





AGENDA

- City of Akron CSO LTCP Update
 - Patrick Gsellman, PE, WW3
 - Environmental Division Manager



- Sewer Separation Projects: Design
 - Genny Hanna, PE
 - Project Manager, Senior Engineer
- Sewer Separation Projects: Construction
 - Jim Hall, PE
 - Project Manager, Civil III
- Questions











City of Akron CSO LTCP Update

- Benefits
 - Cuyahoga River
 - Water Quality
- Federal Consent Decree Elements
- CSO Long Term Control Plan









Cuyahoga River

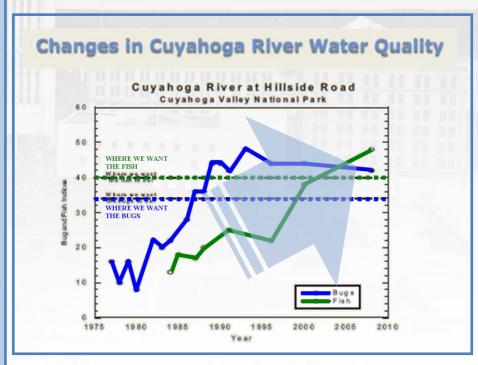
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Water Quality









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Benefits

- Compliance with CSO Policy provisions in the Clean Water Act and furthering the goals of the Cuyahoga River TMDL and RAP
- Increased Recreation Opportunities in Akron and Cuyahoga Valley National Park (Southern Gateway)
- Coordinated Activities with Ohio Canal and Towpath and Possible Water Trail
- Economic Development Potential Related to Tourism and Natural Resource
- Quality of Life Issues
- Engineering and Construction Jobs
- Money into the Local Economy













Consent Decree Elements

SPECIFIC ACTION **PROJECTS**

CSO AND WPCS CONTROL **MEASURES**

CMOM, FOG AND **EMERGENCY RESPONSE**

MUD RUN PUMPING STATION

Upgrade WPCS to 130mgd

Long Term Co Plan Update a Report

Separation Projects (8, 25,21, 30 & 13)





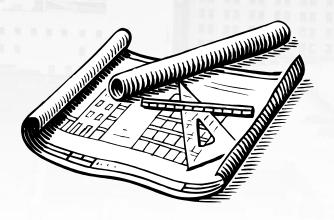
Pump Station and Collection System Study

CD: Complete all projects by LTCP Update:



Sewer Separation Projects Design

- Construction Complete
 - Construction Complete
 - Design Underway
 - Design Underway
 - Design Underway







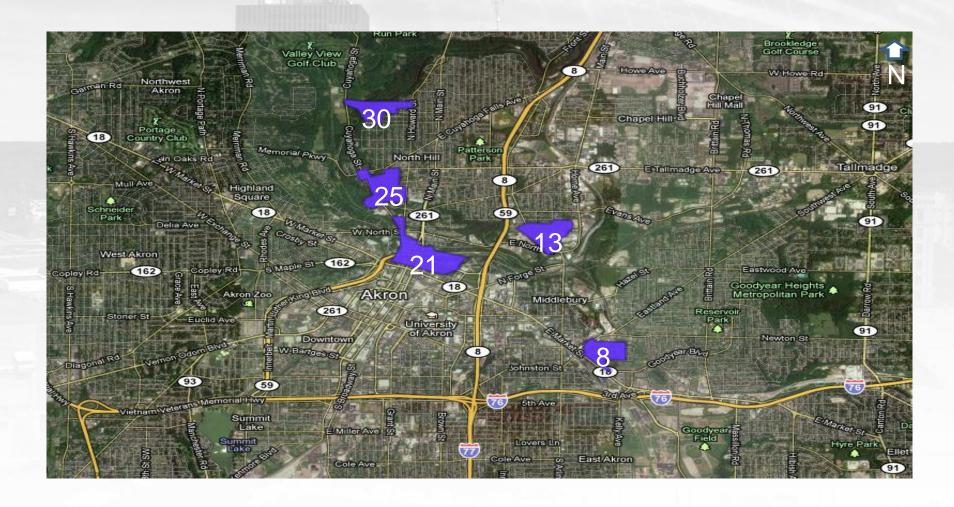




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Sewer Separation Drainage Areas



