Dredging.	100,000	IFB, Small Business	
FY19 M/D - Ashtabula, OH	March-19	\$1,000,000 - \$5,000,000	Maintenance Dredging.	100,000	IFB, Small Business	
FY19 Buffalo North Breakwater Repair	March-19	\$5,000,000 - \$10,000,000.	Rubblemound repair of the North breakwater beginning at the south head and progressing northward	NA	IFB, Small Business	
FY19 M/D - Fairport, OH	March-19	\$1,000,000 - \$5,000,000	Maintenance Dredging.	150,000	IFB, Small Business	
FY19 Oswego West Arrowhead Breakwater Repair	April-19	\$1,000,000 - \$5,000,000	Continue rubblemound repairs to the West Arrowhead breakwater	NA	IFB, Small Business	
FY19 M/D - Toledo, OH - Maumee Bay	April-19	\$1,000,000 - \$5,000,000	Maintenance Dredging.	500,000	IFB, Small Business	

<https://www.lre.usace.army.mil/Missions/Great-Lakes-Navigation/>



# GL NAVIGATION FUNDING HISTORY





# FY18 GL Navigation President's Budget

## + Work Plan Funding

Great Lakes Navigation Operations & Maintenance

\$106.2M + \$52.4M = \$158.6M

### Key Items

\$37.9M + \$17.8M in Dredging (40 projects: 16 + 24) 4.5M CY

\$11.3M in Dredged Material Management

\$15.8M in Soo Asset Renewal

\$19.0M in navigation structure repair (by contract)





# FY 19 GREAT LAKES NAVIGATION

## PRESIDENT'S BUDGET + WORKPLAN

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Great Lakes Navigation Operations & Maintenance

~~\$108.7M~~ **\$107.5M + \$83.2M = \$190.7M**

### Key Items

\$46.3M in Dredging (25 projects; 3.3M cy) (\$38.0M + \$8.35M)

\$14.85M in Dredged Material Management (\$11.0M + \$3.85M)

\$51.3M in Navigation Structure Repair (\$2.2M + \$49.1M)

\$17.4M in Soo Locks Maintenance (\$2.4M + \$15M)

\$4.8 in Black Rock Lock Maintenance (\$4.25 + \$0.55M)

\$4.6M in Chicago Lock Maintenance (\$4.6M)



# FY19 PBUD + WORK PLAN DREDGING (\$46.4M)

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Ashtabula Harbor  
Burns Harbor  
Calumet Harbor  
Cleveland Harbor +  
Conneaut Harbor  
Detroit River +  
Duluth-Superior  
Fairport Harbor  
Grand Haven Harbor  
Green Bay Harbor  
Holland Harbor  
Indiana Harbor  
Ludington Harbor

Milwaukee Harbor  
Rochester Harbor  
Sandusky Harbor  
St. Clair River +  
St. Joseph River  
Toledo Harbor  
Waukegan Harbor  
Manitowoc Harbor  
Sturgeon Bay Harbor  
Kewaunee Harbor  
Buffalo Harbor  
Oswego Harbor



# FY19 PBUD + WORK PLAN STRUCTURE REPAIR (\$51.3M)

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## Engineering & Design

Grand Haven Harbor

Frankfort Harbor

Keweenaw Waterway

Manistee Harbor

Manistique Harbor

Kenosha Harbor

Kewaunee Harbor

Cleveland Harbor

## Minor Repairs (Gov't Plant)

Hammond Bay Harbor

Lexington Harbor

Milwaukee Harbor

## Contract Structure Repair

Buffalo Harbor

Chicago Harbor

Chicago Lock North Pier

Duluth-Superior Harbor

Lorain Harbor

Muskegon Harbor

Oswego Harbor

Rochester Harbor

Sheboygan Harbor



# KEY PROJECT DREDGING UPDATES



## Ohio 2020 – no open lake placement after 2020

- Working with ports and state on alternative placement options
- Will have more Contractor Furnished Placement in contracts
- Expected to have impact on dredging costs

## Indiana Harbor – received go-ahead to dredge TSCA material in 2019

- Phase II of CDF under design; will raise dikes 11 feet
- Without dike raising, CDF at capacity in 2021
- Will be requesting funds for CDF construction

## Calumet Harbor CDF Update

- Evaluating 5 alternatives for sediment management, including raising dikes
- Report complete Nov 2019
- Design funded
- Will be requesting construction funds

## Duluth-Superior Harbor

- Great success working with state and EPA to beneficially use material
- Working with the state for FY19 to place material beneficially on MN Point



# **CONSTRUCTION PROJECT OVERVIEW - DETROIT DISTRICT -**



# CONSTRUCTION PROJECT OVERVIEW



Detroit Area Office  
Area Engineer: Steven Rose

## Key Completed Projects

- 88<sup>th</sup> RSC Army Reserve Centers
- Inland Route M/D
- Saginaw M/D
- Monroe M/D
- SANGB Replace Fuel Distribution
- Detroit Arsenal GM/RM Renovation
- Detroit Arsenal HAZMART Renovation

## Contractors

- RBV Contracting, INC
- Jack Wayte Construction, INC
- RB Construction Company
- Angels General Construction, INC
- Ryba Marine
- MCM Marine, INC
- Custom Mechanical Systems
- Johnson Controls
- Garco Construction





# CONSTRUCTION PROJECT OVERVIEW



Detroit Area Office

Area Engineer: Steven Rose

## Key Active Projects

- LLROC Permanent Sheetpile Wall
- Bolles, Au Sable, Caseville, Lexington, and Port Sanilac M/D
- Pointe Mouillee CDF Maint
- Galloway Creek Restoration
- Clinton River Mouth WR
- Clinton River Shelby Township
- Marine Reserve Center Renovation
- DLA Replacement Generators
- Detroit Arsenal PM-FP Renovation
- Detroit Arsenal MSO Renovation

## Contractors

- MCM Marine, INC
- RBV Contracting, INC
- Anglin Civil, LLC
- CMS Corporation
- Lunacon Construction Group
- Broadway Electric





# CONSTRUCTION PROJECT OVERVIEW



Detroit Area Office  
Area Engineer: Steven Rose

## Key Future Projects

- LLROC Remedial Dredging
- Rouge River M/D
- Channels in Lake St. Clair
- Saginaw River M/D
- Saginaw Bay CDF Dike Raising
- Sebawaing, Repair Sheet Pile Wall
- St. Clair River M/D
- Detroit River M/D & Pte. Mouillee Repairs
- Detroit Arsenal S-25 Substation
- Detroit Arsenal Bldg 231 4<sup>th</sup> Floor Renovation
- Detroit Area Office Facility Renovations

## Key Challenges

- Funding for Rec Harbor Dredging and Infrastructure Maintenance
- Loss of USCG DGPS Beacon Systems





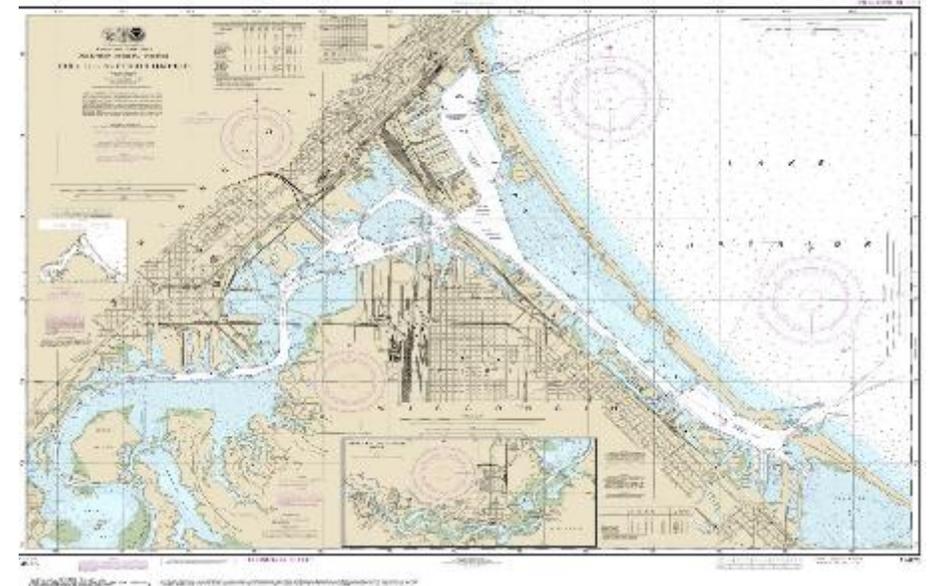
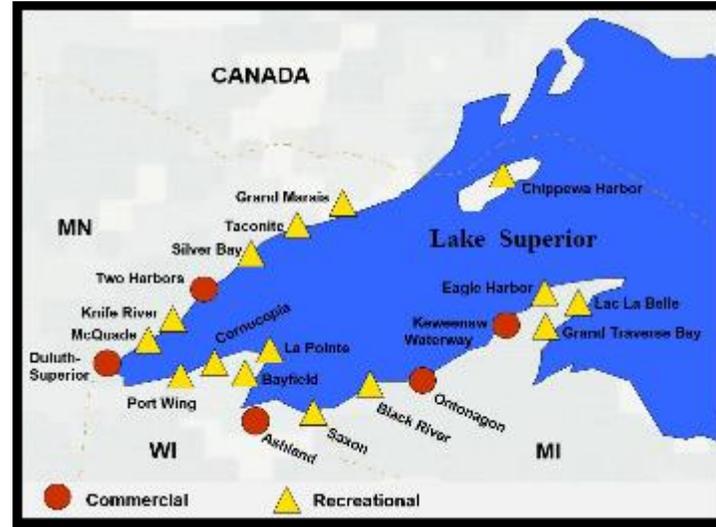
# CONSTRUCTION PROJECT OVERVIEW



Duluth Area Office  
Area Engineer: Steve Brossart

## Key Facts about the Duluth Area Office (DuAO)

- Area of Responsibility includes Harbors in MN, WI, and MI
- Projects Include
  - Dredging
  - Marine Repair
  - Army Reserve/ Air National Guard Construction Admin Support
- DuAO's Bread and Butter: Duluth-Superior Harbor:
  - Largest port on the Great Lakes
  - Economic Value locally, regionally, and nationally:
  - USACE dredges ~110,000 CY of material per year to maintain over 17 miles of navigation channels





# CONSTRUCTION PROJECT OVERVIEW



Duluth Area Office  
Area Engineer: Steve Brossart

## Key Completed Projects in 2018

- Slip 3 & C Remediation (Duluth, MN)
  - White Lake Dock & Dredge
- MN Slip Remediation (Duluth, MN)
  - Great Lakes Sediment Remediation, LLC
- Duluth MD 40<sup>th</sup> Ave Placement (Duluth, MN)
  - Roen Salvage
- Duluth MD Interstate Island Placement Duluth, MN)
  - Roen Salvage
- Saxon Harbor Dredging/Repairs (Saxon, WI)
  - Roen Salvage





# CONSTRUCTION PROJECT OVERVIEW



Duluth Area Office  
Area Engineer: Steve Brossart

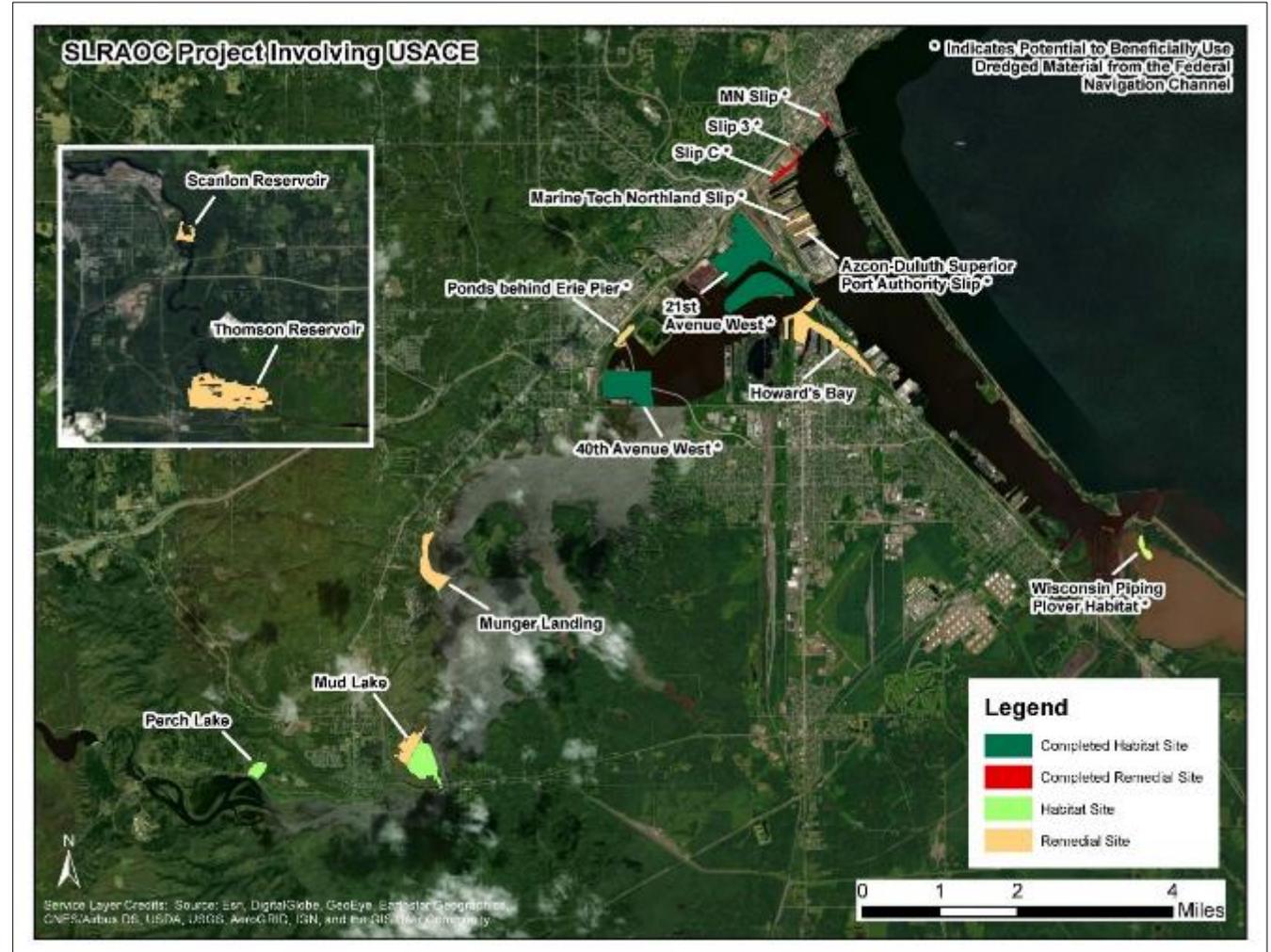
## Key Future Projects

### 2019 Projects

- Keweenaw Stamp Sand Dredging (Awarded)
- Keweenaw Waterway MD (Awarded)
- Ontonagon MD (Awarded)
- WI Point Piping Plover Habitat
  - Not Advertised Yet
- Duluth-Superior MD
  - Not Advertised Yet

### Beyond 2019

- Duluth-Superior MD
- St. Louis River Area of Concern (AOC) Remediation Projects
- Superior Entry Pier Sheet Pile Repair





# CONSTRUCTION PROJECT OVERVIEW



Lake Michigan Area Office - Kewaunee  
Area Engineer, Robert Stanick

### Key Completed Projects

- Underwood Creek Restoration
- De Pere Dam Emergency Repairs
- Kaukauna Dam Walkway Replacement
- Cat Island

### Key Contractors

- Lunda Construction
- Michels Corporation
- SAF Inc.





