

Four Lakes Task Force

Gladwin and Midland Counties' Delegated Authority
of the Four Lakes Special Assessment District

October 6, 2021, Communications Session



Four Lakes Task Force

Informational Communications Meeting

2

- This meeting is being held virtually to accommodate as many people as possible
- This is an information session. It is not a board meeting; no formal action will occur
- If you have questions, please send them to info@fourlakestaskforce.org
- During the presentation there will be a panel discussion featuring:
 - Dave Kepler**, FLTF President
 - Dave Rothman**, FLTF Vice President
 - Ron Hansen**, Spicer Group
 - Paul Drew**, GEI Consultants
- At the end of the meeting, there will be time for public comment

Agenda

3

- I. Progress Against 4 critical issues
 - a. Funding
 - b. Environment
 - c. Assessments
 - d. Flood Studies and Design Capacity
- II. Progress on Recovery
- III. Progress on Recovery
 - I. Stabilization of Dams
 - II. Lake Debris and Erosion
- IV. Recovery Plan Review
 - I. Lake Recovery Plans
 - II. Environmental Restoration Plans
- V. Public Comment



Critical Issues

4

In its [Restoration Plan](#), FLTF identifies four critical issues that are vital to successfully restore the lakes.

1. FLTF needs to acquire at least \$10 million from outside the SAD by early 2022. In the next three years, approximately \$250 million will need to be funded for restoration.
2. Environmental recovery on Wixom and Sanford lakes is significant, and FLTF is engaged with EGLE to get state acceptance of the restoration plan, and then identify funding sources.
3. A fair and consistent methodology for the assessment of property owners of the Four Lakes Special Assessment District (SAD) needs to be put in place to attract funding and assure there are financial means for long-term operations and maintenance.
4. Flood studies must be completed, and capacity designs must be acceptable to the state to move forward with the completion of engineering.

Funding - Major Projects Underway

Project Area	Project Costs	Spending
	2021-2023	Spend to Date
Dam Stabilization	\$30,573,000	\$6,455,485
Edenville	\$11,355,000	\$3,237,451
Sanford Dam	\$11,902,500	\$390,337
Smallwood and Secord	\$1,803,000	\$1,649,943
Erosion Stabilization and Debris Removal	\$14,850,000	\$2,759,658
EWP Eligible Erosion Projects	\$6,550,000	\$2,693,551
Non-EWP Eligible Erosion Projects	\$0	\$0
Bottomland Debris Removal	\$5,300,000	\$13,126
Bottomland Sediment Removal	\$2,000,000	\$0
Downstream Debris Removal	\$1,000,000	\$0

Note: current project estimates- some projects run over multiple years and this is intended only to illustrate the projects being discussed not to provide final budget.

Environment – Permitting and Ecosystem

6

- Ongoing coordination with various agencies
 - ▣ Wetland, Floodplains, Stream, Lake, T/E Species, Cultural, Soil Erosion

- Natural Resource and Lake Management Planning



Special Assessment Update

7

- The Assessment Methodology is being updated
 - ▣ Public review in December
 - ▣ Benefit factors expanded and updated

