Agenda

Stormwater Basins and Underground Systems
Madison, WI - Tuesday, May 12, 2020

You'll be able to:


Describe urban and suburban stormwater management system objectives and design considerations.

Choose between stormwater storage system types: detention basins, retention ponds and infiltration basins.

Consider underground storage systems.

Adopt sustainable best practices in stormwater detention/retention and conveyance, including rain gardens and water reuse.

Learning Objectives

Understanding urban and suburban stormwater management system objectives and design considerations

Examining regulations under the EPA Clean Water Act and WI Admin. Code NR151

Choosing storage system types: detention basins, retention ponds and infiltration basins

Choosing an underground storage system

Identifying stormwater storage system types: detention basins, retention ponds and infiltration basins

Learning how to choose an underground storage system

Exploring sustainable best practices in stormwater detention and retention

Continuing Education Credits

Architects & Landscape Architects
6.5 HSW Continuing Ed. Hours
6.5 AIA LU|HSW
LA/CES Pending

Professional Engineers
6.5 PDHs

Certified Planners - AICP
CM | 6.5

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Urban and Suburban Stormwater Management
J. Brunoehler
System Objectives and Design Considerations

Regulations addressing stormwater quality and management
- Clean Water Act
- Federal, state and local requirements
- Site assessment

Preparing stormwater pollution prevention plans
- Stormwater goals
- Design considerations

Regulation between City and State Requirements
J. Brunoehler
per the EPA Clean Water Act
Wisconsin Admin. Code NR 151 for stormwater quality and quantity standards
Updated Dane County Inlet protection requirements for construction
DNR post-construction standards and Standards Oversight Council process to draft and implement standards

Choosing Storage System Types
J. Brunoehler
Detention basins
- Stormwater routing, sediment handling, outlet
Retention ponds
- Stormwater routing, sediment handling, soils and vegetation
Infiltration basins
- Stormwater routing, sediment and chemical loadings, soils and vegetation

Choosing an Underground Storage System
J. Brunoehler
Retention systems
- Stormwater routing, sizing, design criteria
Detention/infiltration systems
- Stormwater routing, infiltration, sizing, design criteria

Sustainable Best Practices in Stormwater
A. Cizek
Detention/Retention and Conveyance/Detention
Naturalizing detention/retention basins
Small detention areas vs. large detention area
Rain gardens
Water reuse options
Recharging groundwater table
Retrofitting existing systems and basins

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How to Register
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