



CITY COUNCIL WORKSHOP CITY OF BAY CITY

Tuesday, March 28, 2023 at 5:00 PM
COUNCIL CHAMBERS | 1901 5th Street

COUNCIL MEMBERS

Mayor: Robert K Nelson

Mayor Pro Tem: Jim Folse

Council Members: Floyce Brown, Bradley Westmoreland, Becca Sitz, Blayne Finlay

Vision Statement

Through a united and collaborative effort, we seek to grow the City of Bay City with a diverse culture that is proud to call Bay City home. We envision a thriving family-centered community where citizens are involved in the future development of our city. We desire our citizens to work, play, worship and shop in the community in which we live. Visitors are welcomed and encouraged to enjoy the friendly environment and amenities the citizens and business owners have created together.

AGENDA

THE FOLLOWING ITEM WILL BE ADDRESSED AT THIS OR ANY OTHER MEETING OF THE CITY COUNCIL UPON THE REQUEST OF THE MAYOR, ANY MEMBER(S) OF COUNCIL AND/OR THE CITY ATTORNEY:

ANNOUNCEMENT BY THE MAYOR THAT COUNCIL WILL RETIRE INTO CLOSED SESSION FOR CONSULTATION WITH CITY ATTORNEY ON MATTERS IN WHICH THE DUTY OF THE ATTORNEY TO THE CITY COUNCIL UNDER THE TEXAS DISCIPLINARY RULES OF PROFESSIONAL CONDUCT OF THE STATE BAR OF TEXAS CLEARLY CONFLICTS WITH THE OPEN MEETINGS ACT (TITLE 5, CHAPTER 551, SECTION 551.071(2) OF THE TEXAS GOVERNMENT CODE).

CALL TO ORDER

CERTIFICATION OF QUORUM

PUBLIC COMMENTS

REGULAR ITEMS FOR DISCUSSION, CONSIDERATION AND / OR APPROVAL

- 1. Discuss WWTP Improvement Project and WIFIA Funding Program.** Barry Calhoun, Public Works Director
- 2. Discuss, consider, and/or approve applying for WIFIA Funding and setting a maximum amount for funding in regards to the WWTP Improvement Project.** Barry Calhoun, Public Works Director

ADJOURNMENT

CERTIFICATION OF POSTING

This is to certify that the above notice of a City Council Workshop Meeting was posted on the front window of the City Hall of the City of Bay City, Texas on **March 24, 2023 before 5:00 PM**. Any questions concerning the above items, please contact the Mayor and City Manager's office at (979) 245-2137.



Bay City Wastewater Treatment Plant Improvements

City Council Work Session

Dan Olson, P.E.

