

# Going **Green** at the Collins Hill Library is a **Win** for the Community

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Presented by

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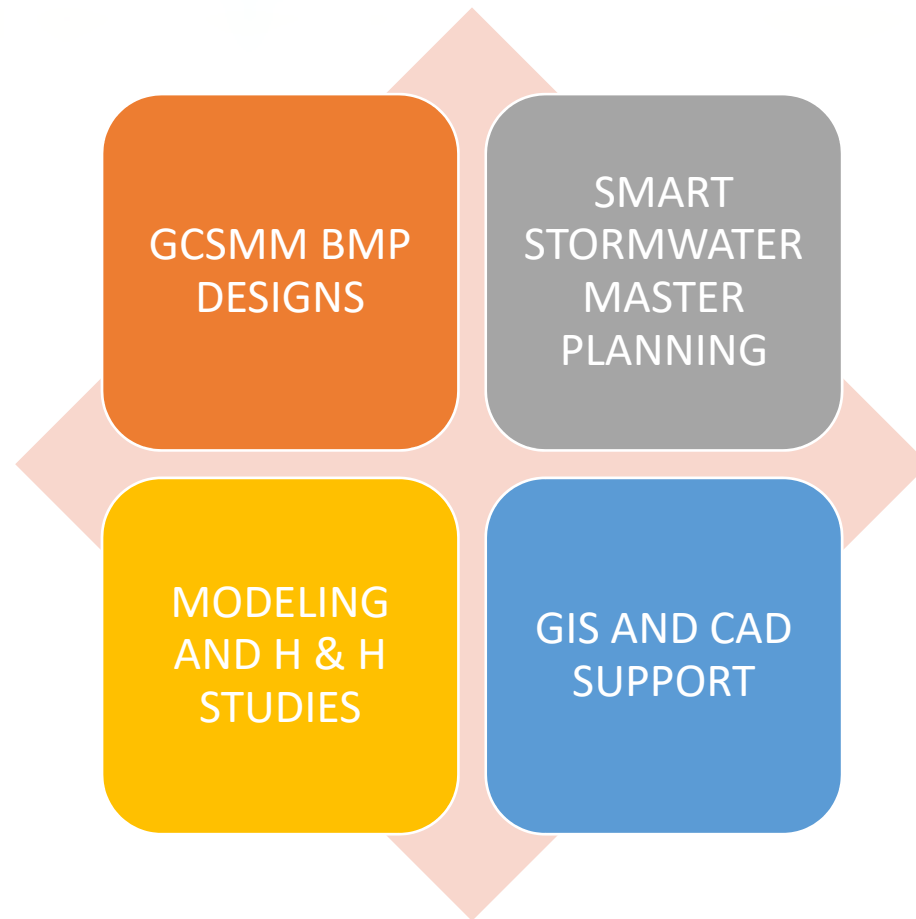
# Gwinnett County DWR

Department  
of Water  
Resources

- Organization
- Funding
- Objectives



# WIP Focus Areas



# Project Guidance Documents

GWINNETT COUNTY  
STORMWATER MANAGEMENT  
MANUAL (GCSMM)

GCDWR WIP MONITORING  
GUIDANCE

GCDWR BMP CONSTRUCTION  
FIELD GUIDE

FEE SCHEDULE SPREADSHEET

FINAL CONFORMED WIP  
ANNUAL CONTRACT VOL 1  
(SPECS) AND VOL 2 (DETAILS)



# Selection of Collins Hill Library

A 2017 assessment of existing facilities, detention ponds, and BMP retrofit opportunities identified the Collins Hill Library site as a priority project for:

- Improving water quality
- Monitoring BMP pollution removal performance
- Providing educational demonstration projects



# Project Design

## Project Purpose

- Provide additional low maintenance BMP's
- Improve water quality of stormwater runoff
- Create educational opportunities for library patrons and staff



