



# **The Little Green Experiment Reducing Big Green Costs**

September 5, 2018

# Integrated Overflow Control Plan

## Proposed IOCP Projects

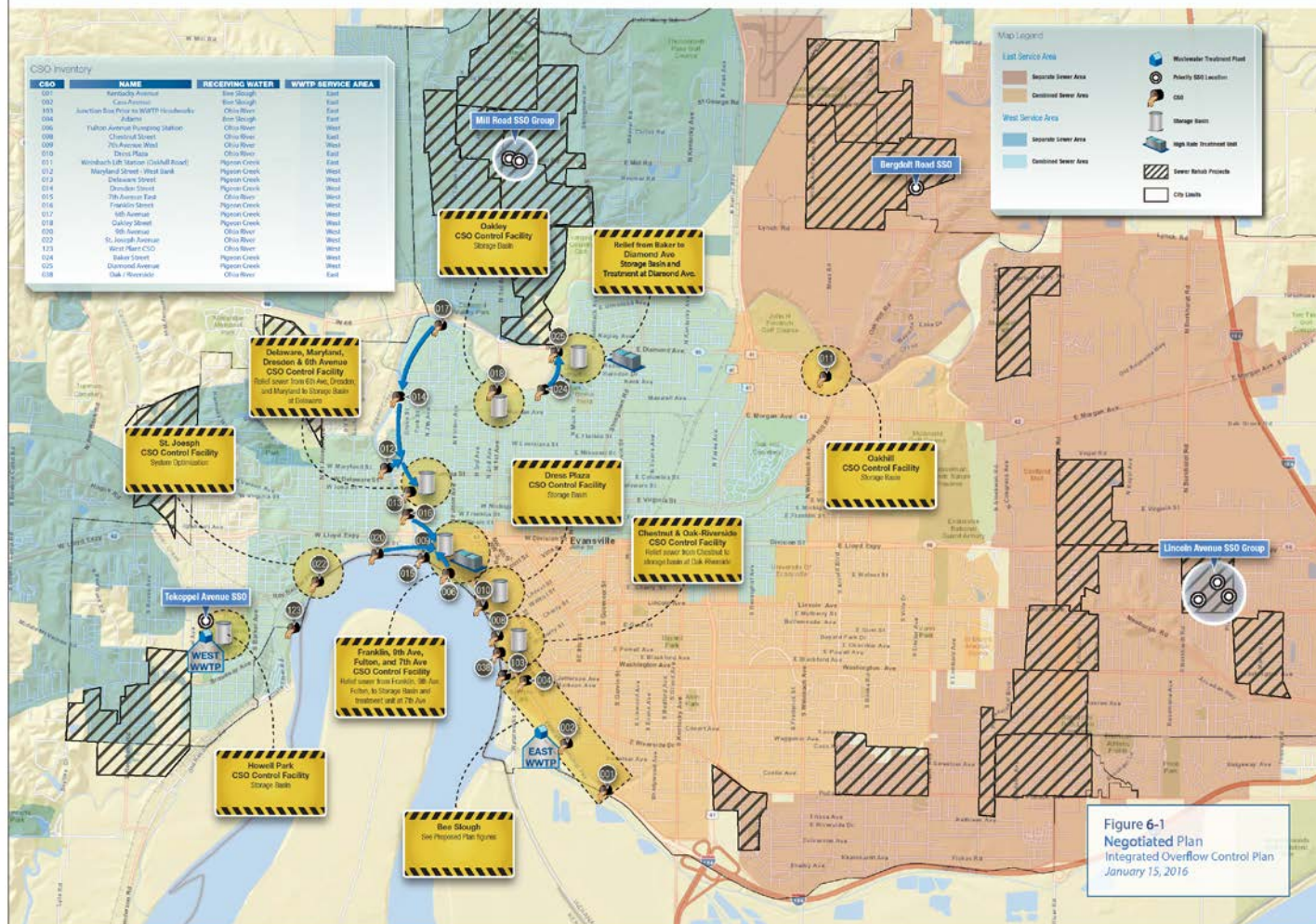


Figure 6-1  
Negotiated Plan  
Integrated Overflow Control Plan  
January 15, 2016

# Integrated Overflow Control Plan

**\$729M Plan, 24 ½ Years**

- 2 Plant Expansions**
- 6.1Mg Equalization Basin**
- Remote Treatment Facilities**
- Early Action Projects**
- Green Infrastructure**

