



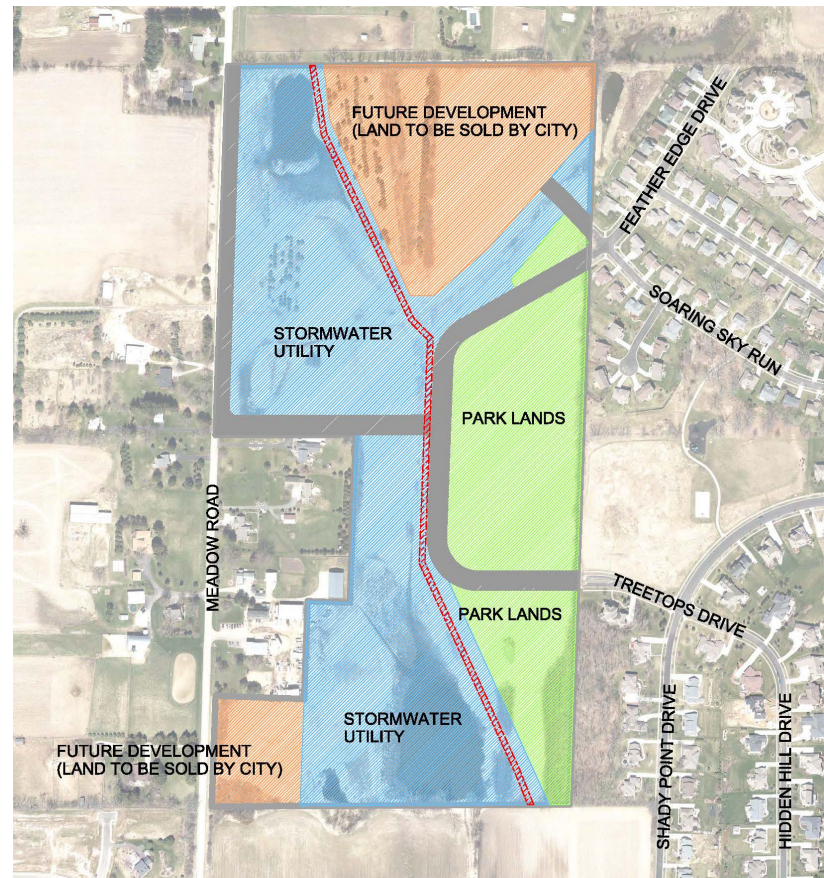
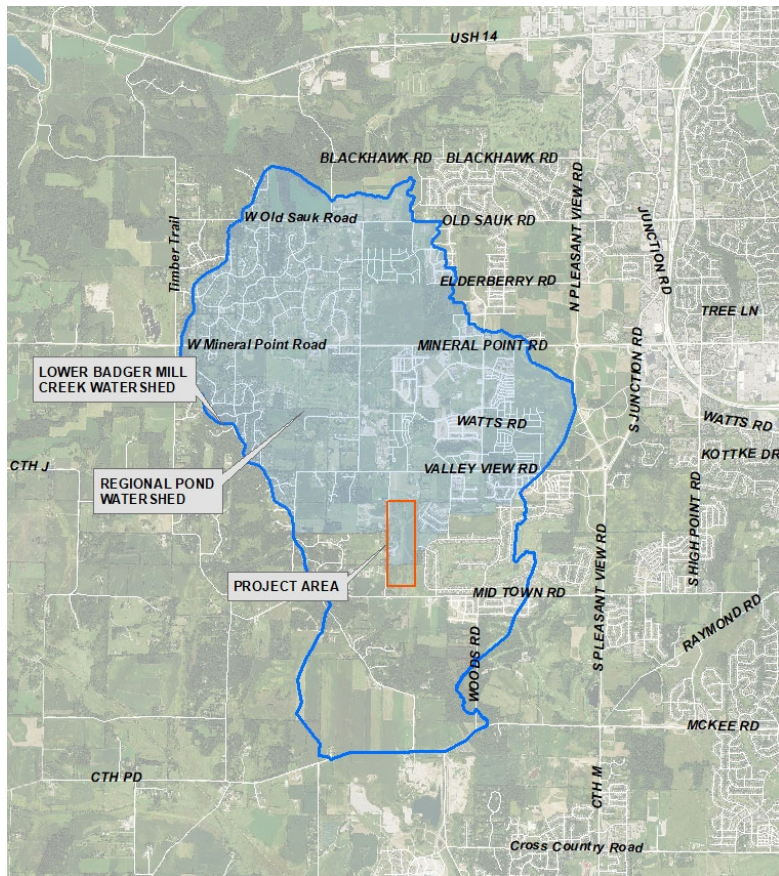
Lower Badger Mill Creek Pond Construction

