

Project Name: Central Relief Drain CSO In-line Storage, Green Infrastructure & Distributed Storage

Project Type: Diversion, Inline Storage and Green Infrastructure

Rec Stream: Ohio River

Project Description: Modify weir elevations to maximize in-line storage to the extent practicable. Focused modeling and monitoring will be utilized to determine if the level of control is met. Green infrastructure and distributed storage within the CSO drainage areas will be constructed to reach the 8 overflow in a typical year level of control, if necessary.

Design Assumption: Assumes weir raises will be acceptable. Additional evaluating of potential flooding at weir raise level will need to be evaluated based on the configuration of each CSO structure. Green Infrastructure or bending weirs may be used to mitigate potential increase of flooding risks.

Capital Cost: \$2,184,000

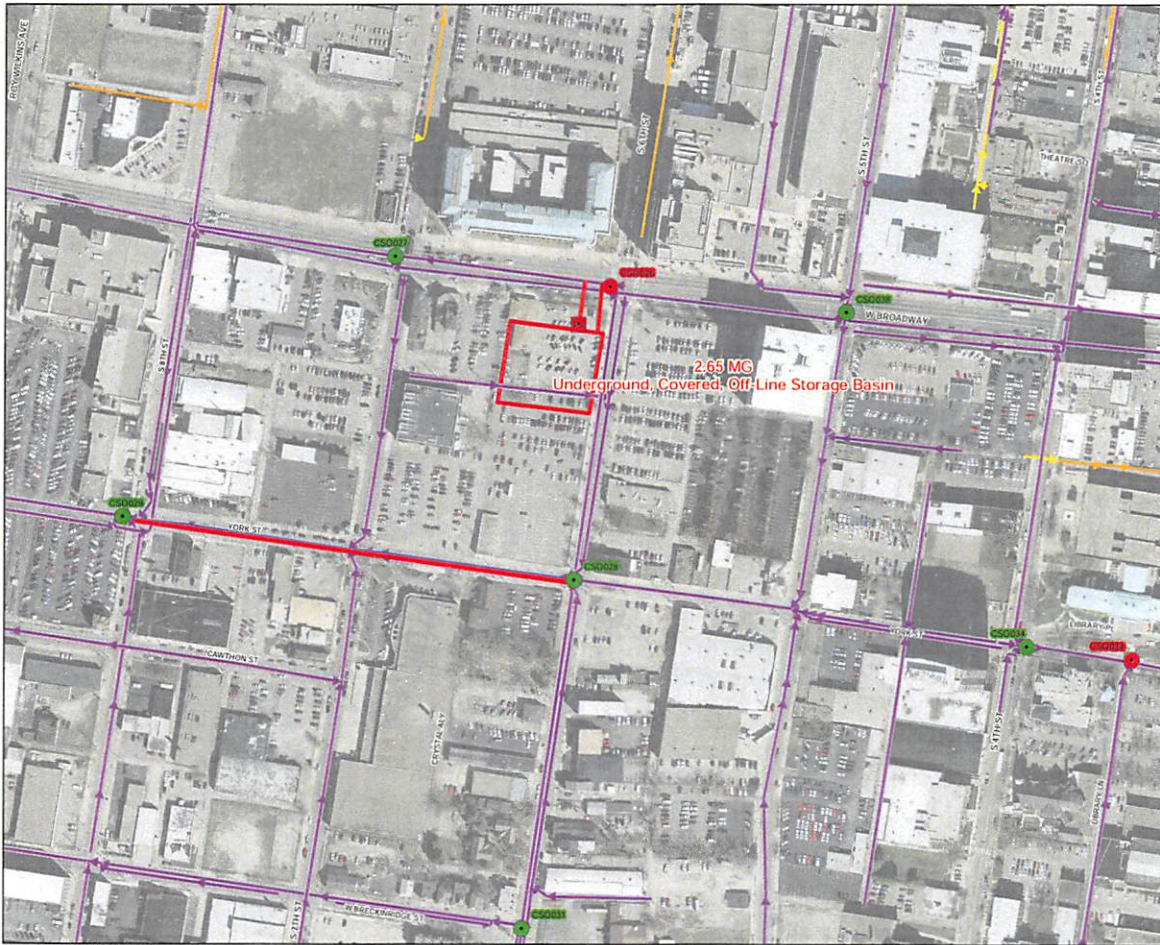
Capital Benefit/Cost: 543.96

Present Worth Benefit Cost: 581.21

CSO	CSO Name	Existing May 2012 ¹		Baseline May 2012 ²	
		Avg. Annual Overflow Volume	Avg. Annual Frequency	Avg. Annual Overflow Volume	Avg. Annual Frequency
CSO028	CRD 6th & YORK	1.28	26	1.28	26
CSO029	CRD 8th & YORK	5.30	37	5.30	37
CSO034	CRD 4th & YORK	0.29	21	0.29	21
CSO036	CRD 3rd & BROADWAY	0.00	0	0.00	0
CSO178	CRD 9th & YORK "B"	18.58	48	18.58	48
CSO181	CRD 2nd & BROADWAY NO 2	15.70	61	15.70	61
CSO193	CRD S 6th & KENTUCKY	0.02	4	0.02	4
CSO195	CRD S 4th & OAK	1.55	42	1.55	42
CSO196	CRD S 3rd & OAK	0.00	1	0.00	1
CSO197	CRD S 3rd S OF OAK	1.87	45	1.87	45
CSO199	CRD S 3rd N OF MAGNOLIA	0.19	27	0.19	27
CSO200	CRD S 3rd & MAGNOLIA	2.54	57	2.54	57
CSO202	CRD S ORMSBY W OF 3rd	0.05	9	0.05	9

1. Existing May 2012 conditions reflect existing system operating conditions as of that date.

2. Baseline May 2012 assumes all SSDP projects are complete and critical combined sewer facilities (e.g. Morris Forman WQTC Southwestern Pump Station, Starkey Pump Station) are operating at optimal, sustainable levels.