# CONSTRUCTION PROJECT OVERVIEW



Lake Michigan Area Office – Grand Haven  
Area Engineer, Robert Stanick

### Key Completed Projects

- Grand Haven South Pier Repairs
- Sabin Dam Removal & River Restoration
- FY18 Maintenance Dredging



### Key Contractors

- Job Site Services
- The King Company
- MCM Marine
- Great Lakes Dock & Materials





# CONSTRUCTION PROJECT OVERVIEW



Lake Michigan Area Office  
Area Engineer, Robert Stanick

## KEWAUNEE, WI

### Key Future Projects

- De Pere Dam Walkway Replacement
- Sheboygan South Pier Repair
- Honey Creek Restoration
- Kinnickinnick River Restoration

## GRAND HAVEN, MI

### Key Future Projects

- Union Street Dam Fish Passage
- Muskegon South Breakwater Connector Repairs
- Grand Haven North Pier Wave Attenuator
- Elkhart River Dam Removal
- Grand River Sea Lamprey Barrier
- Little Manistee River Sea Lamprey Barrier



# CONSTRUCTION PROJECT OVERVIEW



Sault Ste. Marie Area Office  
Area Engineer, Kevin Sprague

### Key Completed Projects

- Mac Embedded Anchorages
- Poe Quoin & Miter
- Comp. Works Automation
- Poe Electric Rehab

### Key Contractors

- Ryba Marine
- Koontz Electric





# CONSTRUCTION PROJECT OVERVIEW



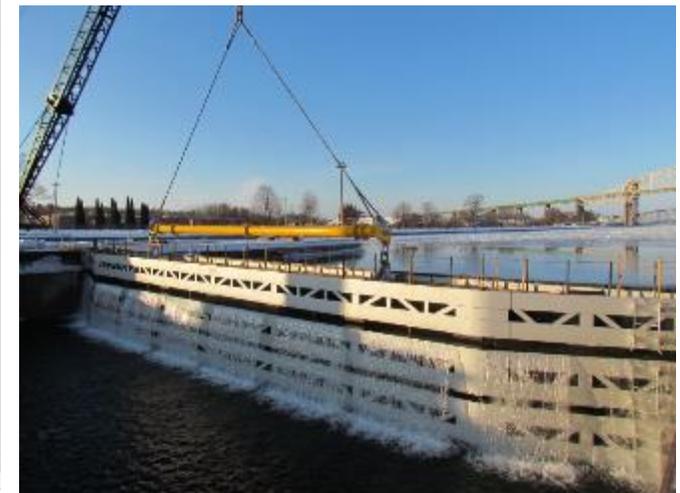
Sault Ste. Marie Area Office  
Area Engineer, Kevin Sprauge

## Key CURRENT PROJECTS

- West Center Pier Bollards
- Switchgear & Excitation Modernization
- Dredging Whitefish Pt. & Big Bay
- MacArthur Lock Bulkheads
- Poe Lock Bulkheads
- Mac and Poe Lock Lifting Beams

## Key Contractors

- Roen
- Addon
- MCM Marine
- Stewart Manufacturing
- G&G Steel





# CONSTRUCTION PROJECT OVERVIEW



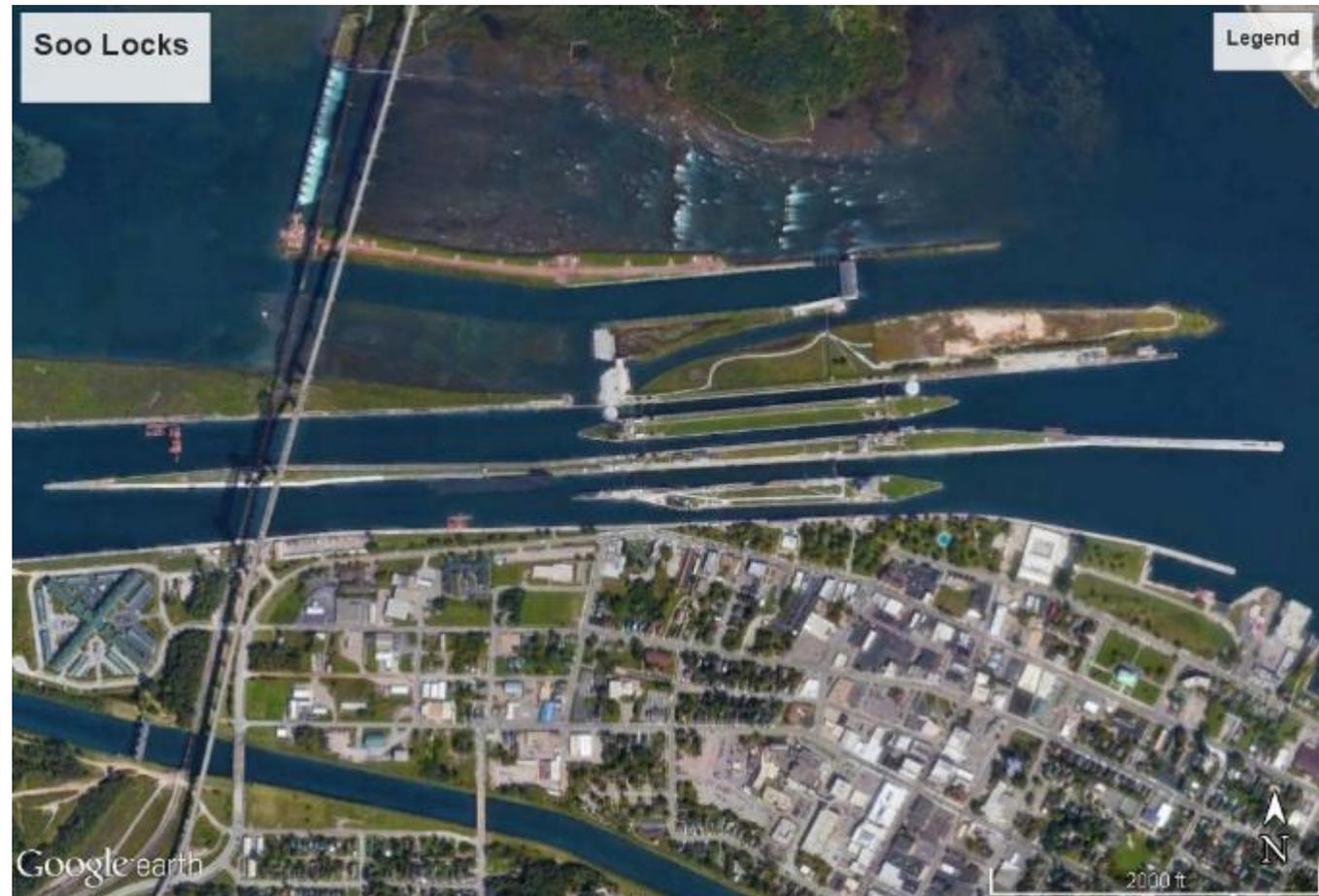
Sault Ste. Marie Area Office  
Area Engineer, Kevin Sprauge

## Key FUTURE PROJECTS FUNDED

- Waterway Signage
- Steam Plant Modernization
- Davis & Poe Well Rehab
- Poe Ship Arrestor
- Mac Tainter Valve Machinery
- New Lock Upstream Deepening

## Key FUTURE PROJECTS (in design)

- Hydropower concrete spill repair
- Hydropower Breaker Replacement
- Emergency Closure
- Emergency Generator
- Manistique Sea Lamprey Barrier
- Mac Ship Arrestor
- Center Dike
- New Lock Approach Wall



# CHICAGO DISTRICT CONSTRUCTION PROJECT OVERVIEW

Philip Stavrides  
Chief Construction – Chicago District  
Date: 31 January 2019



US Army Corps  
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# CHICAGO DISTRICT PROJECTS - YEAR IN REVIEW -



Empty McCook Reservoir on the day of the ribbon cutting ceremony in December 2017



Full reservoir following rains February 21, 2018



# FY 17 PERMANENT DISPERSAL BARRIER I PROJECT B - BUILDING



**Contract Awarded: 29 September 2014**

**Completion: 15 May 2018**

**Contract Amount: \$23,011,205.54**

**The Scope of Work**

- Construction of the proposed Permanent Barrier I building.
- Associated electrical and mechanical equipment, wiring, plumbing and production ceiling systems.
- Construction of 3400 linear feet of exterior electrical duct banks with utility manholes for power supply.
- Walkways and parking areas.
- The majority of the electrical work will be located in bedrock and coordinated with the local utility company.

**Location:** Romeoville, Illinois

**Contractor:** E. P. Doyle & Sons, LLC





# FY17 CSSB BARRIER 1 BACKUP POWER AND CONTROL GEAR



**Contract Awarded: 31 August 2015**

**Completion: 15 March 2018**

**Contract Amount: \$9,399,112.00**

**The Scope of Work Scope of Work:**

- Construction of a Power Distribution Building Facility.
- Installation of two standby, 7.75 MW generators.
- Installation of control systems for managing utility power from the source and routing to the power.

**Location: Ringwood, Ohio**

**Contractor: Doyle & Son, LLC**





# CUP MCCOOK MAIN TUNNEL SYSTEM



**Contract Awarded: 29 September 2011**

**Completion: 20 April 2018**

**Contract Amount: \$142,147,418.11**

**The Scope of Work :**

- Construction of a 33' Main Tunnel that connects the reservoir to the live Mainstream Tunnel 300' below ground.
- Installation of 6 rectangular gates that are each approximately 33' tall to control flow into the reservoir during a storm event.
- Construction of a concrete portal into Stage 1 of the reservoir which includes an energy dissipation structure.
- Construction of a live connection between the Main Tunnel and the existing Mainstream Tunnel that occurs without interruption to the Metropolitan Water Reclamation District's day-to-day operations.
- The purpose of the project is to connect Stage 1 of the reservoir to the Mainstream Tunnel System to allow for the use of treatment available.

**Location:** McCook, IL

**Contractor:** Kiewit Infrastructure Construction Co.





# CUP MCCOOK RESERVOIR FINAL PREPARATION



**Contract Awarded: 13 August 2015**

**Completion: 9 February 2018**

**Contract Amount: \$48,832,901.67**

**The Scope of Work :**

- Construction of Tunnel C which connects the reservoir to the Distribution Tunnel System.
- Construction of connection between Tunnel D and the Dewatering Tunnel.
- Installation of solar powered surface illumination system.
- Completion of concrete ramp to provide access to reservoir floor.
- Construction of tunnel stubs in weir wall to allow communication between Stage 1 and Stage 2 of the reservoir.
- Construction of Inflow / Outflow structure to control water movement through tunnel.
- The purpose of this project is to complete miscellaneous activities to allow Stage 1 of the reservoir to accept flow of CSO in storm event.

**Location:** McCook, IL

**Contractor:** Kiewit Infrastructure Co.





# CUP MCCOOK RESERVOIR DISTRIBUTION TUNNEL VALVE CHAMBER REPAIR



**Contract Awarded: 30 January 2015**

**Completion: 1 December 2017**

**Contract Amount: \$7,645,696.17**

**The Scope of Work :**

- The purpose of this project was to repair or replace various electrical and mechanical systems, within the Control Building and Valve Chamber.
- Operational valves and gates in this facility are essential for drawing down the 300 million gallon Stage 1 reservoir by discharging to the main stream pump station and subsequently to wastewater treatment plant.
- Ultimately with completion of Stage 2 by the Local Sponsor, the reservoir capacity will be 10 billion gallons.

**Location:** Jodgkins, IL

**Contractor:** Broadway Electric, Inc.





# PERMANENT DISPERSAL BARRIER I PULSE GENERATING SYSTEM



**Contract Awarded: 27 September 2018**

**Completion: 25 March 2021**

**Contract Amount: \$16.1 Million**

**The Scope of Work:**

- Design, furnish, and install a pulse generating system for Barrier 1
- Includes a Pulse Generating Control System, Power Monitoring System, Cooling Control System, and Control System Database

**Location:** Romeoville, Illinois

**Contractor:** Exp Federal





# FY18 CSSC ELECTRIC FISH DISPERSAL BARRIER ELECTRODE REPLACEMENT



**Contract Awarded: 17 December 2017**

**Completion: 18 June 2019**

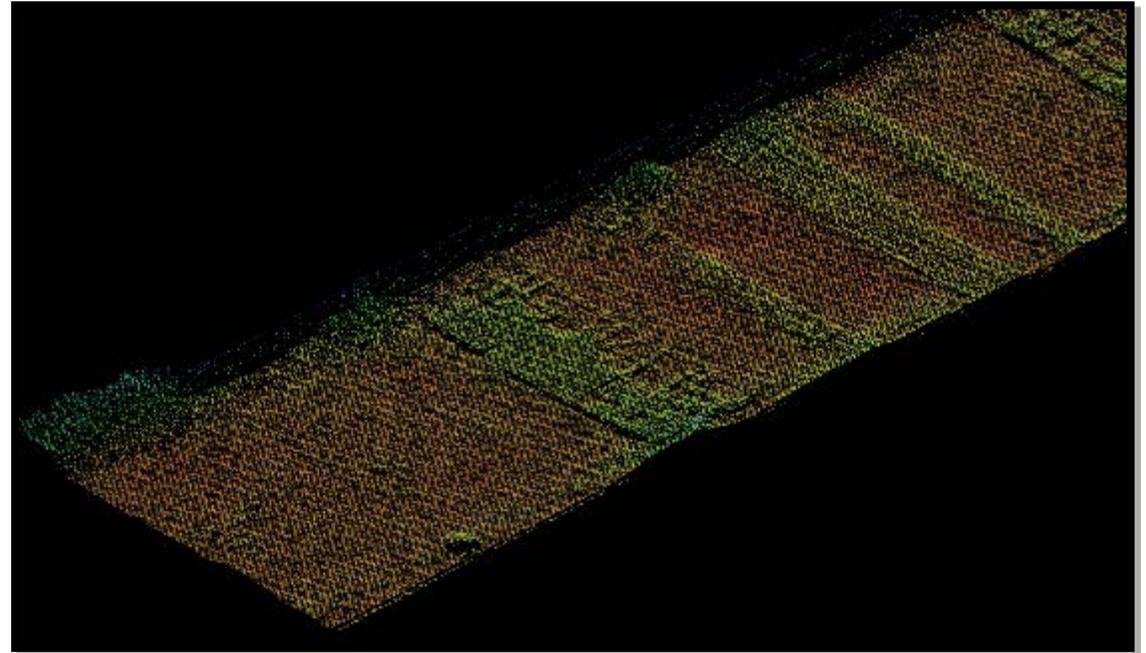
**Contract Amount: \$3,174,946.00**

**The Scope of Work Scope of Work:**

- Underwater demolition & installation of new electrodes, cables, connectors and disconnect switches for Barriers IIA, IIB, and the Demonstration Barrier;
- Installation of sleepers at the Demonstration Barrier.
- Install conductors, and incidental related work for all the electrical distribution systems at the Dispersal Barrier.

