



# West Park Project Update

# Agenda

- Stormwater/Utility History in West Park
- Overview of Work Completed
- Remaining Items to Address
- Project Status
- Next Steps





## Stormwater History in West Park

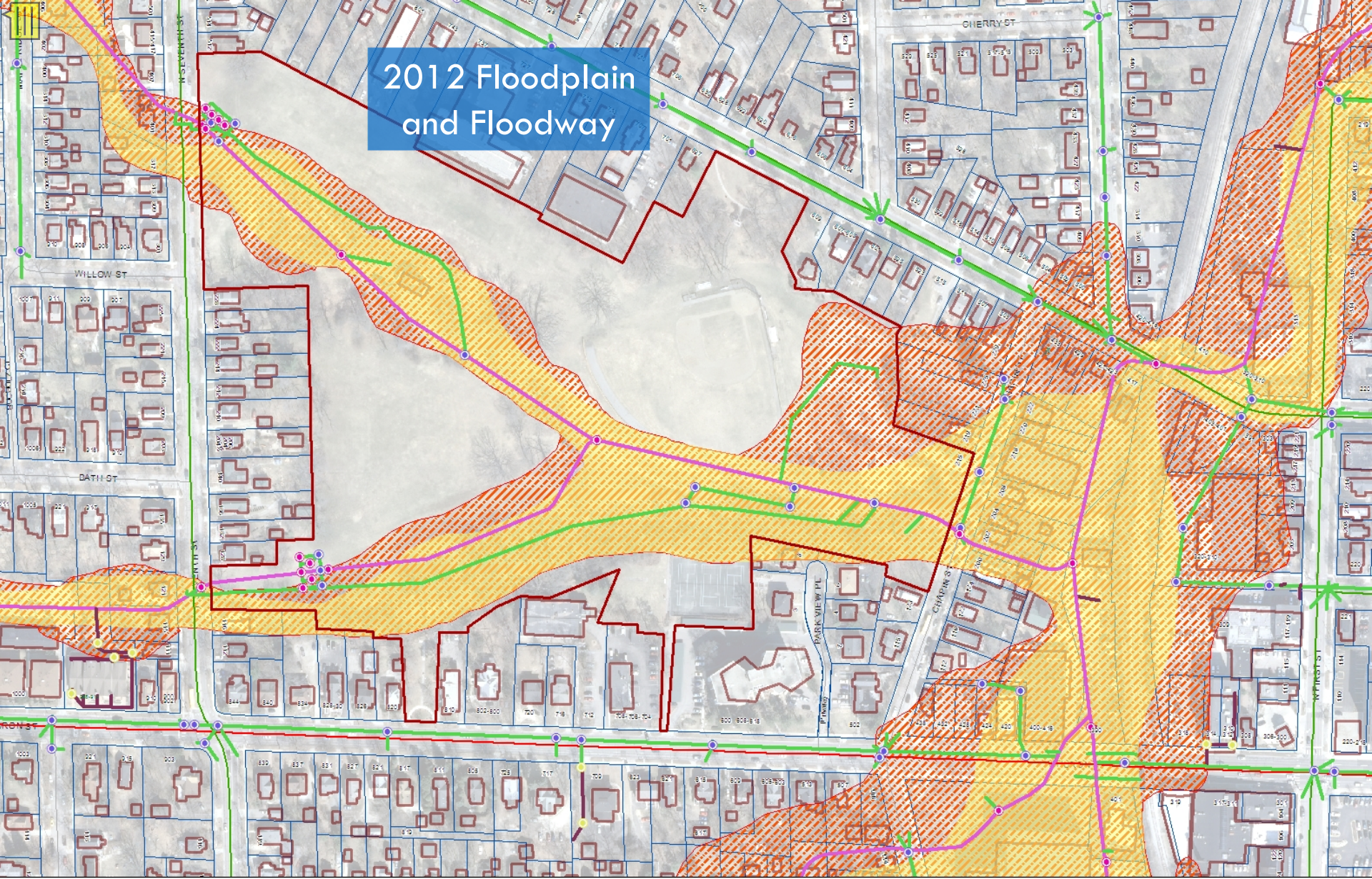


# Stormwater History in West Park

- Infrastructure Uses – Natural
  - ▣ Original Path of Allen Creek (Floodway & Floodplain)
- Infrastructure Uses – Constructed
  - ▣ County Drain – for collection & conveyance
  - ▣ Sanitary Sewer
- Problems with the Park:
  - ▣ Worsening Stormwater/Groundwater Conditions
  - ▣ Deteriorating Recreational Structures
  - ▣ Declining Public Use