Habitat Stewardship Subcommittee
City of Madison Engineering Division
November 22, 2022

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Project Location

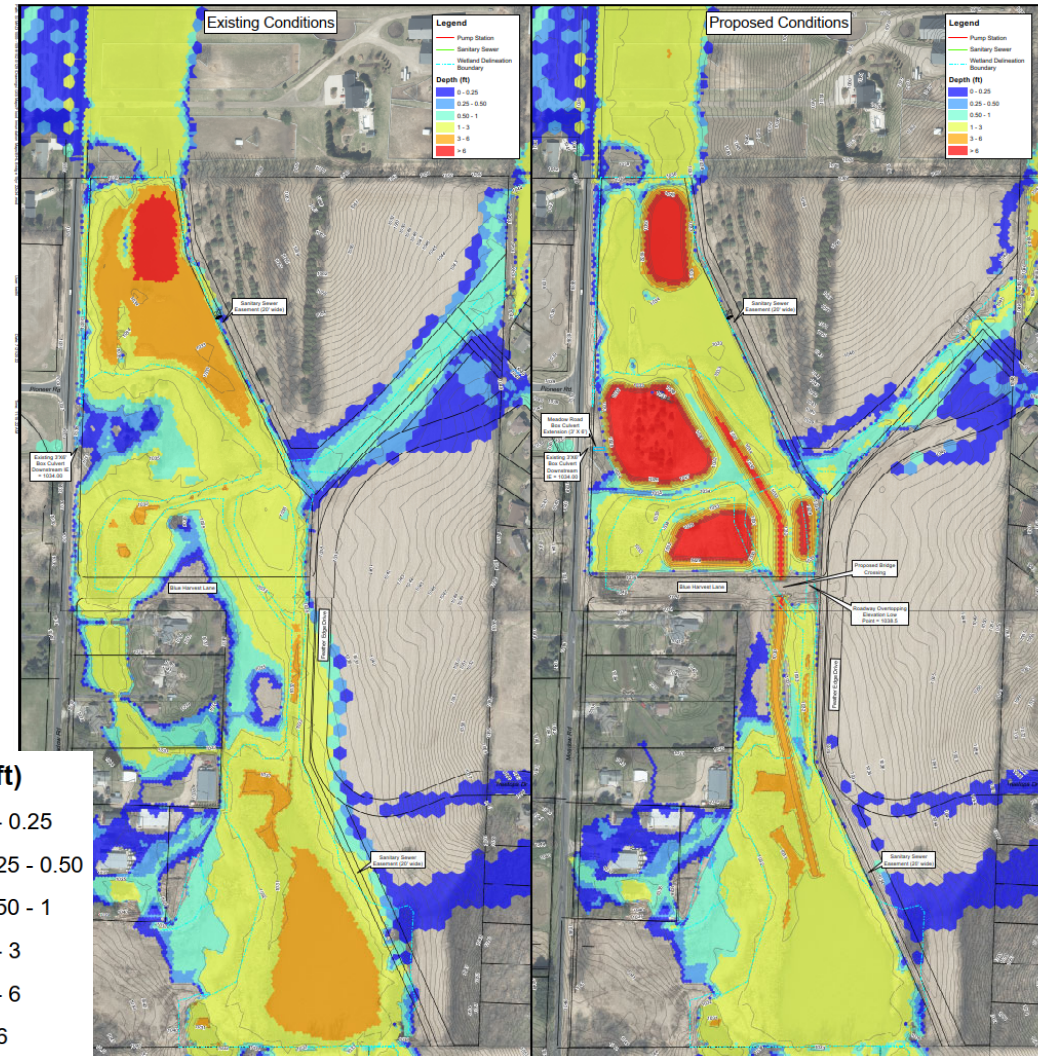
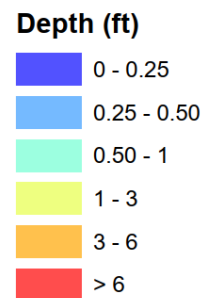