# Integrated Overflow Control Plan

## So Where are we ??

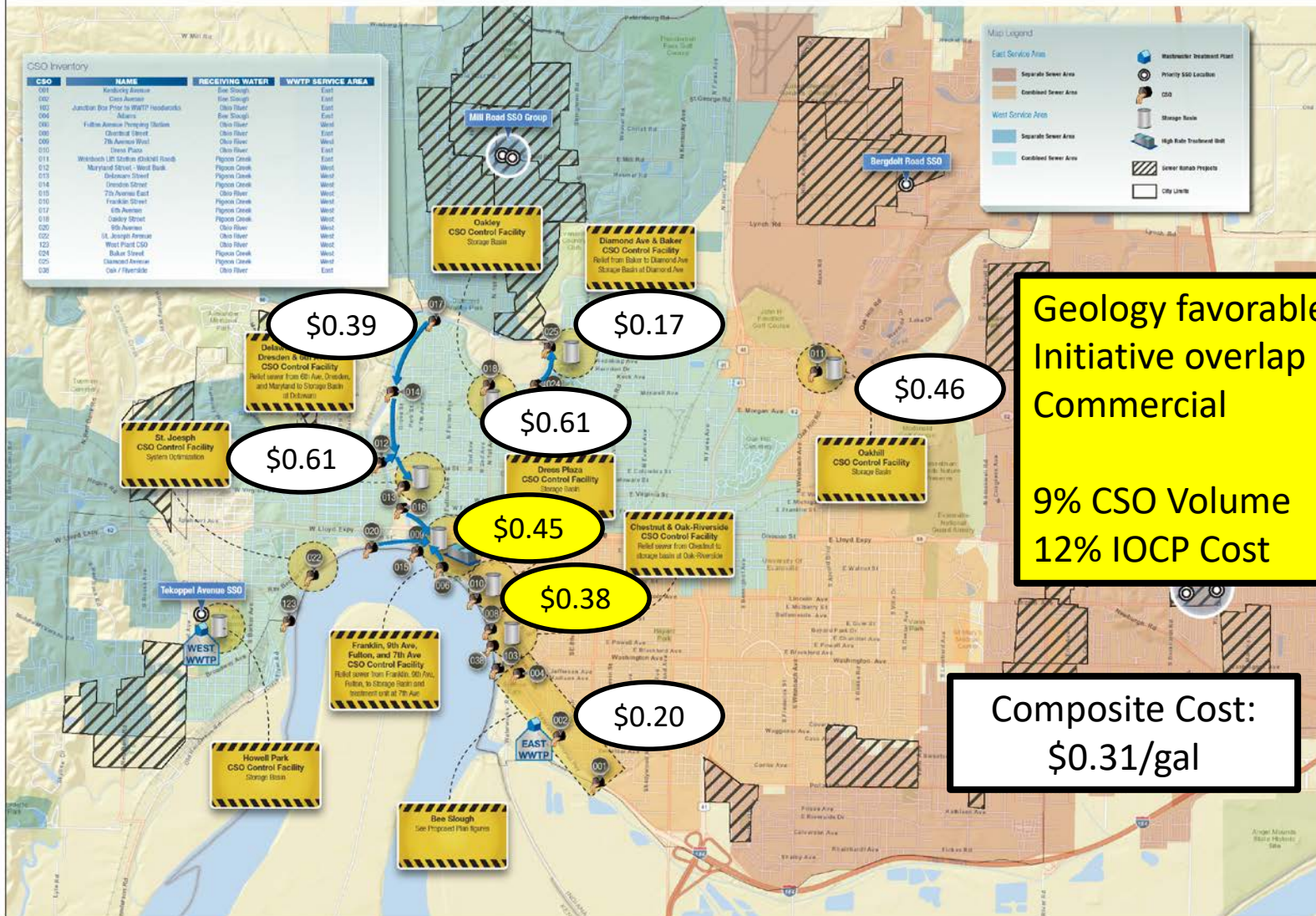
- Year 3
- Early Action Projects
- Supplementary Environmental Projects
- \$100M+ Bid Openings next 60 days
- \$12M Green Infrastructure



