

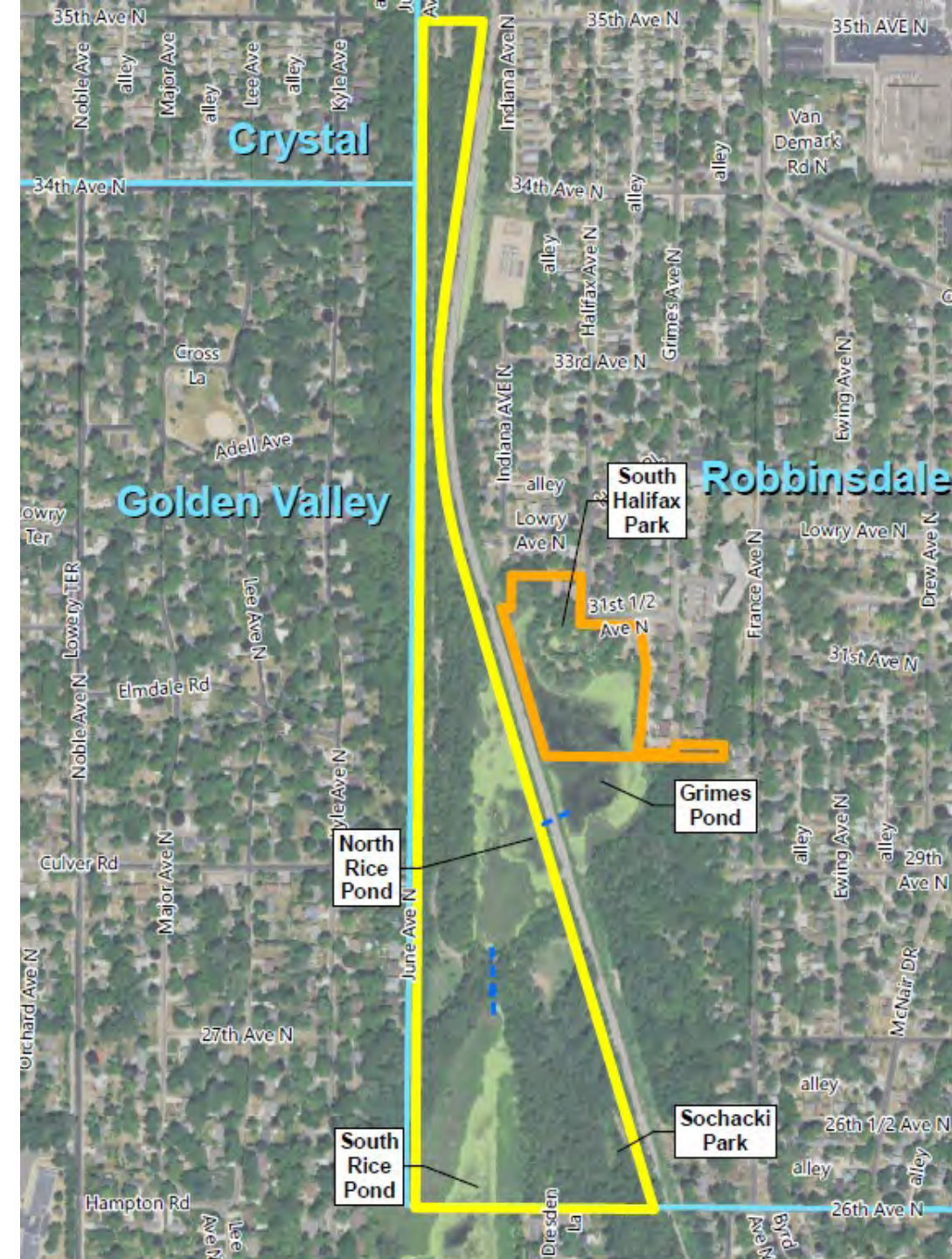
Sochacki Park Water Quality Improvement Project (BC-14)

50% Design Plan Review

July 16, 2026

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Prepared for Three Rivers Park District on behalf of the Bassett
Creek Watershed Management Commission



Project Background



September, 2022 – Barr completes Sohacki Park Subwatershed Assessment

March, 2023 - Commission approves addition of water quality improvement project recommendations to CIP (BC-14)

September, 2023 - Commission approves feasibility study

April 18, 2024 – Three Rivers Park District approves Barr's scope and budget for design and construction oversight

Feasibility Study Recommendations and Estimated Benefits



Monitoring/Modeling Scenario	Grimes Pond Avg. Summer TP	North Rice Pond Avg. Summer TP	South Rice Pond Avg. Summer TP	Avg. TP Entering Bassett Creek
Existing 2020 and 2021 Summer Average TP (µg/L)	168	104	230	230
Predicted Summer TP Concentration Following BMP Implementation (µg/L)	128	75	107	107
Percent TP Reduction Following BMP Implementation	24%	28%	53%	53%
Predicted Annual TP Load Reduction Following BMP Implementation (lbs/yr)				68.3