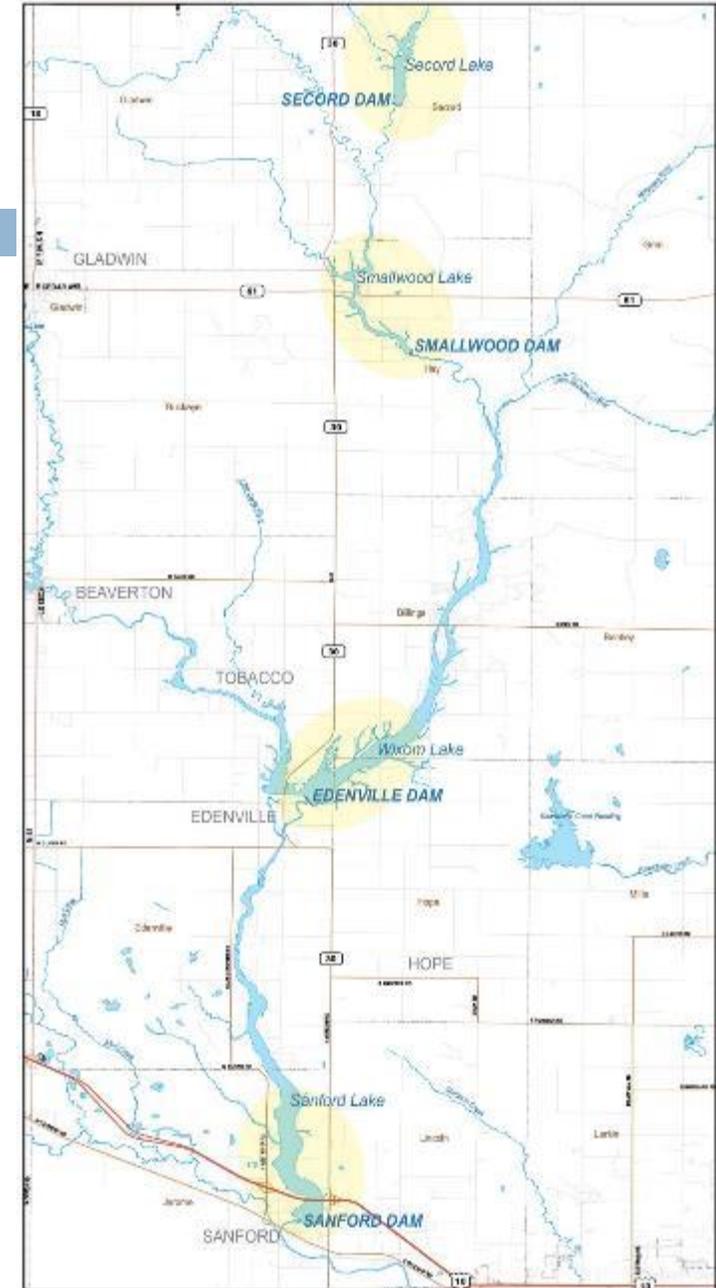
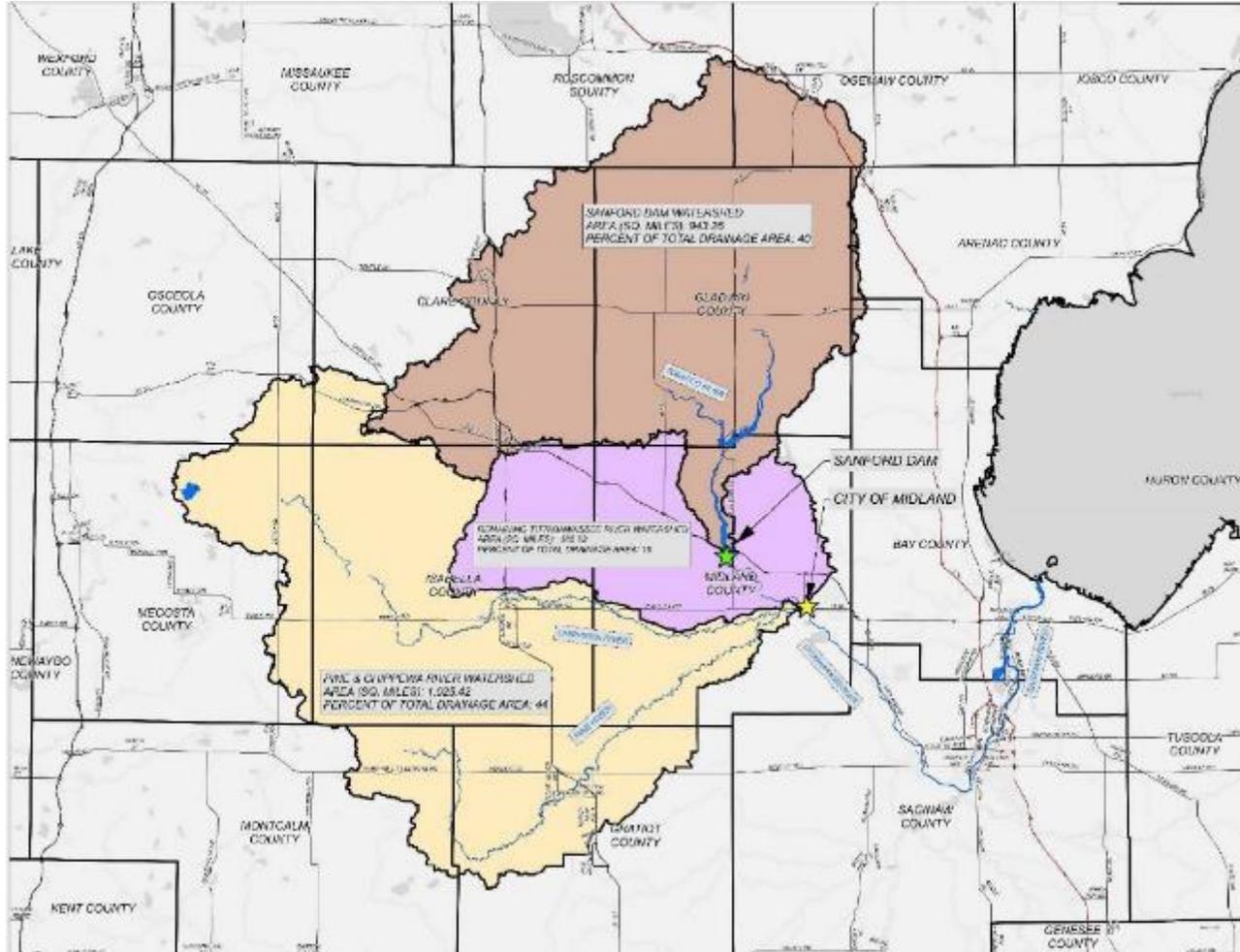
- Special Assessment Hearing in Summer 2022

- Operation and Maintenance Assessment
 - ▣ Winter 2022 Taxes



Lake Map

8



Progress Report – Secord and Smallwood

□ Secord and Smallwood Dam

- Post May 2020 Flood Inspections – complete
- Winter 2021 Interim Measure Repairs (record drawings April 2021)
- 30% Design Drawings (IDF Upgrades)
- Subsurface Investigations
- Design Storm -PMP/PMF/RIDM
- 60% Designs Underway