**Location:** Romeoville, Illinois

**Contractor:** E. P. Doyle & Son, LLC





# INDIANA HARBOR DREDGING AND FACILITY OPERATIONS



**Contract Awarded: 30 September 2016**

**Completion: 30 September 2019**

**Contract Amount: \$34,929,995 (Base Year +  
Option Year 1 & 2 of IDIQ)**

**The Scope of Work:**

- Mechanically dredge sediment within the Indiana Harbor & Canal, hydraulically dispose of sediment within the upland confined disposal facility (CDF). Perform facility operations and water treatment services as necessary.
- 245,000 CY dredged from federal channel in FY18.
- 6,300,000 gallons of waste water treated from CDF and returned to canal in FY18.
- FY19 proposed combined TSCA & Maintenance Dredging in the amount of 250,000 CY!

**Location:** East Chicago, IN

**Contractor:** Kokosing Construction / O'Brien & Gere  
JV





# CALUMET HARBOR ROCK REMOVAL



**Contract Awarded: 26 September 2018**

**Completion: October 2020**

**Contract Amount: \$6,384,170**

**The Scope of Work:**

- Removal of approximately 26,000 CY of dolomite from the bottom of the harbor that needs to be removed in order to ensure availability of the authorized depth in the channel.
- Work consisted of underwater drilling and blasting, followed by excavation and disposal in the Calumet Harbor Confined Disposal Facility.

**Location:** Calumet Harbor, IN and IL

**Contractor:** Roen Salvage Company





# WAUKEGAN HARBOR SOUTH PIER RESURFACING



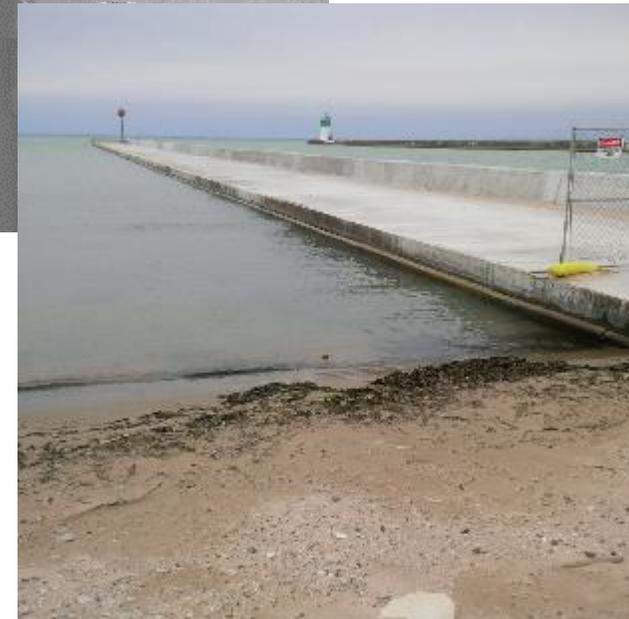
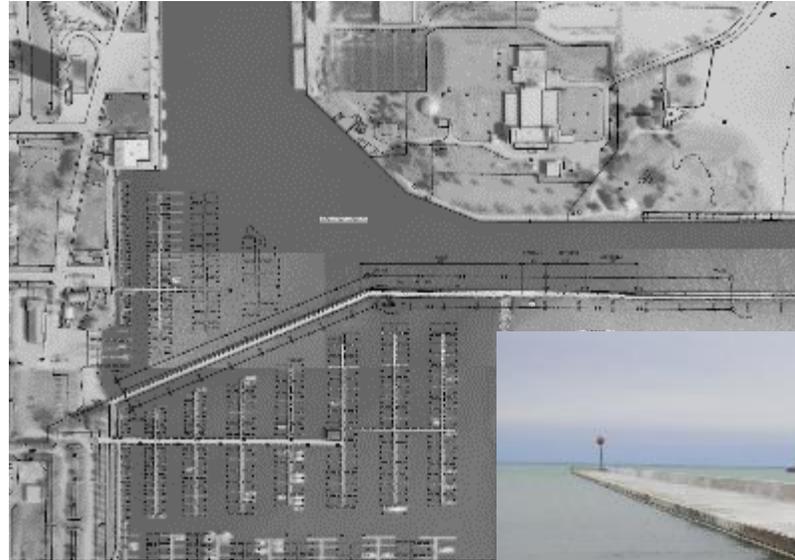
**Contract Awarded: 27 September 2018**  
**Substantial Completion: 24 October 2019**  
**Contract Amount: \$1,574,620**

**The Scope of Work:**

- Contractor to provide all labor and materials to refinish the surface of the South Pier located in Waukegan Harbor, IL. The pier was deteriorating from age.

**Location:** Waukegan, IL

**Contractor:** Foundation Mechanics, LLC





# SAFETY, OUTREACH, AND MORE!





# SAFETY



## District Safety Officer:

Peter Flanagan

[Pete.C.Flanagan@usace.army.mil](mailto:Pete.C.Flanagan@usace.army.mil)

Annual Safety Meeting – March 6 2019

CESOHMS – Mid Implementation Phase

Safety Incentive Awards



# CESOHMS *Express*

March 2019



# IIS PROGRAM



**Project Title and Location:** Abraham Lincoln National Cemetery, Elwood, IL

**Scope:**

- Design of 5,000 niche mausoleum
- 750 in ground cremains cemetery expansion

**Magnitude of Construction: \$3.9M**

**Mobilization:** February 2019

**Contractor:** Troop Contracting





# EMERGENCY MANAGEMENT AND OCO SUPPORT



**Events:**

- Hurricane Harvey (Texas)
- Hurricane Maria (Puerto Rico)
- Hurricane Irma (Florida)
- Overseas Construction (Afghanistan)

**Supported missions include:**

- Temporary Housing Mission
- Temporary Roofing Mission
- Temporary Power Mission
- Power Restoration Mission
- GIS Support
- Safety Support
- PAO Assistance

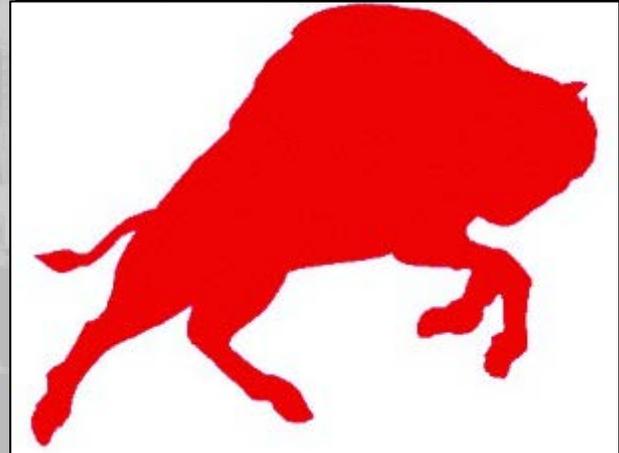
**Construction Branch Deployees:**

- Nihad Halilovic, Andrew Farver, Ryan Moore, Charsian Schaffer, Greg Shaw, John Green, Andrew Boston



# BUFFALO DISTRICT CONSTRUCTION PROJECT OVERVIEW

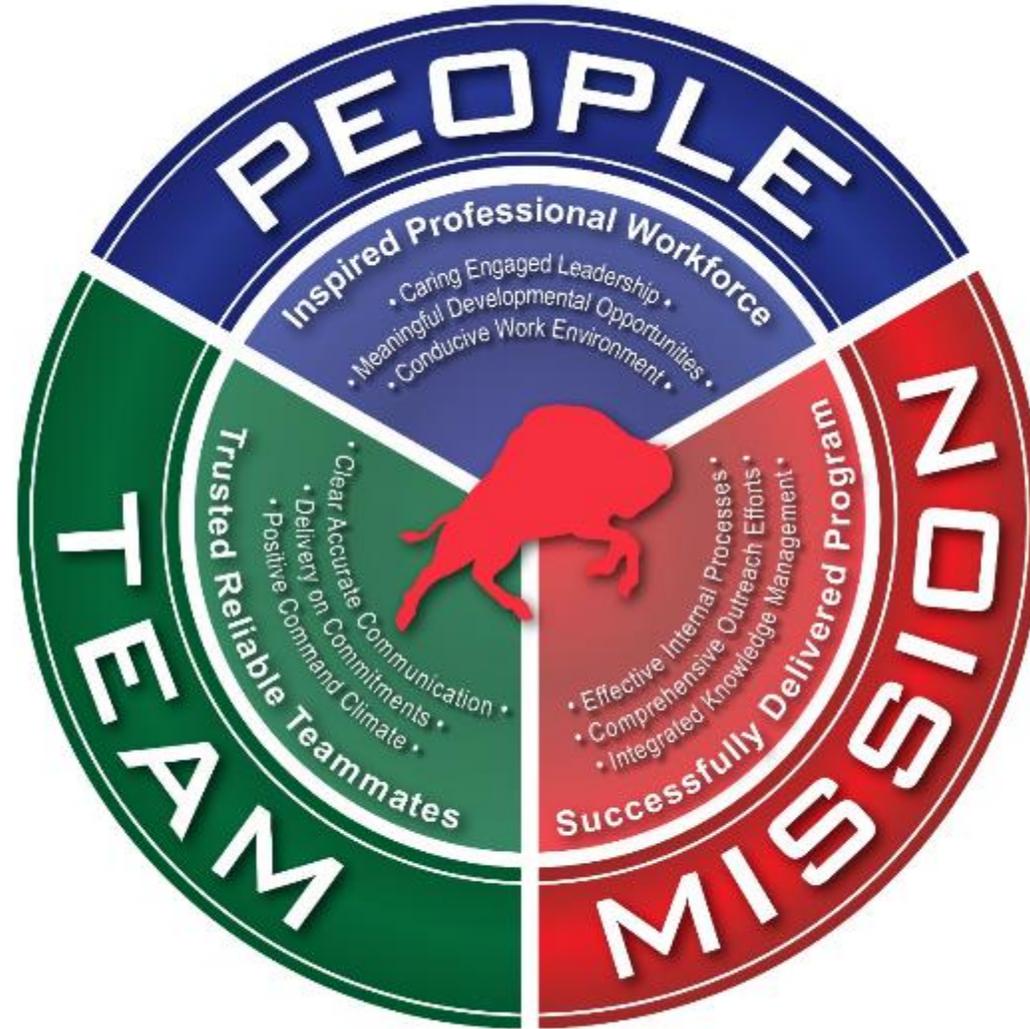
Matthew Snyder  
Chief Construction – Buffalo District  
Date: 31 January 2019



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# BUFFALO DISTRICT VISION





# CONTRACTING PERSONNEL



NAME	TITLE	NUMBER	EMAIL
Jeffrey Ernest	District Contracting Chief, Buffalo and Pittsburgh Districts	716-879-4173	Jeffrey.G.Ernest@usace.army.mil
Ty Palaganas	Buffalo District Contracting Chief	716-879-4126	Tyrone.b.palaganas@usace.army.mil



# CONSTRUCTION PERSONNEL

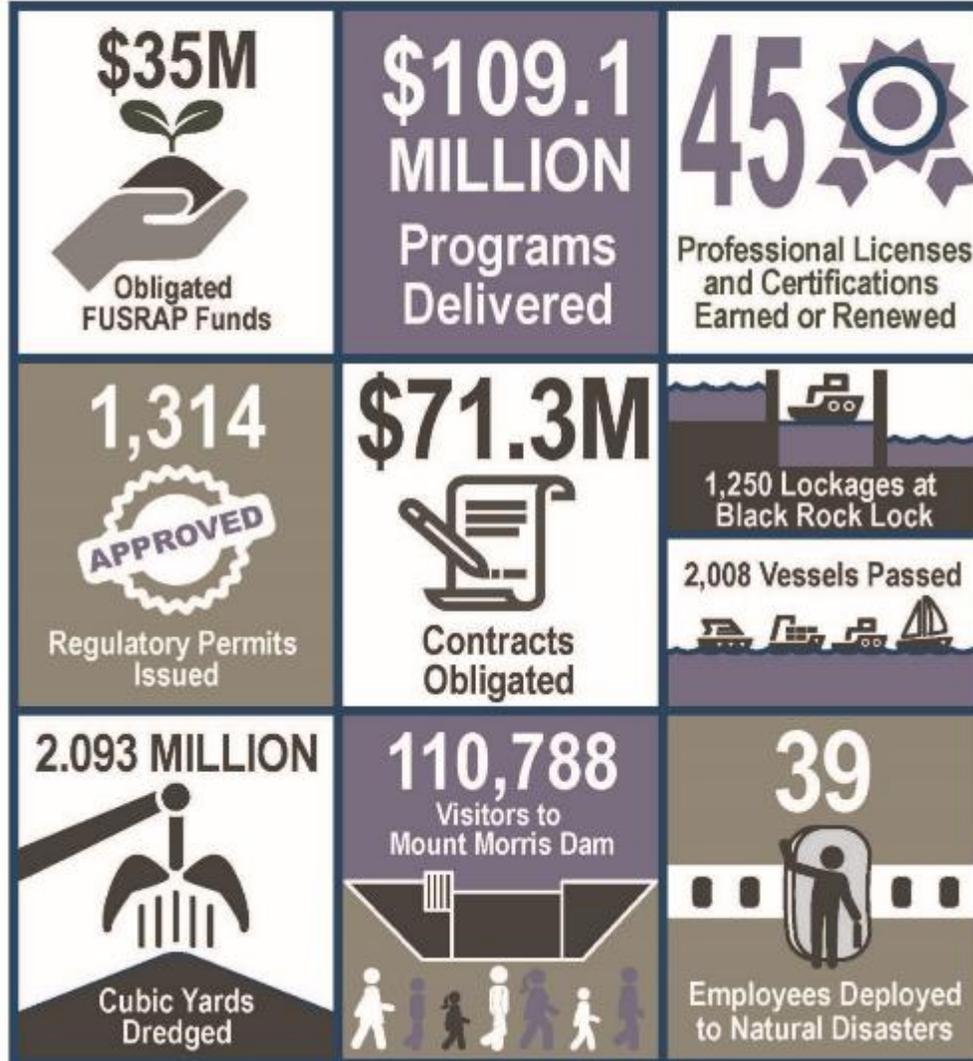


NAME	TITLE	NUMBER	EMAIL
Matthew Snyder	Construction Branch Chief	216-685-1206	Matthew.a.Snyder@usace.army.mil
Ryan Lenihan	NYPA Area Engineer	716-879-4397	Ryan.c.lenihan@usace.army.mil
Russell Wahlay	OAO Area Engineer	216-685-1205	Russell.wahlay@usace.army.mil
Christopher Ignatowski	Construction Branch Engineer (RMS/CPARS)	716-879-4257	Christopher.t.Ignatowski@usace.army.mil



