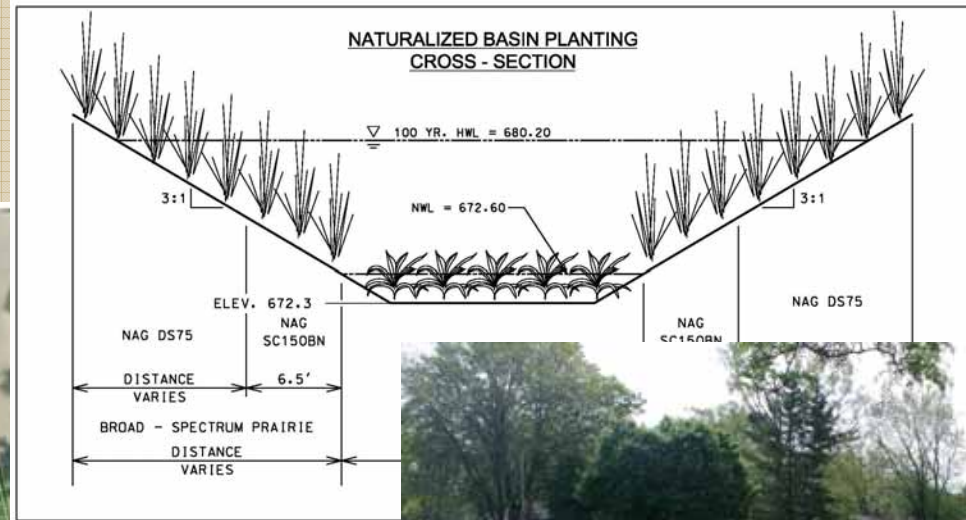




# BMP Projects on a Tight Budget



Presented by:

**Carrie Pintar, P.E., CFM, CPESC**



# Overview

- General Purpose of Permanent BMPs
- 3 BMP Project Examples
  - Overall Goal of the Project
  - Existing Site Constraints
  - BMP Design
- Questions



# General Purpose of Permanent BMPs

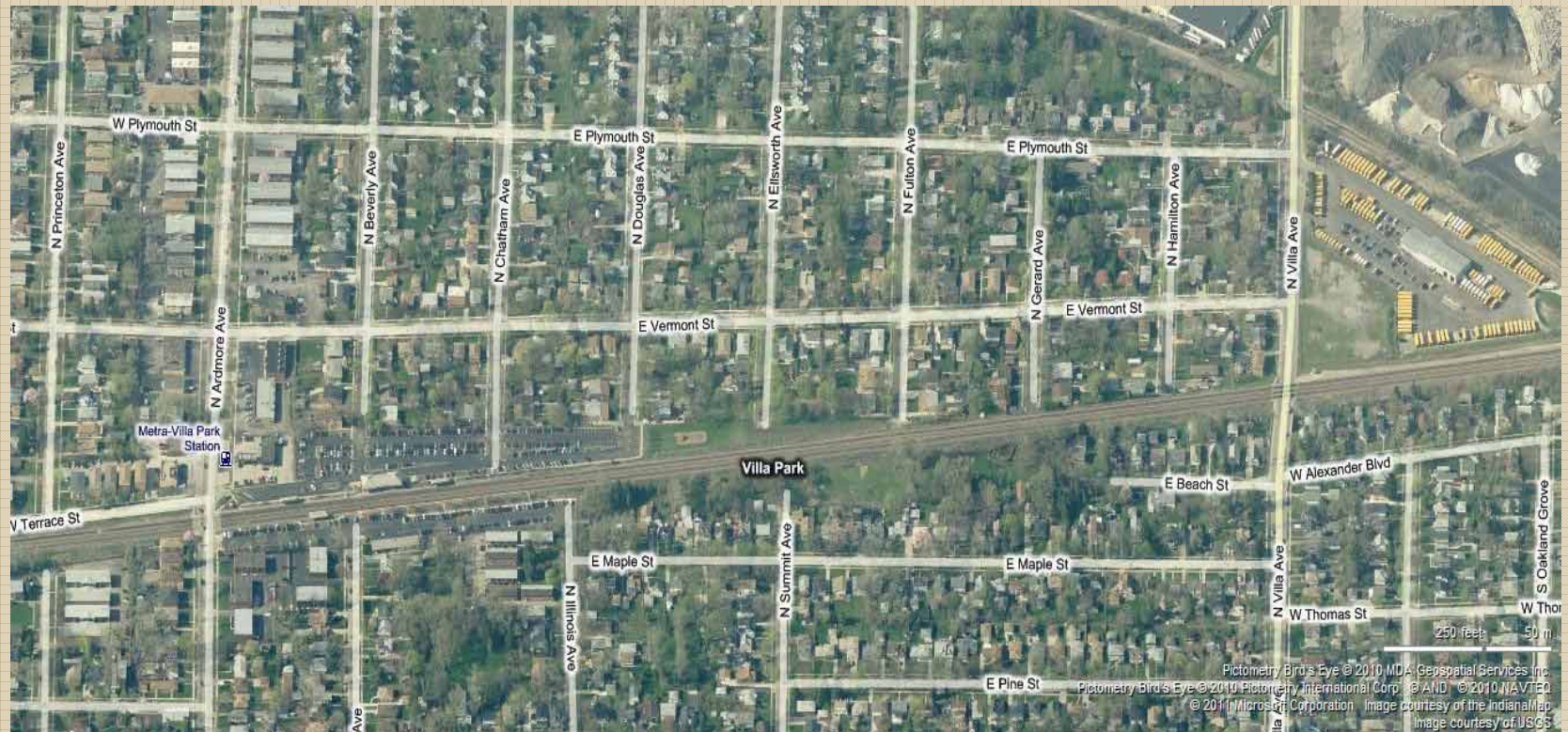
- For the past **TWO** decades the rate of land development across the country has been more than two times greater than the rate of population growth.
- The best way to mitigate stormwater impacts from new developments is to use practices to treat, store, and infiltrate runoff onsite before it can affect water bodies downstream.