- Structural BMPs
 - Two ponds in South Rice Pond watershed, one each in Grimes and North Rice Pond watersheds
 - Clear debris from inlets/outlets, remove sediment deposits, stabilize erosion
- In-pond BMPs to reduce internal phosphorus load
 - Conduct water level drawdowns—control invasives, shift floating plant dominance
 - Areal alum applications
- Revegetate and control soil erosion in upland areas
- Street sweeping—emphasis in untreated watersheds

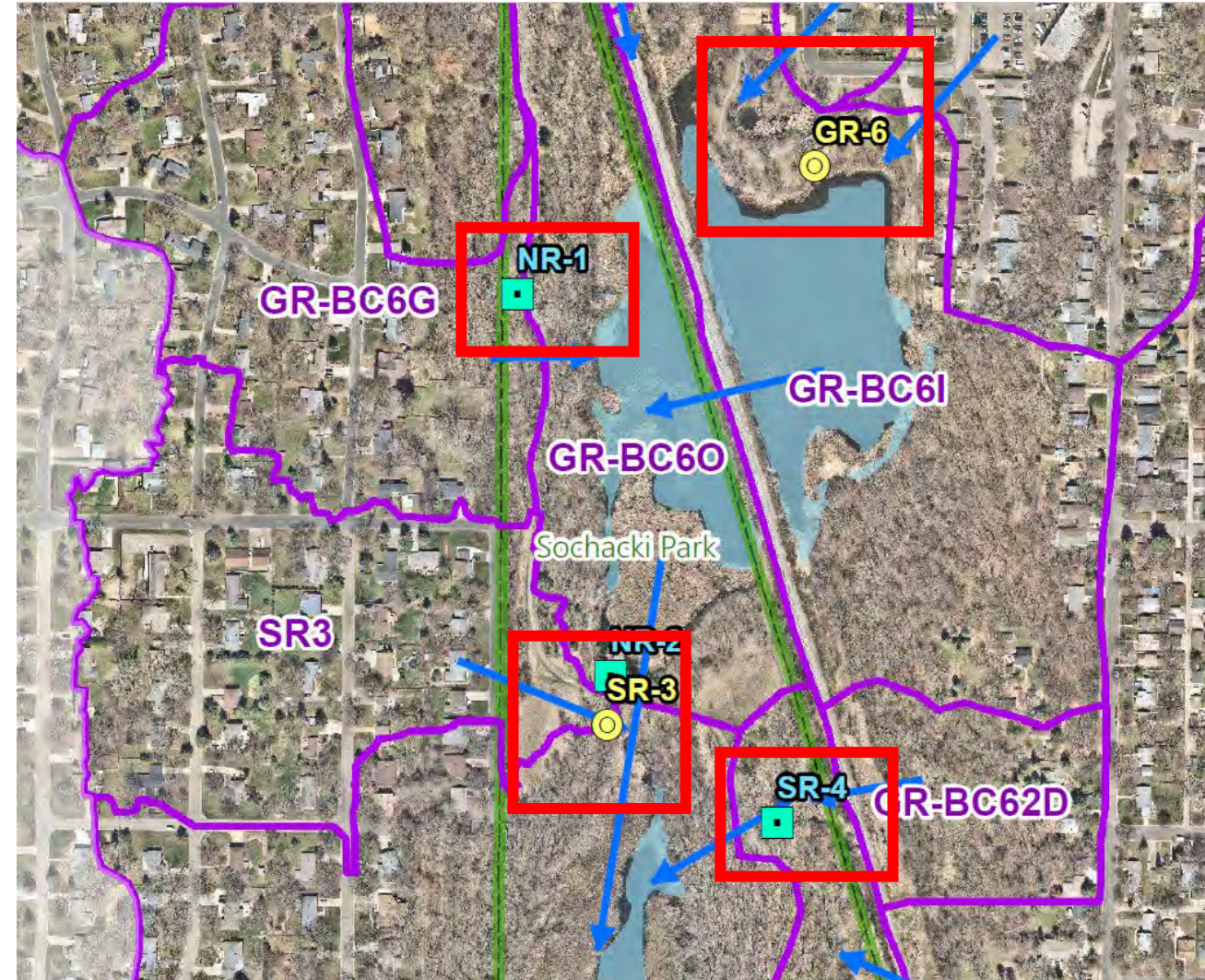
Work Completed Since Feasibility Study

- Phase II and additional investigations
 - Coordination w/ regulatory Agencies
 - Pre-characterization of hazardous soils
- Geotechnical investigation
- Additional topographic and tree surveys
- Secured additional funding from HUD and Hennepin County ERF
- Began permitting conversations
 - Minnesota DNR
 - US Army Corps of Engineers
 - Minnesota State Historic Preservation Office
 - Minnesota Pollution Control Agency
- 50% structural BMP design plans and drawdown planning and permit preparation