## The Little Green Experiment



# Proposed IOCP Projects

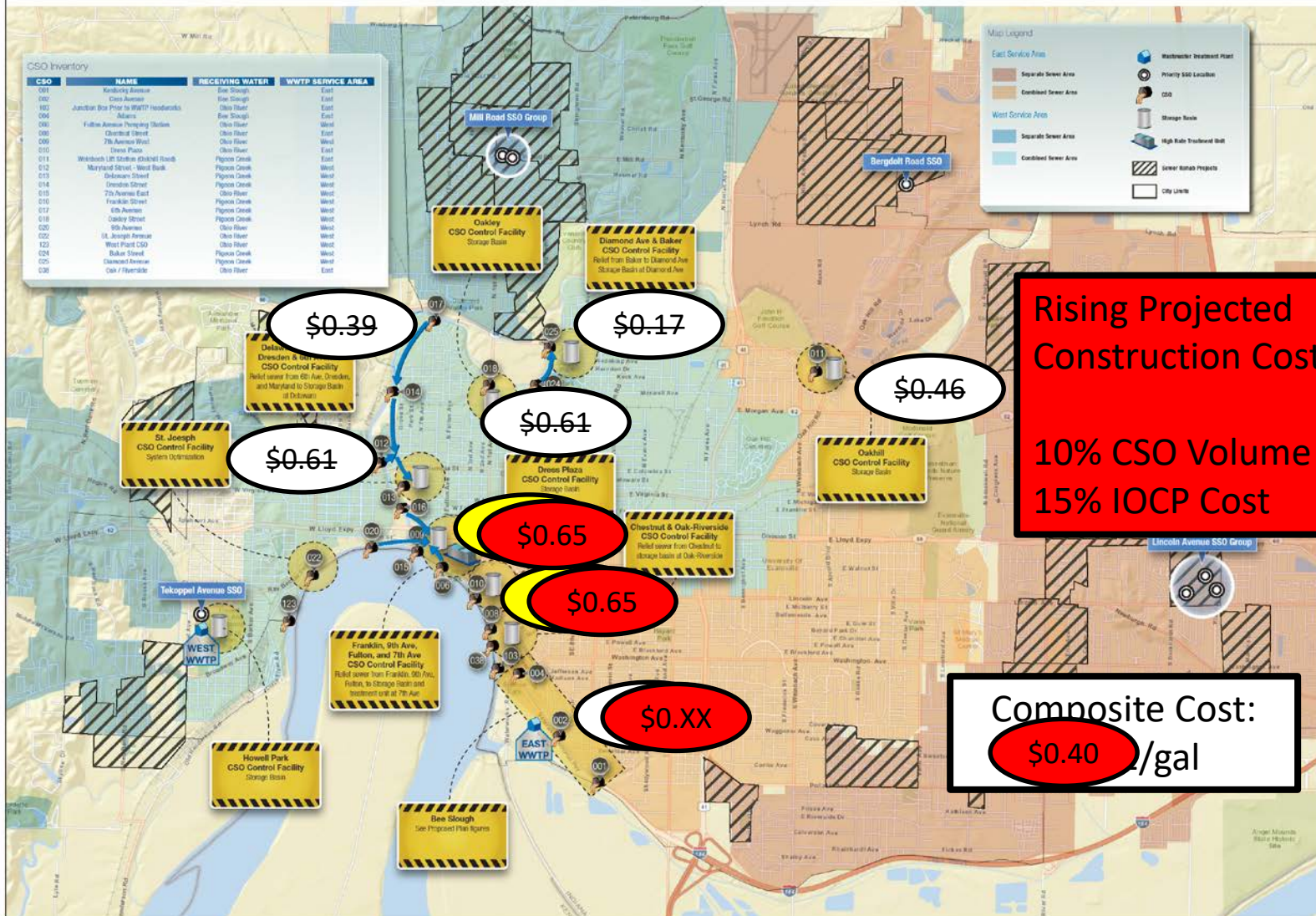


Geology favorable(RIPR)  
Initiative overlap  
Commercial  
9% CSO Volume  
12% IOCP Cost