March 14, 2023

OUR AGENDA

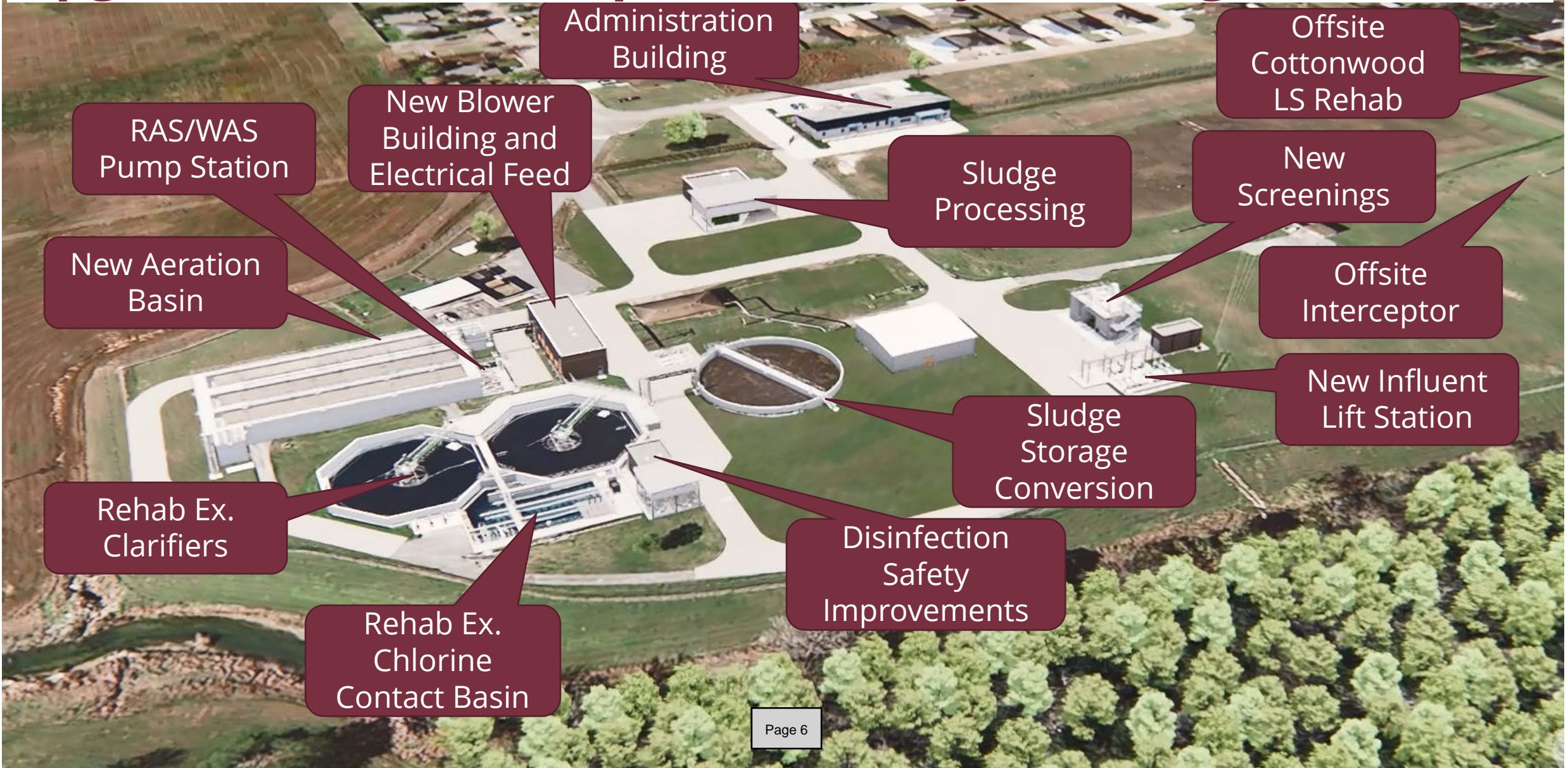
- 1. TWDB Budget and VE Efforts**
- 2. WWTP Phasing**
- 3. WIFIA Funding**

Our original TWDB CWSRF Loan Application of \$38 million was completed in 2019

Budget Item	Est. Funding
WWTP Improvements	\$31.6 million
Main Trunk Sewer Rehab	\$3.0 million
12" Sewer Line Extension (SH-35 East)	\$1.0 million
Cottonwood Lift Station Rehab	\$0.8 million
Fiscal Services	\$1.6 million
TOTAL	\$38 million

The original WWTP project included comprehensive upgrades intended to provide a 30-year design life.

ITEM #1.



Administration Building

Offsite Cottonwood LS Rehab

RAS/WAS Pump Station

New Blower Building and Electrical Feed

Sludge Processing

New Screenings

New Aeration Basin

Offsite Interceptor

New Influent Lift Station

Sludge Storage Conversion

Rehab Ex. Clarifiers

Disinfection Safety Improvements

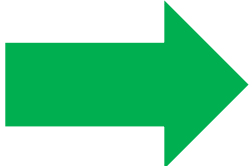
Rehab Ex. Chlorine Contact Basin

The proposals exceeded the 2019 estimate and TWDB funding of \$30M for Construction

Proposal Item	LEM Construction
Cash Allowances	\$1,118,000
Contingency Allowances	\$2,500,000
WWTP Improvements Base Proposal	\$56,640,000
Trunk Sewer Rehabilitation	\$3,192,760
Overall Project Base Proposal	\$63,450,760

We continued to work through Cost Savings that would maintain the original design vision.