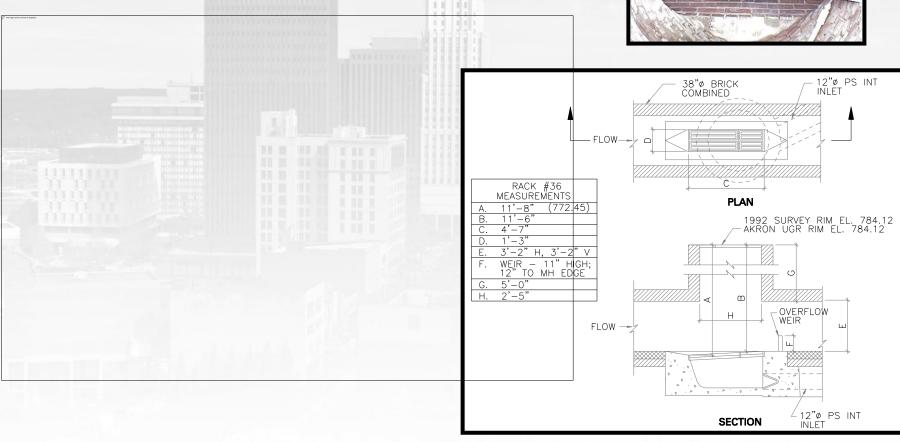






CSO Rack Structures











CSO Outlet Structures









CSO Rack 25

- Located North of Downtown Akron
- Rack Located in a Manhole in Bass Avenue
- Overflowed to Little Cuyahoga River











Pre-Design Work

- Researched Record Information
- Televised Existing Sewers
- Performed Smoke Testing
- Completed Flow Calculations











- Proposed Improvements
 - New 8 inch sanitary sewer (≈ 3,500 feet)
 - Existing combined sewer became the storm sewer
 - Reconstruct 8 inch water main (≈ 1,300 feet)

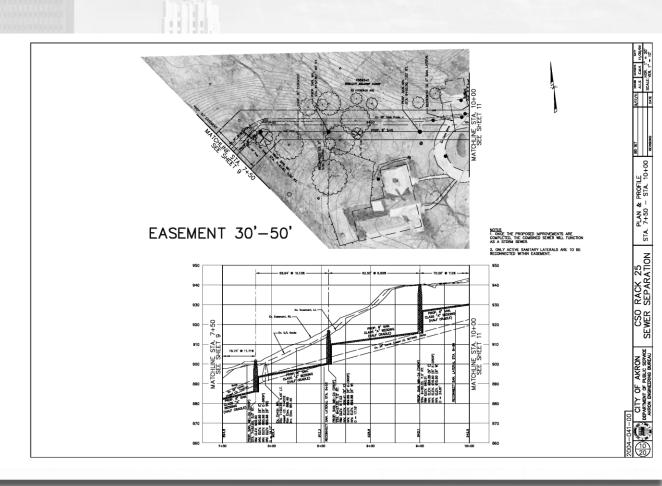








- DesignChallenges
 - SteepSlopes
 - Existing Utility Locations
 - Land Acquisition









CSO Rack 8

- Located Southeast of Downtown Akron
- Rack Located near Case Avenue and Kent Street
- Overflowed to Little Cuyahoga River









Proposed Improvements

- New 8-15 inch Sanitary Sewer (≈ 5,000 feet)
- New 12-36 inch Storm Sewer (≈ 1,100 feet)
- Reconstruct 8-inch to 36-inch Sanitary and Storm Sewer with CIPP Lining (≈ 4,000 feet)











- Design Challenges
 - Availability of Underground Record Information
 - Accelerated Design Schedule
 - Existing Utility Locations
 - Coordination with Railroad









Sewer Separation Projects Construction

11/9/2012
4 days (work in easement)
imate
%)
xisting sewer repairs
n in 2004 – old CCTV





ement restoration costs.



Sewer Separation Projects Construction

2012, Finish: 10/4/2012

timate 9%) 6.2%)



sting lateral investigations
Case Avenue (shallow
rground utilities (different
ace restorations on Dublin
le, and Fulton Street.

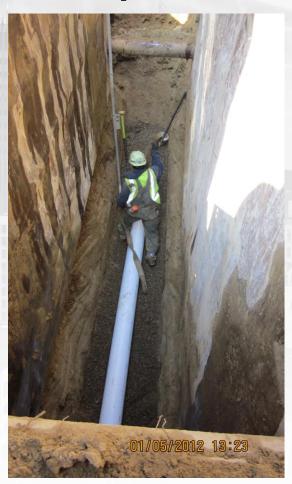






CSO Rack 25 Sewer Separation













CSO Rack 25 Sewer Separation















CSO Rack 8 Sewer Separation















CSO Rack 8 Sewer Separation









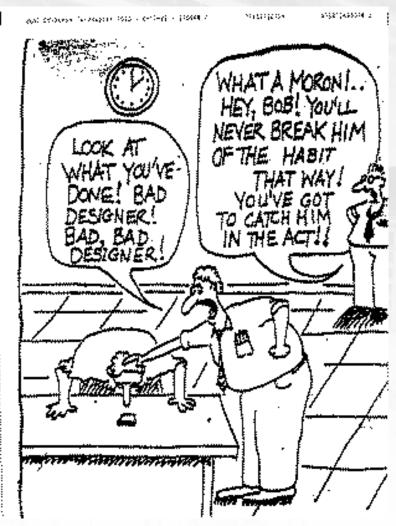




Commissioning & Handover



"Congratulations, Kegworthy, we're giving you the key to the Executive Sewer."









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