# Final Concept Development

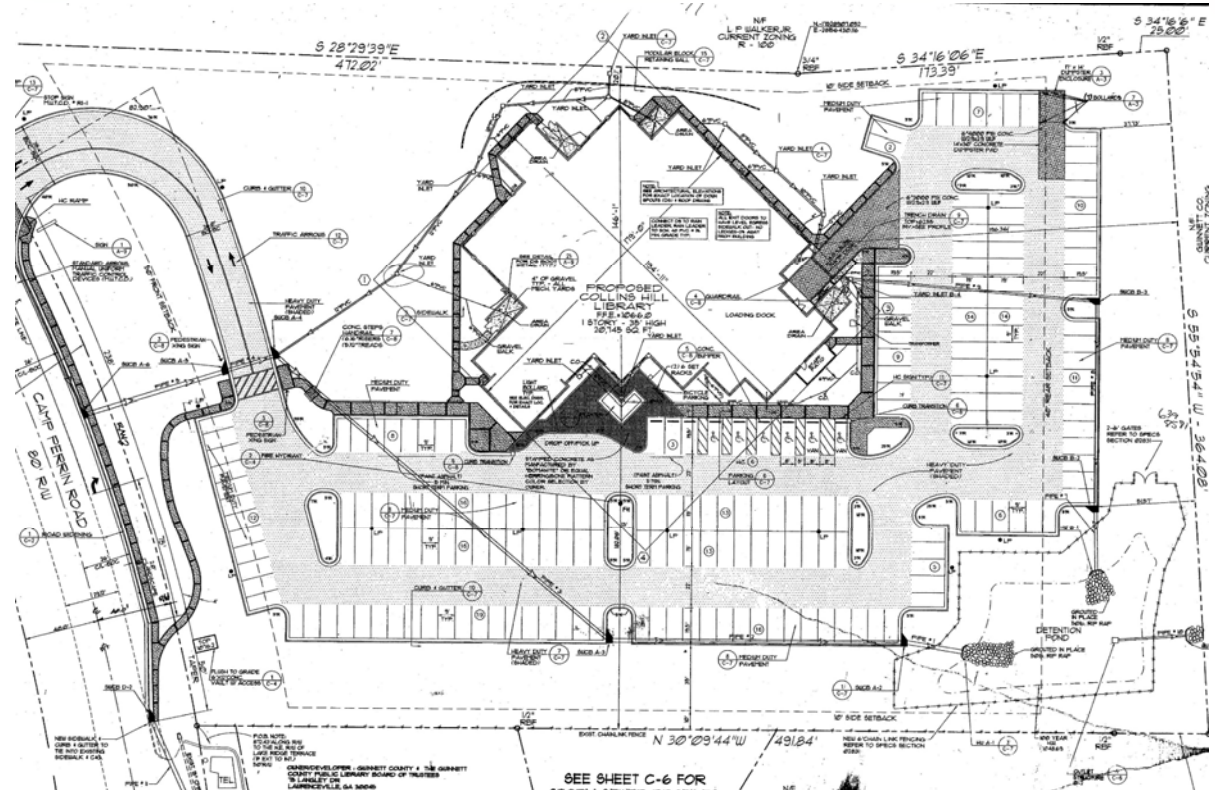
## Process included:

- Review of existing information
- Site visit
- Preliminary H and H modeling and analysis
- Stakeholder meetings
- Final concept



# Existing Information

- Pond Asbuilts
- Construction Plans
- Concept Study





# Site Visit

- Proposed BMP locations
- Existing drainage patterns
- Site constraints



# Stakeholder Meeting

## Discussion Topics

- BMP function
- Educational benefits
- Site concerns
- Maintenance
- Construction



# Final BMP Site Selection



- Enhanced Swale
- Permeable Pavement
- Bio Retention
- RSC



# Design Phase

- Survey
- Geotechnical investigation
- 60% staking of BMP's
- Stakeholder meetings
- Site visits



# Construction

## Bioretention Installation...



# Construction

...and in between



# Construction

## Educational Component



# Lessons Learned

- BMP Design is not Always Standardized
- Challenges Designing to the Annual Contract
- Expect the Unexpected
- Need Contractor Familiar with BMP Construction (Challenging!)
- Involve Partners in Design/Construction Process
- ?





# Questions ?

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