

# **Bettendorf City Council**

## **Joint Use Sewer –**

### **Administrative Consent Order**

#### **February 4, 2013**

- History/Timeline
- Interceptor Sewers/Locations  
(approximately 13 miles)
- Strategy for Financial Plan, Plan of Action and Administrative Order
- Project Grouping Spreadsheet
- Funding – CIP Spreadsheets

# Administrative Consent Order History/Timeline

- Joint Sewer Use – Intergovernmental Agreement – 1/5/1974
- IDNR letter requesting Financial Plan and Plan of Action – 11/22/2011
  - Requiring \$50 million Equalization Basin constructed by 12/31/2015
- Veenstra & Kimm, Inc./CH2M HILL team hired 12/27/2011
  - Wet /Weather Workshop 1/31/2012 included IDNR, Joint Use Cities, Veenstra & Kimm, Inc., CH2M Hill and John Hall (legal)
- Capital Improvement Plan (20 year) submitted 3/30/2012
  - Regulatory meeting (IDNR and US EPA) held 4/26/2012

# Administrative Consent Order History/Timeline (Continued)

- Plan of Action submitted 5/31/2012 (included updates requested to initial Financial Plan)
  - Included 20 year plan with first 10 years focus on inflow removal, interceptor sewers, optimizing WWTP
- Initial draft Administrative Consent Order received August 2012
- Final draft coordinated Consent Order (with Bettendorf legal changes) 1/10/2013
- IDNR proposed signature of Administrative Order – February 2013
  - Requires all four Joint Use Mayor's signatures

