

DeCola Ponds B & C Improvement Project 50% Design

Bassett Creek Watershed Management Commission Meeting

February 21, 2019

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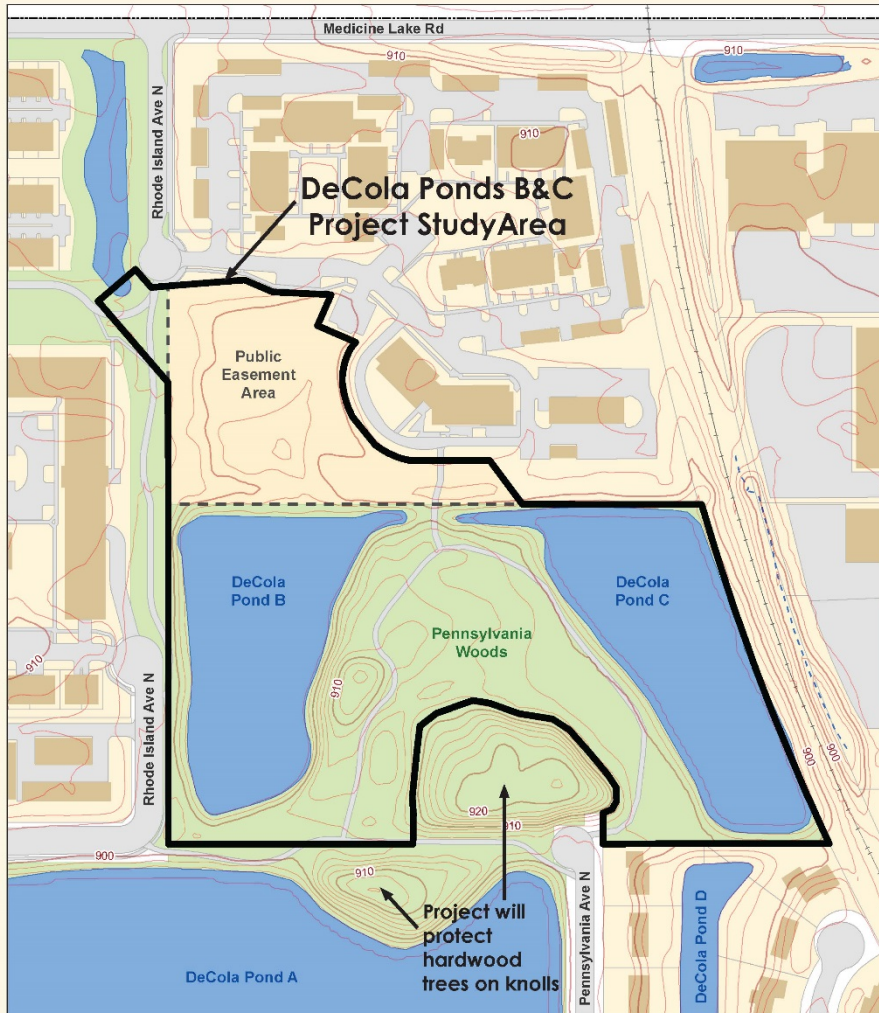
Outline

- 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

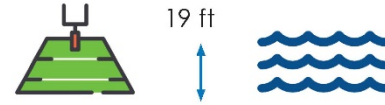


The DeCola Ponds B and C Improvement Project

Project study area:



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.

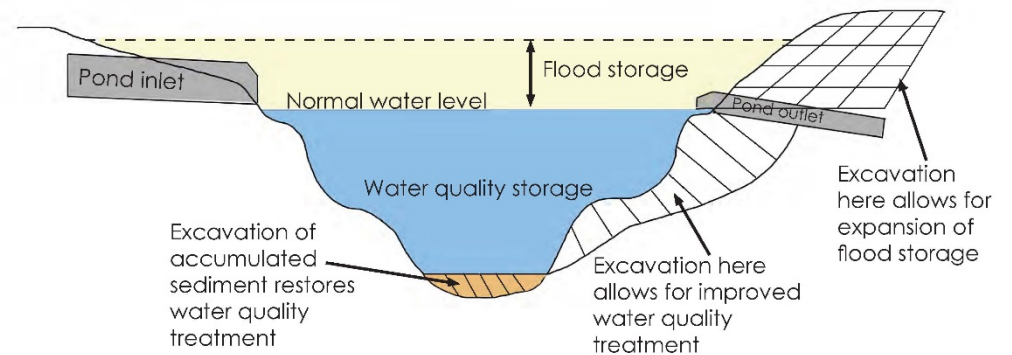


Preserve recreational use and improve park user experience.