# 2012 Floodplain and Floodway



# Stormwater History in West Park



# Overview of Work Completed





North

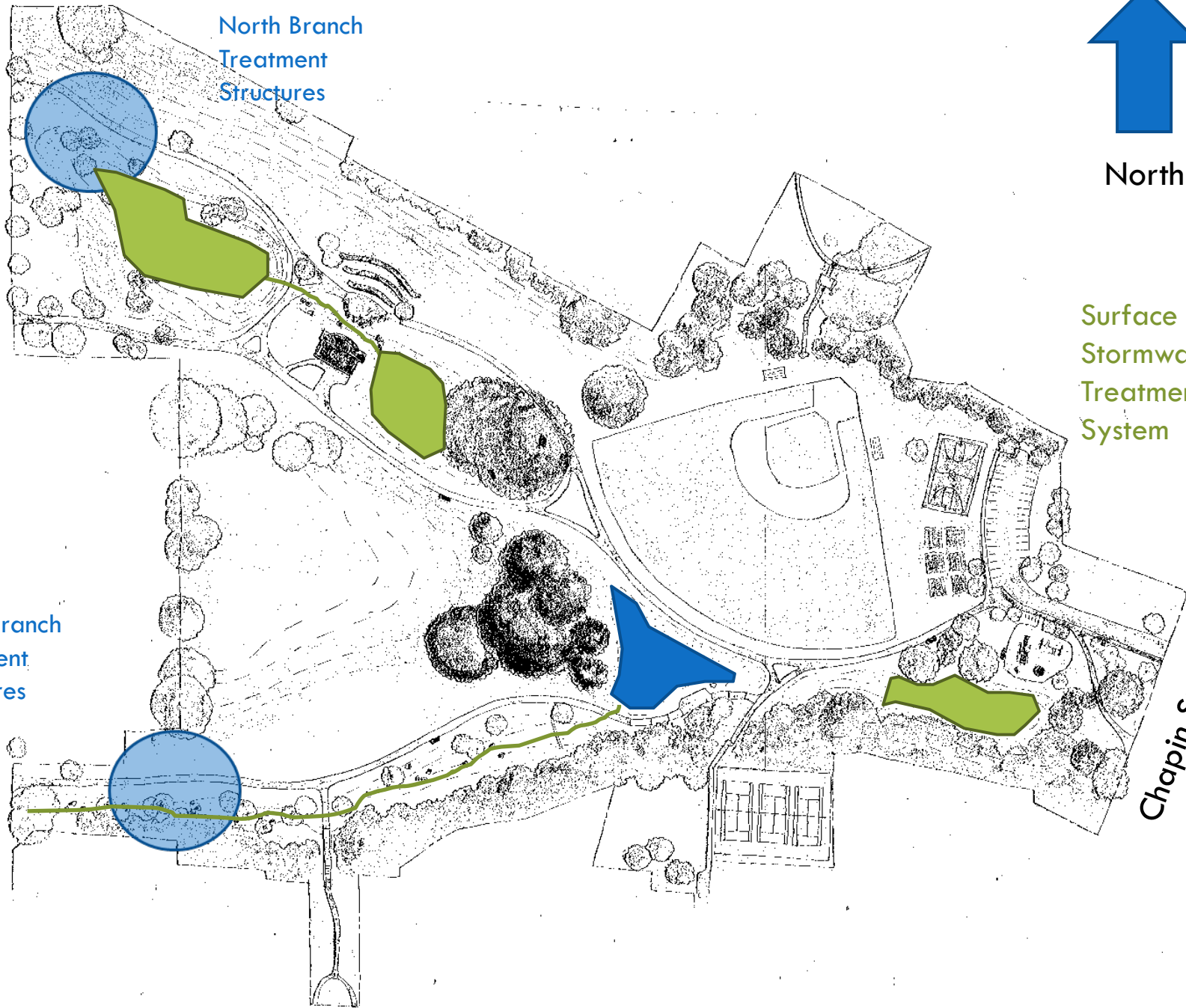
Surface  
Stormwater  
Treatment  
System