Feasibility Concepts to 50% Design Plans

- Retained feasibility study features for 50% design
 - o BMP design objectives, sizing and locations
 - o New Pond NR-1
 - o New Pond SR-3
 - o New BMP GR-6
 - o Dredge/expand Pond SR-4 and stabilize outlet channel to South Rice Pond
 - o Controlled water level drawdowns (each pond)
 - o Bassett Creek water quality benefit
- Updated feasibility study features for 50% design
 - o Enrollment in MPCA/MDA Voluntary Investigation and Cleanup (VIC) programs
 - o Implement Response Action Plans (RAP) with each Agency
 - o Expanded BMP footprint and tree removals
 - o Over-excavate BMPs, provide liner and/or adequate cover between BMPs and contamination; address geotechnical concerns



Milestone Schedule



Tasks and milestones	Previous Tentative Schedule	Recommended Revised Schedule
Design – complete 50% plans for review and permitting	November 2024	July 2026 <i>[done]</i>
Permitting	Fall 2024 / February 2025	Now through Fall 2026
Public Meeting(s)	Fall 2024 / February 2025	August 2026
Design – complete 90% plans for review	February 2025	September 2026
Design – complete 100% plans for review	March 2025	October 2026
Pond Water Level Drawdowns	Fall / Winter 2025/2026	September—October, 2026
Structural BMP Bidding	March / April 2025	October / November 2026
Structural BMP Construction	Fall / Winter 2025/2026	Fall / Winter 2026/2027