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Buffalo District

# 2018 FISCAL YEAR BY THE NUMBERS



# BUFFALO DISTRICT: MOVING DIRT



## BREAKWATERS



**SHORELINE PROTECTION**



**SOIL REMEDIATION**

## ECOSYSTEM



**RESTORATION**



**DREDGING**

## VERTICAL



**CONSTRUCTION**



# **Beneficial Use of Dredge Material from the Buffalo River Federal Navigation Channel to Restore Wetland Habitat in the Upper Niagara River, Buffalo, NY**

**Ryan Lenihan, Area Engineer  
Katie Lewis, Contracting Officer's Rep**

**US Army Corps of Engineers,  
Buffalo District**





# AQUATIC HABITAT CONDITIONS AT UNITY ISLAND PARK





# OVER-ARCHING PROJECT GOALS



- Restore riverine wetland habitat within the Upper Niagara River
- Beneficially use dredge material for habitat restoration
- Increase hydrologic connectivity between the main-stem Niagara River and the aquatic habitats of Unity Island
- Initiate an invasive species management program (ISMP)
- Enhance recreational opportunities for local urban and regional communities
- Contribute to the delisting of the Niagara River Area of Concern



# PHASE 1 - HABITAT RESTORATION MEASURES

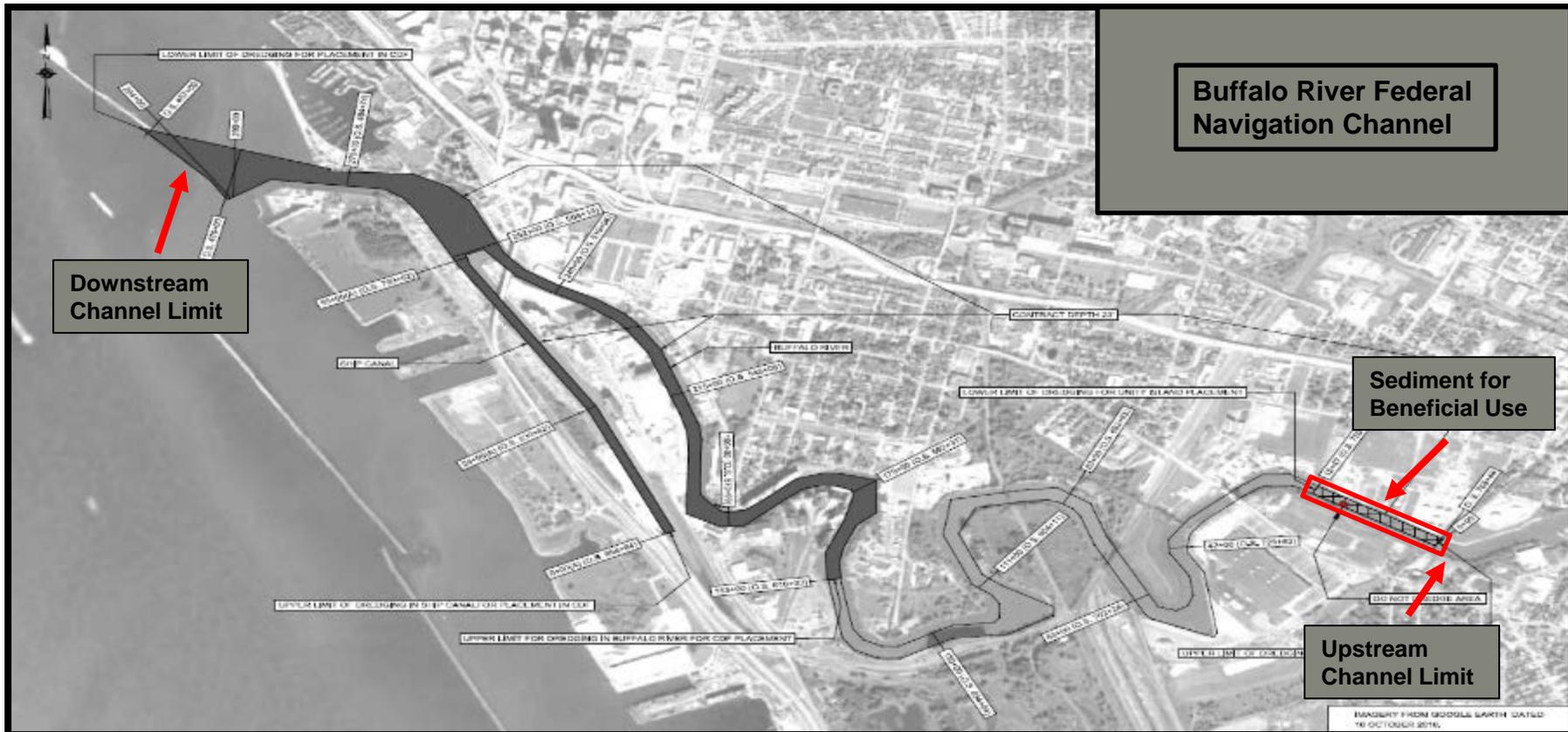




# PHASE 2 - BENEFICIAL USE OF DREDGE MATERIAL FOR WETLAND CREATION



- Section 204 of the Water Resources Development Act of 1992 established a program for ecosystem restoration beneficially using dredged material
- 2000 - 2012: USACE/USEPA Environmental Dredging removed all contaminated sediment from the Buffalo River
- 2012 & 2016: sediment in the upper Buffalo River Federal Navigation Channel has been thoroughly tested and determined to be clean and suitable for wetland creation at the Unity Island North Pond
- 2016: City of Buffalo was awarded a grant from the New York Power Authority's Habitat Enhancement and Restoration Fund



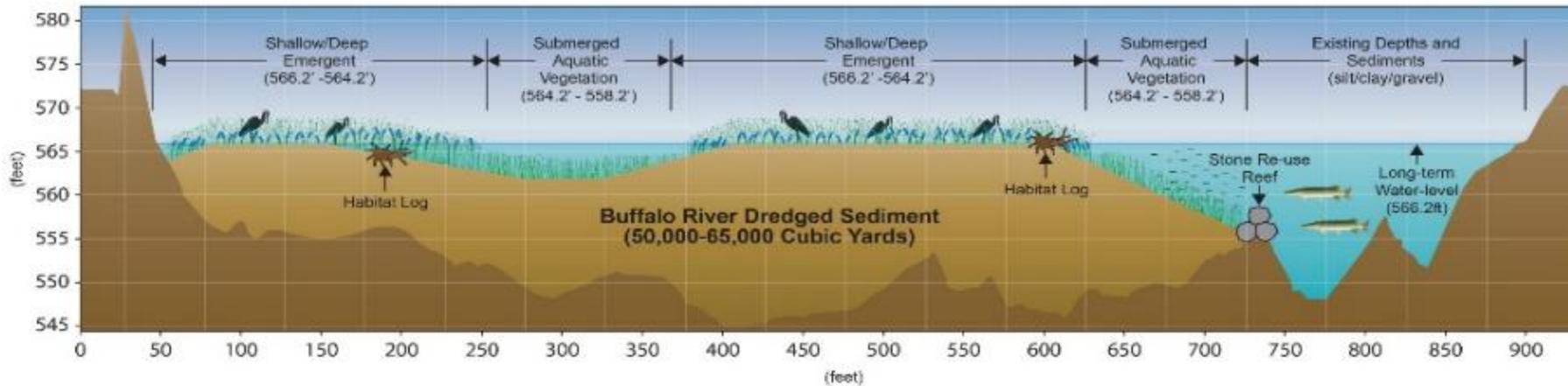
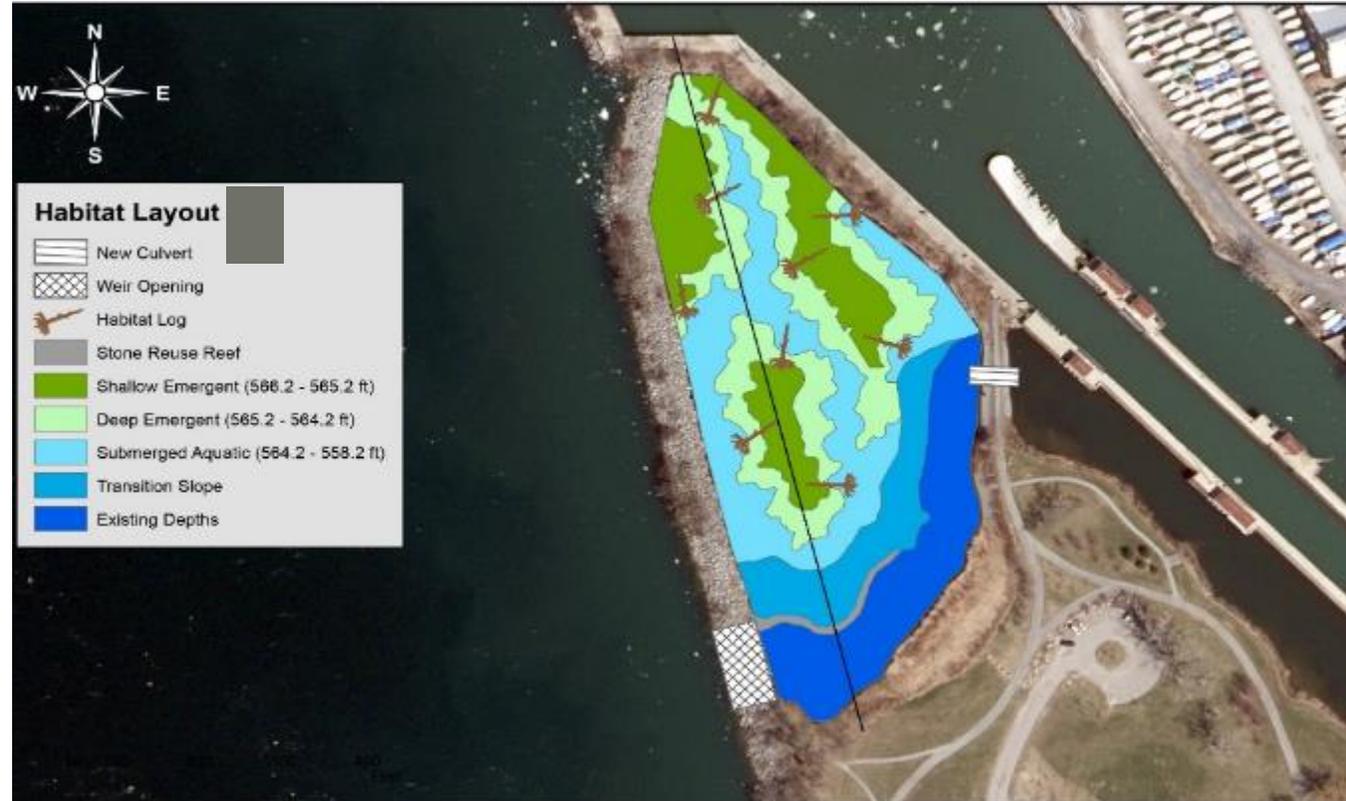


# DREDGE MATERIAL DESTINATION





# CONCEPTUAL HABITAT LAYOUT – HEMI-MARSH





# PLACING OF DREDGED MATERIAL





# NO COST DIFFERING SITE CONDITIONS MODIFICATION



Contract had 18,000 CY of material to be relocated.

- USACE was confident that over 18,000 CY was being relocated based on design estimates.

Unit price quantity of 18,000 CY would be converted to a lump sum.

- Allowed contractor to relocate material as they placed it.

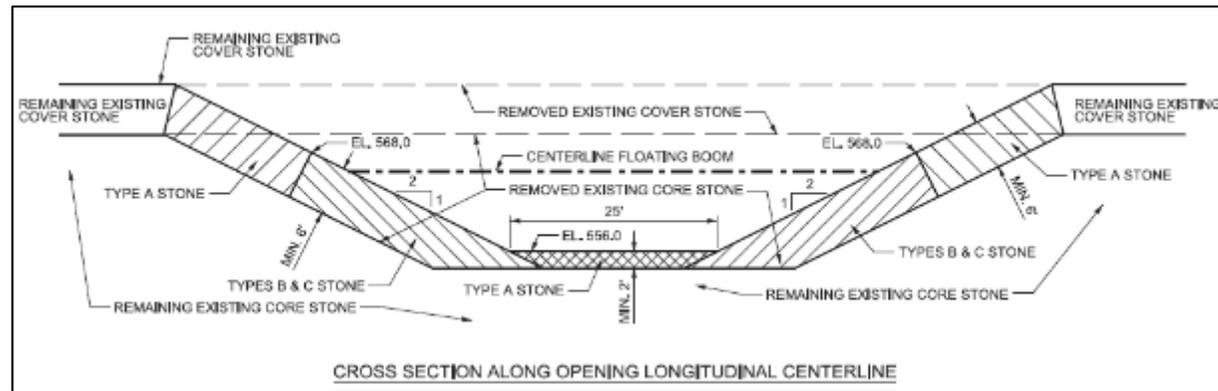
Created a win-win situation for both the USACE and the contractor.