North Branch  
Treatment  
Structures

South Branch  
Treatment  
Structures

N. Seventh Street

Chapin Street





# Overview of Work Completed

## Overland Flow from 7<sup>th</sup> Street



# Overview of Work Completed Wetlands & Ponds





Remaining Items to Address

# Remaining Items to Address Swirl Concentrator Failures

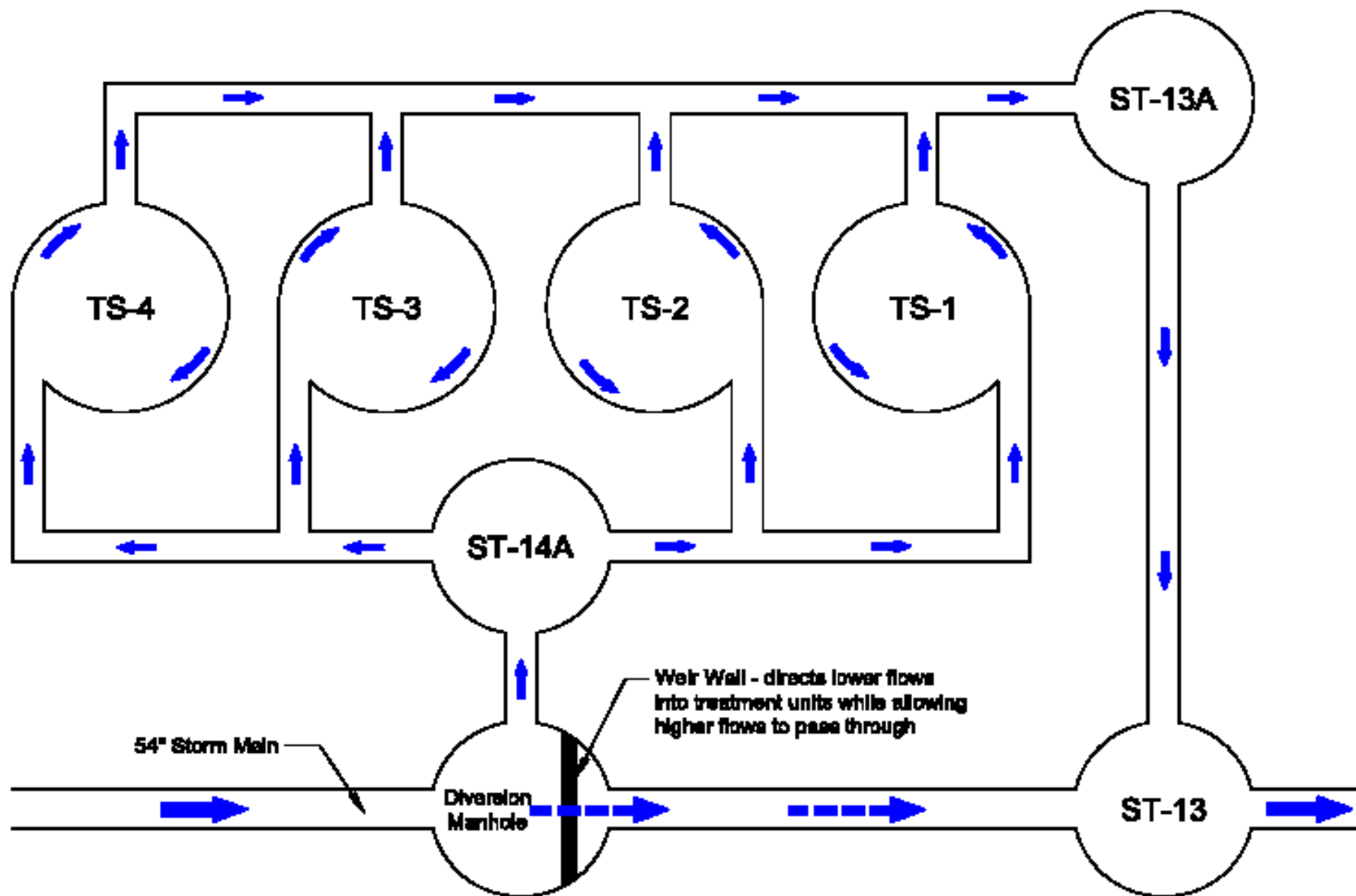


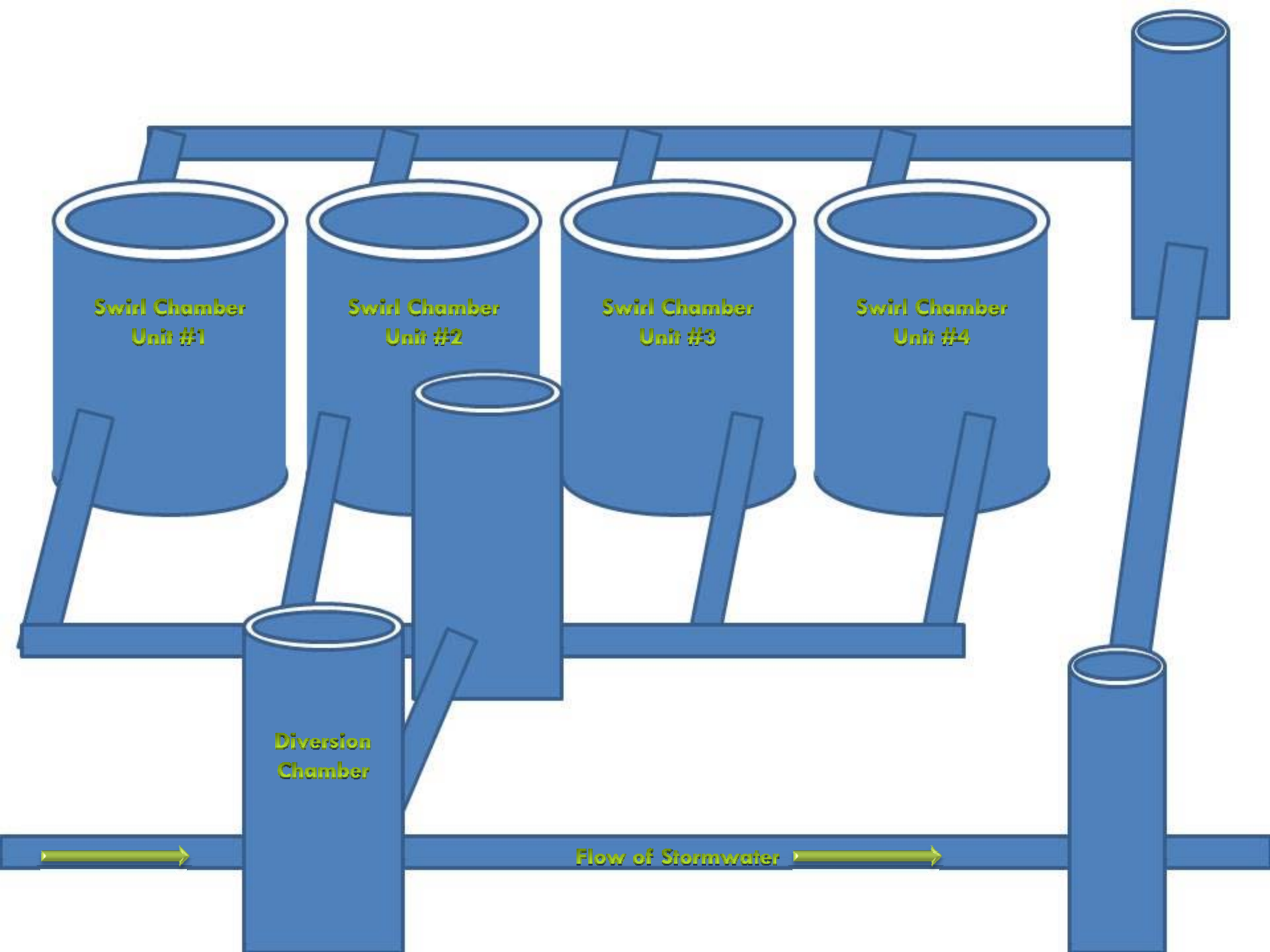