# BMP Project Examples

- Villa Park Train Station Detention Basin
  - Locally Funded
  - Overall Goal: Provide Detention for already Developed Area







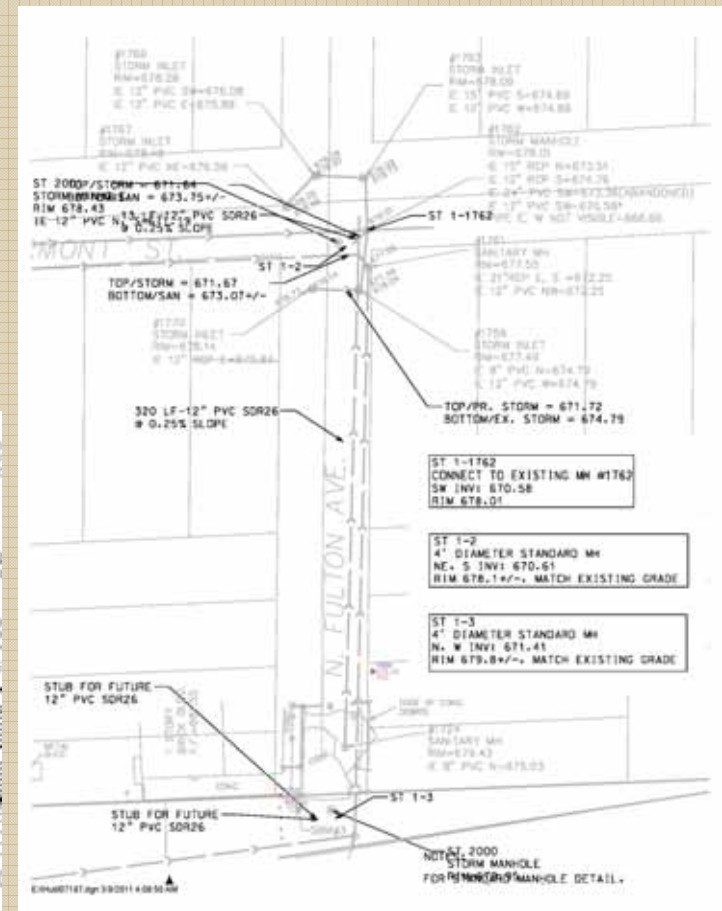
# BMP Project Examples

- Villa Park Train Station Detention Basin
  - Existing Site Constraints
    - NO SPACE
    - Adjacent Railroad/Setbacks
    - Adjacent Site Topography