- Ensured the contractor was compensated for relocation of material.
- Ensured no claim situations at the end of the project.
- Ensured successful completion of a first of its kind project on the Great Lakes.





# WEIR CONSTRUCTION



# FINAL HABITAT





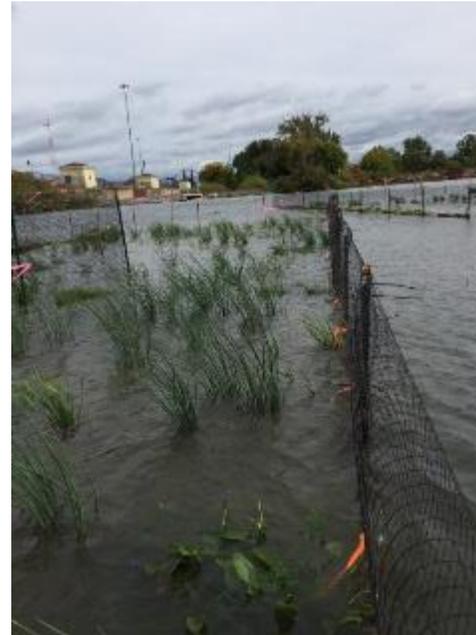
# END RESULT



Habitat that met all USACE Biologist and Design Team requirements  
Success of the project so far will open doors to similar projects and funding  
Alleviate some of the concerns with Dredge Material Management along the Great Lakes



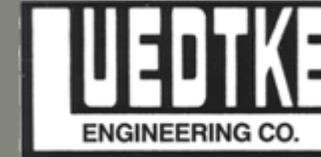
September 2018



October 2018



# ACKNOWLEDGMENTS





# QUESTIONS?





# NEW SOO LOCK UPDATE

# NEW SOO LOCK & SOO MAJOR REHAB CONSTRUCTION

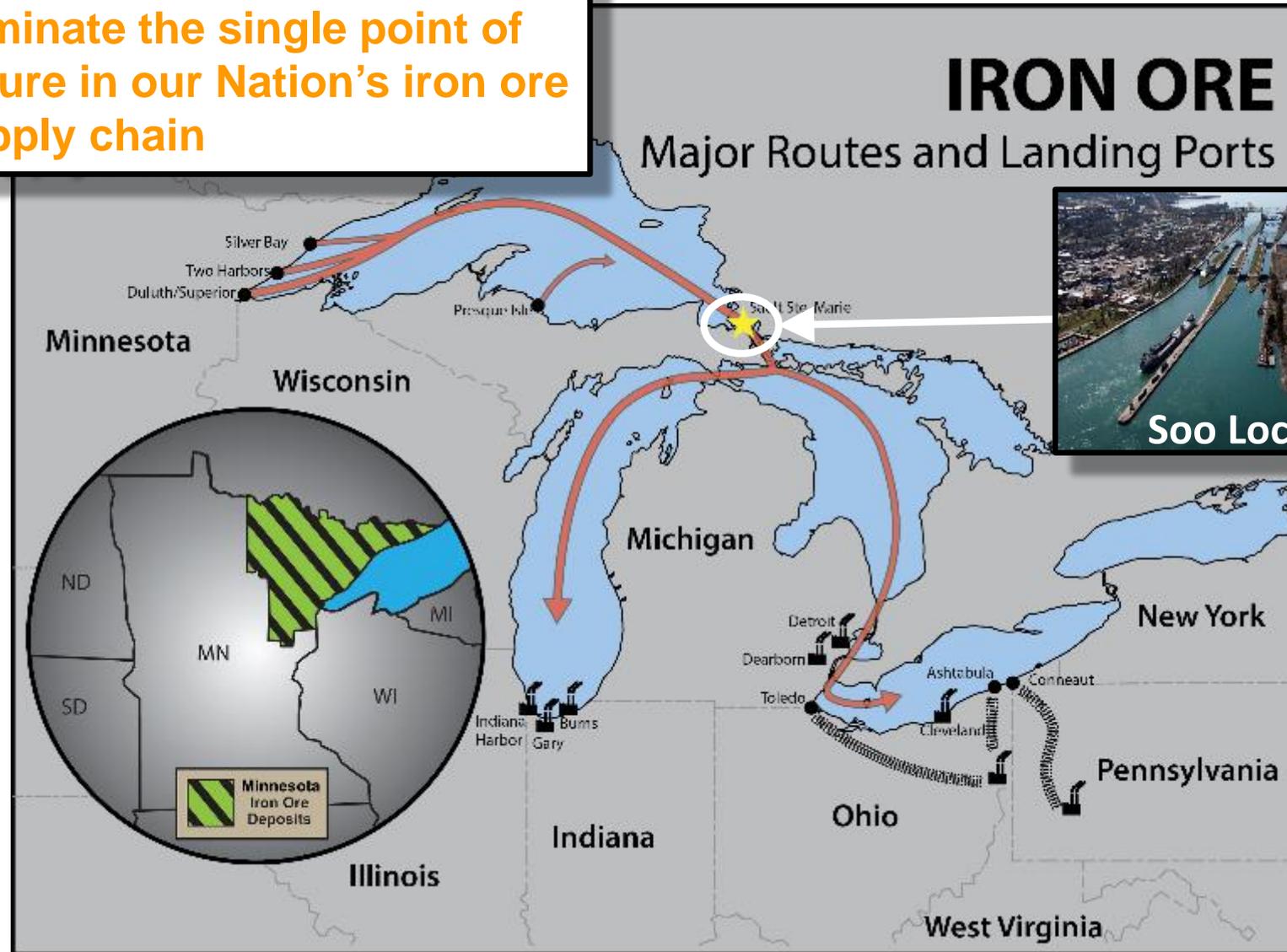
Mollie Mahoney, PE  
Project Manager  
Detroit District  
Date: 31 January 2019



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# SOO LOCKS LOCATION & IMPORTANCE

The New Soo Lock would eliminate the single point of failure in our Nation's iron ore supply chain





# NEW SOO LOCK PROPOSED PROJECT CONDITION



Existing



Proposed



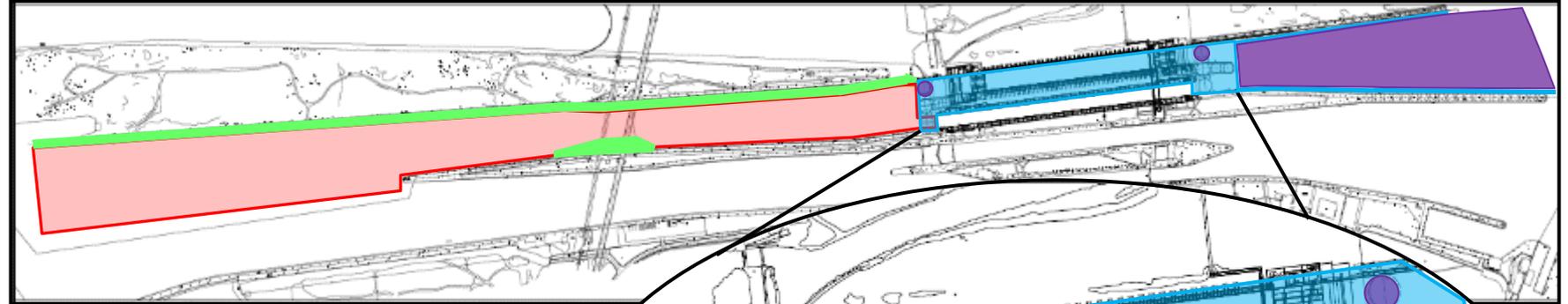
New lock will have **same dimensions** as existing Poe Lock (1200 ft. length by 110 ft. width and a depth of 32 ft.)

## Legislative Authority

- WRDA 1986 – Authorization to construct a **REDUNDANT** Poe-sized lock (1200' x 110')
- WRDA 2007 – Authorization updated to **FULL FEDERAL COST**
- WRDA 2018 – Authorization updated **TOTAL PROJECT COST** to \$1.03B



# NEW SOO LOCK CONSTRUCTION PHASES

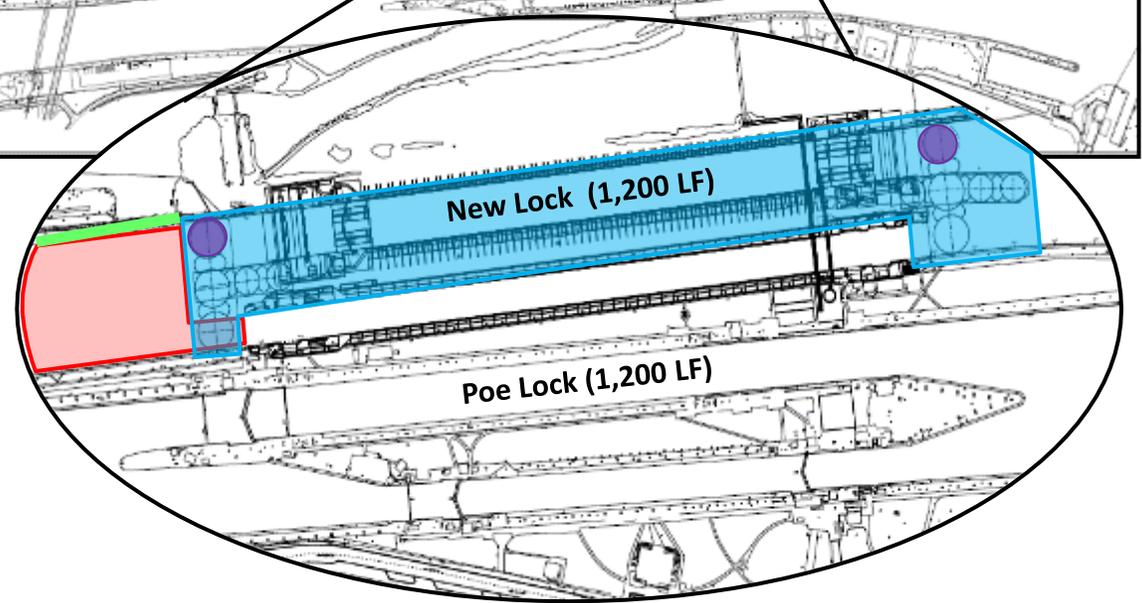


### Completed Work:

- Downstream Deepening
- Sabin Lock Cofferdams

### Remaining Work:

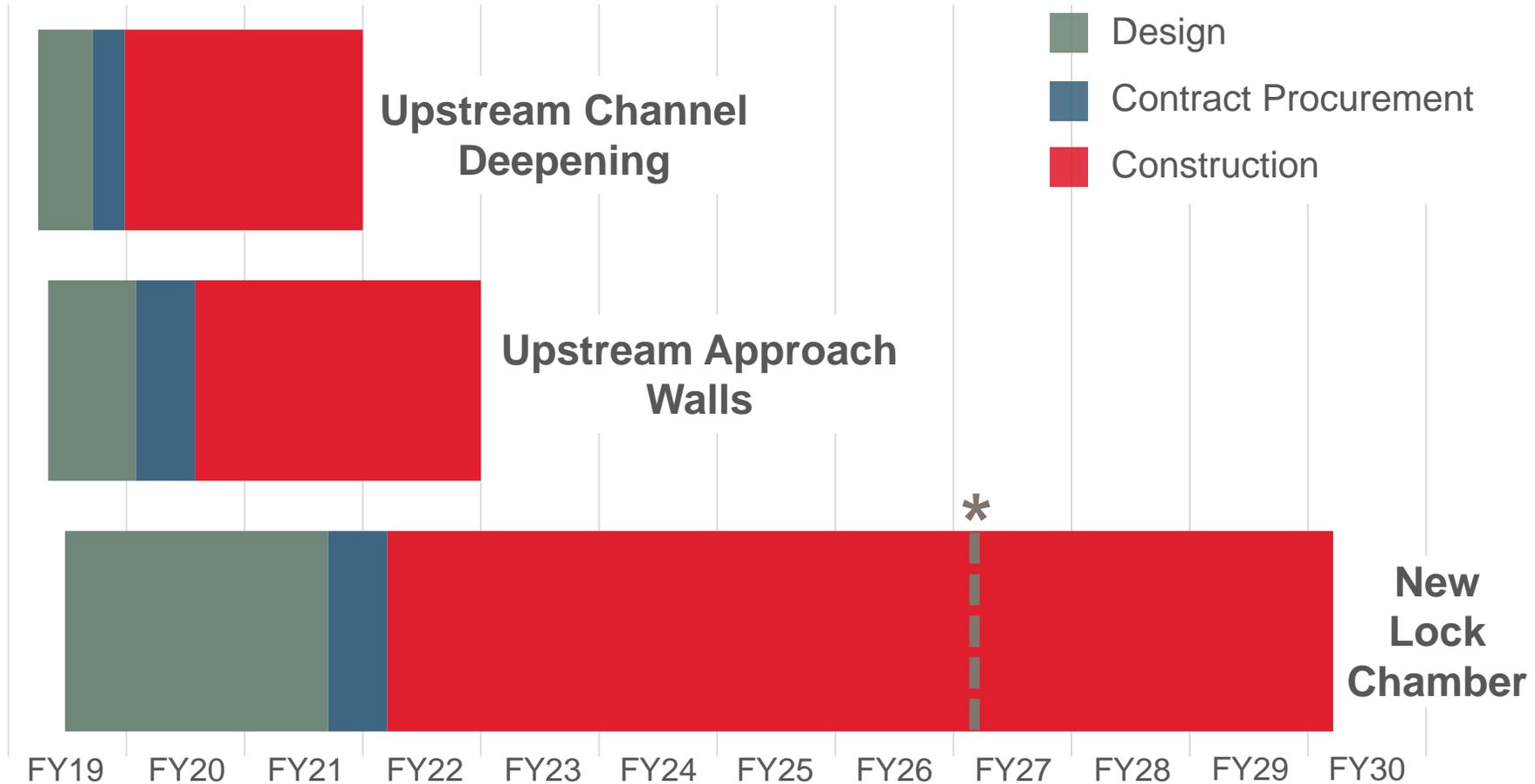
- (1) Upstream Channel Deepening  
**Fully Funded**
- (2) Upstream Approach Walls  
**Design Fully Funded**
- (3) New Lock Chamber  
**Design Partially Funded**