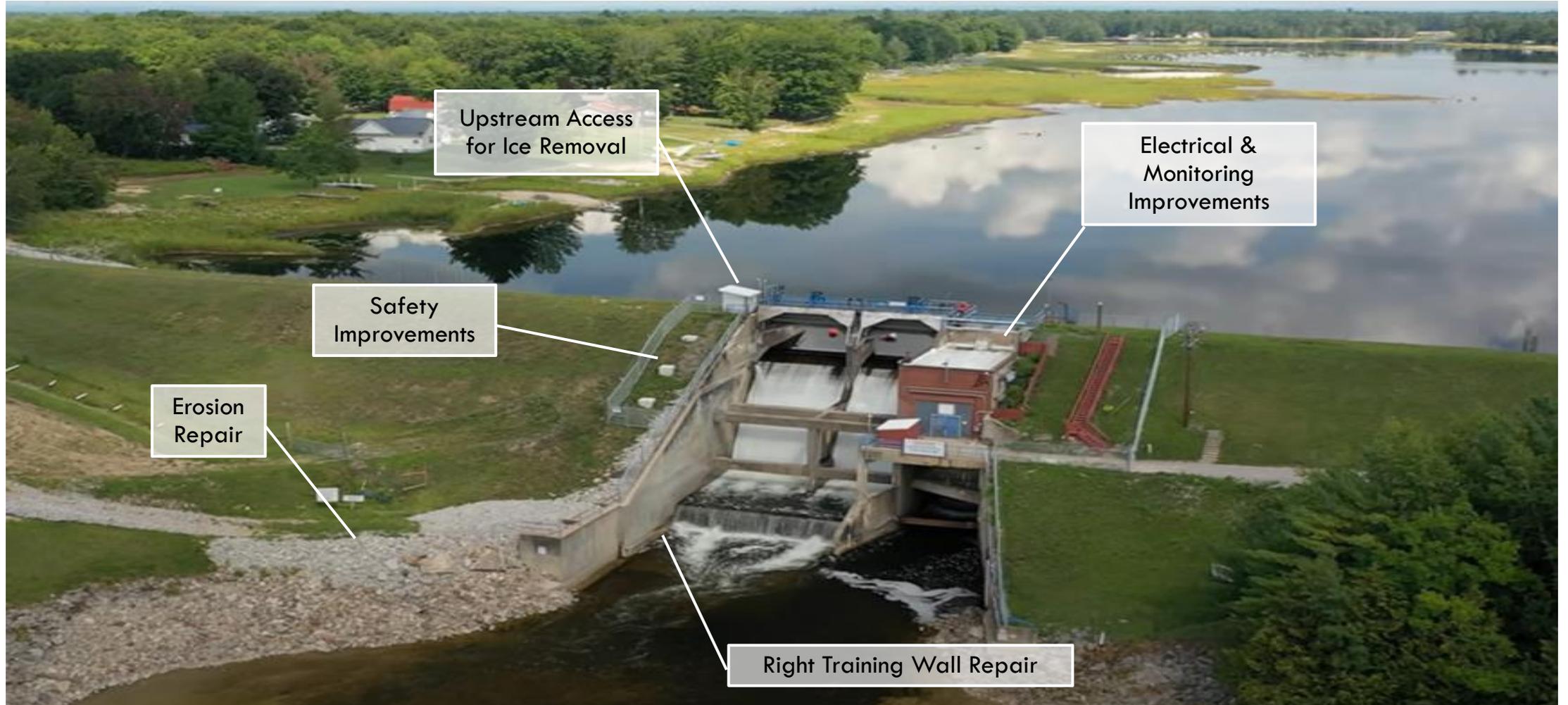
□ Next steps

- EGLE Permit Application – Submit December 2021
- Safety Booms – Complete in Summer 2022

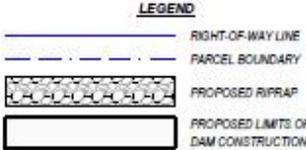
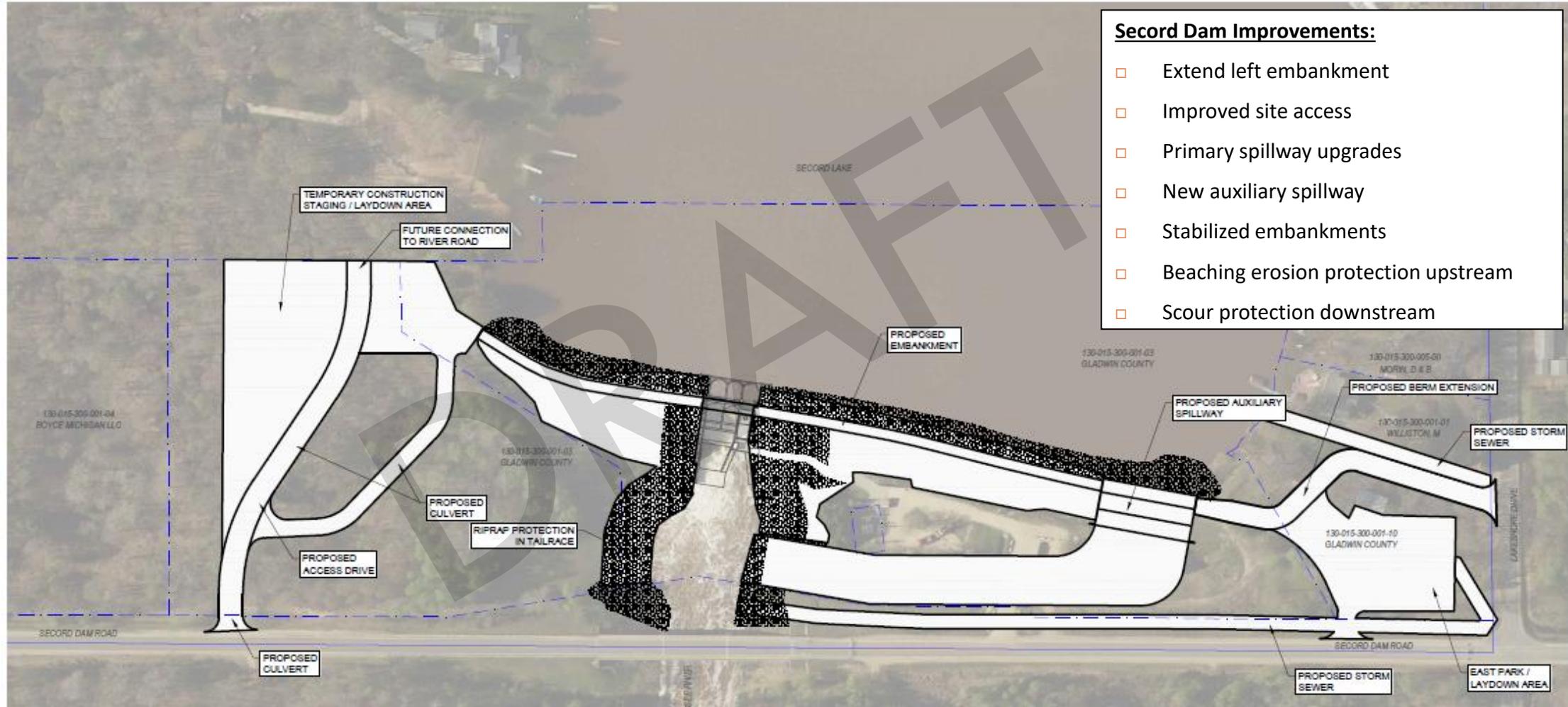


