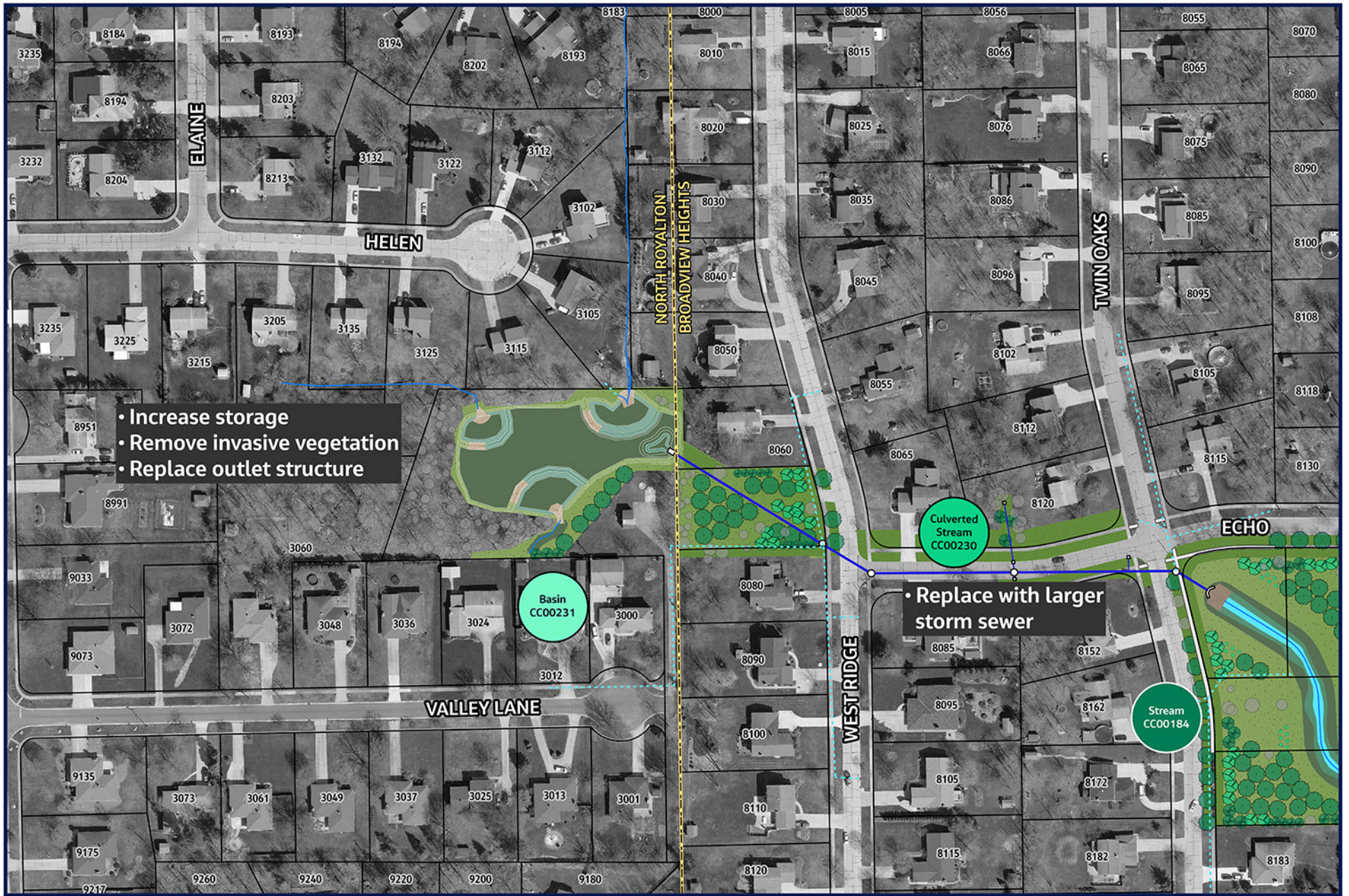


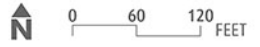
CONCEPT PLAN (Basin CC00231 and Culverted Stream CC00230)



Concept for Proposed Stormwater Infrastructure Improvements

*The concept will continue to be refined based on coordination with property owners and stakeholders.