Approval and Permits Required



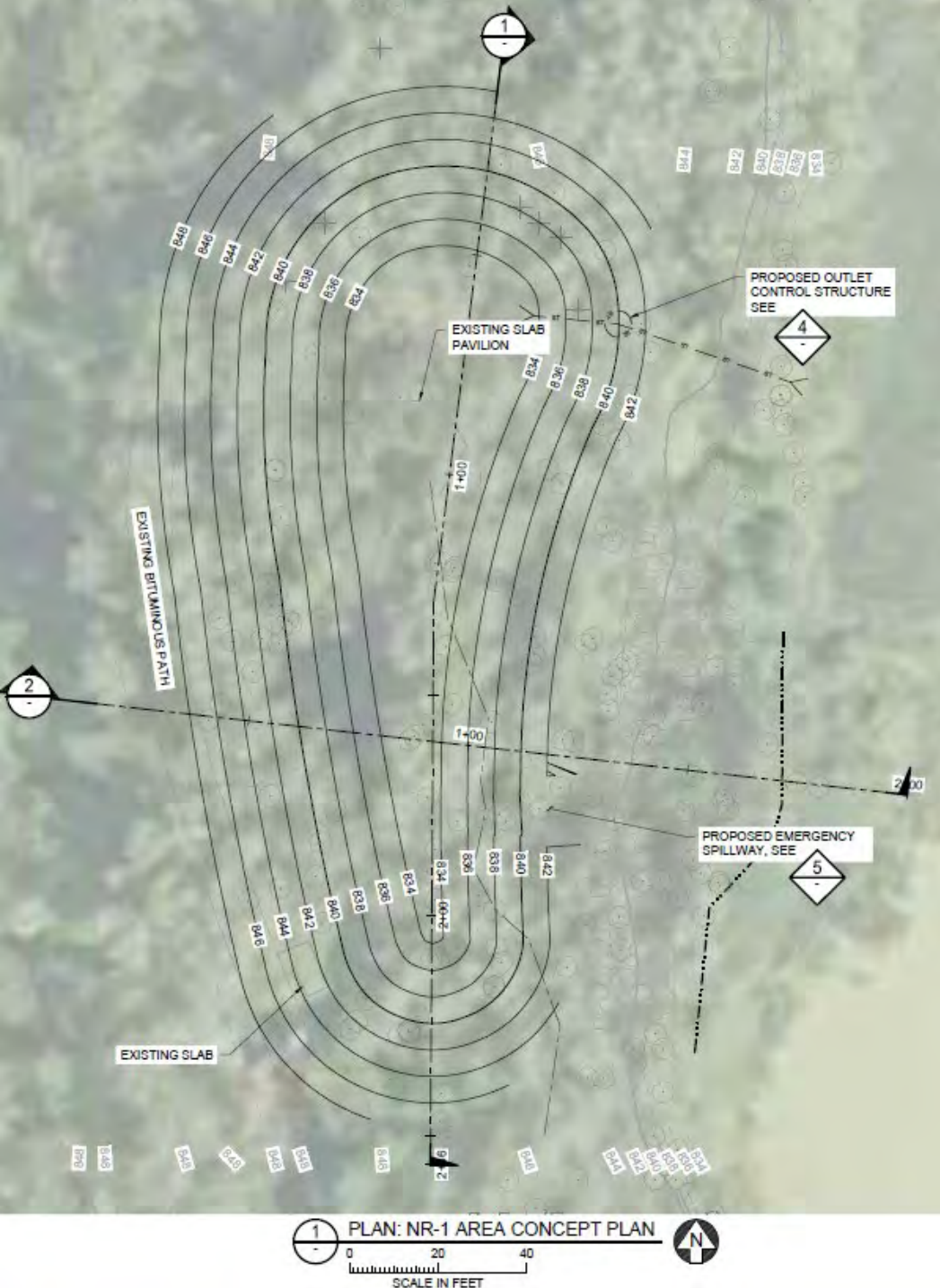
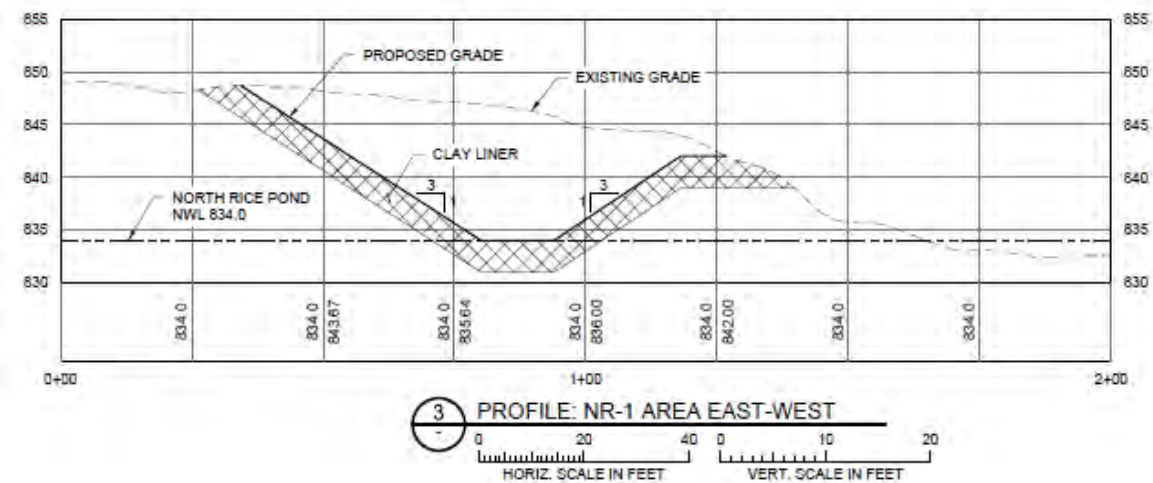
- Minnesota Department of Natural Resources (MDNR) Public Waters Work Permit
- Compliance with the Minnesota Wetland Conservation Act (WCA)
- US Army Corps of Engineers (USACE) [Nationwide] Permit – (Section 404)
- Compliance with Minnesota Pollution Control Agency (MPCA) requirements/guidance for
 - Section 401 Water Quality Certification (if necessary)
 - Managing dredged material
 - Managing contaminated material and debris
 - Construction Stormwater General Permit
- City of Robbinsdale Stormwater Permit