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.

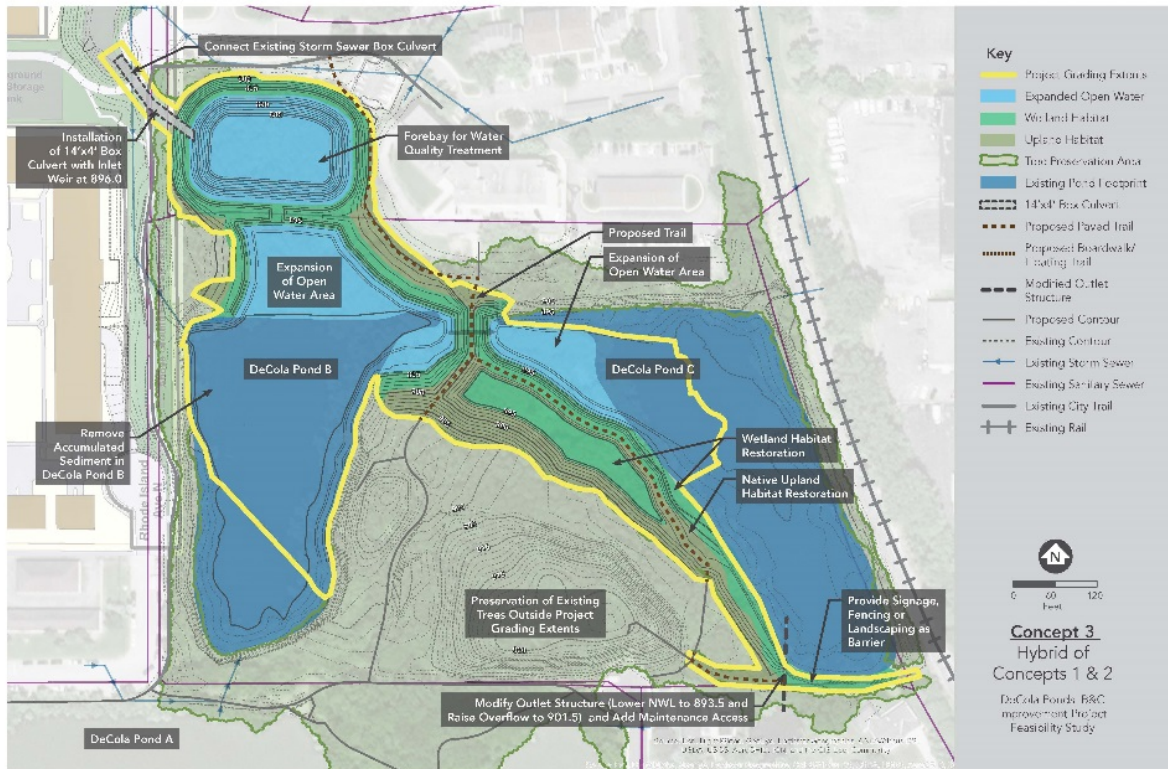
How do you create flood and water quality storage?



Recommendation: Concept 3

Concept 3: Hybrid of Concepts 1 & 2

Estimated Cost (-20%/+30%) = \$3.8 Million



Concept Summary

Flood Mitigation Volume:
22 acre-ft

Open Water Expansion:
1.9 Acres

Increase in Phosphorus Removal:
9.0 lbs/year

Restored Wetland & Upland:
2.7 acres

Medicine Lake Road 100-Year Flood Depth:
1.8 Feet

Reduction of Flood Level on Ponds

DeCola Pond	Feet
A,B,C	- 0.5'
D	- 0.5'
E,F	- 0.1'