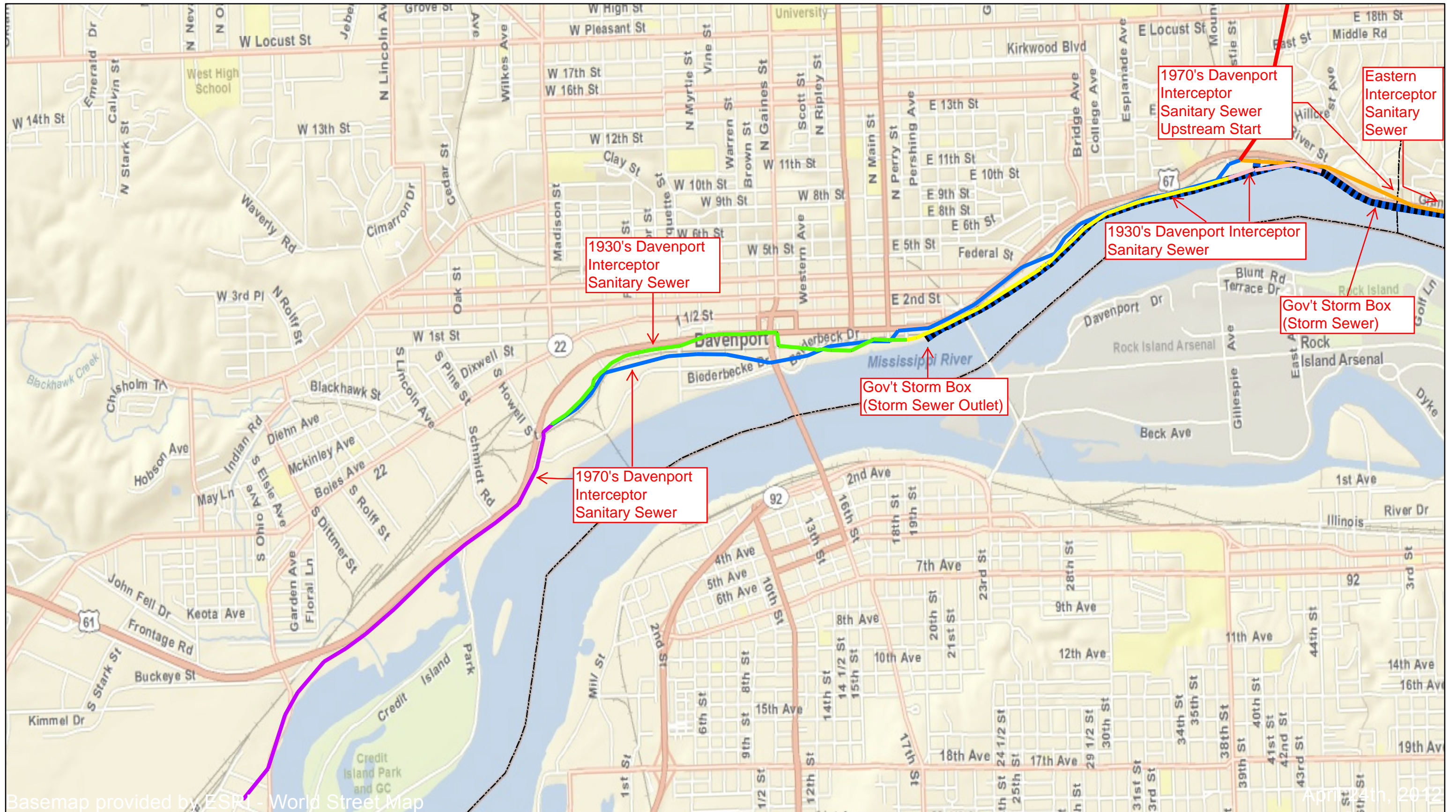


Figure AO-1 - Plan View of Interceptors (Davenport)  
 Riverfront Interceptors (by diameter (in.) & age)



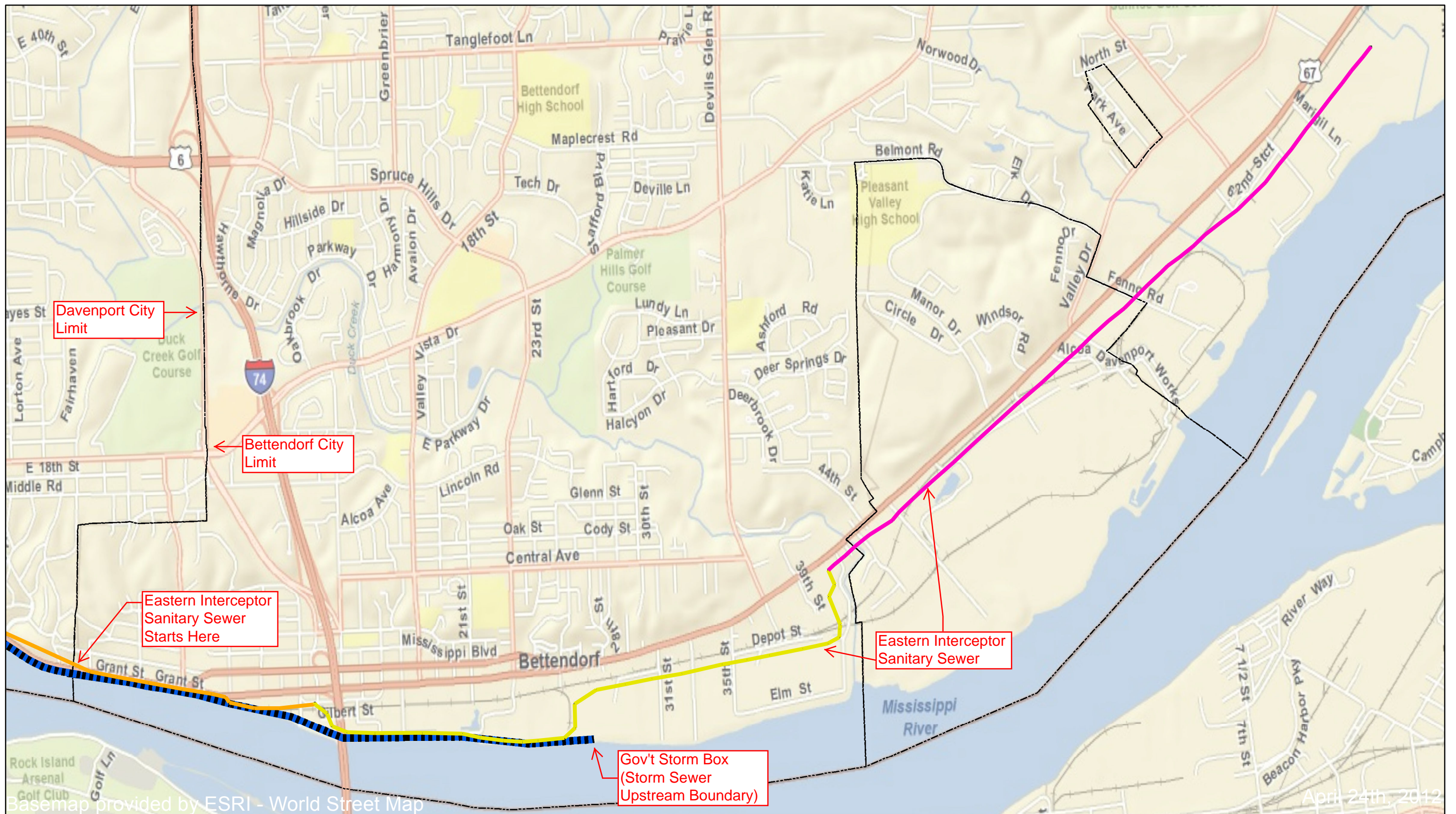
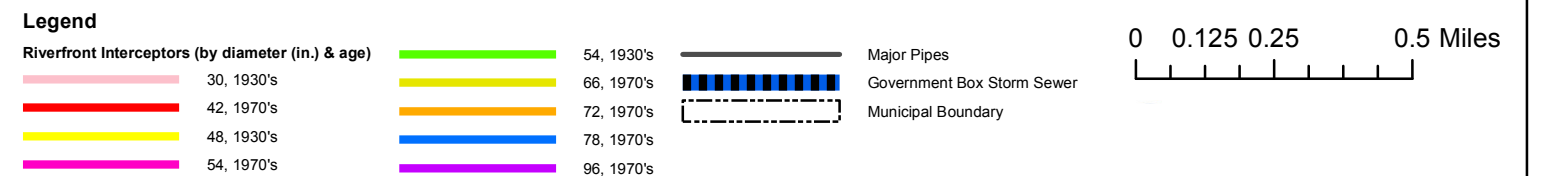