Secord Dam – Recovery

10



Secord Dam – Overall Site Plan Review



Smallwood Dam - Recovery



Upstream Access
for Ice Removal

Erosion
Repair

Electrical &
Monitoring
Improvements

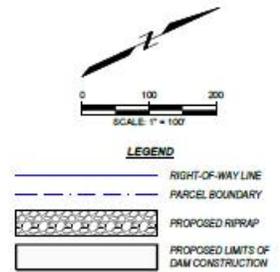
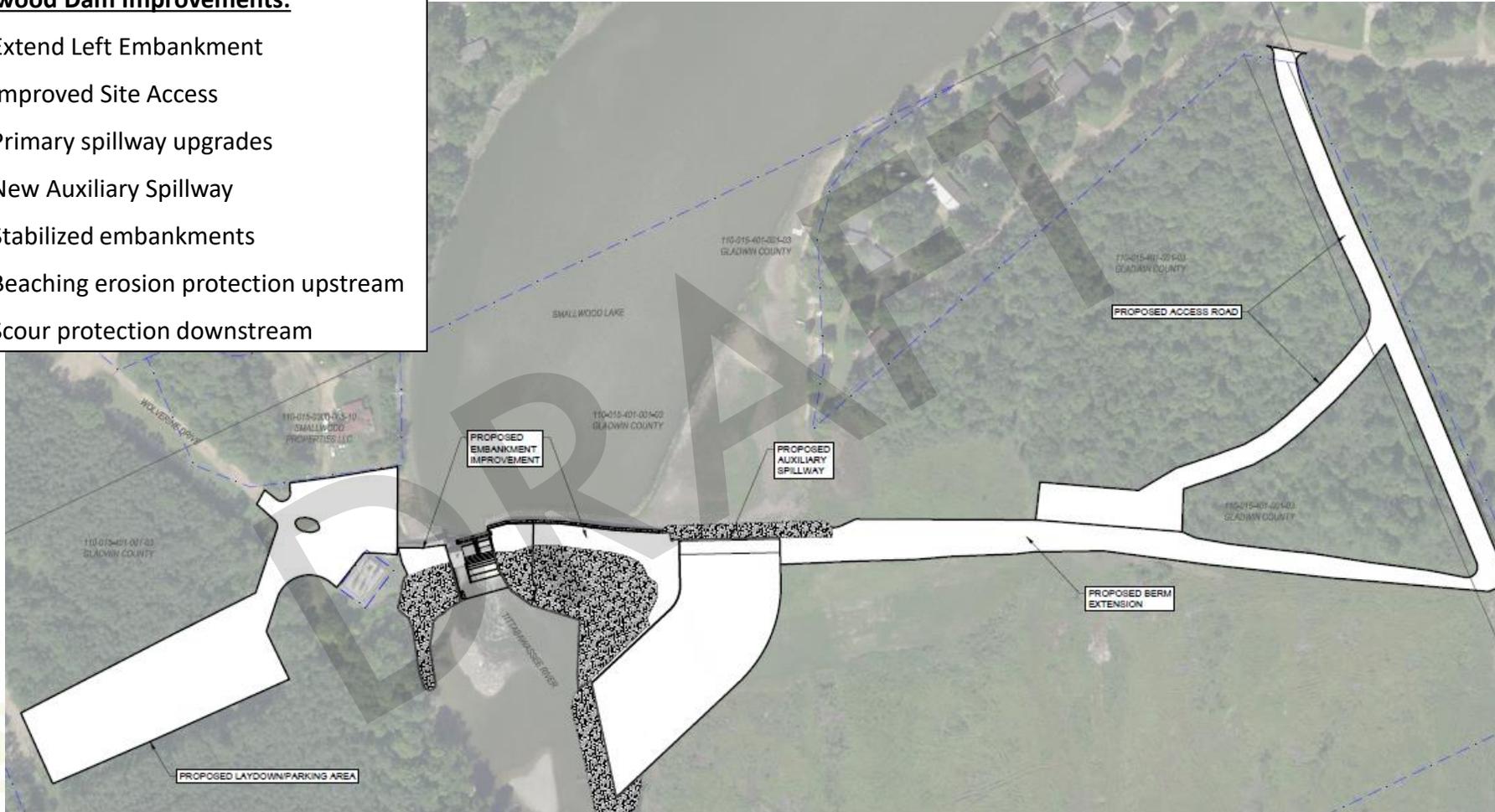
Safety
Improvements