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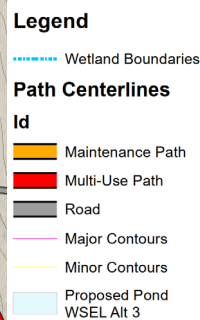
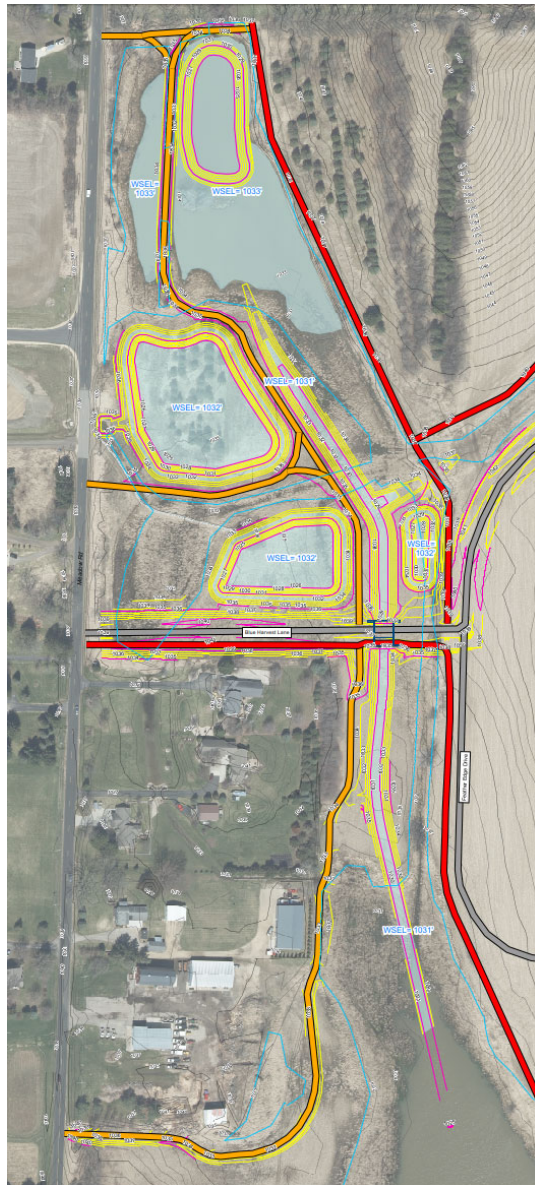
Project Objective – Flood Mitigation