- Existing Trees to Remain
- Existing Storm Sewer
- Proposed Storm Sewer
- Proposed Trees



Basin CC00231



Existing Basin Vegetation



Existing Basin Outlet Structure

EXISTING

- Accumulated sediment has reduced storage capacity
- Invasive vegetation limits native vegetation and complicates maintenance
- Outlet structure is deteriorating

PROPOSED

- Remove sediment to increase storage capacity
- Remove invasive species
- Replace the basin outlet with a new structure that optimizes storage and improves operations and maintenance

Culverted Stream CC00230



Existing Culverted Stream Inlet at Basin CC00231



Existing Culverted Stream Outlet at Stream CC00184

EXISTING

- Existing culverted stream has multiple pipe sizes, materials, and slopes which reduce capacity and contribute to flooding
- Existing alignment presents operations and maintenance challenges

PROPOSED

- Replace with a new, larger storm sewer (60-inch diameter) with increased capacity
- Proposed alignment is primarily within existing right-of-way

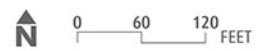
CONCEPT PLAN (Stream CC00184 and Culverted Stream CC00183)



Concept for Proposed Stormwater Infrastructure Improvements

*The concept will continue to be refined based on coordination with property owners and stakeholders.

- Existing Trees to Remain
- Proposed Storm Sewer
- Proposed Trees



Stream CC00184 and Culverted Stream CC00183



Existing Stream Channel



Existing Stream Outlet at Culverted Stream CC00183

EXISTING

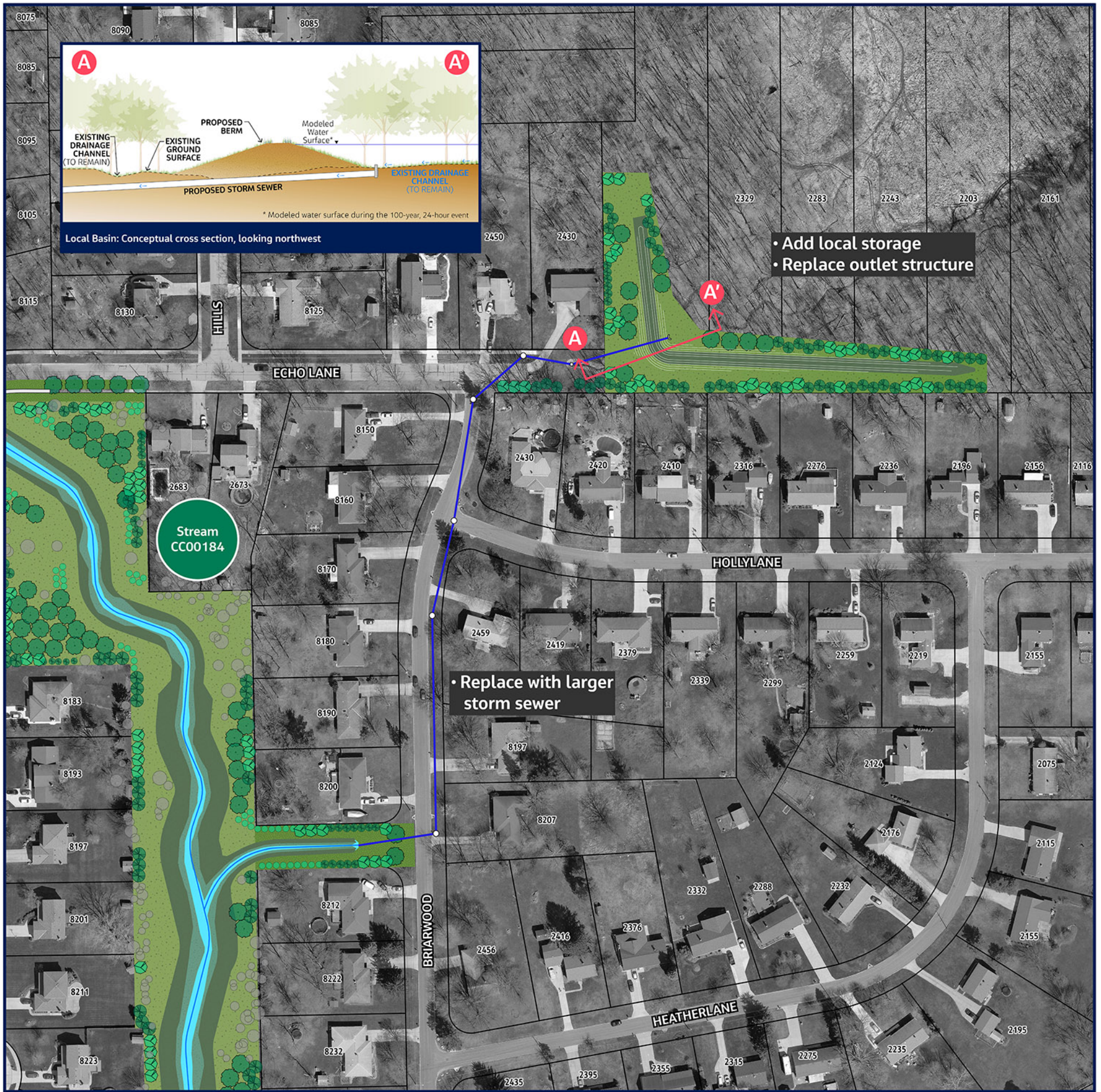
- Stream channel has been modified over time to accommodate development
- Linear drainage channel has insufficient floodplain storage