Proposed Structural BMPs

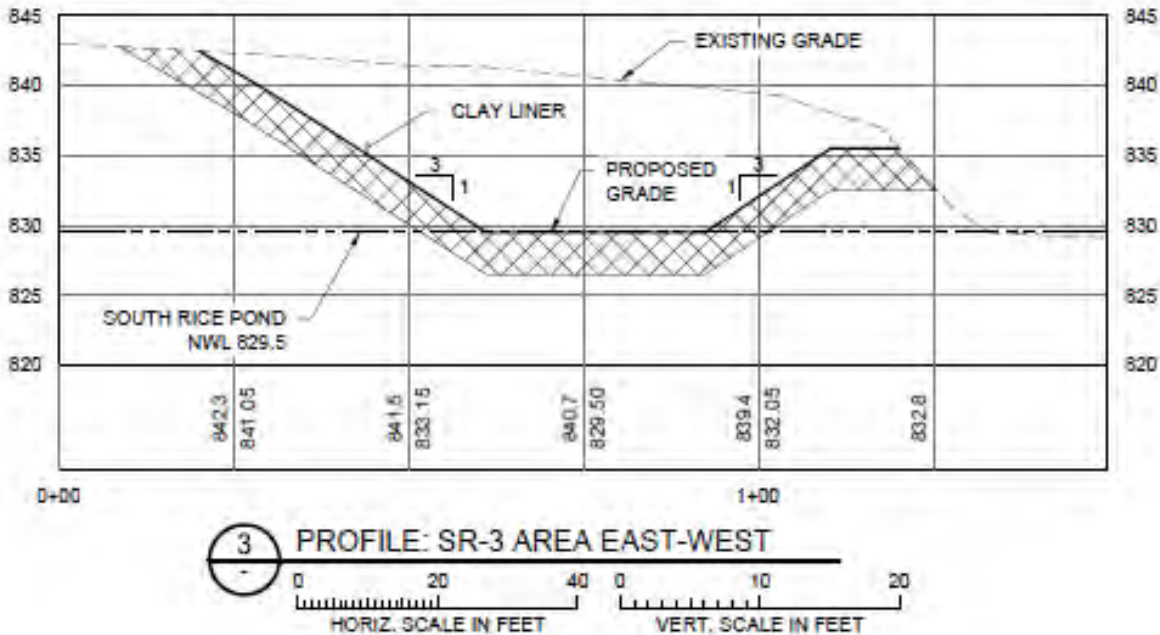
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BMP ID/Name	BMP Location	BMP Description	Approximate Number of Tree Removals	Wetland/ Prairie Impacts	Annual TP Removal (lbs/yr)
Pond NR-1	Northwest portion of Sochacki Park, tributary to North Rice Pond	Construct new stormwater pond for untreated runoff from City of Golden Valley	120	None. Disturbance is limited to upland area.	3.6
Pond SR-3	West portion of Sochacki Park, tributary to South Rice Pond	Construct new stormwater pond for untreated runoff from City of Golden Valley	85	Negligible. Pond will be developed from wooded upland area.	3.3
BMP GR-6	South Halifax Park, tributary to Grimes Pond	Construct permeable filtration system with CC17 crushed limestone to better treat runoff from City of Robbinsdale	2	Approximately 0.2 acres of wetland area, below <u>MnDNR</u> OHWL, would be used to install permeable filtration system.	15.5
Pond SR-4	East portion of Sochacki Park, tributary to South Rice Pond	Dredge and expand existing pond to better treat runoff from City of Robbinsdale and stabilize outlet channel	120	None. Pond expansion is occurring in wooded upland area.	38.9