Integrated Overflow Abatement Plan
 Vol. 2 - Final CSO Long Term Control Plan
 Ohio River
 Central Relief Drain CSO In-line Storage,
 Green Infrastructure & Distributed Storage
 Preliminary - For Budget Development Only

- Active CSO
- Eliminated CSO
- Proposed Pump Station Solution
- Pump Stations
- Proposed Pipe Solution
- Combined Sewer Pipe
- Force Main
- Collector < 12"
- Interceptor >= 12"
- Drainage Mains
- Proposed Storage Solution
- Streams
- Floodway
- Jefferson County Boundary

General representation of overflow abatement solutions are for preliminary planning purposes. Alignments and locations may be altered during design.

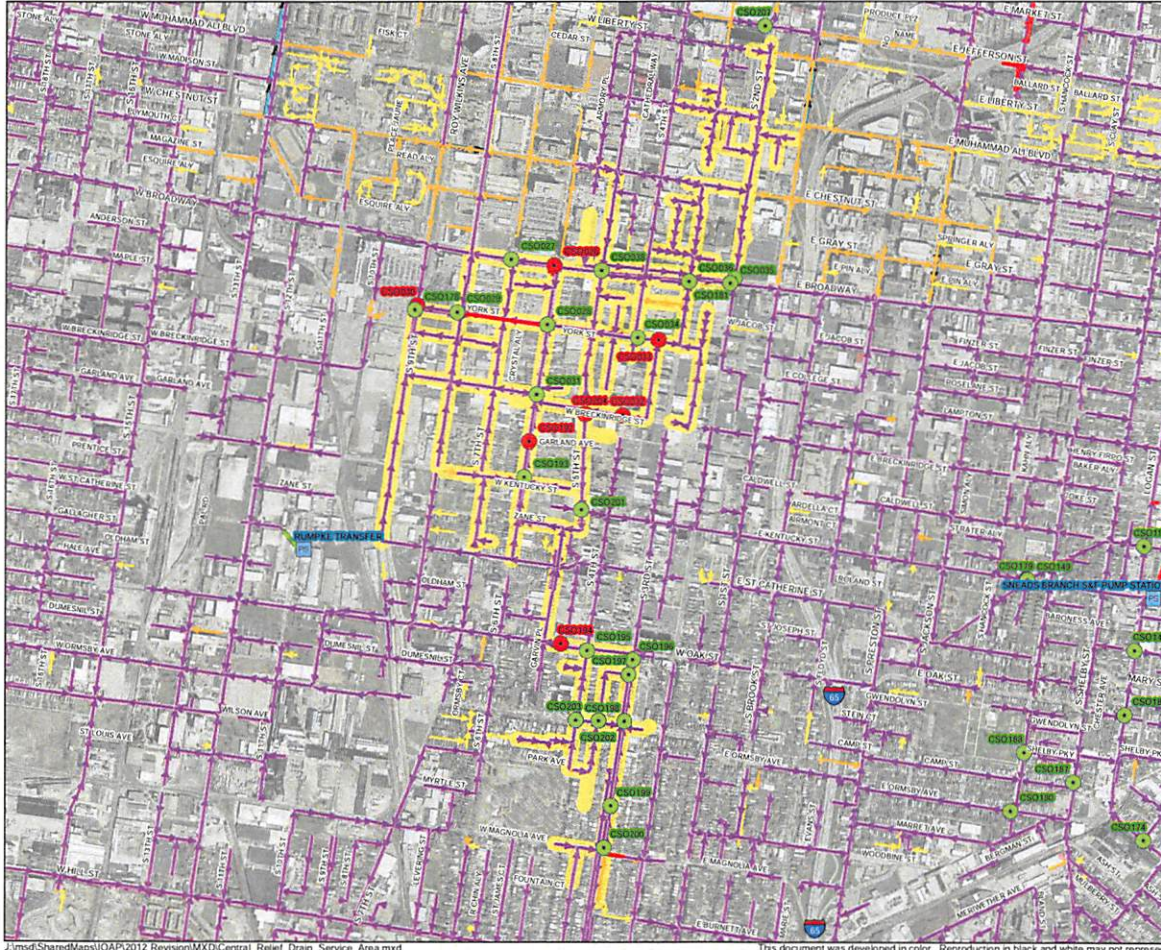
1 inch = 200 feet Aerial Date: 2009 Map Revision: April 9, 2012



**Integrated Overflow Abatement Plan
Vol. 2 - Final CSO Long Term Control Plan**

Ohio River
Central Relief Drain CSO Service Area

Preliminary - For Budget Development Only



- Active CSO
- Eliminated CSO
- ☒ Pump Stations
- Proposed Pipe Solution
- Combined Sewer Pipe
- Force Main
- Collector < 12"
- Interceptor ≥ 12"
- Drainage Mains
- Streams
- ☒ Floodway
- CRD CSO Service Area
- Jefferson County Boundary

General representation of overflow abatement solutions are for preliminary planning purposes. Alignments and locations may be altered during design.

1 inch = 1,000 feet Aerial Date: 2009 Map Revision: April 9, 2012