- Regional stormwater storage & flow diversion



Proposed Pond Design

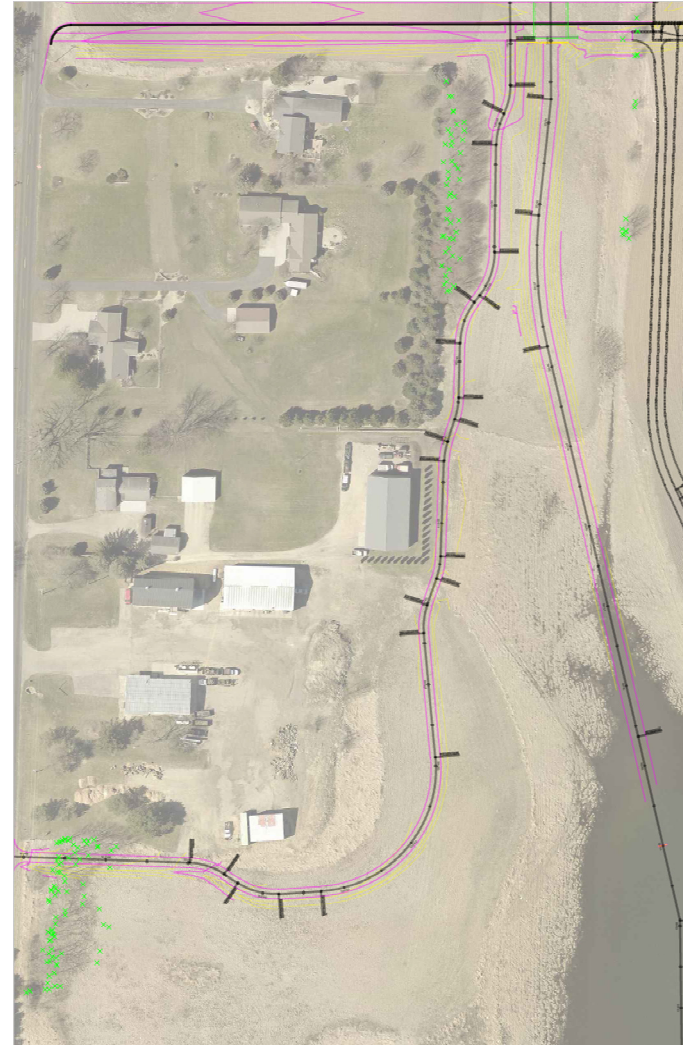
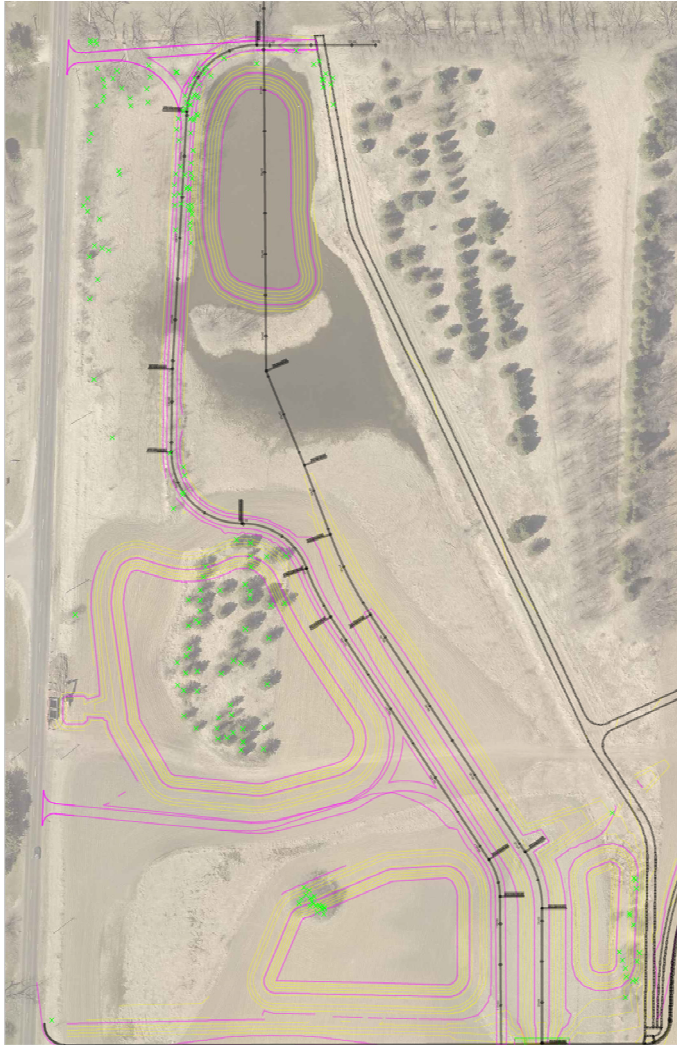
- Provide storage for regional stormwater flow
- Reduce peak flow leaving watershed
- Correct drainage patterns to mitigate flooding on private property
- Construct wet ponds that provide water quality benefit
- Incorporate gravel access paths and paved multi-use paths
- Construct street connection shown in Neighborhood Development Plan