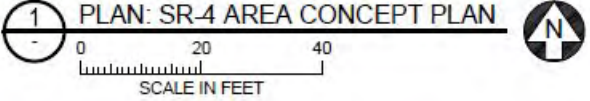
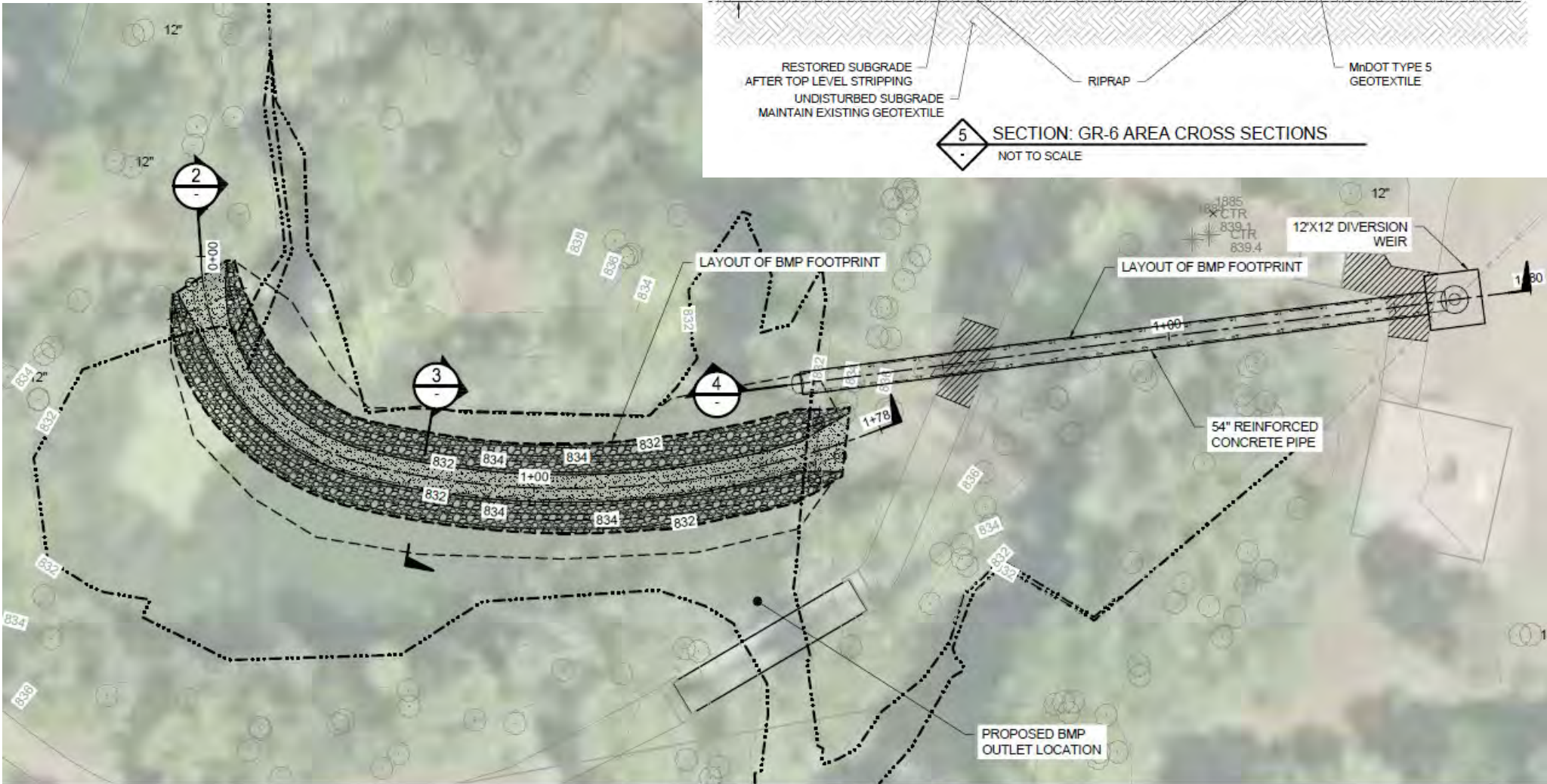
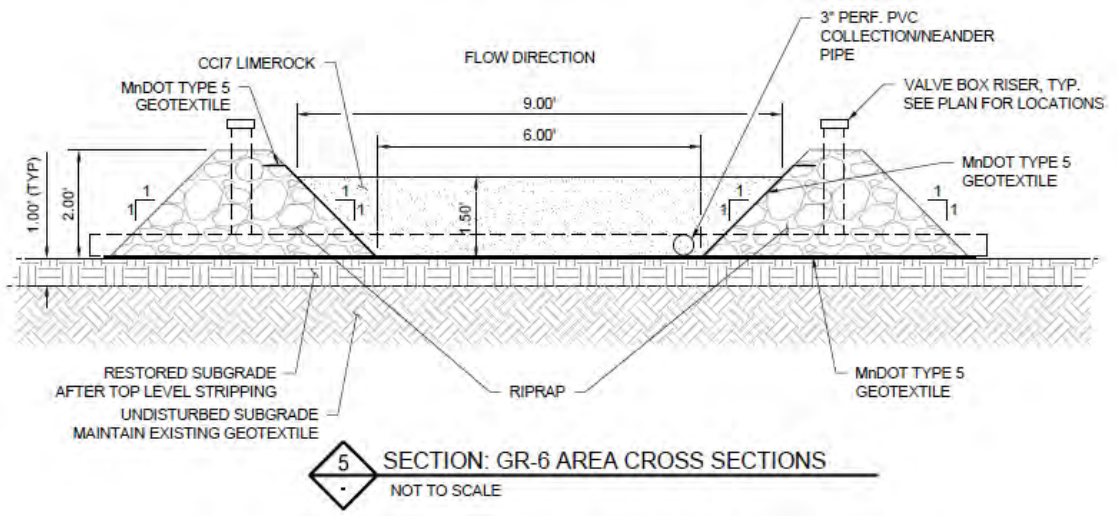
BMP NR-1 (16.4-acre tributary subwatershed to North Rice Pond)