Composite Cost:  
\$0.31/gal



# Proposed IOCP Projects



Rising Projected Construction Costs

10% CSO Volume  
15% IOCP Cost

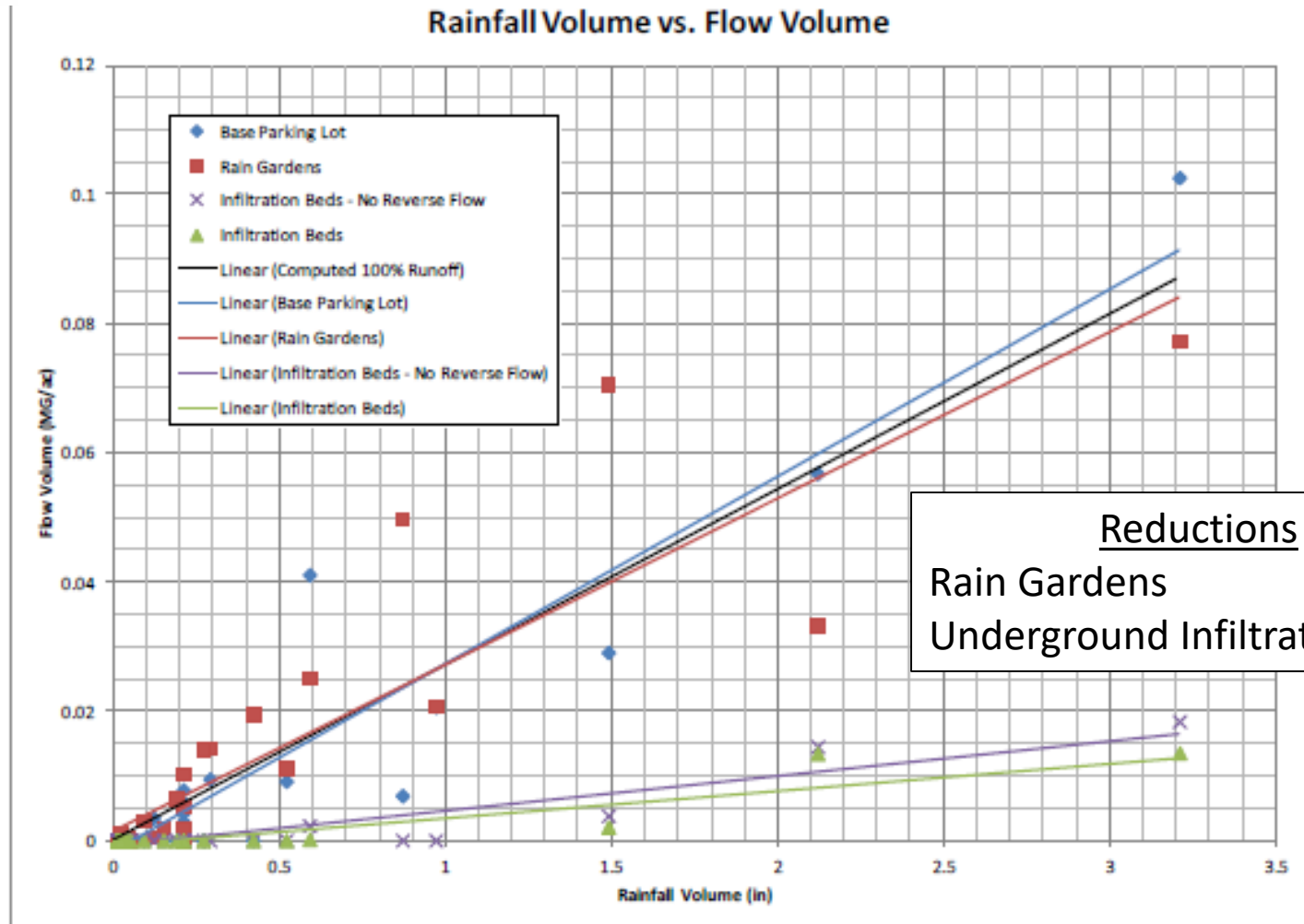
Composite Cost:  
\$0.40/gal

# Civic Center “Back 40”





# Back 40 Pilot Project



Reductions

Rain Gardens	7%
Underground Infiltration	82%

[illegible]



# GIPP Operable Projects





# Professional Plaza



# Arts District Parking Lot





# Martin Luther King Jr Blvd





# YMCA / EVBA Parking Lot



# Former Impact Center





# Cherry Street Sewer Relocation





# Main Street Streetscape Project



# Downtown Master Plan

## Transformative Ideas

### PUBLIC SPACE IMPROVEMENTS

AFTER IMAGE OF POST OFFICE PARK DEVELOPMENT



A new tech park/mixed-use development is oriented along a central public space that begins at the historic post office on 2<sup>nd</sup> Street and extends two blocks to 4<sup>th</sup> Street. A flexible open space program provides users with space to play, gather, and host events.