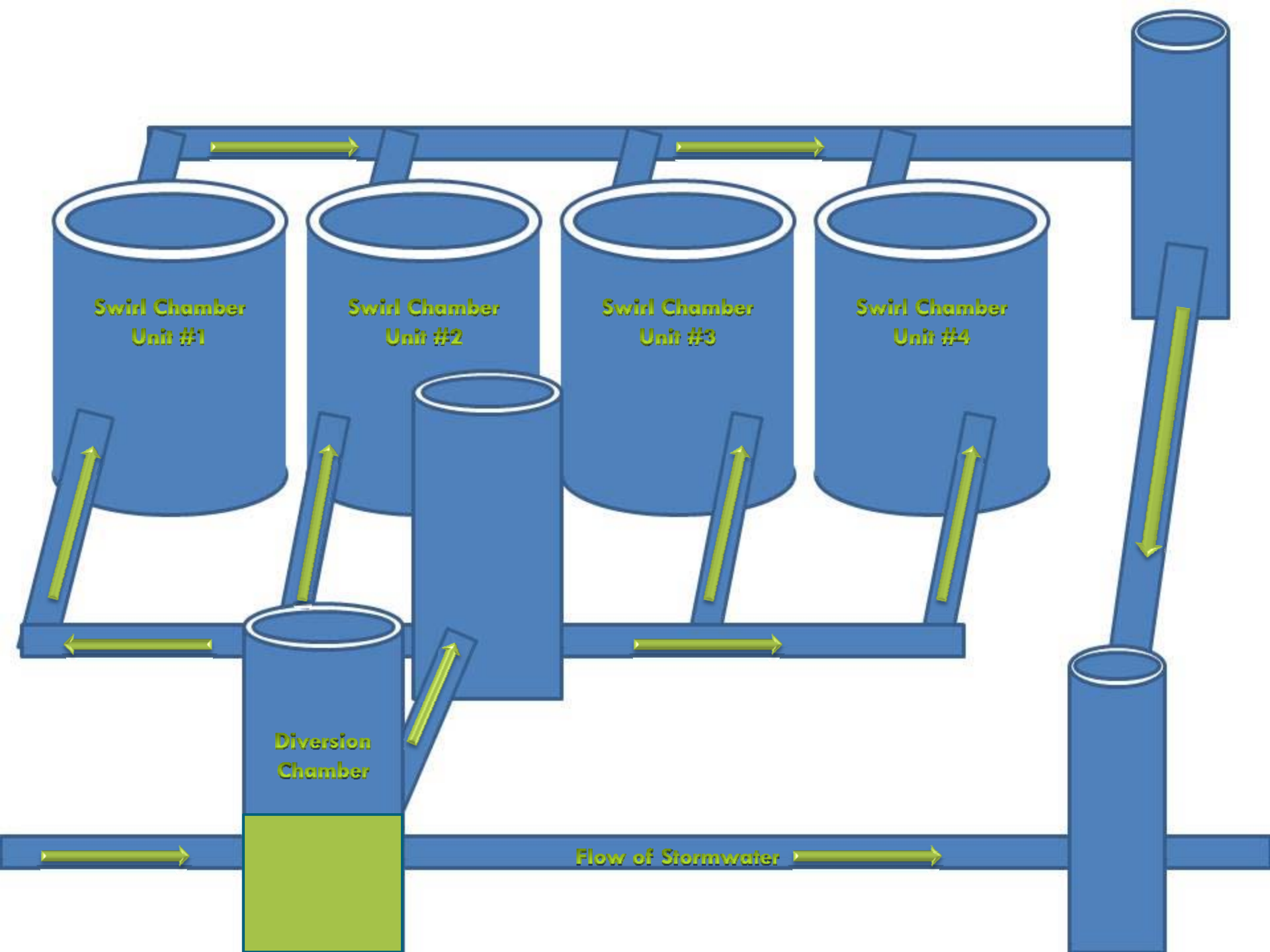
AquaShield

150

# North Branch Stormwater Treatment Diagram - As Designed







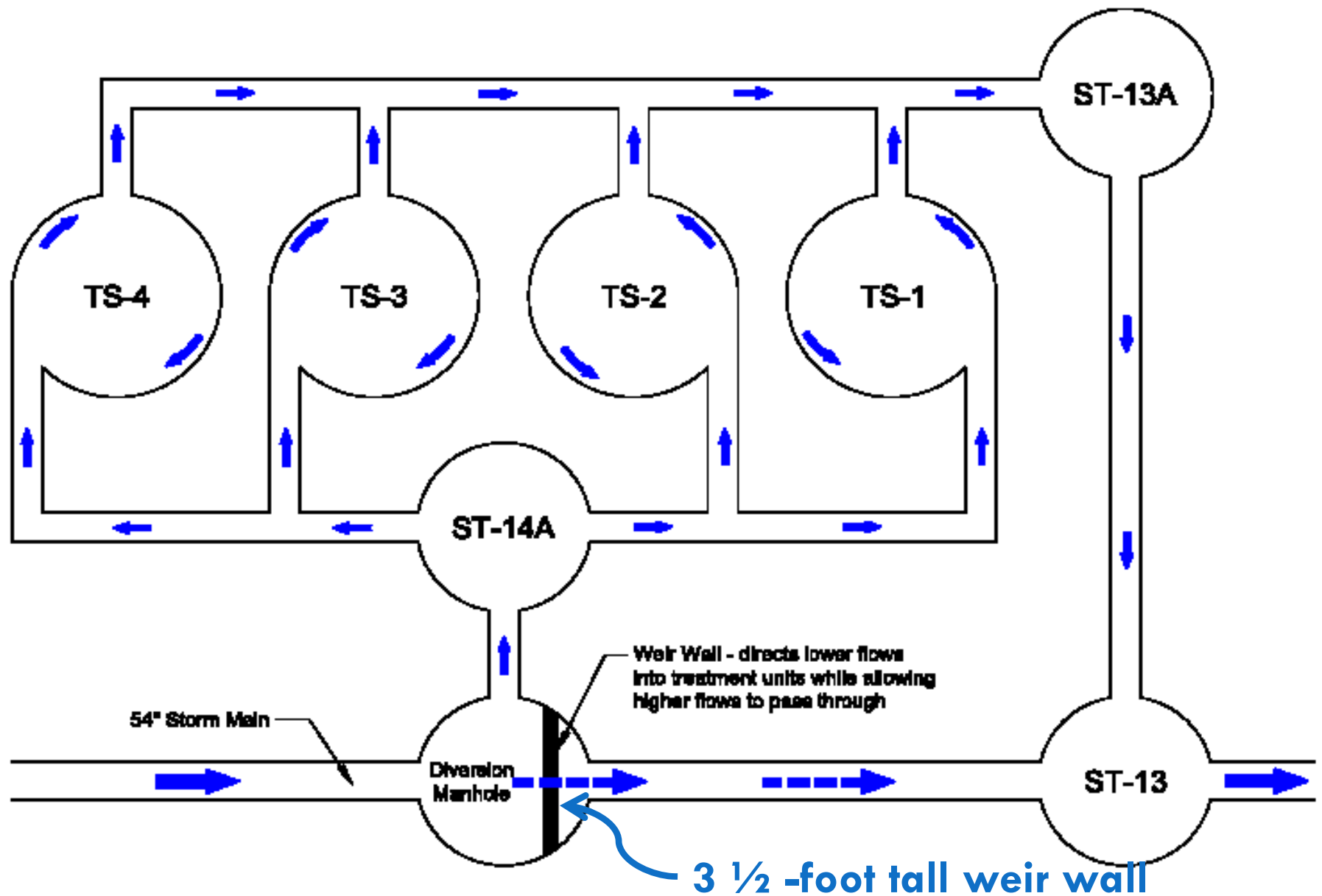


# Remaining Items to Address Swirl Concentrator Information

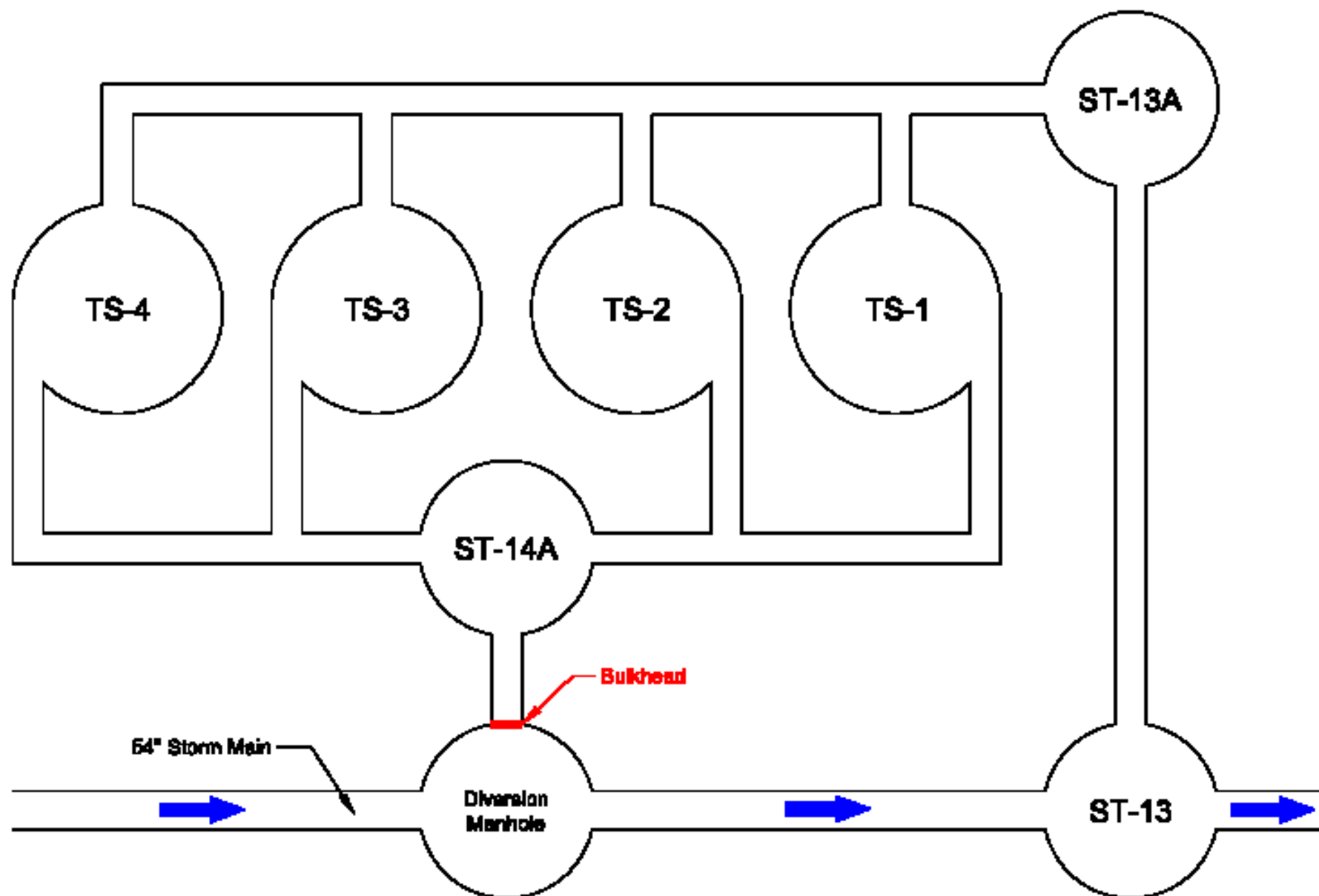
- 8 AquaSwirl units installed
  - 4 on north branch
  - 4 on south branch
  - Individual cost per installed unit: \$66,000
  - Installation: June 2010
  - N. Seventh Street Stormwater Separation: August 2010
  - Failure on N. Branch: November 2010
  - Treatment Units Taken Offline:
    - S. Branch: late August 2010 (not operating properly)
    - N. Branch: November 2010 (upon failure)



# North Branch Stormwater Treatment Diagram - As Designed



# North Branch Stormwater Treatment Diagram - Current Condition



# Project Status

- OHM Report –
  - ▣ Forensic Investigation of the swirl concentrator failure
  - ▣ Review of prior engineering design
  - ▣ Site specific modeling
  - ▣ Conceptual alternatives
- Legal Issues - Not holding up completion process





Next Steps

# Next Steps

- Working with OHM to refine overall design
  - ▣ Redesign of diversion manhole/weir wall
  - ▣ Storm surcharge relief options
- Public Meeting #2: February 13, 2012
  - ▣ Review of design
  - ▣ Technical background/localized modeling
  - ▣ Status Update



# Next Steps

- AquaShield repair of swirl concentrator units
  - ▣ May/June 2012
- City to Replace Weir Walls
  - ▣ Based on refined design by OHM
  - ▣ Following repair of AquaSwirl Units
  
- Expected Project Completion: July 2012





Questions?





- Visual animation of swirl chamber