Figure AO-2 - Plan View of Interceptors (Bettendorf)  
 Riverfront Interceptors (by diameter (in.) & age)



April 24th, 2012

# Joint Sewer Use Planning Strategy

- Step 1: Model/meter/evaluate interceptor sewers/evaluate WWTP - year 1 (95% complete)
- Step 2: Clean/TV sewers (spring/summer 2013)  
Determine capacities of sewers (75% complete)  
Maximize/optimize flow through the WWTP - years 1 thru 5 (2% complete)
- Step 3: Remove as much river intrusion from interceptor sewers as possible - years 1 thru 10 (2% complete)
- Step 4: Design Wet Weather High Flow Improvements years 10 thru 20
  - \* EQ Basins
  - \* Bio Acti-Flow

**DAVENPORT, IOWA JOINT USE OF SANITARY  
PROJECT GROUPING TIMELINE**

Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28	FY 28/29	FY 29/30	FY 31/32	FY 32/33
<i>Sanitary Sewer Metering (Permanent)</i>																				
Plans & Specification																				
Installation																				
<i>Trunk Sewers</i>																				
Cleaning & Televising																				
Evaluation																				
Plans & Specifications																				
Repair & Rehabilitation																				
<b>Sanitary Sewer Metering (Permanent)</b>																				
Plans & Specification																				
Installation																				
<i>Government Interceptor Storm Box</i>																				
<b>Mississippi West Basin I&amp;I Study</b>																				
Initial Review																				
Cleaning & Televising																				
Plans & Specifications																				
Repair & Rehabilitation																				
IDNR Planning Evaluation																				
<i>WWTP</i>																				
<b>Plant Optimization</b>																				
Plans & Specifications																				
Construction																				
<b>Disinfection of Treatment Plant Effluent</b>																				
Evaluation, Planning & Design																				
Construction																				
<b>Sanitary Sewer Equalization Basin</b>																				
Evaluation, Planning & Design																				
Construction																				
<b>Nutrient Removal</b>																				
Evaluation, Planning & Design																				
Construction																				
<b>Wastewater Master Plan Update</b>																				