Note: projects are listed in order in which work is to be performed



# NEW SOO LOCK DESIGN AND CONSTRUCTION SCHEDULE (with Efficient Funding)



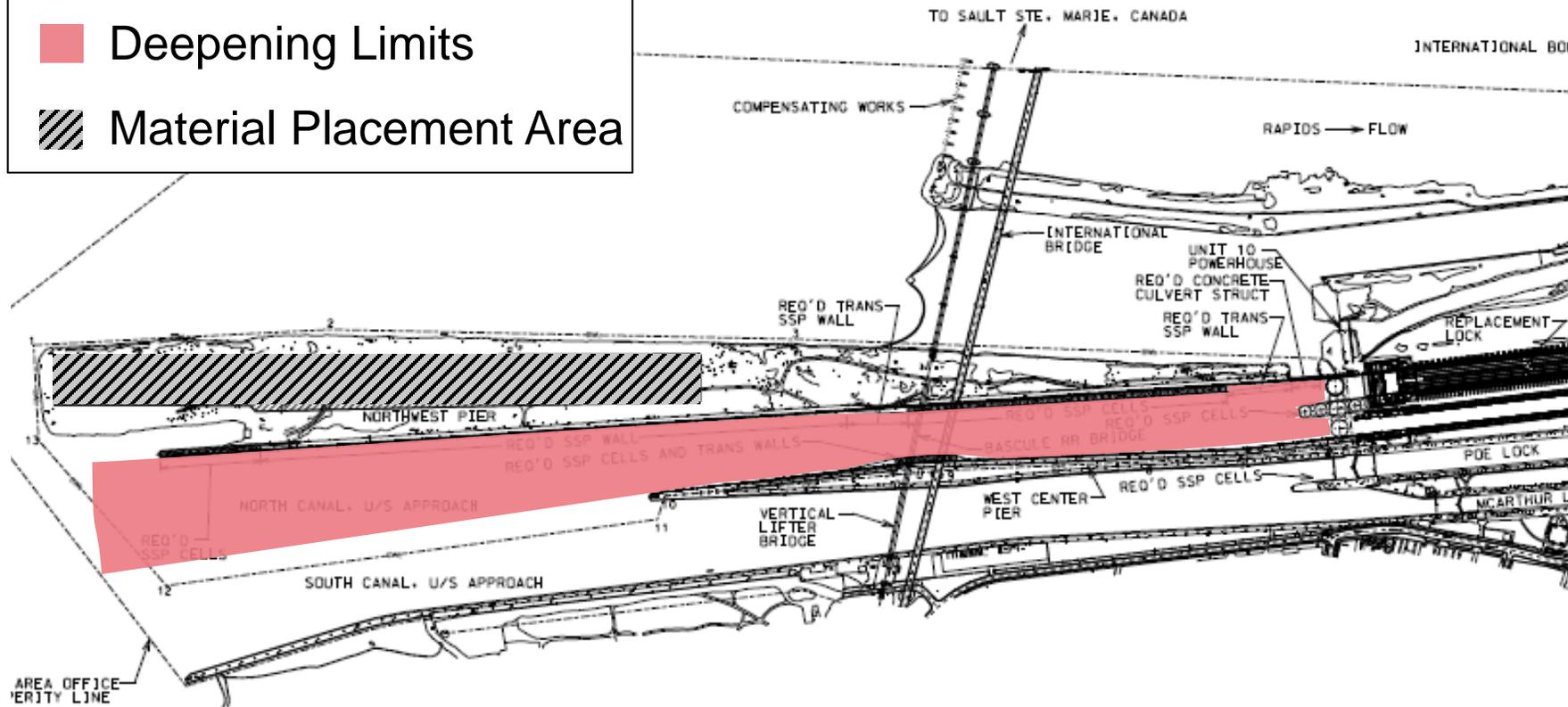
\* Early completion could be realized with efficient funding and favorable weather conditions



# NEW SOO LOCK UPSTREAM CHANNEL DEEPENING



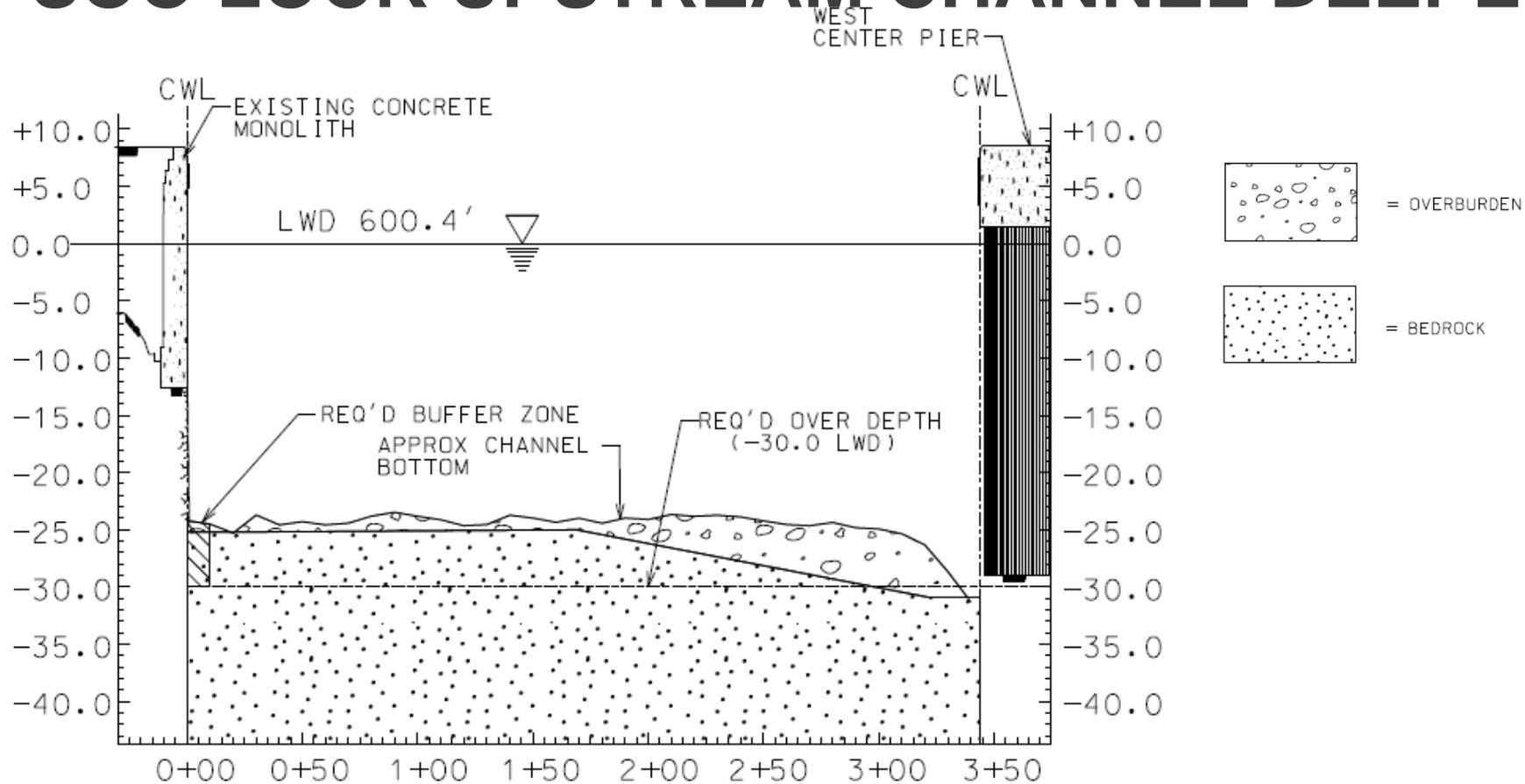
■ Deepening Limits  
▨ Material Placement Area



Solicitation Number: W911XK-19-B-0004  
Sources Sought Period: 28 Jan – 18 Feb  
Advertisement: July 2019  
Award: Sep 2019  
Magnitude: \$25M-\$100M



# NEW SOO LOCK UPSTREAM CHANNEL DEEPENING



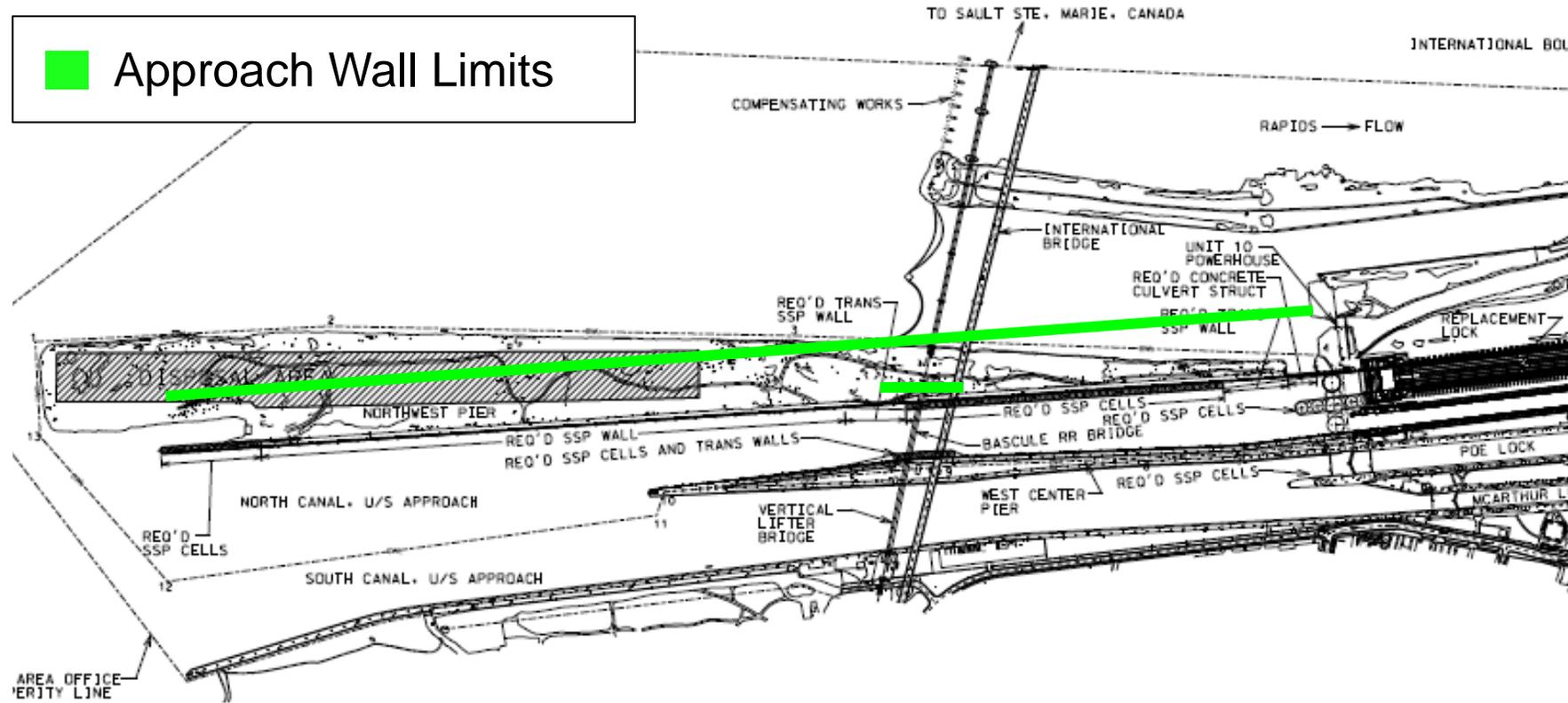
- Channel to be deepened to 29' + 1' Required Over depth + 1' Allowable Over depth
- 200,000 CY – 300,000 CY bedrock removal
- 100,000 CY of overburden material removal



# NEW SOO LOCK UPSTREAM APPROACH WALLS



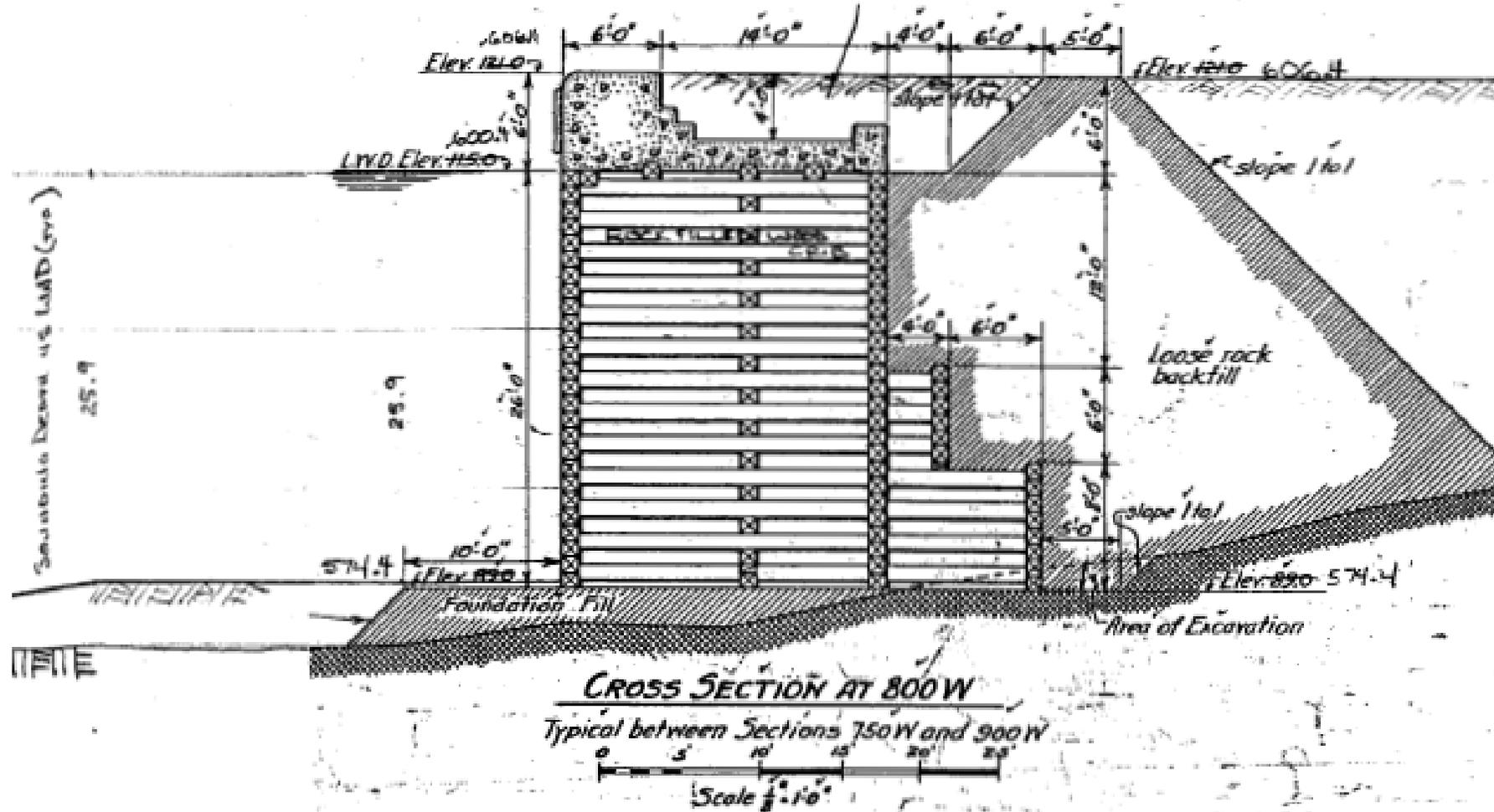
■ Approach Wall Limits



Status: Design Fully Funded, Construction Not Funded  
Magnitude: \$25M-\$100M  
Estimated Performance Period: 24 Months