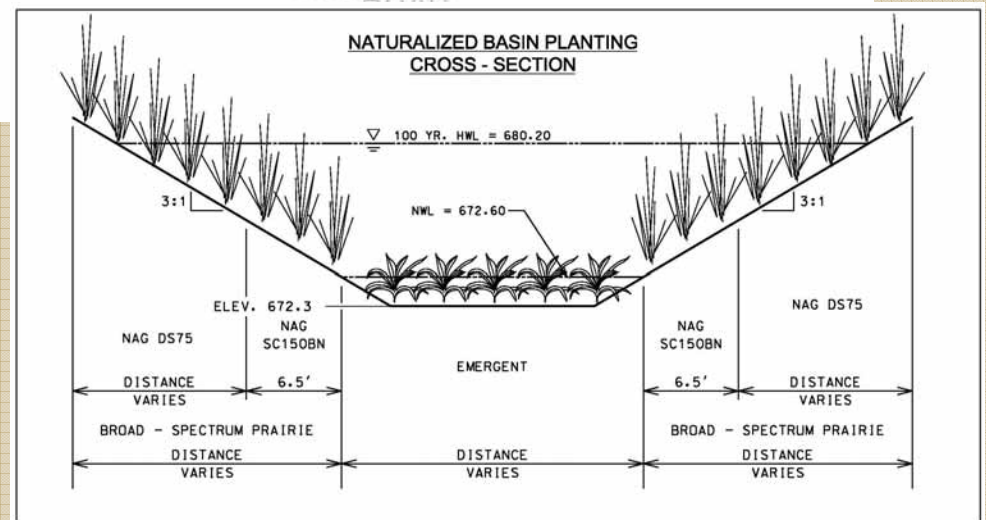
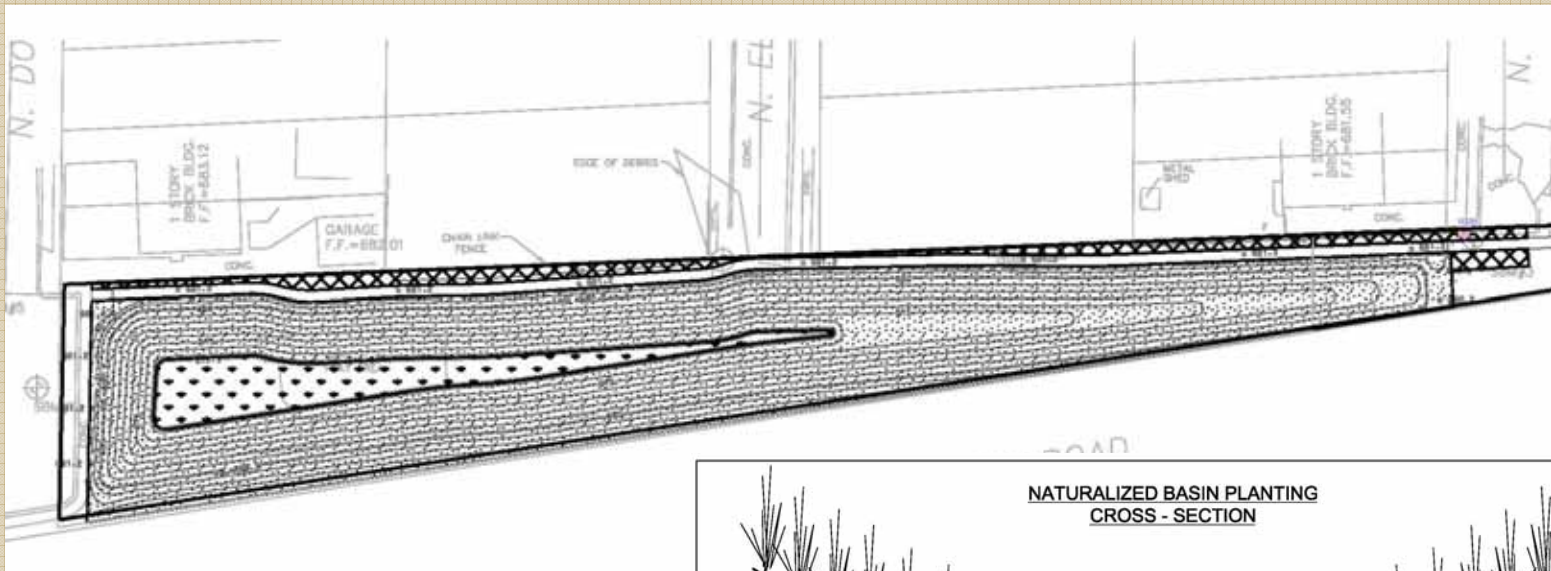
- 
- The drawing is a plan view of a sewer system. It includes several manholes (MH) and storm inlets, each labeled with its elevation and material. Pipe segments are shown with their size, material, and direction. A large area of debris is indicated near the center-right. The Union Pacific tracks and road are visible at the bottom right.