# Vine Street Renderings





# Vine Street Renderings



# Smaller Urban Storm Water Ideas





# Garfield Commons

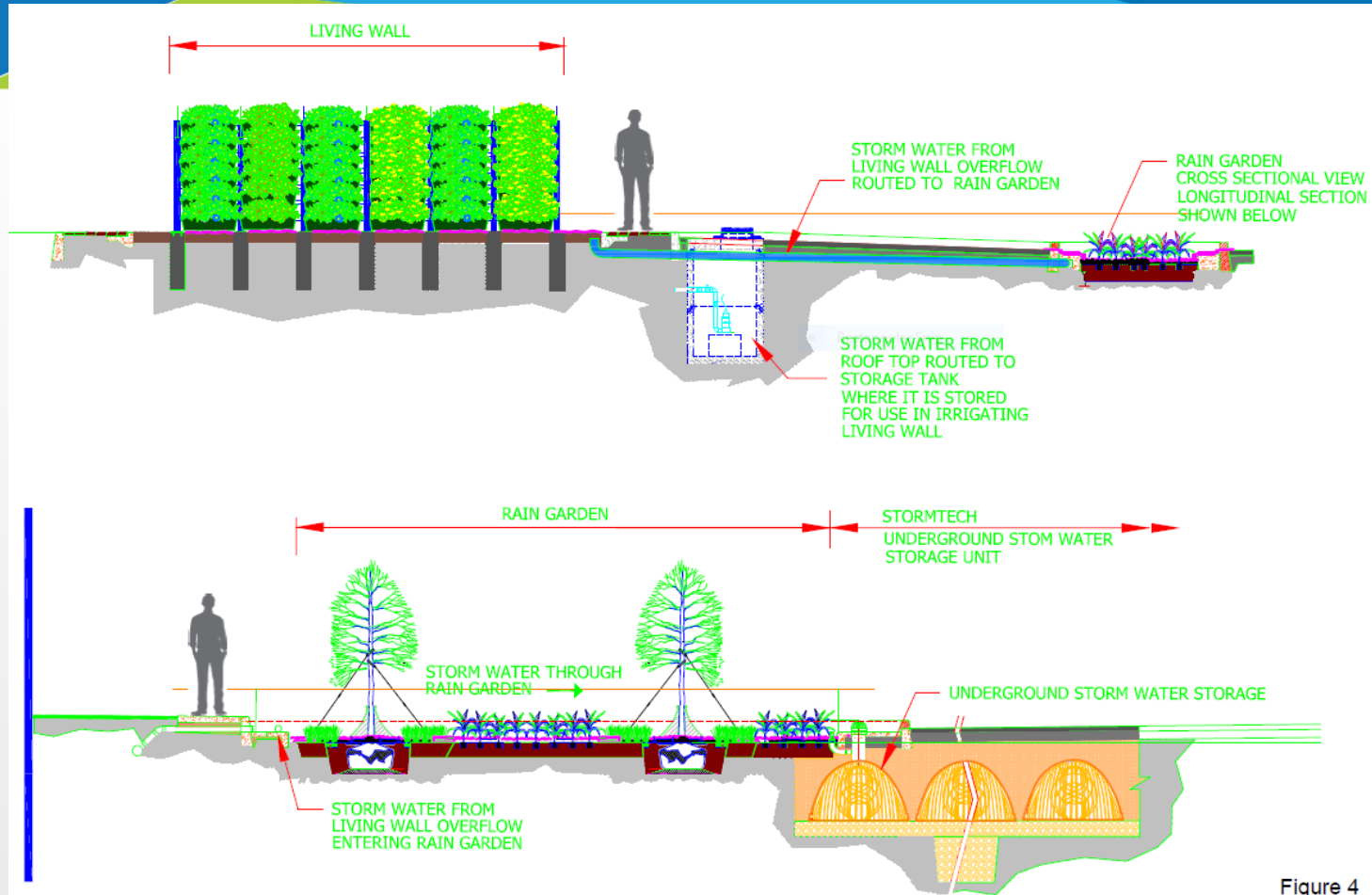
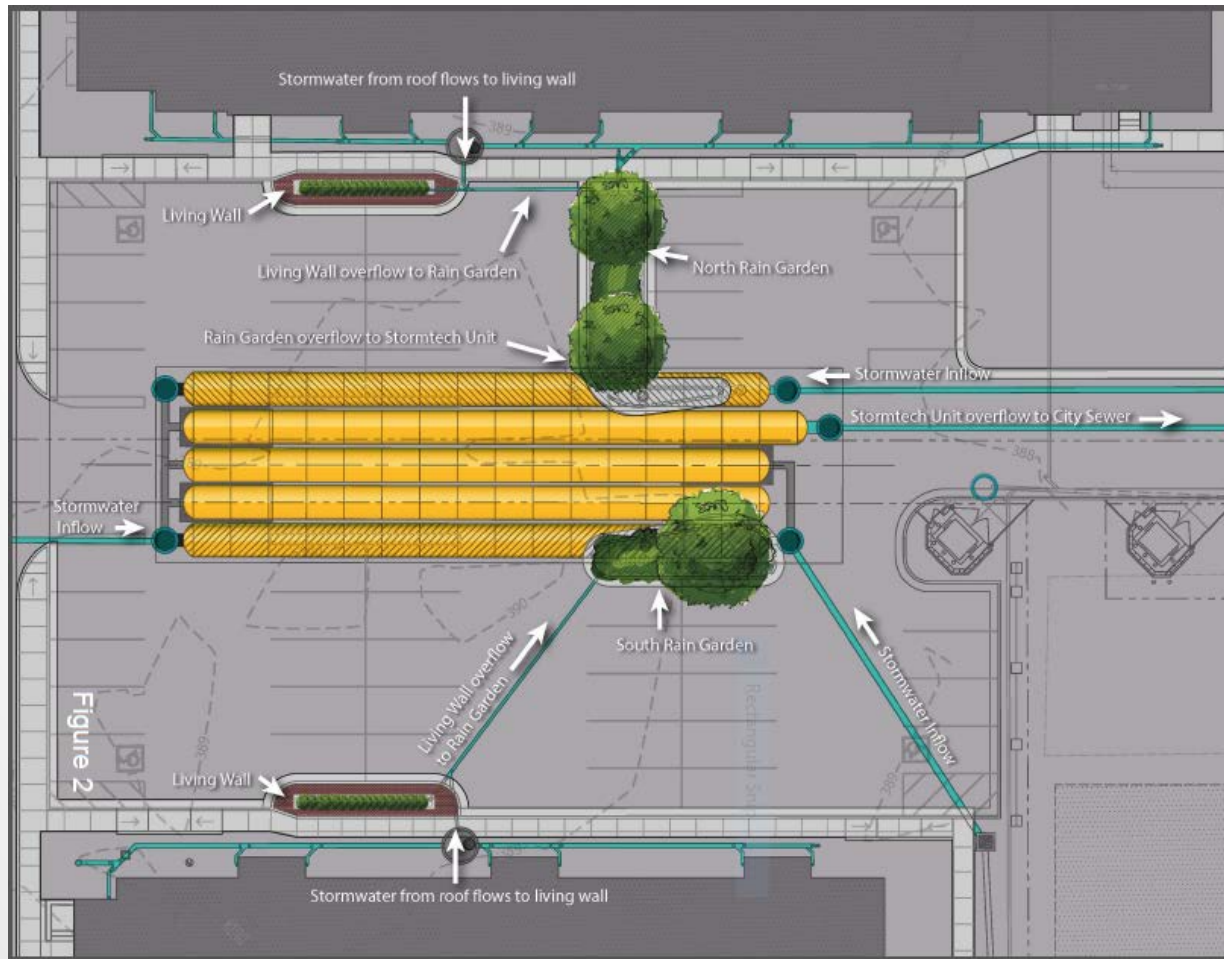