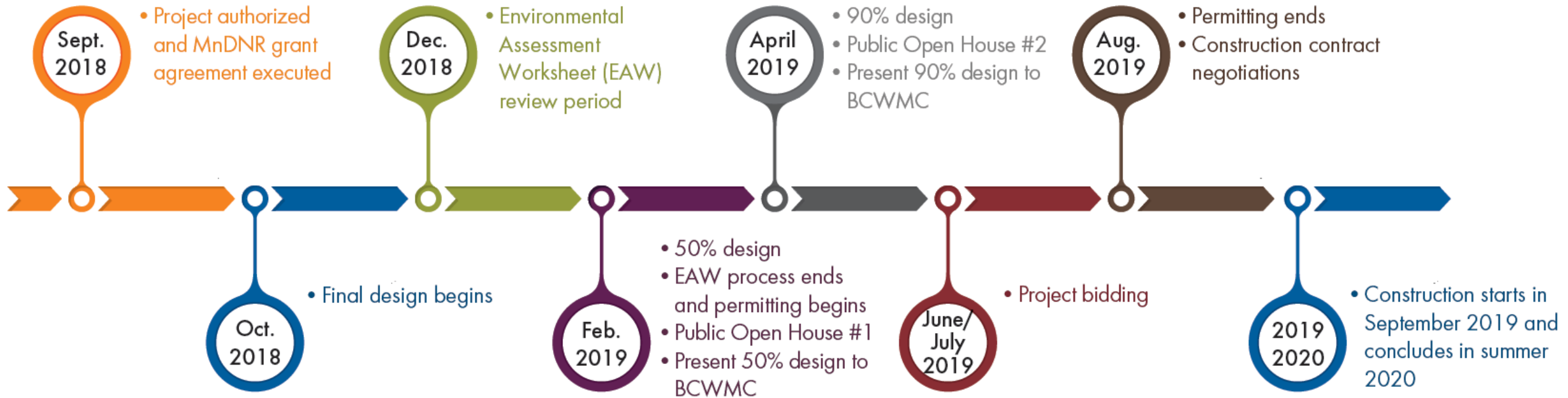
■ **Total Project Cost (-20%/+30%):**
\$3.8 million (\$3.0 – \$4.9 million)