# BMP Project Examples

- Villa Park Train Station Detention Basin
  - BMP Design: Naturalized Detention Basin







# BMP Project Examples

- Downers Grove Bio-Swale & Rain Garden
  - Locally Funded
  - Overall Goal: Improve Stormwater Management, Water Quality and Provide Educational Tool







# BMP Project Examples

- Downers Grove Bio-Swale & Rain Garden
  - Existing Site Constraints
    - Existing Utilities
    - Site & Adjacent Property Topography



VERTUE

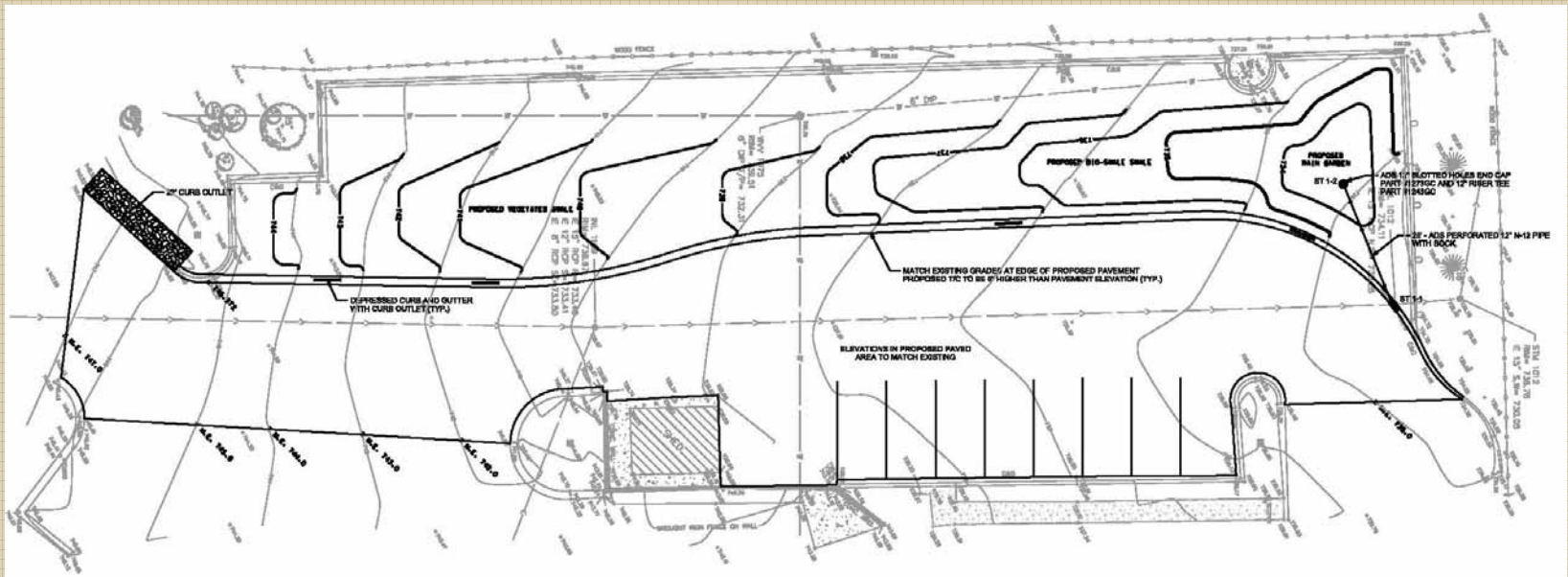
VERRE

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# BMP Project Examples

- Downers Grove Bio-Swale & Rain Garden
  - Existing Site Constraints
    - Existing Utilities
    - Site & Adjacent Property Topography