Smallwood Dam – Overall Site Plan Review

13

Smallwood Dam Improvements:

- Extend Left Embankment
- Improved Site Access
- Primary spillway upgrades
- New Auxiliary Spillway
- Stabilized embankments
- Beaching erosion protection upstream
- Scour protection downstream



Secord and Smallwood Restoration Planning

Secord/Smallwood Lake Restoration - Timeline/Completion Status			2021				2022				2023				2024				2025				2026					
	Action	% Compl	Q1	Q2	Q3	Q4																						
Engineering & Construction	Design Criteria Development	100%		█	█																							
	Data Collection & Base Mapping	95%		█	█																							
	Risk Based Analysis & Spillway Capacity Design	60%		█	█	█																						
	60% Engineering Design Submittal	40%			█	█																						
	90% Engineering Design Submittal	0%				█	█																					
	100% Complete Engineering Plans	0%					█	█																				
	Utility Coordination & Relocation	0%			█	█	█	█																				
	Issue Notice to Proceed with Construction	0%								█	█	█	█															
	Finish Construction & Fill Lake	0%									█	█	█	█	█	█												
Financing	Submit Prelim. Special Assessment Roll & Eng. Report to USDA	10%			█	█		█																				
	USDA Approval & Obligation of Funds	0%						█																				
	Submittal of Final Plans and Bidding Documents	0%							█																			
	USDA Approval to Bid Project - Based on Final Plans & Permits	0%			█	█		█	█																			
	Bid Opening & Final Computation of Cost	0%							█	█																		
	USDA Closing Submittal	0%								█	█																	
	USDA Notice to Proceed & Preconstruction Meeting	0%									█	█																
Special Assessment	Assessment Methodology Development and Communication	0%		█	█	█																						
	Special Assessment Hearing for Assessment Roll	0%				█	█	█																				
	County Board Vote to Approve Roll	0%					█	█																				
	Complete SAD Appeal Process	0%							█	█																		
	Operations Assessments on Winter Taxes	0%								█	█																	
	Capital Improvement Assessments on Winter Taxes	0%											█	█														
Environmental/Permitting	Part 301 - Inland Lakes & Streams Impacts	15%			█	█																						
	Part 303 - Wetland Impacts	25%			█	█	█																					
	Part 31 - Floodplain Impacts	15%			█	█																						
	Part 315 - Dam Safety	15%			█	█		█	█																			
	Part 365/Section 7 - Threatened & Endangered Species	60%			█	█	█																					
	Section 106 - Historic Preservation	90%				█	█																					
	EGLE Permit Application Submittal	0%				█	█																					
	Part 91 - Soil Erosion & Sediment Control Submittal	0%						█	█																			
	EGLE Issues Permit	0%								█	█																	

Legend: █ Current Quarter █ Plan Duration █ Task Complete/On Schedule █ Falling behind Schedule █ Major Issue Encountered

Progress Report – Edenville and Sanford

- Edenville Dam Interim Repair – Tobacco River Side
 - ▣ Water Level Lowered (EGLE)
 - ▣ Rollway Removal and Sister Wall Construction – (FLTF -Complete Winter 2021)
 - ▣ Safety Boom – (FLTF – Complete in Summer 2022)
- Edenville Dam Interim Repairs – Tittabawassee River Side (FLTF)
 - ▣ Rollway removal – complete
 - ▣ Downstream sediment removal – Complete
 - ▣ Breach way I-wall berm – Complete in Winter 2021
 - ▣ Embankment stabilization – Complete in Summer 2022
- Sanford Dam Interim Repair
 - ▣ Spillway stabilization and breach closure – currently in design/permitting phase
 - ▣ Start construction – Fall 2021