- 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



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

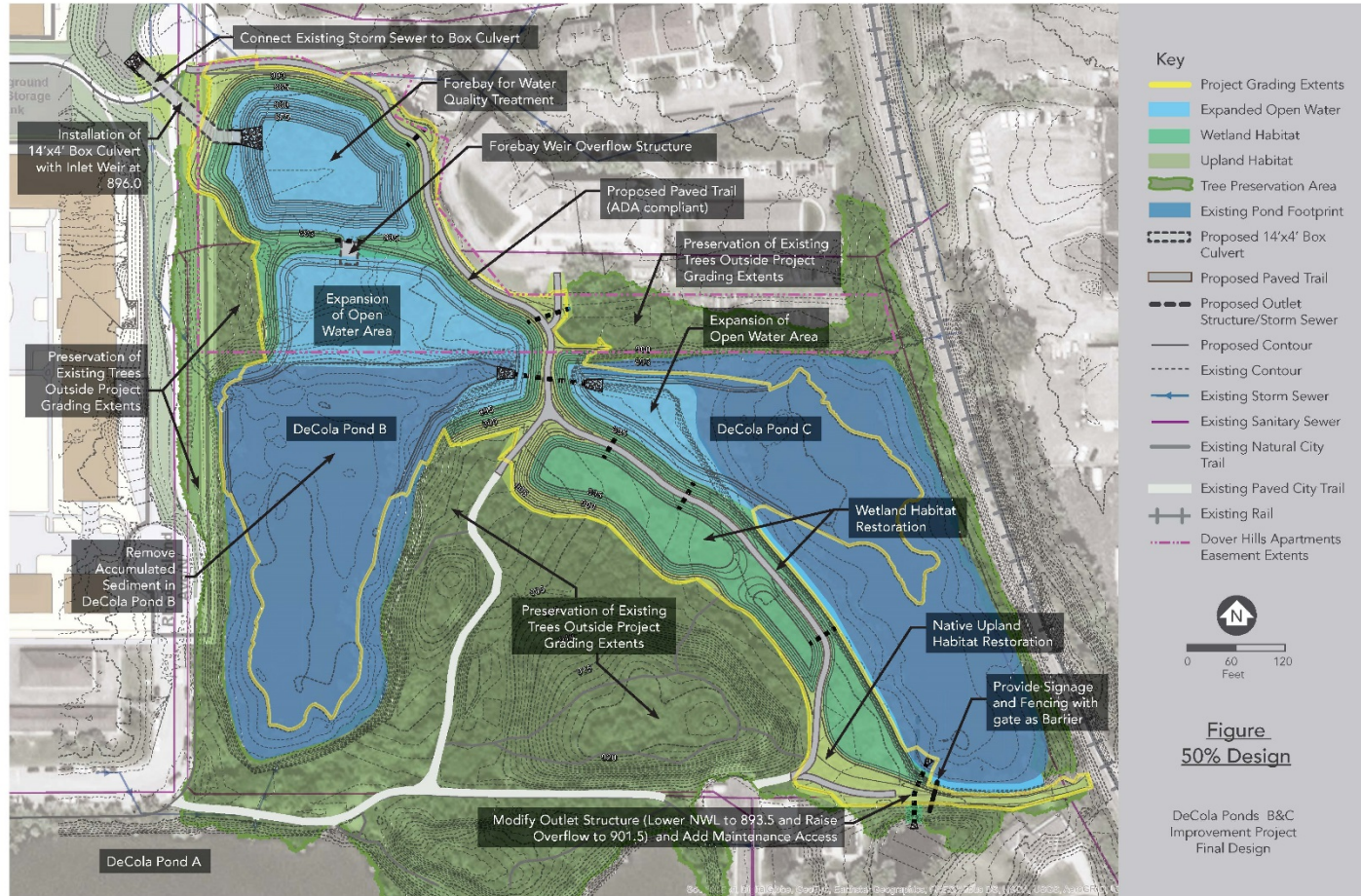
Minnesota Department of Transportation

- 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	Feet
A, B, C	- 0.5'
D	- 0.5'
E, F	- 0.1'

- Key**
- Project Grading Extents
 - Expanded Open Water
 - Wetland Habitat
 - Upland Habitat
 - Tree Preservation Area
 - Existing Pond Footprint
 - Proposed 14'x4' Box Culvert
 - Proposed Paved Trail
 - Proposed Outlet Structure/Storm Sewer
 - Proposed Contour
 - Existing Contour
 - Existing Storm Sewer
 - Existing Sanitary Sewer
 - Existing Natural City Trail
 - Existing Paved City Trail
 - Existing Rail
 - Dover Hills Apartments Easement Extents