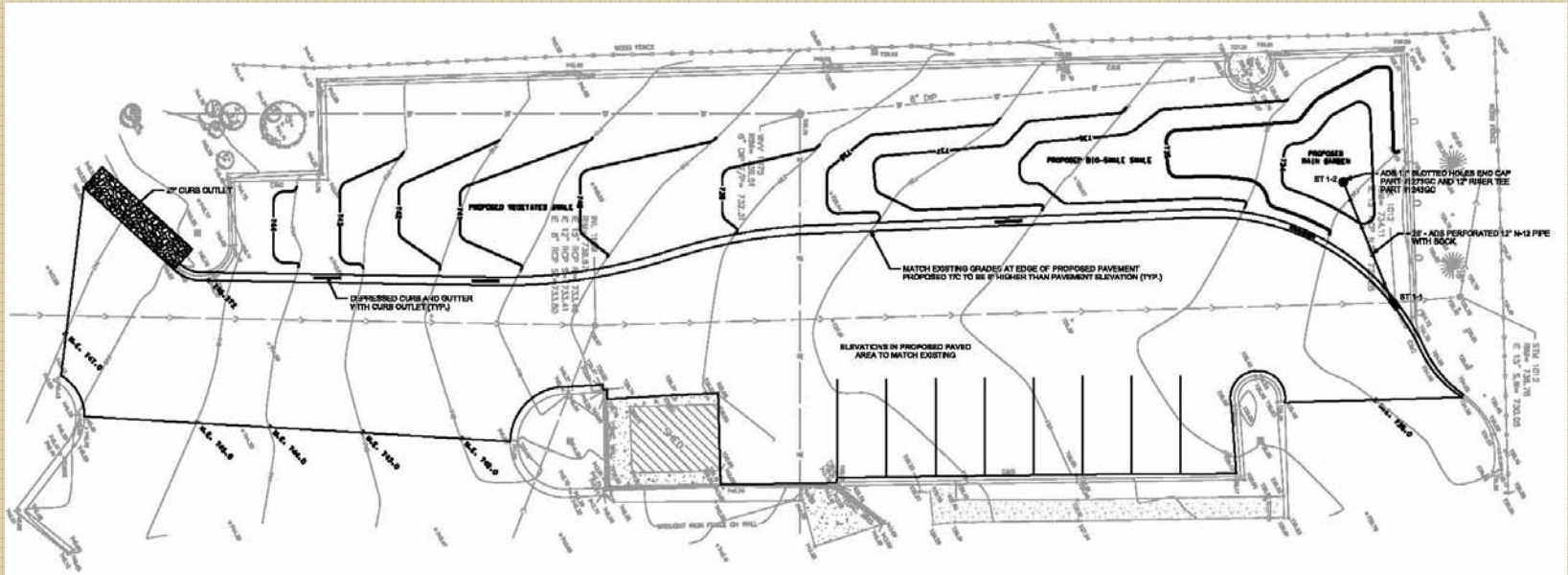






# BMP Project Examples

- Downers Grove Bio-Swale & Rain Garden
  - BMP Design
    - 2 “Bio-Swale” Pods
    - Rain Garden





# BMP Project Examples

- Glenview Detention Basins
  - Federally Funded
  - Overall Goal: Improve Stormwater Management, Water Quality and Provide Educational Tool







# BMP Project Examples

- Glenview Detention Basins
  - Existing Site Constraints
    - Original Design Intent
    - Turf Grass
    - Drainage Issues
    - Design/Build
  - Public Perception
    - Burning/Maintenance
    - Drainage
    - Native Plants





# BMP Project Examples

- Glenview Detention Basins
  - BMP Design: Naturalized Detention Basins







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# BMP Project Examples

- Glenview Detention Basins
  - BMP Design: Naturalized Detention Basins







# BMP Project Examples

- Glenview Detention Basins
  - BMP Design: Naturalized Detention Basins





# Questions?

**THANK YOU!!**

VISIO  
VERTERE  
VIRTUTE