Figure 1

DAVENPORT, IOWA JOINT USE OF SANITARY  
WET WEATHER IMPROVEMENTS  
COST SHARE

Updated CIP for Plan of Action  
5/30/2012

Description - Updated CIP for Plan of Action	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28	FY 28/29	FY 29/30	FY 30/31	FY 31/32
<b>Sanitary Sewer Equalization Basin</b>	25,000,000											5,000,000		20,000,000							
Davenport Portion (79.66%)	19,915,000											3,983,000		15,932,000							
Bettendorf Portion (19.81%)	4,952,500											990,500		3,962,000							
Riverdale Portion (.46%)	115,000											23,000		92,000							
Panorama Park Portion (.07%)	17,500											3,500		14,000							
<b>Mississippi West Basin I&amp;I Study</b>	3,500,000	500,000							1,000,000					1,000,000					1,000,000		
Davenport Portion (79.66%)	2,788,100	398,300							796,600					796,600					796,600		
Bettendorf Portion (19.81%)	693,350	99,050							198,100					198,100					198,100		
Riverdale Portion (.46%)	16,100	2,300							4,600					4,600					4,600		
Panorama Park Portion (.07%)	2,450	350							700					700					700		
<b>Old Riverfront Interceptor Cleaning &amp; Inspection</b>	8,250,000	1,750,000	1,000,000	500,000	2,000,000	2,000,000										1,000,000					
Davenport Portion (79.66%)	6,571,950	1,394,050	796,600	398,300	1,593,200	1,593,200										796,600					
Bettendorf Portion (19.81%)	1,634,325	346,675	198,100	99,050	396,200	396,200										198,100					
Riverdale Portion (.46%)	37,950	8,050	4,600	2,300	9,200	9,200										4,600					
Panorama Park Portion (.07%)	5,775	1,225	700	350	1,400	1,400										700					
<b>Wastewater Master Plan Update</b>	1,000,000											1,000,000									
Davenport Portion (79.66%)	796,600											796,600									
Bettendorf Portion (19.81%)	198,100											198,100									
Riverdale Portion (.46%)	4,600											4,600									
Panorama Park Portion (.07%)	700											700									
<b>Riverfront Interceptor Inspection, Cleaning, and Replacement</b>	4,200,000			2,100,000	2,100,000																
Davenport Portion (79.66%)	3,345,720			1,672,860	1,672,860																
Bettendorf Portion (19.81%)	832,020			416,010	416,010																
Riverdale Portion (.46%)	19,320			9,660	9,660																
Panorama Park Portion (.07%)	2,940			1,470	1,470																
<b>Disinfection of Treatment Plant Effluent</b>	4,000,000								4,000,000												
Davenport Portion (79.66%)	3,186,400								3,186,400												
Bettendorf Portion (19.81%)	792,400								792,400												
Riverdale Portion (.46%)	18,400								18,400												
Panorama Park Portion (.07%)	2,800								2,800												
<b>Plant Optimization</b>	9,000,000			5,000,000	4,000,000																
Davenport Portion (79.66%)	7,169,400			3,983,000	3,186,400																
Bettendorf Portion (19.81%)	1,782,900			990,500	792,400																
Riverdale Portion (.46%)	41,400			23,000	18,400																
Panorama Park Portion (.07%)	6,300			3,500	2,800																
<b>Nutrient Removal</b>	100,000,000																25,000,000	25,000,000	25,000,000	25,000,000	
Davenport Portion (79.66%)	79,660,000																19,915,000	19,915,000	19,915,000	19,915,000	
Bettendorf Portion (19.81%)	19,810,000																4,952,500	4,952,500	4,952,500	4,952,500	
Riverdale Portion (.46%)	460,000																115,000	115,000	115,000	115,000	
Panorama Park Portion (.07%)	70,000																17,500	17,500	17,500	17,500	
<b>Sanitary Sewer Metering (Permanent)</b>	580,000	200,000	200,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Davenport Portion (79.66%)	462,028	159,320	159,320	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966
Bettendorf Portion (19.81%)	114,898	39,620	39,620	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981
Riverdale Portion (.46%)	2,668	920	920	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46
Panorama Park Portion (.07%)	406	140	140	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
<b>Eastern Trunk Study/Rehabilitation</b>	6,090,000		45,000	45,000	1,000,000	2,000,000	3,000,000														
Davenport Portion (79.66%)	4,851,294		35,847	35,847	796,600	1,593,200	2,389,800														
Bettendorf Portion (19.81%)	1,206,429		8,915	8,915	198,100	396,200	594,300														
Riverdale Portion (.46%)	28,014		207	207	4,600	9,200	13,800														
Panorama Park Portion (.07%)	4,263		32	32	700	1,400	2,100														
<b>TOTALS</b>	161,620,000	2,450,000	1,245,000	7,655,000	9,110,000	4,010,000	3,010,000	10,000	5,010,000	10,000	10,000	5,010,000	1,010,000	21,010,000	10,000	1,010,000	25,010,000	25,010,000	26,010,000	25,010,000	10,000
Davenport Portion (79.66%)	128,746,492	1,951,670	991,767	6,097,973	7,257,026	3,194,366	2,397,766	7,966	3,990,966	7,966	7,966	3,990,966	804,566	16,736,566	7,966	804,566	19,922,966	19,922,966	20,719,566	19,922,966	7,966
Bettendorf Portion (19.81%)	32,016,922	485,345	246,635	1,516,456	1,804,691	794,381	596,281	1,981	992,481	1,981	1,981	992,481	200,081	4,162,081	1,981	200,081	4,954,481	4,954,481	5,152,581	4,954,481	1,981
Riverdale Portion (.46%)	743,452	11,270	5,727	35,213	41,906	18,446	13,846	46	23,046	46	46	23,046	4,646	96,646	46	4,646	115,046	115,046	119,646	115,046	46
Panorama Park Portion (.07%)	113,134	1,715	872	5,359	6,377	2,807	2,107	7	3,507	7	7	3,507	707	14,707	7	707	17,507	17,507	18,207	17,507	7