PROPOSED

- Realign the stream channel to restore a more natural, winding stream with dedicated floodplain storage
- "Daylight" segments of the existing culverted stream

CONCEPT PLAN

(Local Stormwater System Improvements Completed in Partnership with Broadview Heights)



Concept for Proposed Stormwater Infrastructure Improvements

*The concept will continue to be refined based on coordination with property owners and stakeholders.

- Existing Trees to Remain
- Proposed Storm Sewer
- Proposed Trees

Local Detention Basin and Storm Sewers



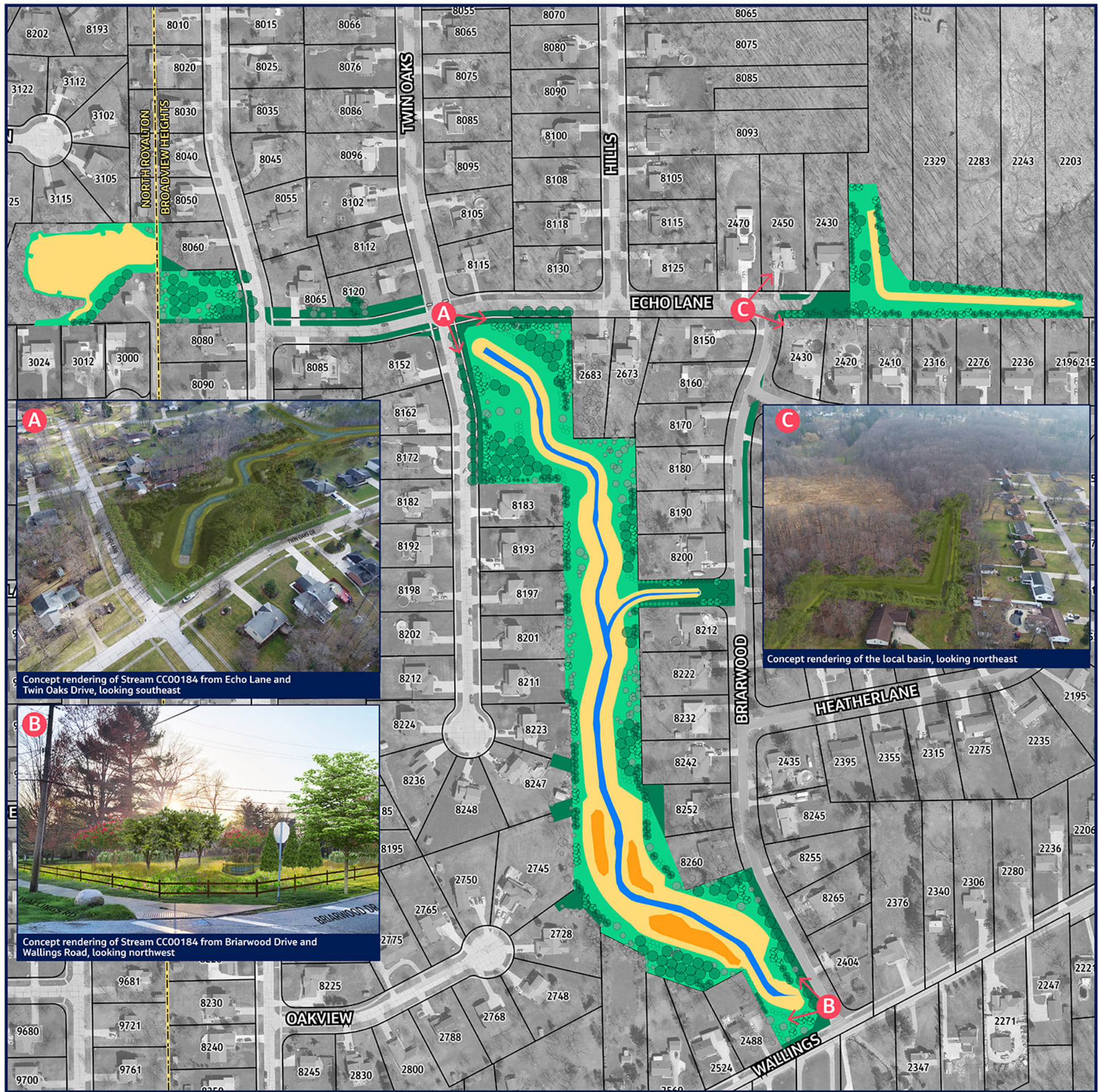
Aerial Photo of the Local Stream, Looking Northeast from Echo Lane



Inlet to the Local Stormwater System at the Eastern End of Echo Lane

| EXISTING | PROPOSED |
|---|---|
| <ul style="list-style-type: none"> ▪ Stream channel enters the existing stormwater system just east of Echo Lane ▪ Insufficient local storage and undersized storm sewers contribute to flooding on Echo Lane and Briarwood Drive | <ul style="list-style-type: none"> ▪ Construct a berm to provide local storage within the existing open space east of Echo Lane ▪ Install new storm sewers to convey stormwater runoff to Stream CC00184 ▪ Diameters of new storm sewers range in size from 18 inches to 48 inches |

LANDSCAPE RESTORATION: PLANTING CONCEPTS



Concept for Proposed Landscape Restoration Zones

*The concept will continue to be refined based on coordination with property owners and stakeholders.

- Existing Trees to Remain
- Proposed Stream
- Proposed Trees



| MEADOW ZONE | | | RIPARIAN ZONE | | WETLAND ZONE | TURF | |
|-------------|--|--|---------------|--------------------------|--------------|------|--|
| | | | | | | | |
| SHADE TREES | | | | EVERGREENS & ORNAMENTALS | | | |
| | | | | | | | |
| | | | | | | | |