CONCEPT PLAN
(Basin CC00231 and Culvert Stream CC00230)

- Increase storage
- Remove invasive vegetation
- Replace outlet structure

Replace with larger storm sewer

Concept for Proposed Stormwater Infrastructure Improvements
*The concept will continue to be refined based on coordination with property owners and stakeholders.

**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 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

EXISTING
- 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

PROPOSED
- 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 Streams

**MEADOW ZONE**

**RIPARIAN ZONE**

**WETLAND ZONE**

**TURF**

**SHADE TREES**

**EVERGREENS & ORNAMENTALS**