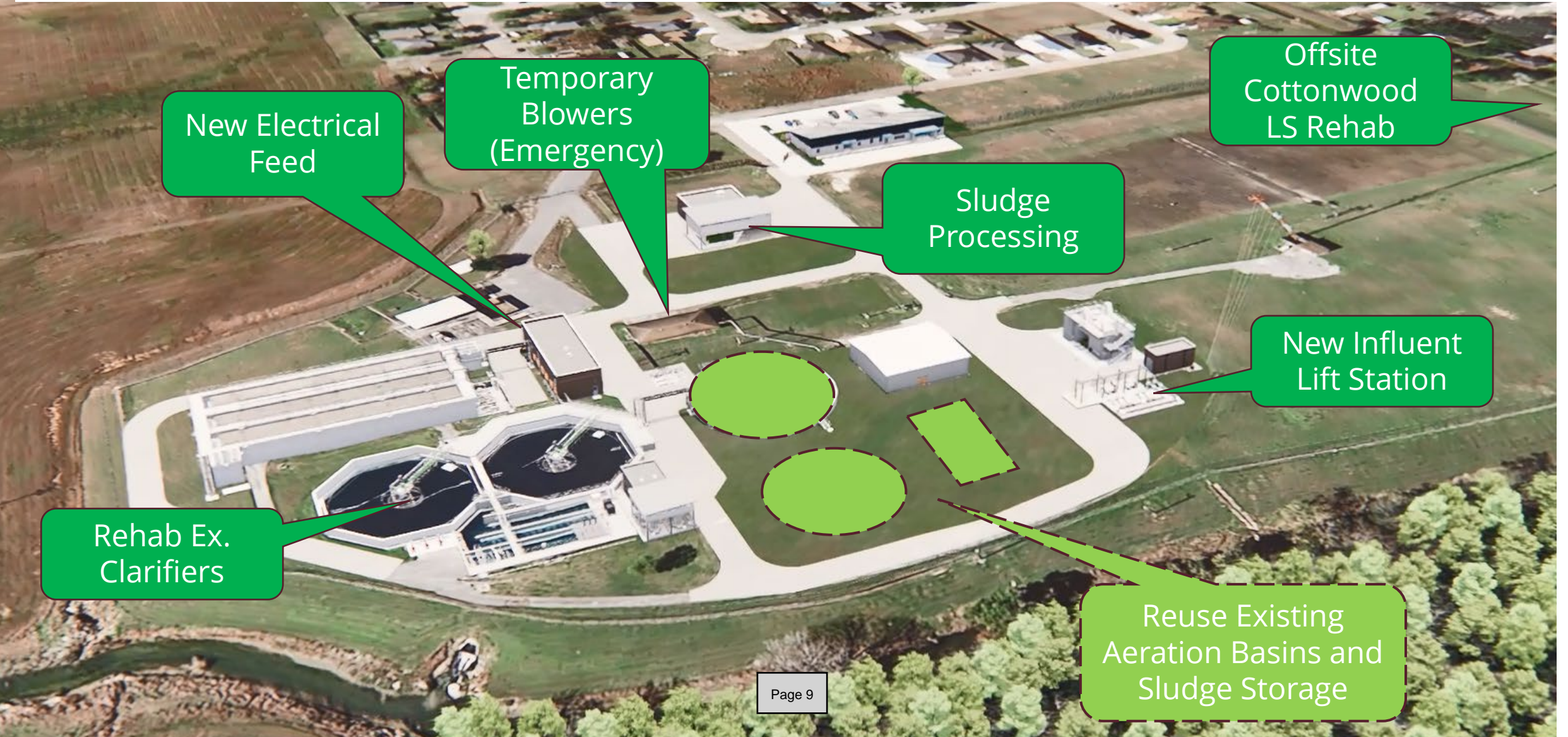
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WWTP Improvements Base Proposal	\$56,640,000
Trunk Sewer Rehabilitation	\$3,192,760
Overall Project Base Proposal	\$63,450,760
Adjustments for Proposal Alternates	
- Remove Administration Building	-\$6,452,760
- Remove Trunk Sewer Repairs	
Overall Project Adjusted Proposal	\$56,998,000
Post-Proposal Cost Savings Identified	
• Alternate Yard Piping, Modified Equipment	≈ \$5M
• Reduced Allowances	
Original Design Vision Cost	≈\$50M to \$52M



Alternate Vision based on Prioritization

We have identified the highest-priority items that will fit within the existing \$30M TWDB budget allotment

ITEM #1.

