DeCola Ponds B & C Improvement
Project 50% Design

Bassett Creek Watershed Management Commission Meeting
February 21, 2019
Jen Koehler PE, Barr Engineering Company
Outline

- Review project goals & project recommendation from feasibility study
- Discuss funding sources
- Outline final design timeline
- Highlight Environmental Assessment Worksheet (EAW) process & comments
- Present 50% design
- Outline permitting
- Discuss next steps
The DeCola Ponds B and C Improvement Project

Project study area:

DeCola Ponds B&C Project Study Area

Project goals:

- Reduce damages and improve public safety by developing 20–25 acre-feet of flood storage—that’s 19 feet of water over an entire football field!
- Water quality improvement, outlet modifications, sediment removal, and habitat restoration.
- Preserve recreational use and improve park user experience.
- Tree removal will be required to achieve flood storage and water quality improvements; but, the goal is to preserve significant hardwoods in the area and restore vegetation.

How do you create flood and water quality storage?

- Excavation here allows for expansion of flood storage
- Excavation here allows for improved water quality treatment
- Excavation of accumulated sediment restores water quality treatment
- Normal water level
- Flood storage

DeCola Ponds B&C Improvement Project Feasibility Study
Recommendation: Concept 3

Concept 3: Hybrid of Concepts 1 & 2
Estimated Cost (-20%/+30%) = $3.8 Million

- Total Project Cost (-20%/+30%): $3.8 million ($3.0 – $4.9 million)
  - Flood Volume Cost: $173,400/acre-ft
  - Annualized Water Quality Cost: $9,600 per pound TP/year* (*estimated WQ excavation only)
Project Funding Sources

- BCWMC CIP: $1.6 million (over 2 years (2019/2020))
- MnDNR Flood Damage Reduction Grant request: $2.3 million
- Hennepin County/Golden Valley: $700,000
- Total = $4.6 million
Final Design Process

- **Sept. 2018**: Project authorized and MnDNR grant agreement executed
- **Oct. 2018**: Final design begins
- **Dec. 2018**: Environmental Assessment Worksheet (EAW) review period
- **Feb. 2019**: 50% design, EAW process ends and permitting begins, Public Open House #1, Present 50% design to BCWMC
- **April 2019**: 90% design, Public Open House #2, Present 90% design to BCWMC
- **June/July 2019**: Project bidding
- **Aug. 2019**: Permitting ends, Construction contract negotiations
- **2019**: Construction starts in September 2019 and concludes in summer 2020

(city of golden valley | BARR)
Environmental Assessment Worksheet (EAW)

- EAW developed based on concept design 3
- Submitted to EQB – public comment 12/17/2018-1/16/2019
- Comments received from 5 agencies (right)
- No other public comments
- RGU concluded an EIS is not necessary

**Minnesota Pollution Control Agency (MPCA)**
- Submittal of Notification to Dredge without a Permit form
- Pursue necessary measures to control noise during daytime hours

**Minnesota Department of Natural Resources (MnDNR)**
- Appropriations permit for construction dewatering, including consultation with the MPCA
- Dewatering contingency plan in relation to turtle mortality

**Metropolitan Council**
- Coordination with Metropolitan Council Environmental Services related to sanitary interceptors

**State Historic Preservation Office (SHPO)**
- Recommend a Phase I Archaeological Survey

**Minnesota Department of Transportation**
- No comments
50% Design Concept

50% Design
Estimated Cost (-10%/+20%) = $4.1 Million

Concept Summary

- Additional Flood Storage Created: 24.0 acre-feet
- Open Water Expansion: 2.0 acres
- Improved Water Quality:
  - Additional 8.5 lbs/yr phosphorus removed
- Restored Wetland and Upland habitat: 3.0 acres total
- Medicine Lake Road
  - 100-Year Flood Depth Reduced to approximately 2 ft
- Reduction of Flood Level on Ponds:
  - DeCola Pond A, B, C
    - A, B, C: 0.5’
    - D: 0.5’
    - E, F: 0.1’

DeCola Ponds B&C Improvement Project Final Design
Permitting & Coordination

- Submitted permit applications mid February – ~6 month process
- Coordination with utilities (MCES, private, and railroad)
- Working with private residents & landowners (Dover Hill, residents on north end of DeCola Pond D)
- BCWMC 90% design review

Other Environmental Permits:
- U.S. Army Corp of Engineers Clean Water Act Section 404 Permit
- MnDNR Public Waters Work Permit
- MnDNR Appropriations Permit for construction dewatering
- MPCA 401 Water Quality Certification
- MPCA Construction Stormwater General Permit
- Compliance with the MPCA’s guidance for managing dredged material including Notification to Drege form
- Compliance with the MPCA’s guidance for managing contaminated material and debris-containing fill
- Compliance with the Minnesota Wetland Conservation Act (WCA)
- City of Golden Valley Right-of-Way Permit
- City of Golden Valley Stormwater Permit
Working Through the Restoration Plan

- Feedback received from Dover Hill Apartments management and maintenance staff regarding restoration
- Public comments – primarily from residents on Pond D
- Will include a mix of native trees, shrubs, grasses, and forbs
- Restoration vegetation selection will also consider the proposed hydrology – peak elevations, frequency, duration
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Any Questions?