Edenville Dam Phase I – Recovery



Edenville Dam Phase I – Recovery

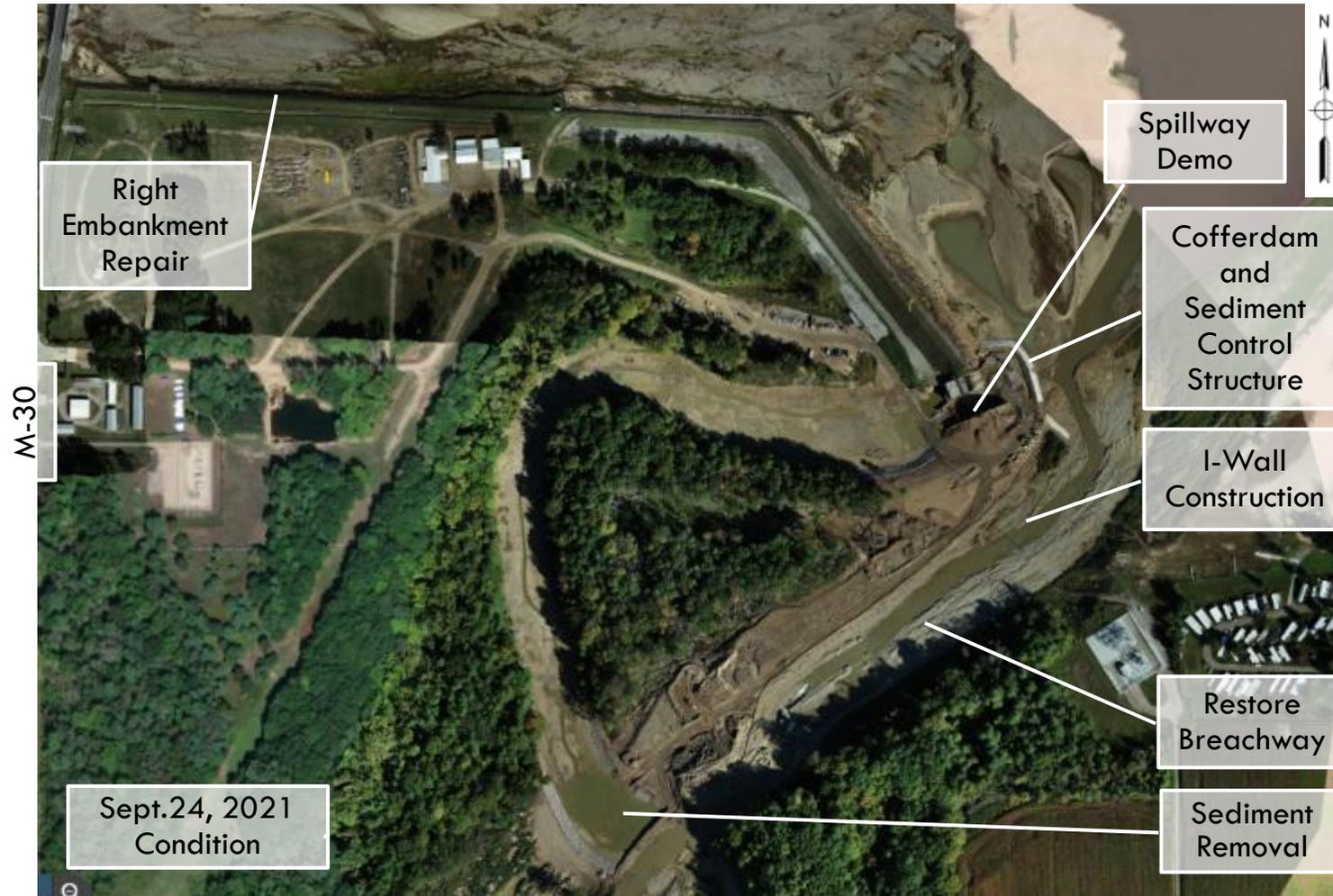


Edenville Dam Phase II – Recovery

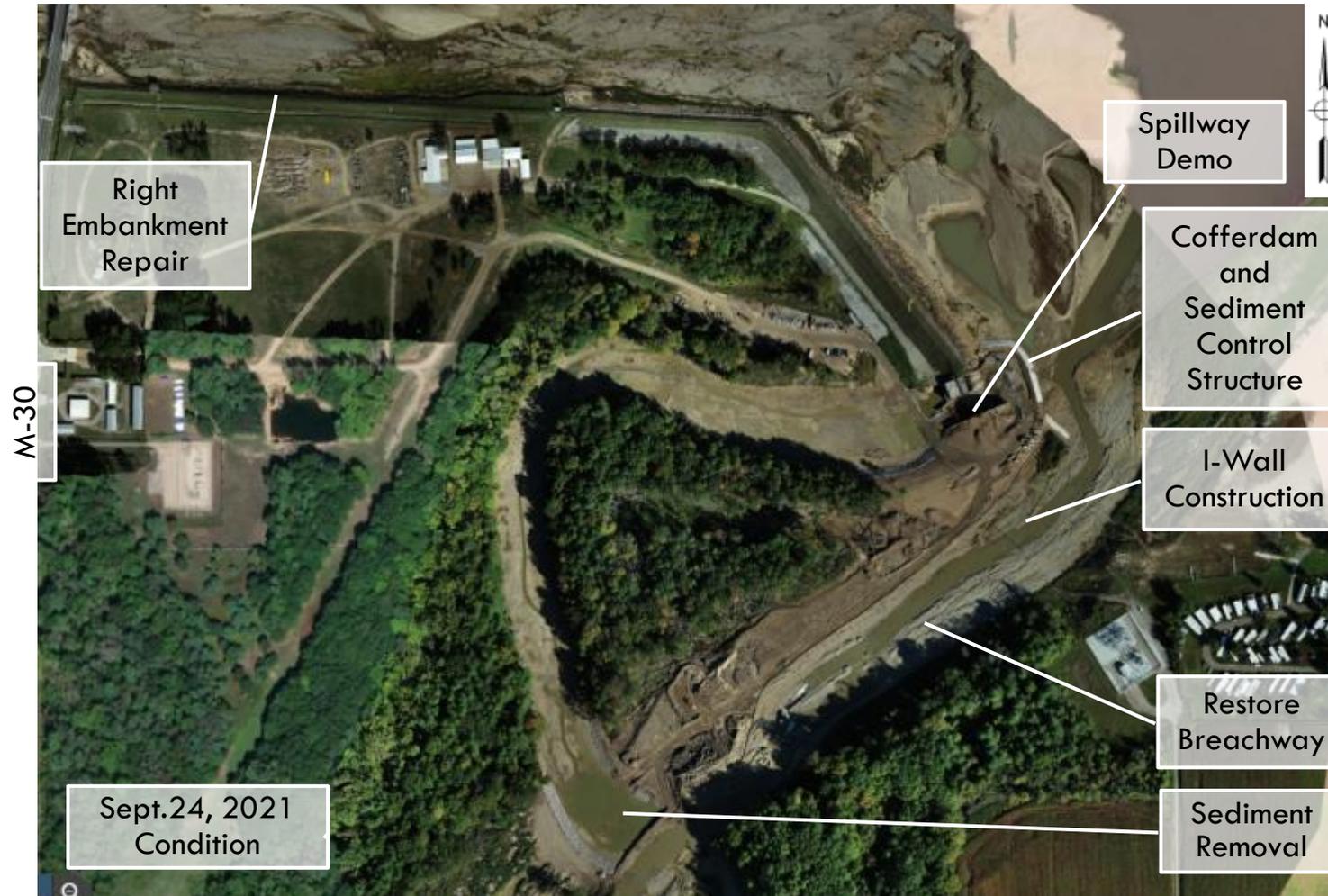
18



Edenville Dam Phase II – Recovery



Edenville Dam Phase II – Recovery



Edenville Dam Phase II – Recovery



Spillway Demolition



Spillway Demolition

Edenville Dam Phase II – Recovery

22



Edenville Dam Phase II – Recovery

23



Edenville Dam Phase II – Recovery

24

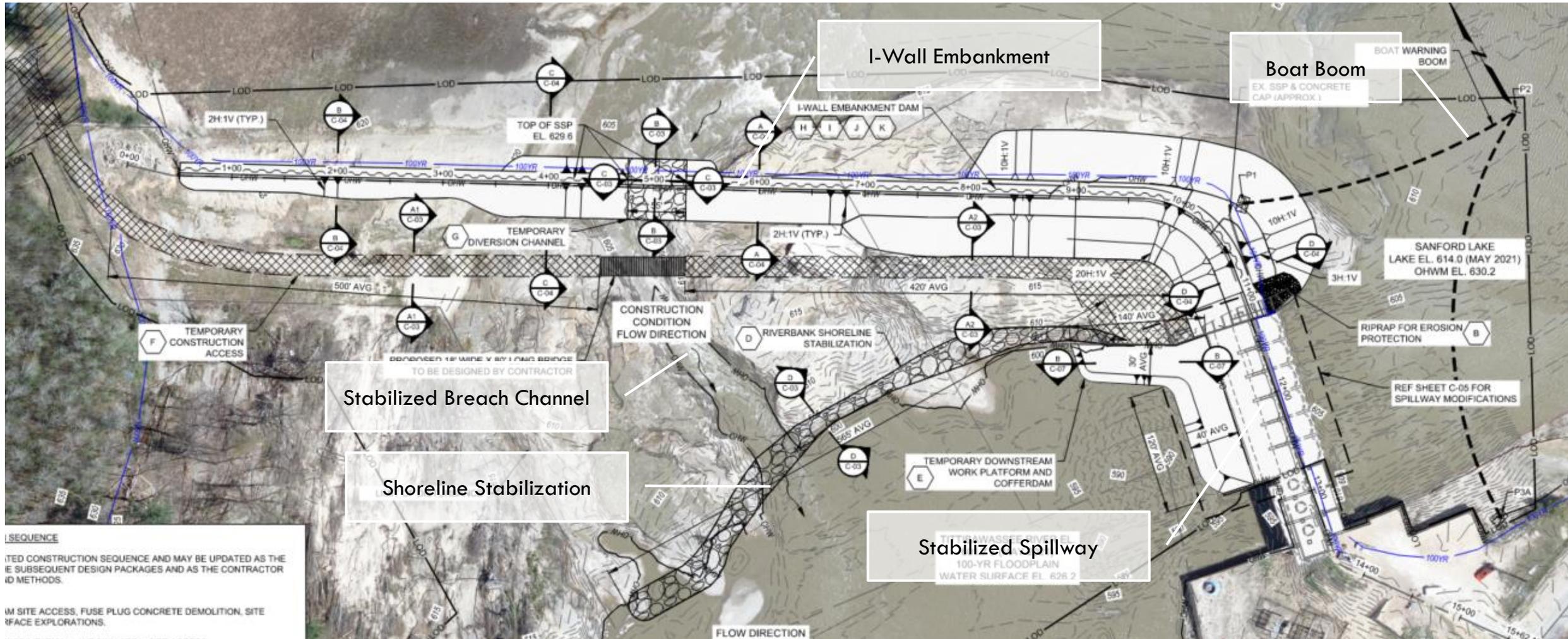


Edenville Restoration Planning

		Wixom Lake Restoration - Timeline & Completion Status																													
			2021				2022				2023				2024				2025				2026								
Action		% Compl	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4																					
Recovery Phase	Edenville Phase I - Tobacco Stabilization	55%	█	█	█	█	█	█																							
	Edenville Phase II - Edenville Stabilization	50%			█	█	█	█																							
	Edenville Dam - Debris Boom	10%			█	█	█	█																							
Engineering & Construction	Design Criteria Development	100%			█	█	█	█																							
	Data Collection and Base Mapping	60%			█	█	█	█																							
	Risk Based Analysis and Spillway Capacity Design	0%					█	█																							
	60% Engineering Design Submittal	0%					█	█																							
	90% Engineering Design Submittal	0%					█	█																							
	100% Complete Engineering Plans	0%					█	█																							
	MDOT Coordination	10%					█	█																							
	Utility Coordination & Relocation	10%					█	█																							
	Issue Notice to Proceed with Construction	0%																													
	Finish Construction & Fill Lake	0%																													
	Financing	USDA Environmental Impact Assessment	5%																												
		Submit Prelim. Special Assessment Roll & Eng. Report to USDA	0%																												
		USDA Approval & Obligation of Funds	0%																												
Submittal of Final Plans and Bidding Documents		0%																													
USDA Approval to Bid Project - Based on Final Plans & Permits		0%																													
Bid Opening & Final Computation of Cost		0%																													
USDA Closing Submittal		0%																													
Special Assessment	USDA Notice to Proceed & Preconstruction Meeting	0%																													
	Assessment Methodology Development and Communication	70%		█	█	█	█	█																							
	Special Assessment Hearing for Assessment Roll	0%																													
	County Board Vote to Approve Roll	0%																													
	Complete SAD Appeal Process	0%																													