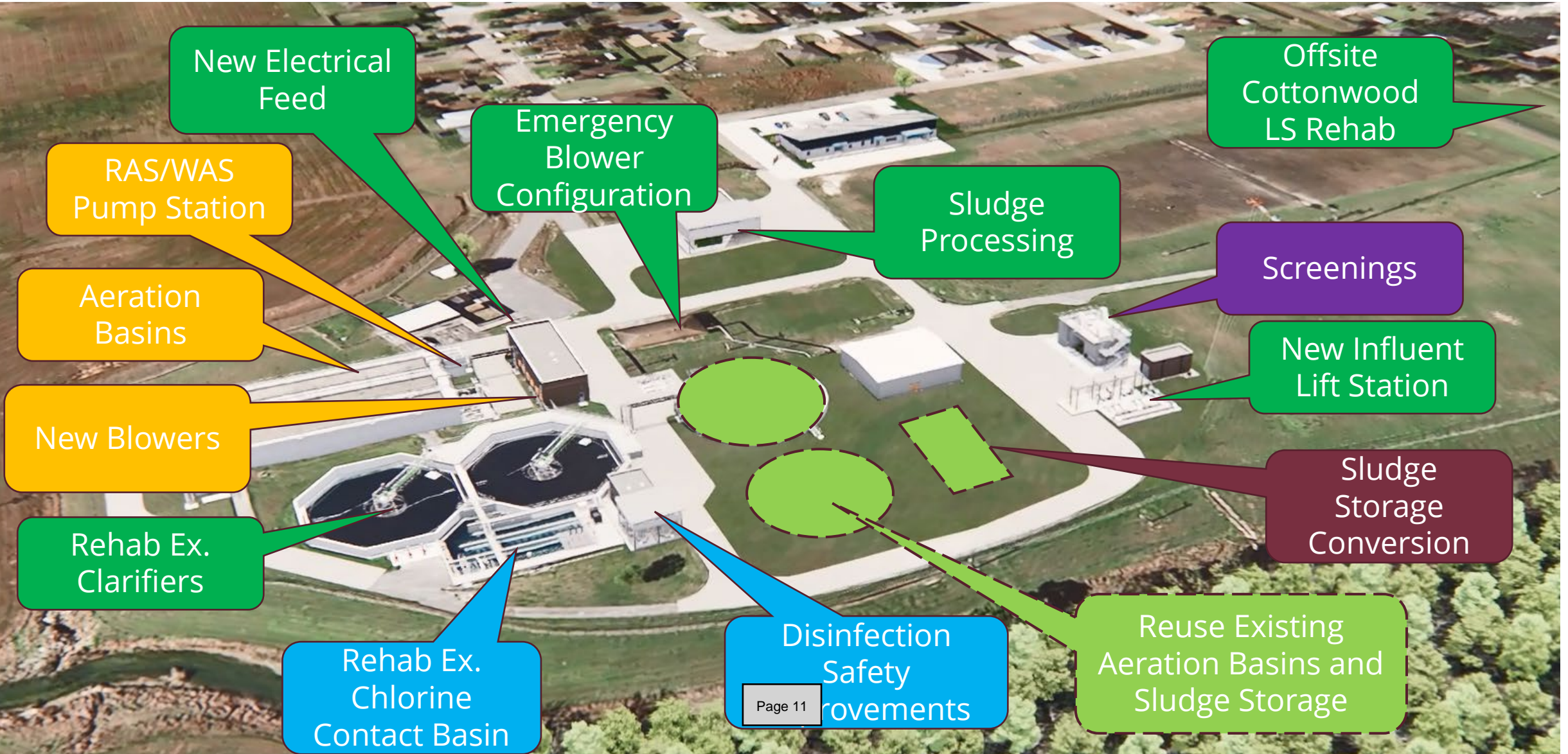


Path Forward on TWDB-Funded WWTP Scope

- Immediately
 - Finalize redesign efforts for TWDB Authorization
 - Develop Change Order with LEM to modify scope
- April 2023
 - Finalize Authorization with LEM
 - Issue Construction NTP
- Construction Period
 - Reduced construction period

Which improvements haven't made the cut and what does that mean?

