

BUILDING A WORLD OF DIFFERENCE

CANYON CREEK STORMWATER BASIN RETROFITS

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AGENDA

Project Background

Water Quality Improvement

Typical Improvement Features

Proposed Basin Improvements

Questions

PROJECT BACKGROUND

PROJECT BACKGROUND

2012 Stormwater Masterplan

- Basin Identified for Water Quality Retrofits
- Black & Veatch team selected for improvement design

Meeting with trustees on May 20th

Hydrologic and Hydraulic Investigations



WATER QUALITY THROUGH DETENTION AND STREAM STABILITY

WATER QUALITY

Detention Basins

- Removal of Sediment
- Nutrient Uptake
- Detention of Small Events
- Filtering Overland Flow
- Infiltration of Ponded Water

Stream Stability

- Reduction in Sediment
- Improved Habitat



TYPICAL IMPROVEMENT FEATURES

NATIVE PLANTINGS

- **Native Plantings**
 - Provides Water Quality Improvement
 - Habitat



MODIFIED OUTLET

- Outlet will provide Water Quality Improvement
 - Debris Screen
 - Plate with holes drains small events
 - Overflow outlet for larger storms



PROPOSED BASIN IMPROVEMENTS

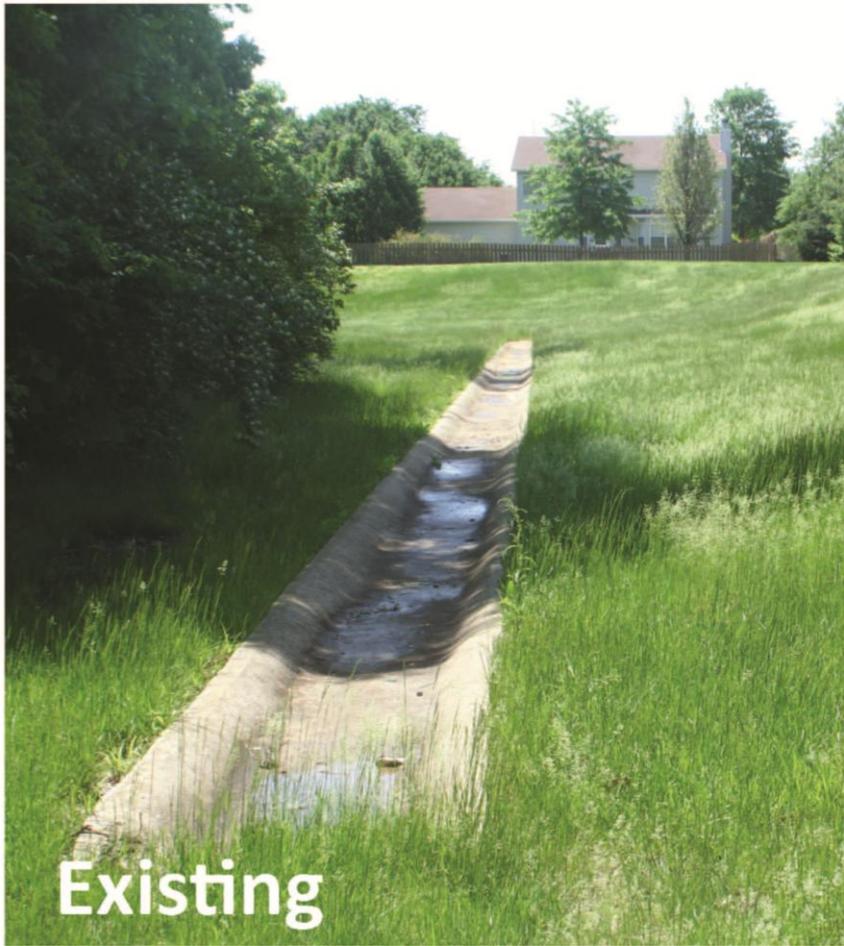
BASIN IMPROVEMENTS

PROPOSED NORTH BASIN IMPROVEMENTS



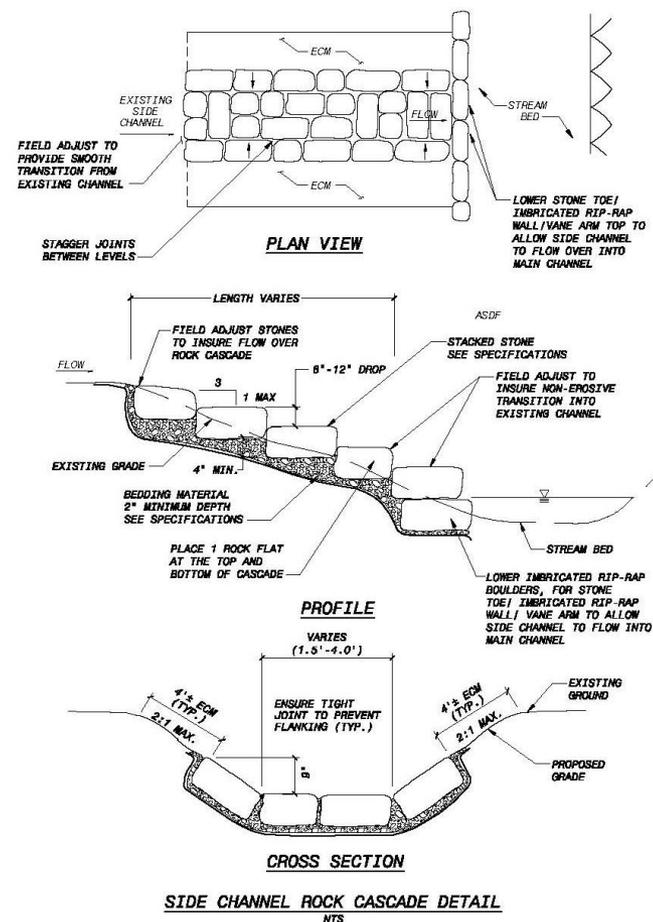
BASIN IMPROVEMENTS

PROPOSED NORTH BASIN IMPROVEMENTS

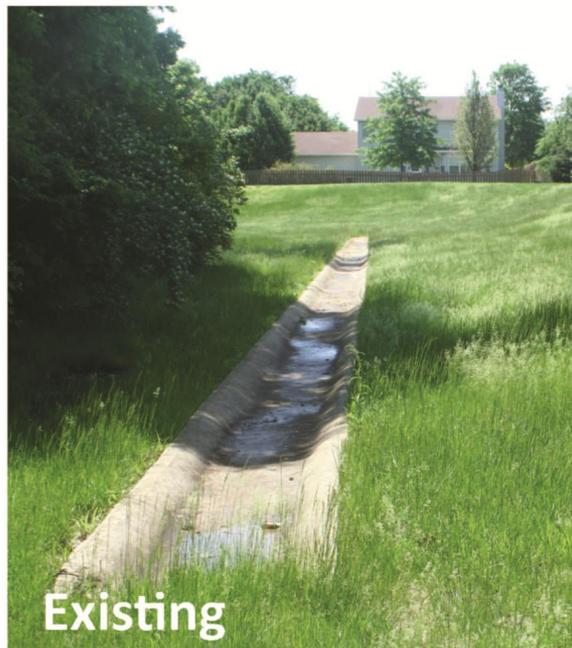


BASIN IMPROVEMENTS

- **Modified Outlet**
 - Allows for Water Quality Storage
- **Vegetation Management**
- **Break Up Concrete Flume**
 - Replace with rubble-ized concrete or riprap
- **Sediment Forebay**
 - Allows for easy removal of sediment
- **Stream Stabilization**
 - Protects surrounding vegetation and prevents erosion



QUESTIONS



QUESTIONS



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Together



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NATIVE PLANTINGS

Native Plantings

- Provides Water Quality Improvement
- Habitat