	Operations Assessments on Winter Taxes	0%																													
	Capital Improvement Assessments on Winter Taxes	0%																													
Environmental/Permitting	Part 301 - Inland Lakes & Streams Impacts	0%			█	█	█	█																							
	Part 303 - Wetland Impacts	0%			█	█	█	█																							
	Part 31 - Floodplain Impacts	0%			█	█	█	█																							
	Part 315 - Dam Safety	40%			█	█	█	█																							
	Part 365/Section 7 - Threatened & Endangered Species	0%			█	█	█	█																							
	Section 106 - Historic Preservation	60%			█	█	█	█																							
	EGL Permit Application Submittal	0%																													
	Part 91 - Soil Erosion & Sediment Control Permit Submittal	0%																													
	EGL Issues Permit	0%																													
	Lake Restoration Plan Development & Submittal	5%			█	█	█	█																							
	Lake Management Plan and Implementation	0%																													

Legend: █ Current Quarter █ Plan Duration █ Task Complete/On Schedule █ Falling behind Schedule █ Major Issue Encountered

Sanford Dam – Recovery



Sanford Restoration

Sanford Lake Restoration - Timeline & Completion Status			2021				2022				2023				2024				2025				2026					
Action	% Compl		Q1	Q2	Q3	Q4																						
Recovery Phase	Design and emergency permitting for interim stabilization project	60%	█	█																								
	Interim weir construction and spillway demolition	0%																										
	Breachway closure and site restoration	0%																										
Engineering & Construction	Design Criteria Development	100%			█																							
	Data Collection and Base Mapping	60%			█																							
	Risk Based Analysis and Spillway Capacity Design	0%																										
	60% Engineering Design Submittal	0%																										
	90% Engineering Design Submittal	0%																										
	100% Complete Engineering Plans	0%																										
	Utility Coordination & Relocation	10%																										
	Issue Notice to Proceed with Construction	0%																										
	Finish Construction & Fill Lake	0%																										
Financing	USDA Environmental Impact Assessment	5%																										
	Submit Prelim. Special Assessment Roll & Eng. Report to USDA	0%																										
	USDA Approval & Obligation of Funds	0%																										
	Submittal of Final Plans and Bidding Documents	0%																										
	USDA Approval to Bid Project - Based on Final Plans & Permits	0%																										
	Bid Opening & Final Computation of Cost	0%																										
	USDA Closing Submittal	0%																										
	USDA Notice to Proceed & Preconstruction Meeting	0%																										