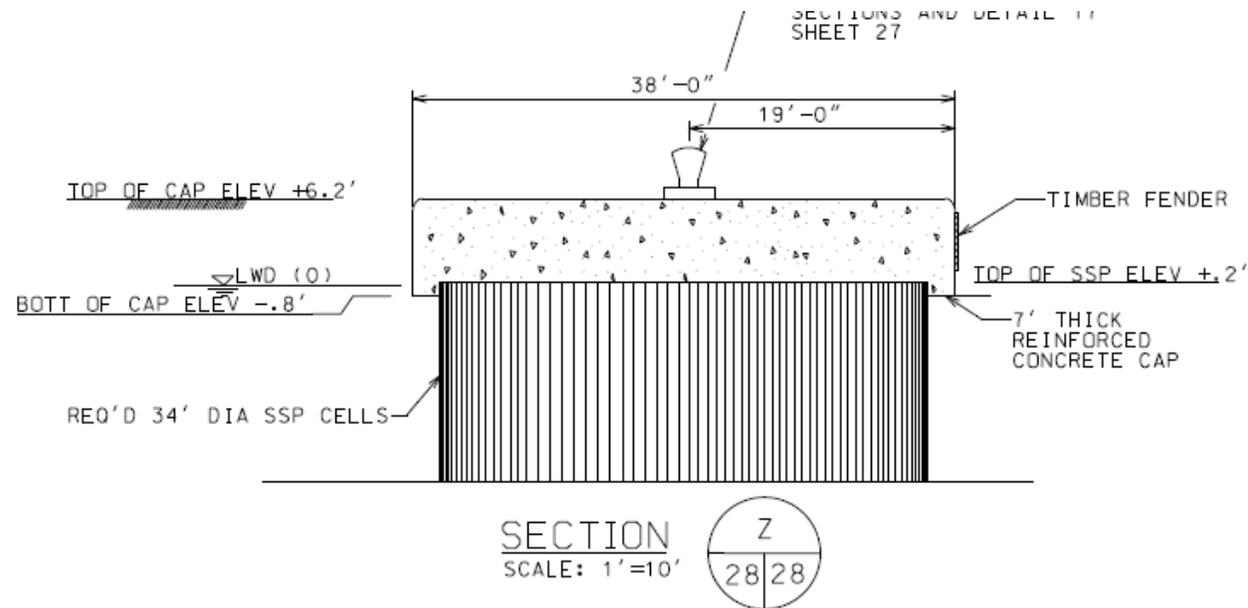
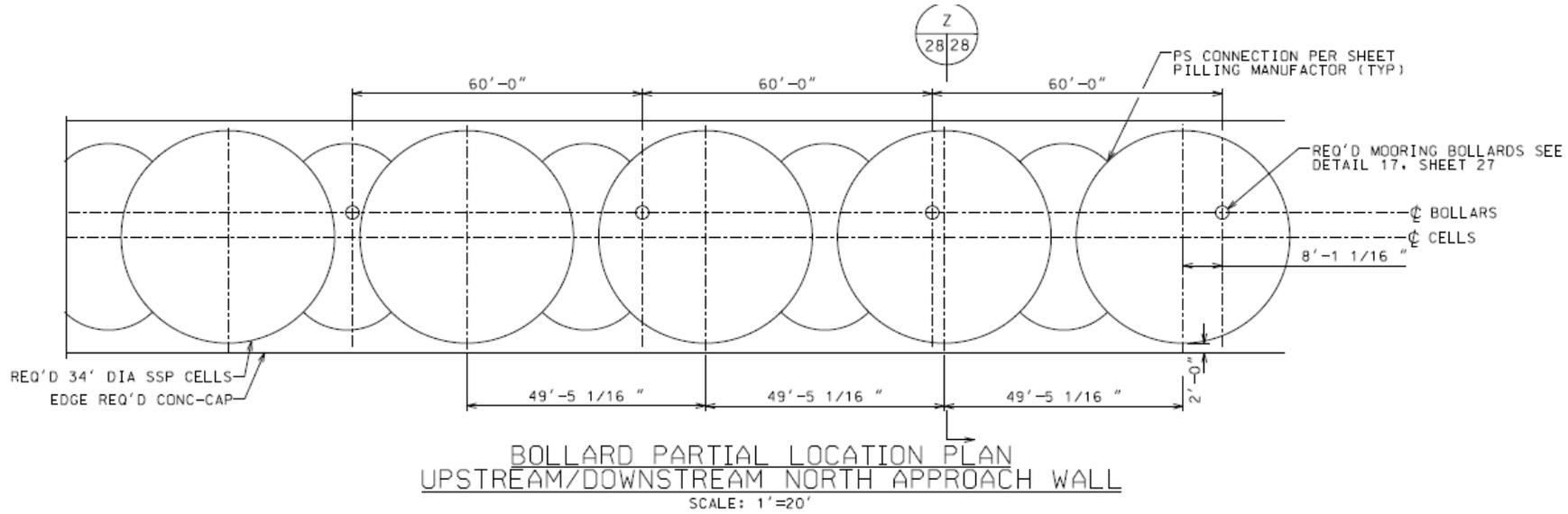


# NEW SOO LOCK UPSTREAM APPROACH WALLS





# NEW SOO LOCK UPSTREAM APPROACH WALLS

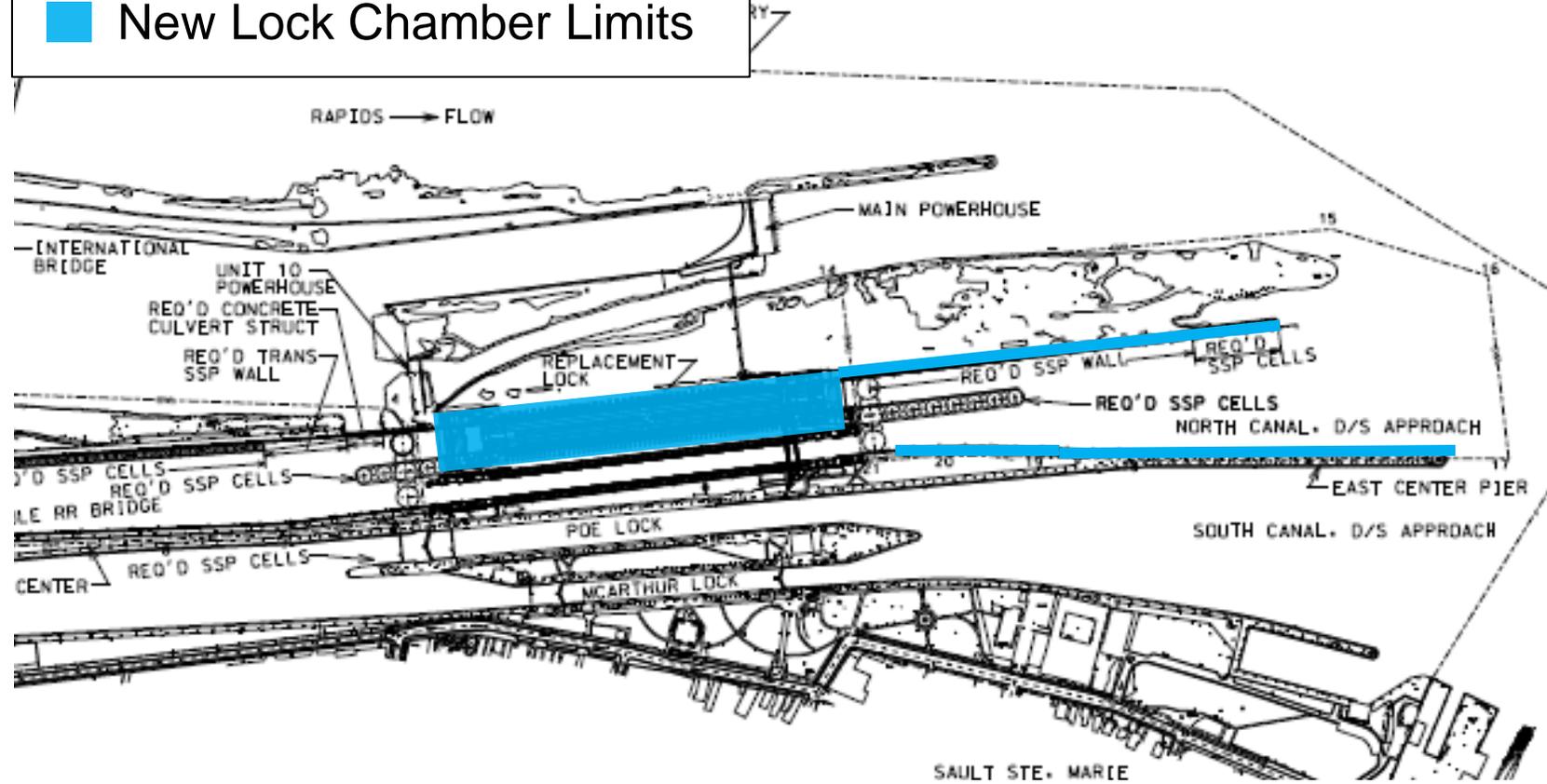




# NEW SOO LOCK CHAMBER



■ New Lock Chamber Limits



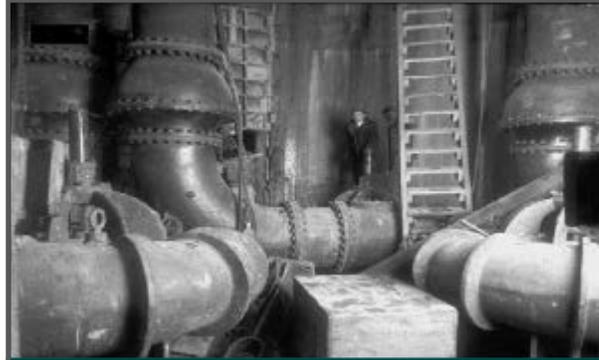
Status: Design Partially Funded, Construction Not Funded  
Magnitude: >\$100M  
Estimated Performance Period: 5-8 Years



# SOO MAJOR REHAB CONSTRUCTION



### Davis & Poe Pump Wells



The Davis well and its original pumps have been in service since 1914. These pumps will be replaced and well access will be improved.

### Poe Stop Logs



Poe Stop Logs in service at the upstream end of the lock to dewater the lock chamber and gates. Second set of stop logs will allow for the chamber and all gates to be dewatered.

### Poe Ship Arrestors



Deployed Poe Lock Ship Arrestor in the down position. In its current position, the ship arrestor is protecting the gates from down bound vessels.

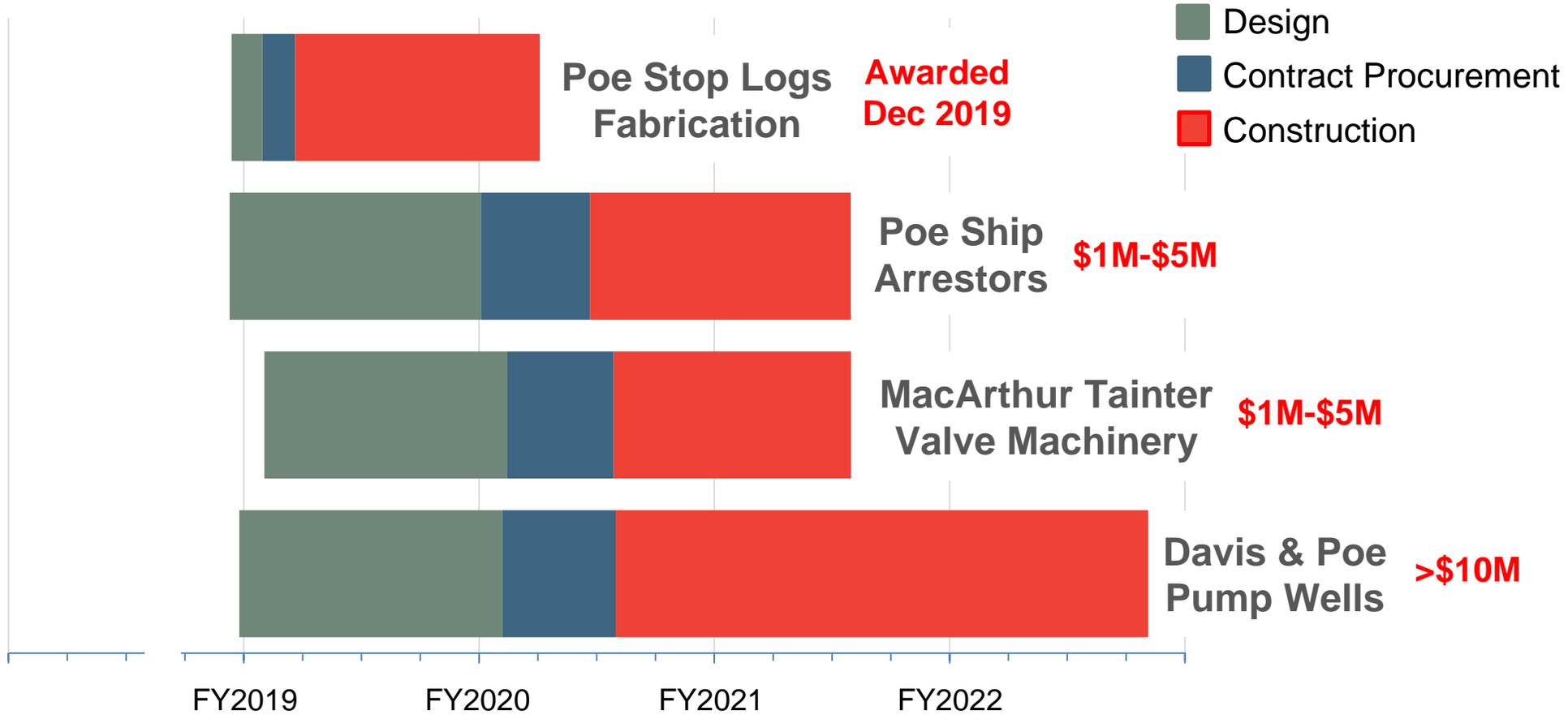
### Mac Tainter Valve Machinery



The MacArthur Tainter Valve sector gear (nearly 10' in diameter) opens and closes one of the lock's tainter valves. This gear and all other machinery have exceeded their design life and will be replaced.