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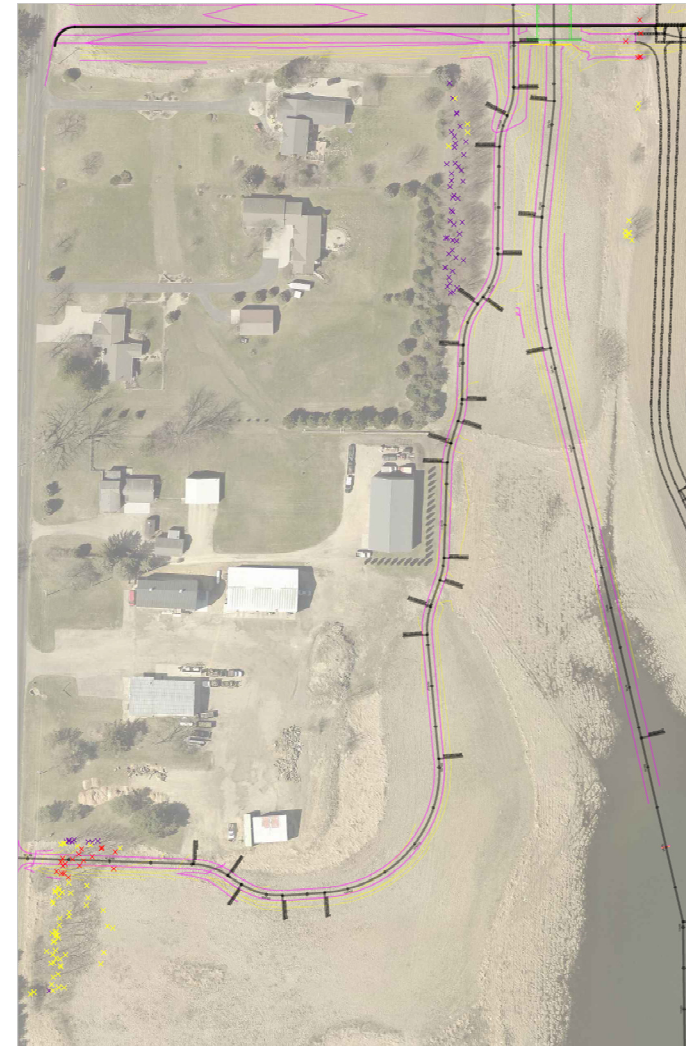
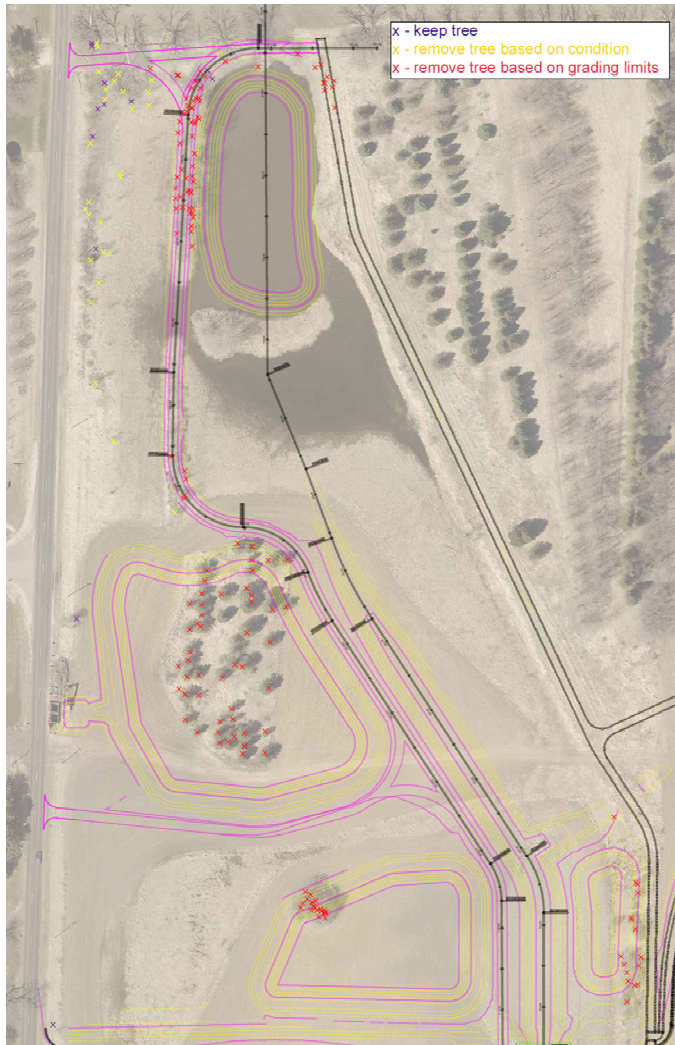
All Trees - 340 surveyed (>3" diameter)