Special Assessment	Assessment Methodology Development and Communication	70%	█	█																								
	Special Assessment Hearing for Assessment Roll	0%																										
	County Board Vote to Approve Roll	0%																										
	Complete SAD Appeal Process	0%																										
	Operations Assessments on Winter Taxes	0%																										
	Capital Improvement Assessments on Winter Taxes	0%																										
Environmental/Permitting	Part 301 - Inland Lakes & Streams Impacts	0%																										
	Part 303 - Wetland Impacts	0%																										
	Part 31 - Floodplain Impacts	0%																										
	Part 315 - Dam Safety	40%																										
	Part 365/Section 7 - Threatened & Endangered Species	0%																										
	Section 106 - Historic Preservation	60%																										
	EGLE Permit Application Submittal	0%																										
	Part 91 - Soil Erosion & Sediment Control Permit Submittal	0%																										
	EGLE Issues Permit	0%																										
	Lake Restoration Plan Development & Submittal	5%																										
	Lake Management Plan and Implementation	0%																										

Legend: █ Current Quarter █ Plan Duration █ Task Complete/On Schedule █ Falling behind Schedule █ Major Issue Encountered

Erosion and Stabilization – Lakeshore Drive



Before



After

Erosion and Stabilization – Anderson Drive

29



Before

Erosion and Stabilization – Anderson Drive



Before



After

Erosion and Stabilization – Anderson Drive (After)

31



Erosion and Stabilization – Curtis Road



Before



After

Upcoming Meetings and Information

33

□ Upcoming Meetings

▣ Board Meeting: December 7, 2021

Tentative Agenda Items

- Annual Meeting
- Review of Special Assessments
 - Computation of costs, methodology and timeline
- Project status by dam
- 2021 estimated financial performance
- 2022 budget



Questions and Public Comment

34

Ground rules:

1. Questions and public comment will be taken using the hand raise feature.
2. Because of time restrictions we will only allow individuals to make one comment. If time allows, we will give people additional opportunities at the end.
3. Any commenter who is disrespectful, slanders another, is in any way inappropriate or otherwise refuses to follow the protocol will be muted.

Please send questions to info@fourlakestaskforce.org



Comment Timer

00 : 02 : 00

Change Clock Type

Digital

second changed successfully!

Duration: 00 02 00

Second changed successfully!

TimeUp Reminder (Optional):

00 00 15

Choose Sound Effect

Tick

Choose TimeUp Sound Alarm



36

Thank you for joining us!