Figure 4

- Living Wall
- Storage Tank for Irrigation
- Rain Gardens
- Stormwater Storage for Infiltration

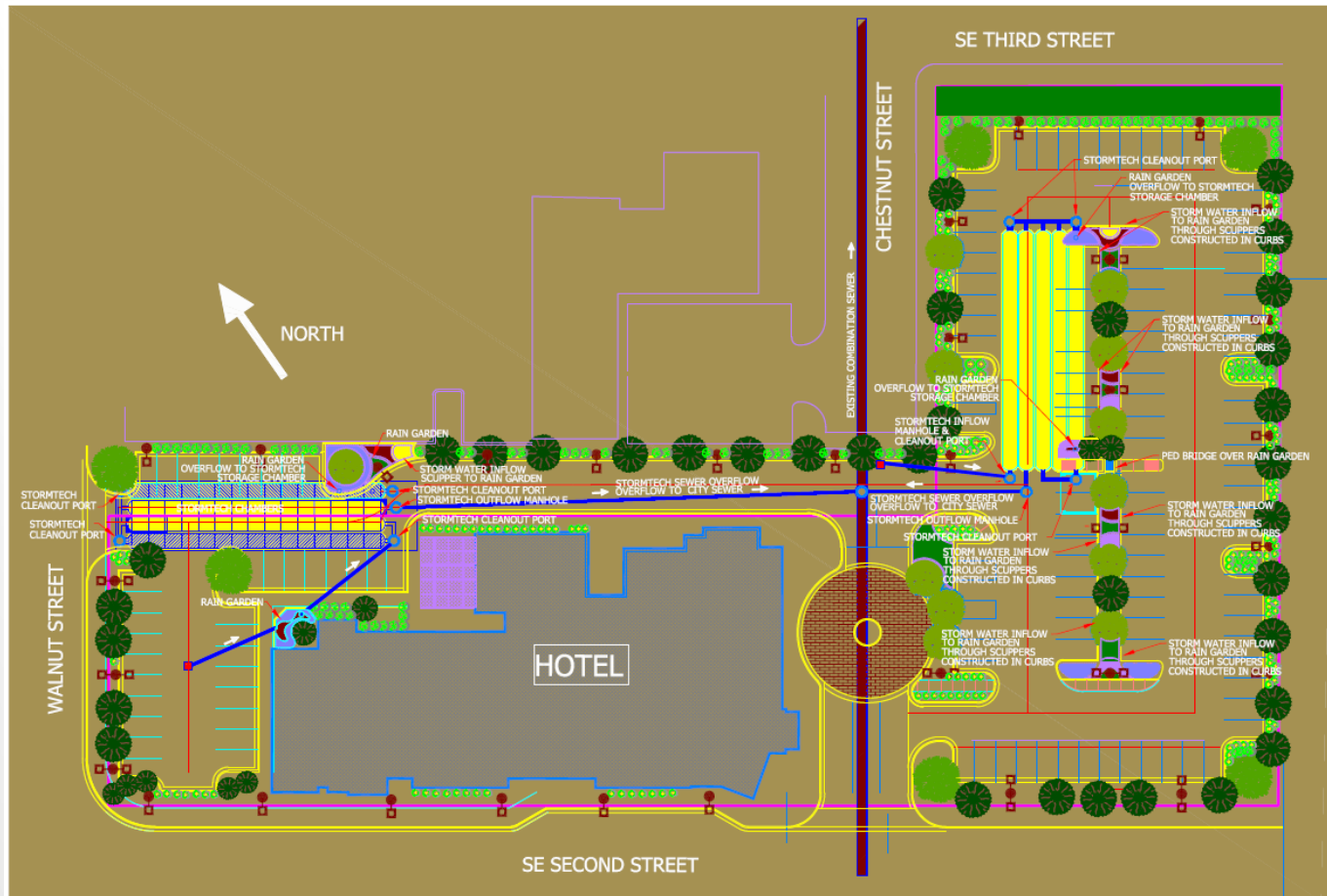


# Garfield Commons

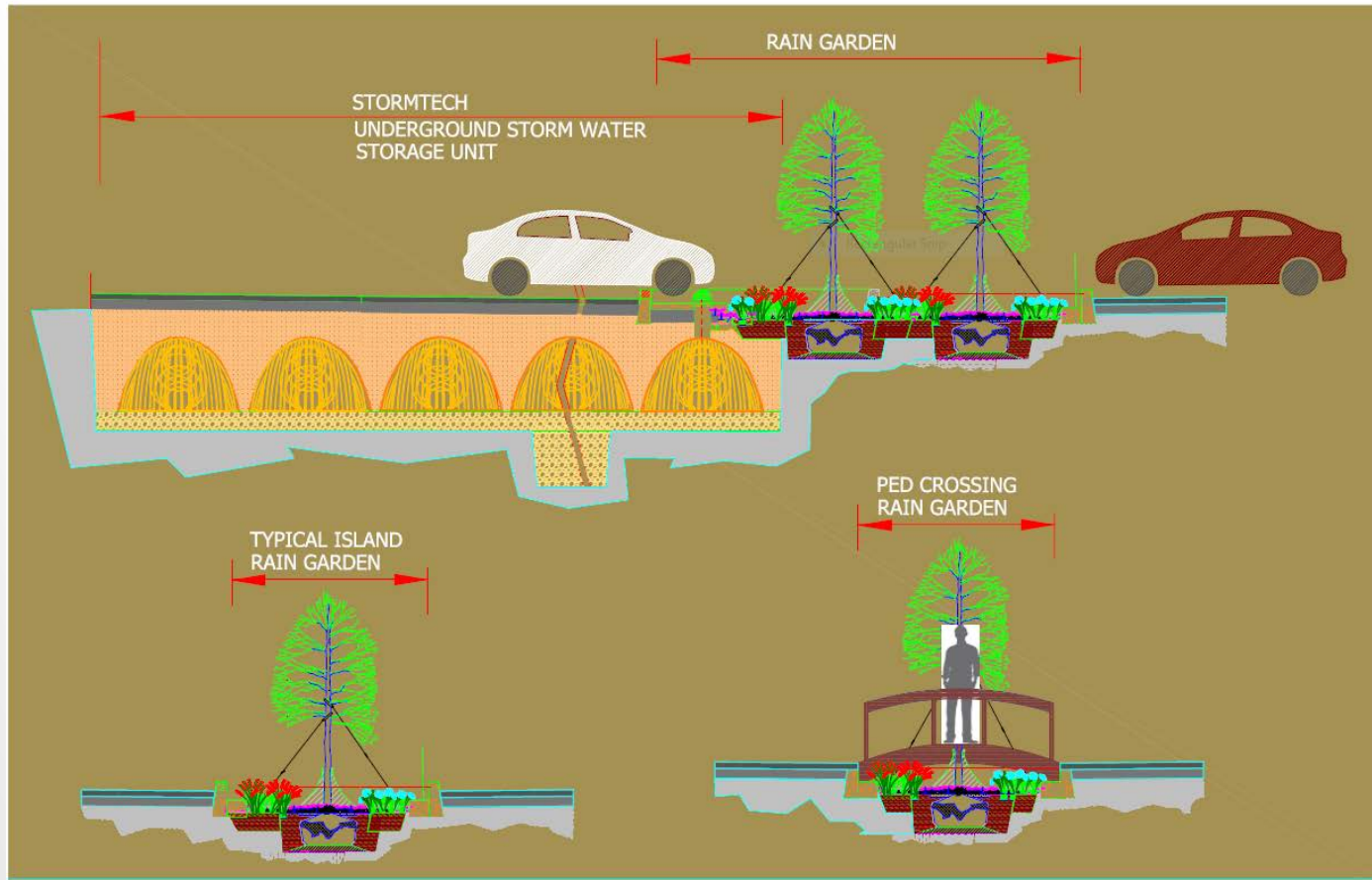


Stormwater Routing Layout

# Hyatt Place Hotel

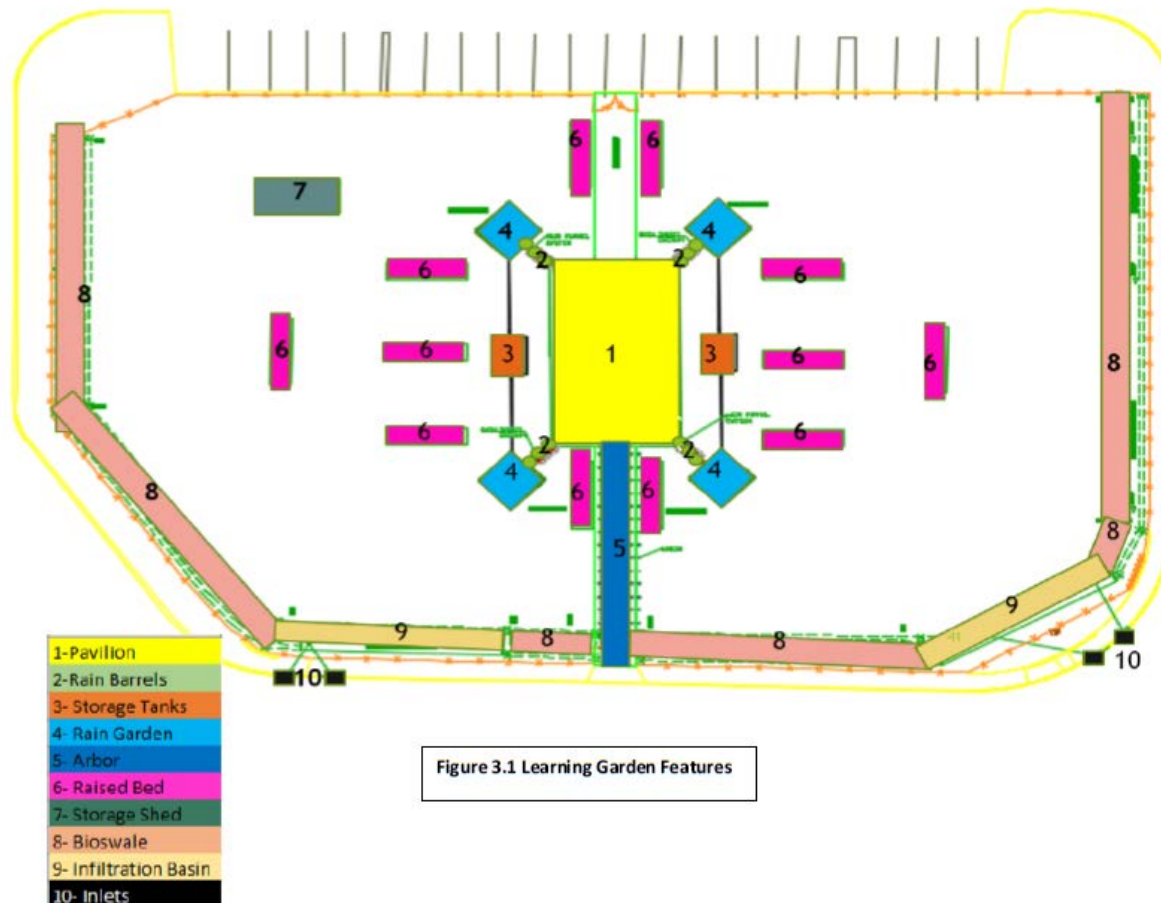


# Hyatt Place Hotel

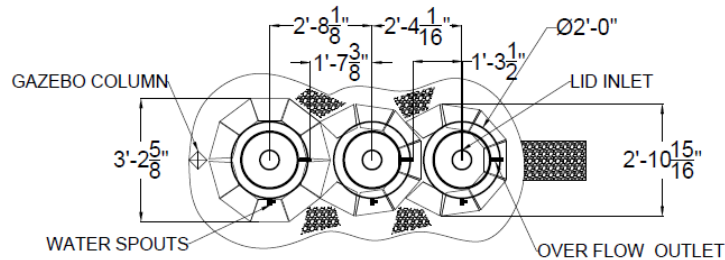




# Learning Garden

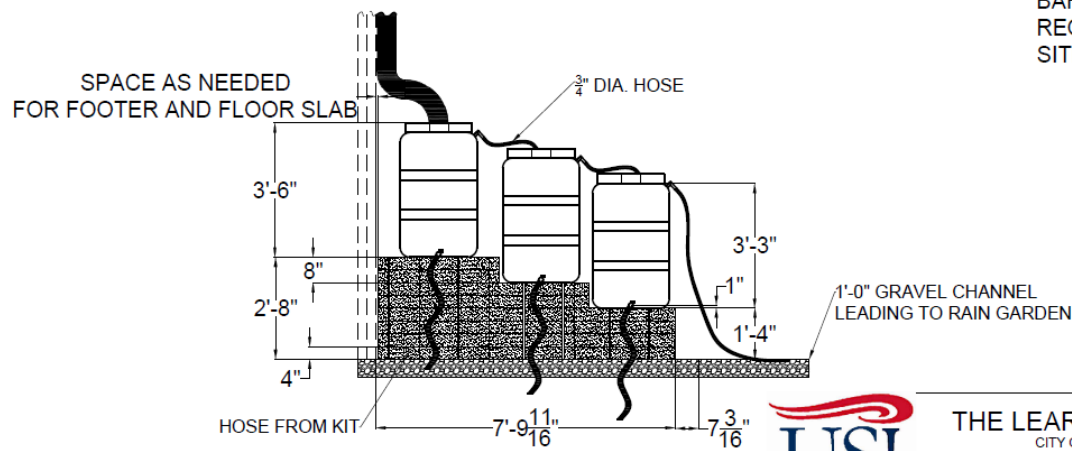


# Learning Garden



**PLAN VIEW**

QTY.	DESCRIPTION