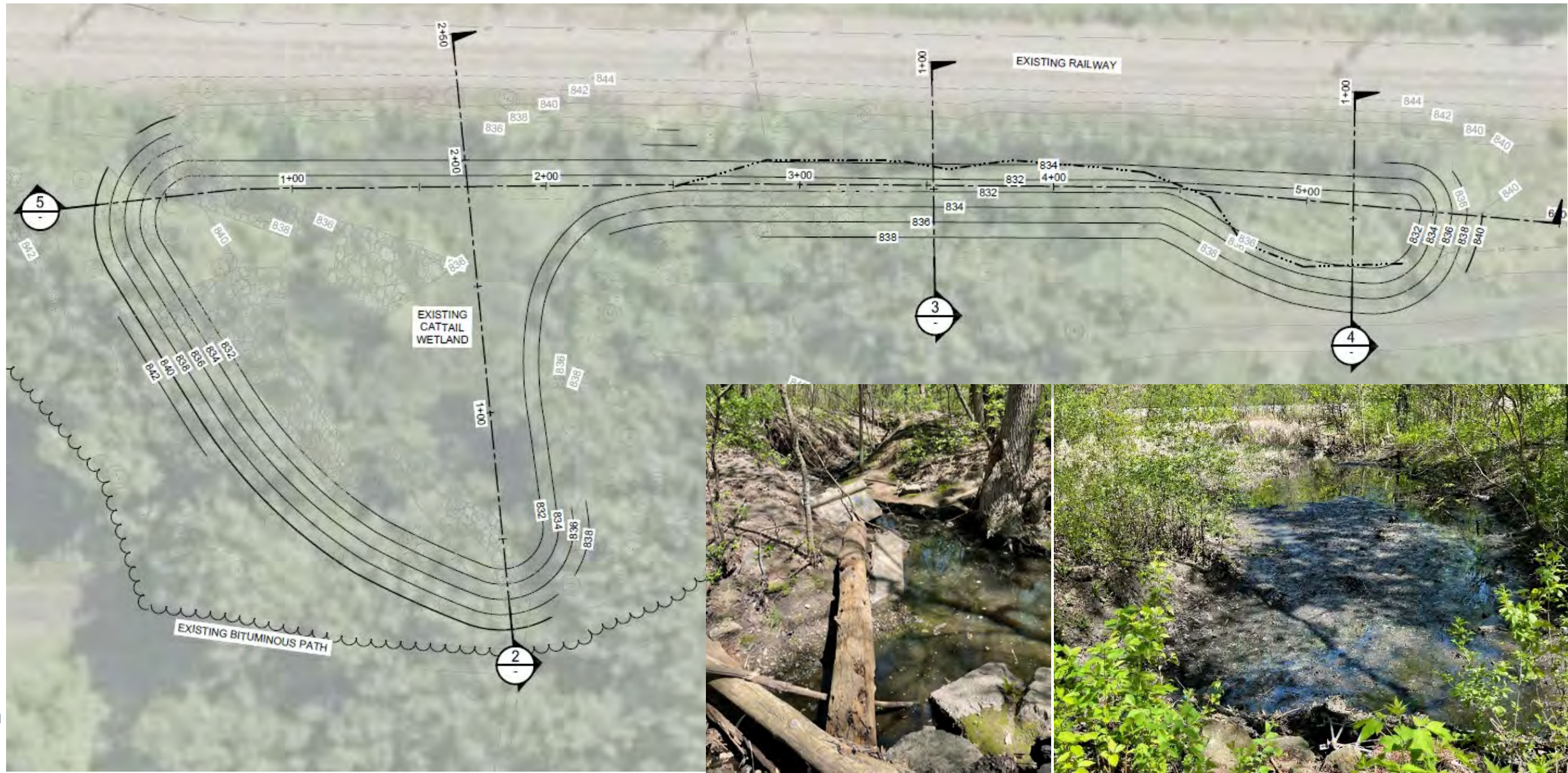
BMP SR-3 (15.7-acre tributary subwatershed to South Rice Pond)



BMP GR-6 (46.4-acre tributary subwatershed to Grimes Pond)