Figure 50% Design

DeCola Ponds B&C Improvement Project Final Design

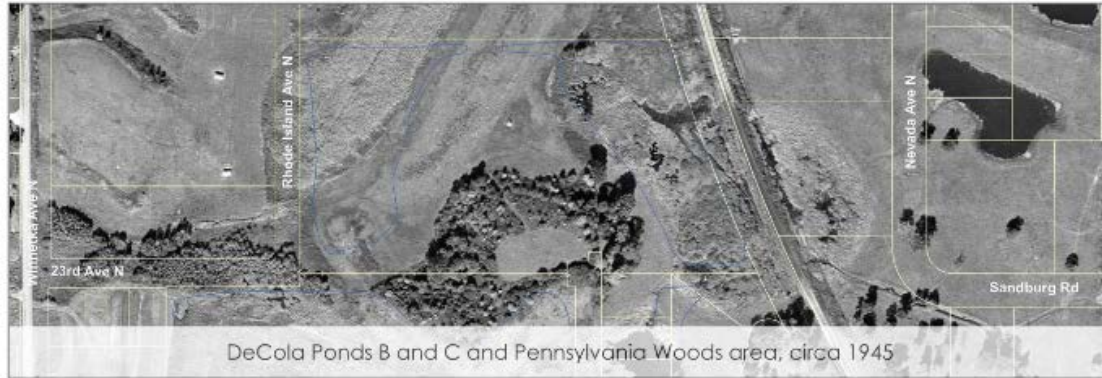
Permitting & Coordination

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

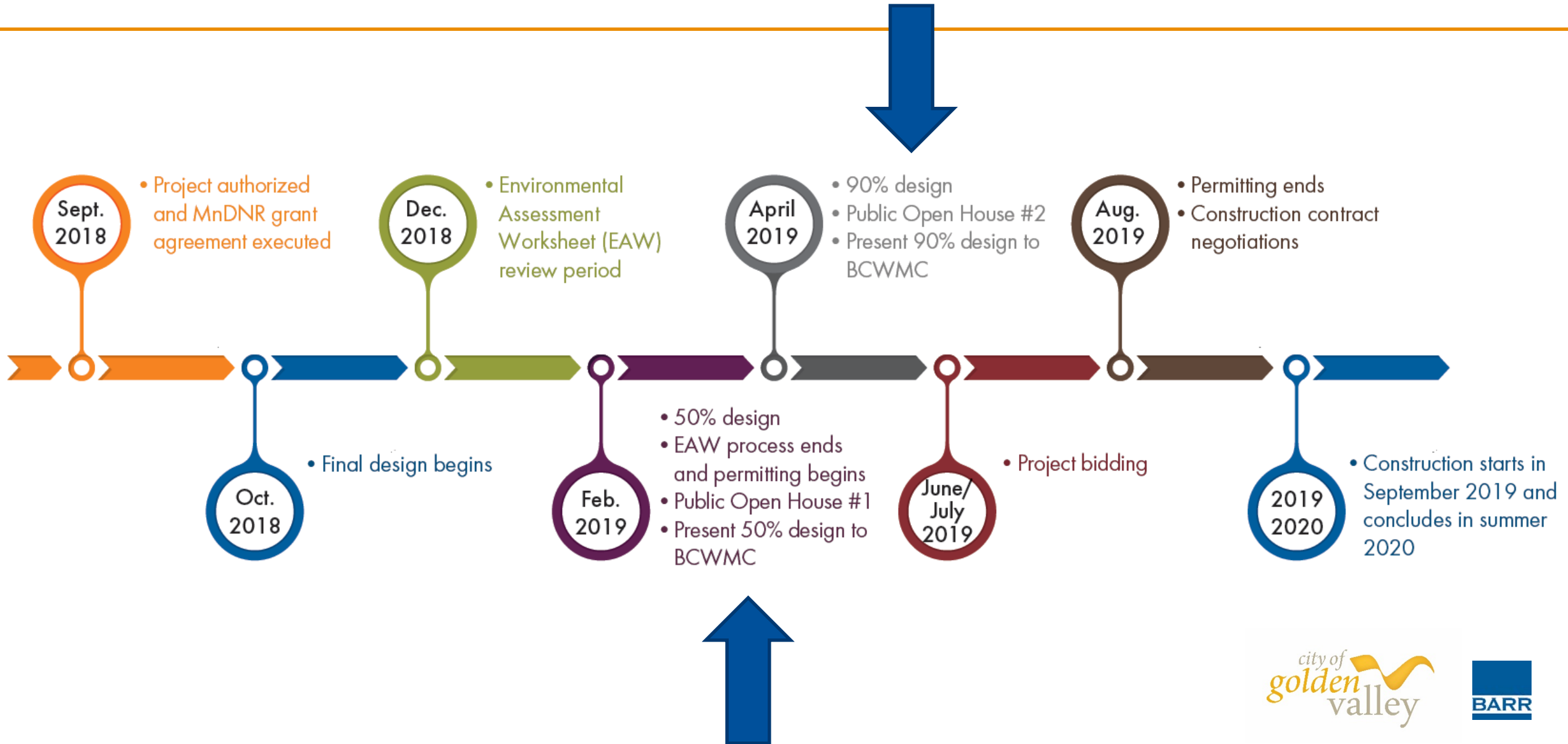
- Submitted permit applications mid February
 - ~6 month process
- Coordination with utilities (MCES, private, and railroad)
- Working with private residents & landowners (Dover Hill, residents on north end of DeCola Pond D)
- BCWMC 90% design review

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

Final Design Process



Any Questions?