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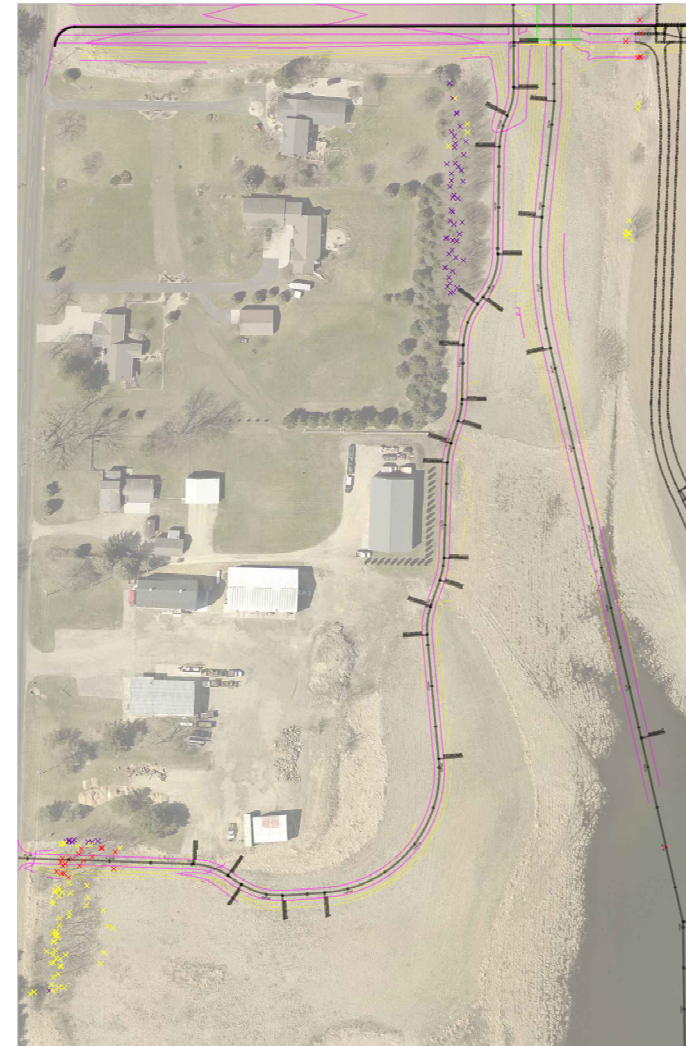
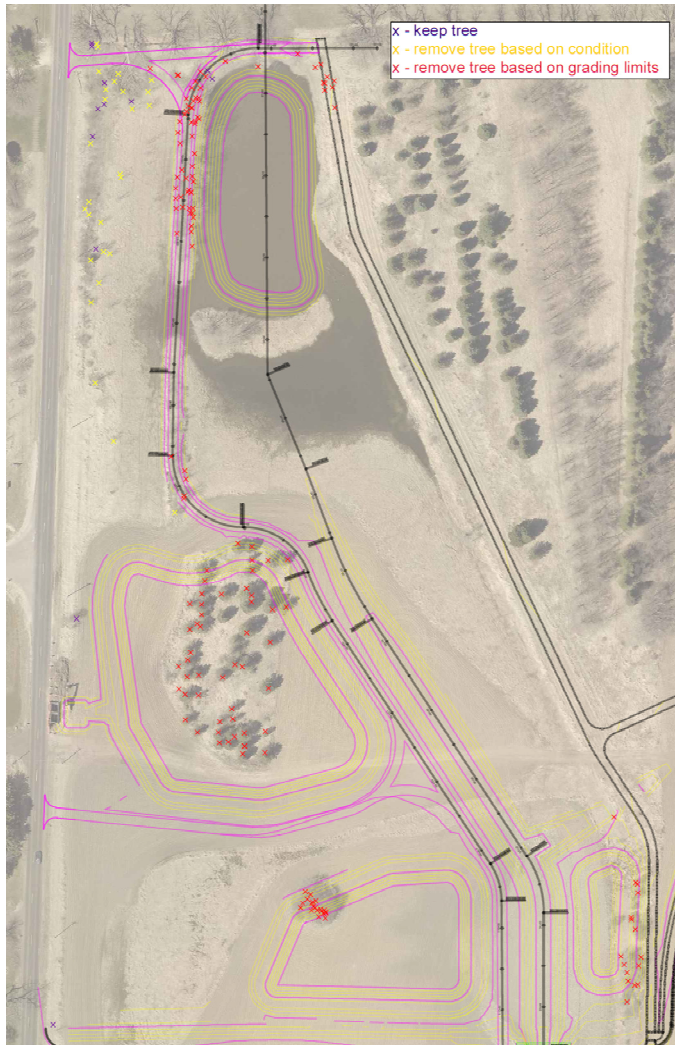
Tree Removals for Grading (red) - 178



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Tree Removals Based on Quality (yellow) - 94