3	60 GAL. "GREAT AMERICAN RAIN BARRELS" 20LB.
150	7"x12"x4" HARVEST BLEND CONCRETE WALL BLOCK
3	3/4" HOSES 3'-0"
3	2" HOSES 10'-0"
25	RIVER ROCK 50 LB BAGS
6	LIMESTONE 50 LB BAG



**SIDE VIEW**

NOTE A: ALL BARRELS  
HAVE A 60 GALLON  
CAPACITY

NOTE B: FOUR RAIN  
BARREL SYSTEMS ARE  
REQUIRED ON THIS  
SITE



THE LEARNING GARDEN  
CITY OF EVANSVILLE

RAIN BARREL SYSTEM PLANS

SIZE: DWG RAIN BARREL DESIGN

SCALE: NONE

NAME: TYLER SCHICKEL

SHEET: 1 of 1



# The IOCP and the Little Green Experiment

## So What's Next??

- \$12M Spent to Date
- 60+Mg Stormwater Redirected to Date
- Modeling Results show 2Mg tank replacement
- Extrapolate Results



# Reducing Big Green Costs

## And Why??

- 5.3M Gallon Discrepancy Between “The Deal” and the Recalibrated Models
- \$35M cost if all additional tankage
- The Alternatives?
  - Green Infrastructure at \$20M +/-



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