# SOO MAJOR REHAB CONSTRUCTION SCHEDULE





**QUESTIONS?**



# SAFETY TOPICS & DISCUSSION

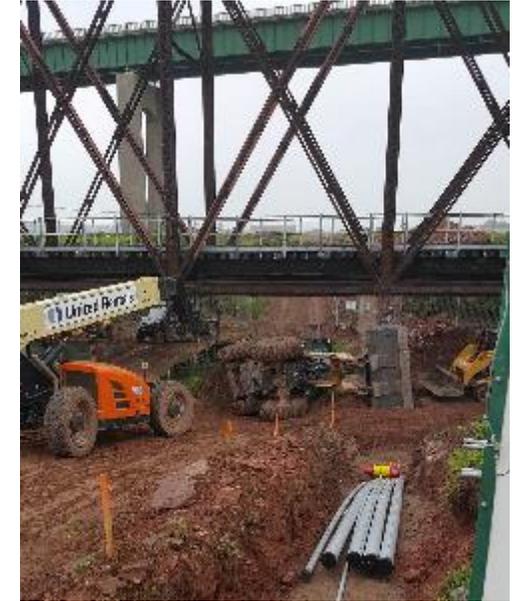
Michael A. Krzycki  
Safety Occupational Health Specialist  
Soo Area Office-Detroit District



# EM-385-1-1 APP ISSUES



- Hazard Communication Program
- Fall Protection Plans
- Critical Lift Review
- Hazardous Energy Control
- Equipment Training
- Competent Person-Designation and Documentation
- Hearing Protection/Noise Control





# CONTRACTING UPDATES



# CONTRACTING



## Lakes District Leadership

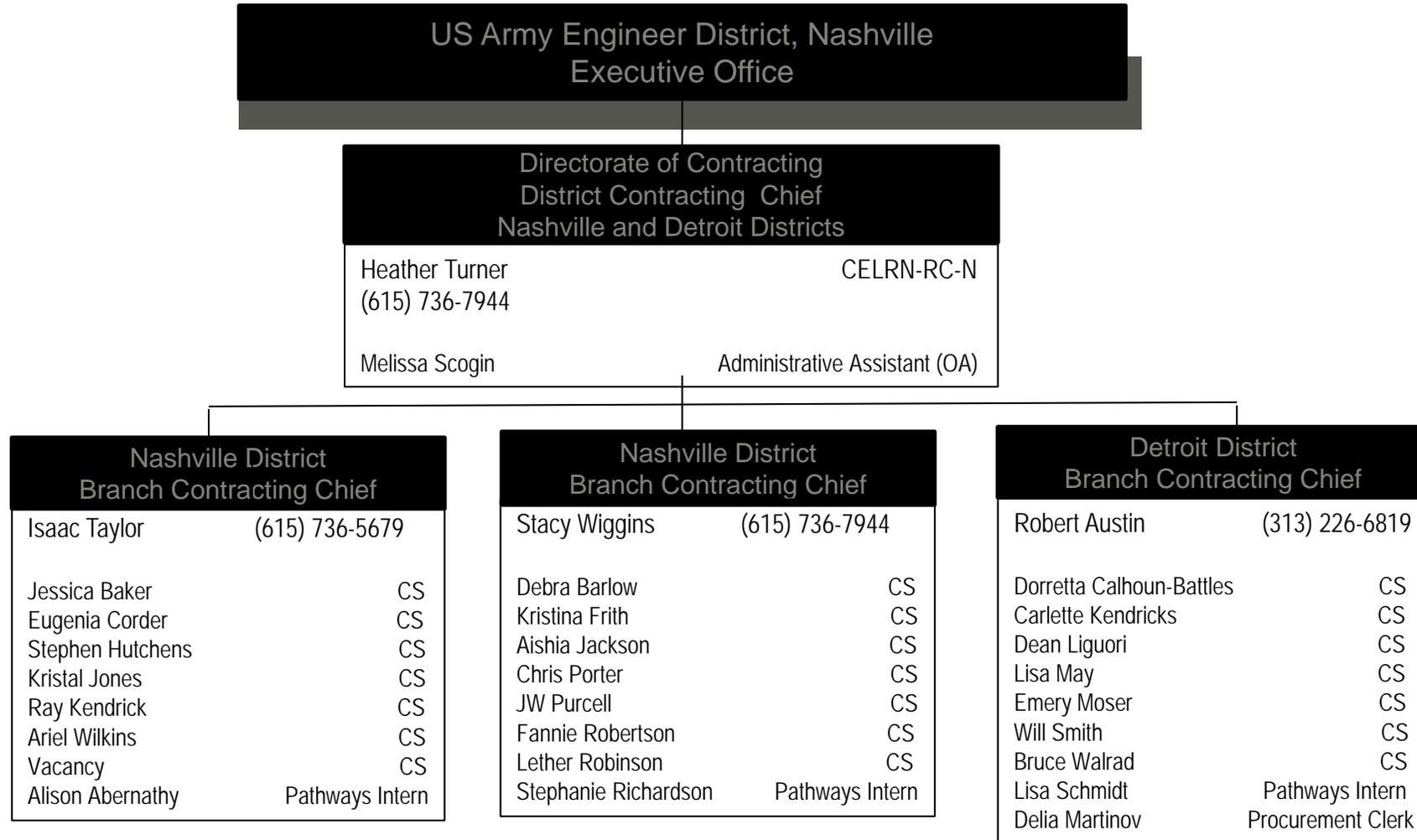
District Contracting Chief (DCC) (Nashville/Detroit) – Heather Turner  
Branch Contracting Chief (BCC) (Detroit) – Rob Austin

District Contracting Chief (DCC) (Chicago/Louisville) – Denise Bush  
Branch Contracting Chief (BCC) (Chicago) – Regina Blair

District Contracting Chief (DCC) (Buffalo/Pittsburgh) – Jeff Ernest  
Branch Contracting Chief (BCC) (Buffalo) - Ty Palaganas



# CONTRACTING ORG CHART





# CONTRACTING



## Business Opportunities

- FBO or FedBizOpps.gov
  - Chicago – W912P6
  - Detroit – W911XK
  - Huntington – W91237
  - Nashville – W912P5
  - Louisville – W912QR
  - Buffalo – W912P4
  - Pittsburgh – W911WN
- Deputy for Small Business
  - Detroit/Chicago – Michelle Williams [Michelle.B.Williams@usace.army.mil](mailto:Michelle.B.Williams@usace.army.mil)  
312-846-5565
  - Buffalo/Pittsburgh – Sherrie Plonski [Sherrie.Plonski@usace.army.mil](mailto:Sherrie.Plonski@usace.army.mil)  
412-527-5762



# CONTRACTING



- MATOC Status update - update on where we are in the process and when it will hit the street
- The USACE Buffalo (LRB), Chicago (LRC), and Detroit (LRE) Engineering Districts execute construction contracts for dredging of rivers, harbors, and federal shipping channels on the United States side of the Great Lakes basin. This acquisition will establish **two multiple award task order contract (MATOC) pools against which to write construction task orders** in a timely and economical manner for dredging projects in this area. The two MATOC pools will be awarded from one solicitation, and a contract will be awarded to all qualifying offerors. **Approximately 20 contracts will be awarded.** The total ordering period for each pool is **four years**. The pools will be established as follows: Upper Great Lakes Pool (Lake Superior, Lake Michigan, Lake Huron, the Detroit District portion of Erie) and Lower Great Lakes Pool (Lake Ontario and the Buffalo District portion of Lake Erie). **The maximum value for this action is \$130 million, with \$85 million in contract capacity in the Upper Great Lakes MATOC Pool and \$35 million in capacity in the Lower Great Lakes Pool.**
- This procurement will **be 100% set aside for small business**



# CONTRACTING



- MATOC Status update - update on where we are in the process and when it will hit the street
- Issue Date: 11 Jul 2019
- Receipt of Proposals: 21 Aug 2019
- Source Selection Board begins: 22 Aug 2019
- Contract Award: 20 Dec 2019
- First MATOC Task Order Awards: Fiscal Year 2020

All dates are approximate at this time.



# CONTRACTING : OPEN TOPICS



- CONTRACTING TOPICS – Heather Turner & Rob Austin
  - Current Status: Stand Alone Awards/IFB
  - Geotech Contract – Posted to FBO due 5 Feb 2019
  - A/E IDIQ – planning stages
  - New Soo Locks Projects
  - USACE Detroit & Buffalo Markey Survey (FBO)



# CONTRACTOR FEEDBACK & QUESTIONS?

# RMS 3.0 CONTRACTOR MODE (CM)

**Karen E. Carnago, PE**  
Chief, Construction Administration Branch  
Detroit District

31 January 2019



*"The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."*



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# RMS 3.0 CM : LIKE IT? LOVE IT? WANT SOME MORE OF IT?



- Challenges/Issues?
- Lessons Learned?
- Training Needs?
- Areas of Improvement?



# RMS 3.0 CM RESOURCES



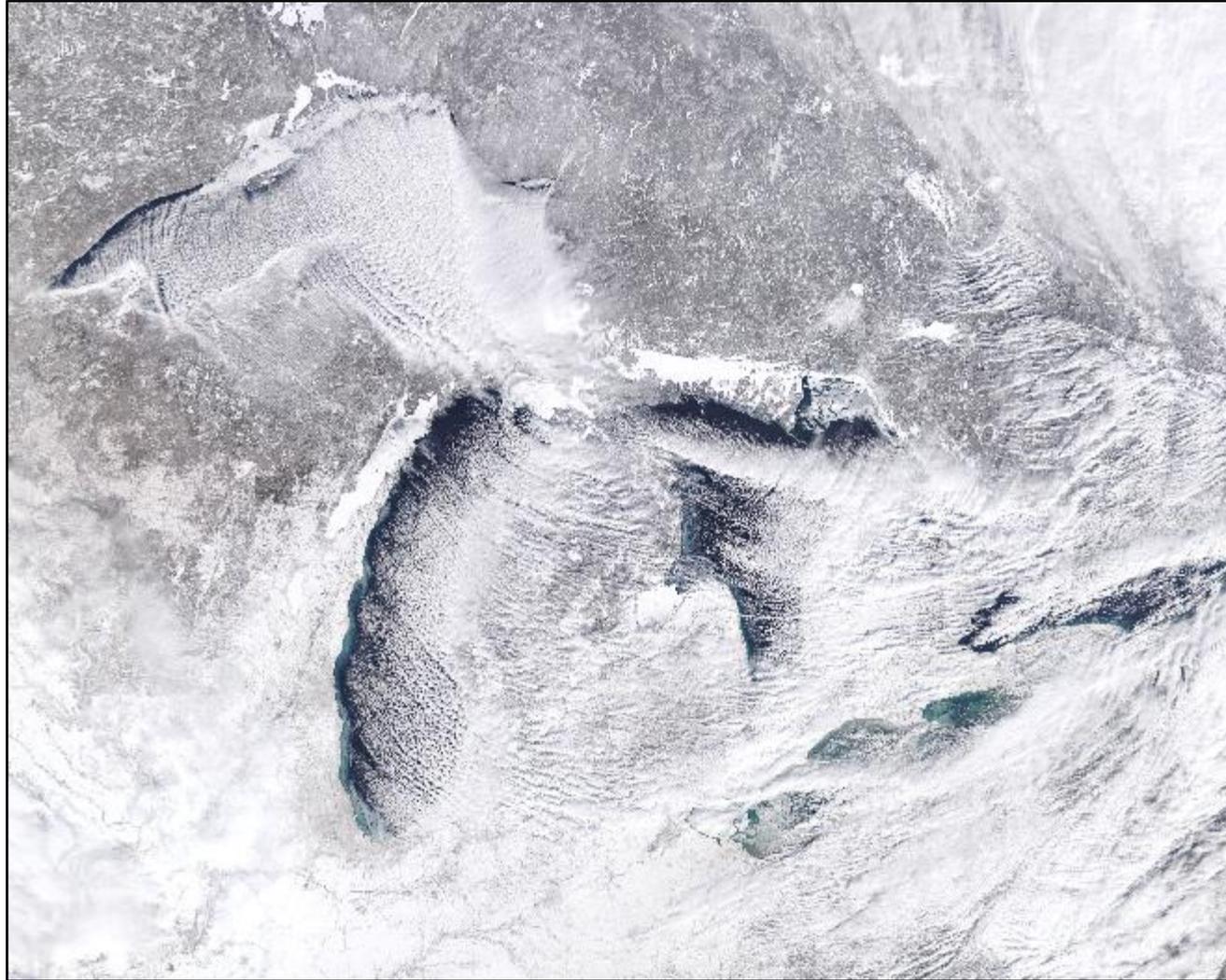
- USACE Construction Team
- RMS District Administrators
- RMS Support Website
  - <https://rmsdocumentation.com/>
  - <http://rmssupport.helpserve.com/>
- RMS Help – Submit a ticket
- You Tube Videos (RMS Contractor Mode)



# OPEN FLOOR – Q & A



# CLOSING REMARKS



*Image Date: 28-Jan-2019: NASA Earth Observatory images by Joshua Stevens, using GEOS-5 data from the [Global Modeling and Assimilation Office](#) at NASA GSFC and MODIS data from [NASA EOSDIS/LANCE](#) and [GIBS/Worldview](#).*