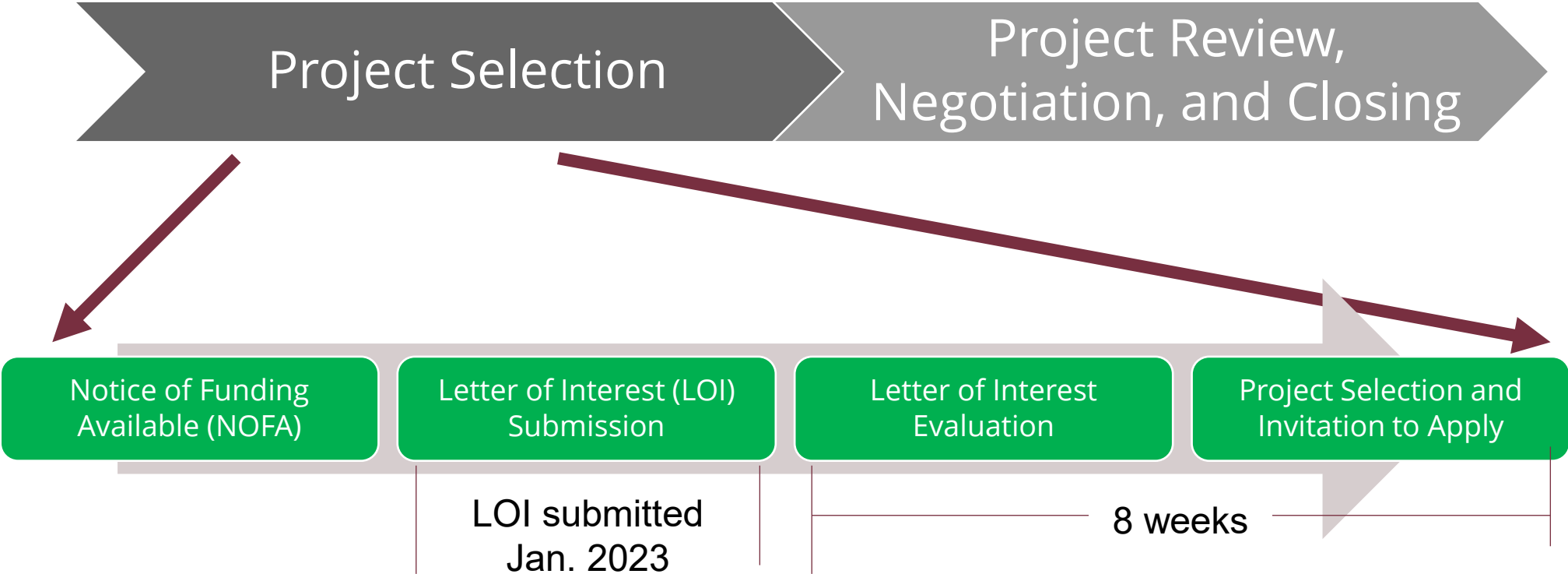
ITEM #1.



Prioritization, Design Revisions, and WIFIA funding would allow for significant improvements in plant longevity, function, and optimization

Extended Priority	Process Area	Drivers for Improvements
1	Blower Replacement	<ul style="list-style-type: none">• Blower Age• Improve lineup with ABs
2	Existing Aeration Basin Improvements	<ul style="list-style-type: none">• Diffuser age, basin isolation• Aeration Controls
3	RAS/WAS Pumping	<ul style="list-style-type: none">• Eliminate Airlift Pumps• Improve Process Controls
4	Disinfection	<ul style="list-style-type: none">• Safety• Systematic Bleach Conversion
5	Existing Headworks	<ul style="list-style-type: none">• Corrosion Repairs

WIFIA Process – Project Selection



WIFIA Process – Project Review, Negotiation, and Closing



1. Pre-Application	2. Application Submission	3. Application Evaluation	4. Negotiations	5. Approval	6. Closing	7. Post-Closing
<i>Up to 1 year</i>		<i>1-3 months</i>	<i>2-6 months</i>	<i>1-3 months</i>		<i>Life of Loan</i>

Average Time = 6 months

WIFIA Funding

- Up to \$30M is available
- Amount of loan value can be reduced through closing
- Possible to utilize less than the full amount after closing
- Funding is only available as a supplement to other funding sources at less than 80% of the project total (previously 50%)
- Can defer loan payments for up to 5 years from Substantial Completion of the project (7+ years from Contractor NTP)

Additional efforts have been made to mitigate rate impacts

The following projects have been removed from the TWDB DWSRF funding:

- 12" New Waterline Extension – SH35 East: \$1,000,000
- 12" New Waterline Extension (Ph 2) – SH60 North: \$1,159,000
- 12" New Waterline – 12" St East: \$1,210,000
- 6" New Waterline – Hillcrest Dr: \$155,000
- 12" New Waterline Extension – SH60 South: \$1,354,000

Total: \$4,878,000



Q&A