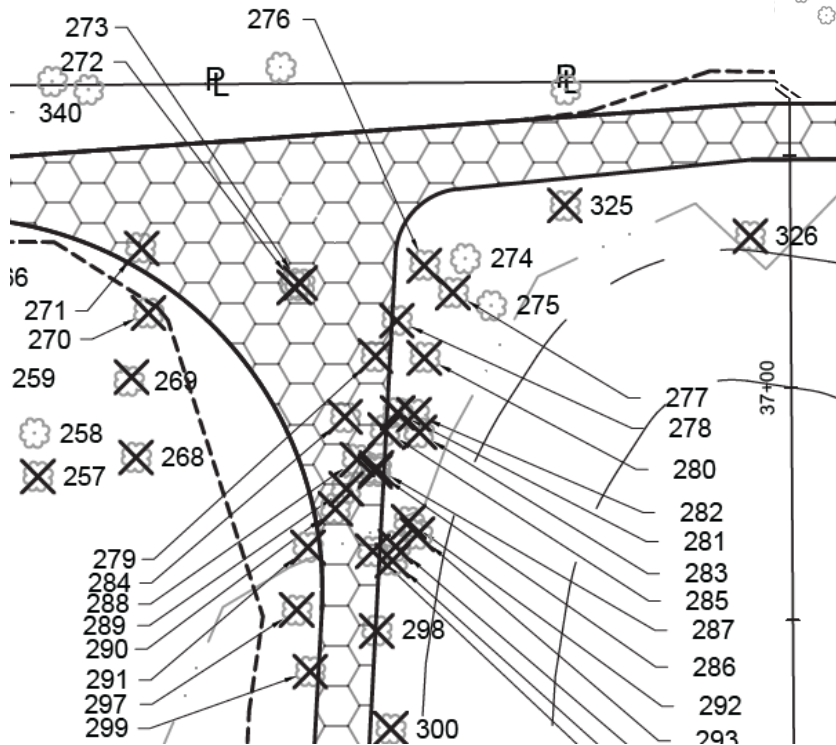


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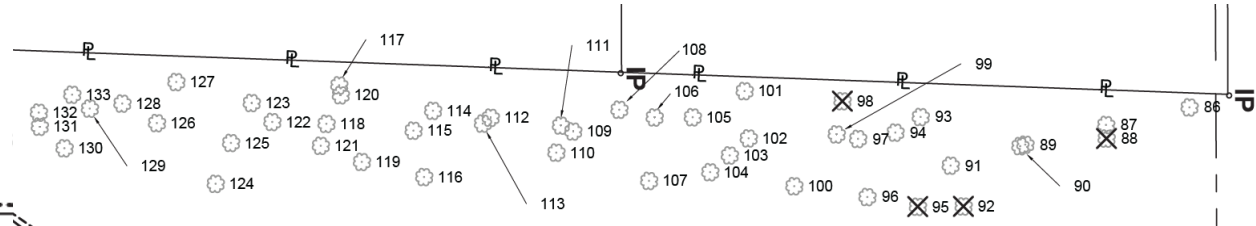


Trees to Keep - 68 Overall

- Protect 2 bur oaks



- Protect 43 red maples



- 23 other trees across a variety of species

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Ecological Restoration

- Current Conditions
 - Agricultural land, reed canary grass monoculture, fencerows, former tree nursery, broad-leaf invasive species i.e. thistles, crown vetch, burdock, and non-native cool season grasses



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Ecological Restoration

Restoration Goal: restore site to functional tallgrass prairie and wetland ecosystems

- Sow cover crops post grading work 2023
- Mowing and foliar herbicide applications to control herbaceous invasives throughout growing season 2024
- Sow native seed fall 2024
 - Upland tallgrass prairie mix
 - Wet-Mesic detention basin mix
- Plant emergent aquatic plugs, native tree and shrubs 2025
- Woody and herbaceous invasive species maintenance with Ecological Restoration Contractor 2023 - 2027



Contact Information & Resources

➤ Project Website: cityofmadison.com/engineering/projects/lower-badger-mill-creek-pond

- Sign-up for project email updates on the website
- Updates on closures & work progress will be posted to the project website

➤ Engineering

- Matt Allie P.E., 608-266-4058, MAllie@cityofmadison.com
- Hannah Mohelnitzky, Public Information Officer, 608-242-6003, HMohelnitzky@cityofmadison.com

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