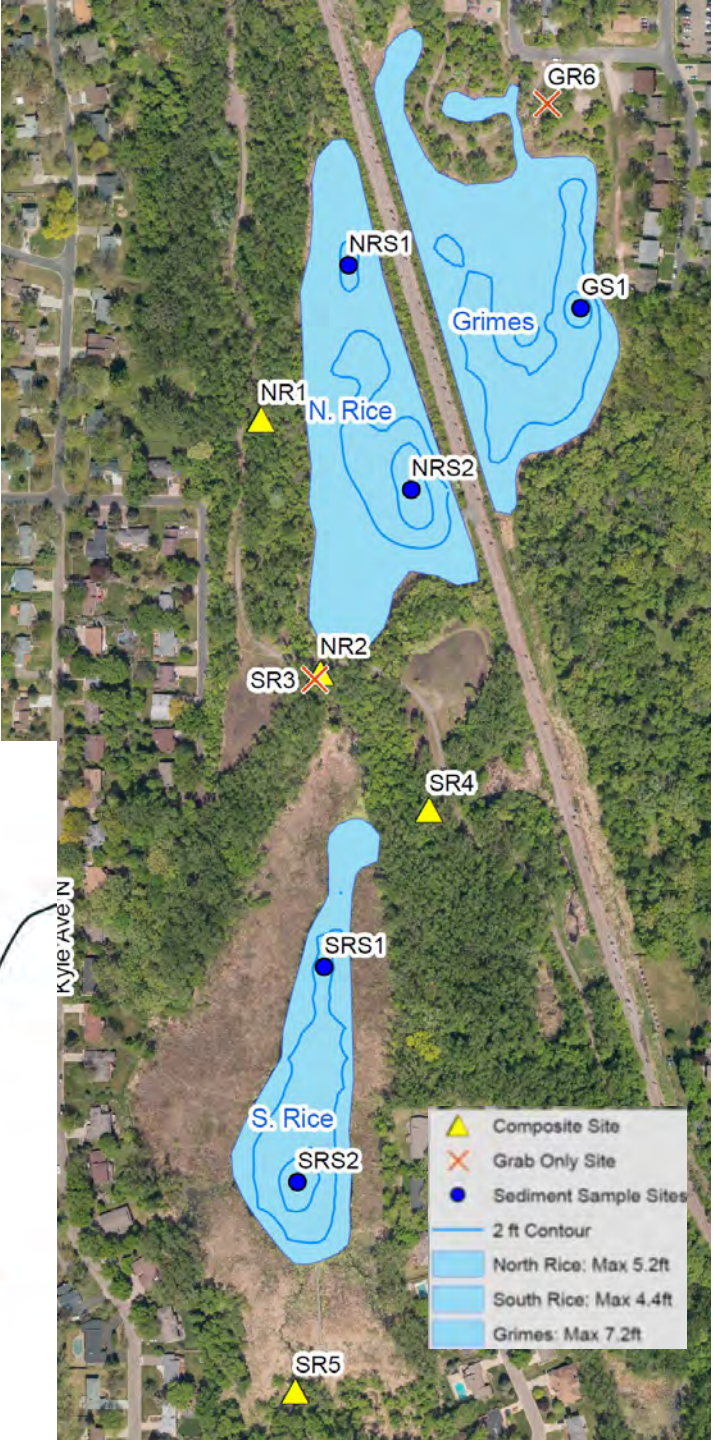
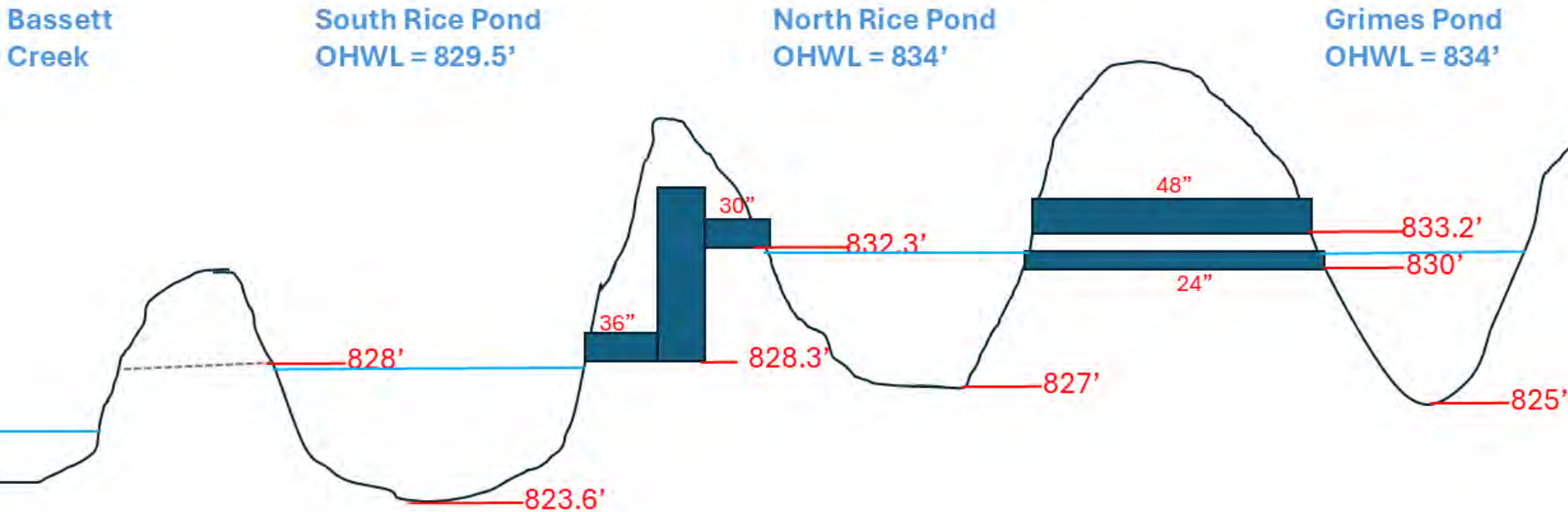
BMP SR-4 (204.3-acre tributary subwatershed to South Rice Pond)



Controlled Water Level Drawdowns for Each Pond



- Drawdowns help control curlyleaf pondweed, and reduce phosphorus load from plant die-off, to flip floating-plant dominated system and minimize sediment phosphorus release and odor
- Water levels of all 3 ponds will be pumped down in the fall of 2026 in advance of winter freeze up with assistance from existing gravity connections



Project Funding



Total Project Funding for Design and Construction

*Federal HUD Grant	\$	1,616,279.00
Bassett Creek Watershed Management Commission	\$	600,000.00
Hennepin County Environmental Response Fund Grant	\$	477,000.00
	\$	2,693,279.00

**Original assumption ~\$400k reserved for recreational facilities (e.g. boardwalks and viewing platforms)*



Next Steps



- Consider approval of 50% design as presented
- If approved to move forward with design:
 - o File permit applications
 - o Public meeting
 - o Continue to 90% designs and cost estimates
 - o Develop construction specifications



Thank you Discussion/Questions