Figure 6



DAVENPORT, IOWA JOINT USE OF SANITARY  
WET WEATHER IMPROVEMENTS  
COST SHARE

UPDATED FOR BETTENDORF  
11/8/12

Description - Updated CIP for Plan of Action	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28	FY 28/29	FY 29/30	FY 30/31	FY 31/32
<b>Sanitary Sewer Equalization Basin</b>	25,000,000											5,000,000		20,000,000							
Davenport Portion (79.66%)	19,915,000											3,983,000		15,932,000							
<b>Bettendorf Portion (19.81%)</b>	4,952,500											990,500		3,962,000							
Riverdale Portion (.46%)	115,000											23,000		92,000							
Panorama Park Portion (.07%)	17,500											3,500		14,000							
<b>Mississippi West Basin I&amp;I Study</b>	3,500,000	250,000	250,000							1,000,000				1,000,000					1,000,000		
Davenport Portion (79.66%)	2,788,100	199,150	199,150							796,600				796,600					796,600		
<b>Bettendorf Portion (19.81%)</b>	693,350	49,525	49,525							198,100				198,100					198,100		
Riverdale Portion (.46%)	16,100	1,150	1,150							4,600				4,600					4,600		
Panorama Park Portion (.07%)	2,450	175	175							700				700					700		
<b>Old Riverfront Interceptor Cleaning &amp; Inspection</b>	8,250,000		1,750,000	1,000,000	500,000	2,000,000	2,000,000									1,000,000					
Davenport Portion (79.66%)	6,571,950		1,394,050	796,600	398,300	1,593,200	1,593,200									796,600					
<b>Bettendorf Portion (19.81%)</b>	1,634,325		346,675	198,100	99,050	396,200	396,200									198,100					
Riverdale Portion (.46%)	37,950		8,050	4,600	2,300	9,200	9,200									4,600					
Panorama Park Portion (.07%)	5,775		1,225	700	350	1,400	1,400									700					
<b>Wastewater Master Plan Update</b>	1,000,000												1,000,000								
Davenport Portion (79.66%)	796,600												796,600								
<b>Bettendorf Portion (19.81%)</b>	198,100												198,100								
Riverdale Portion (.46%)	4,600												4,600								
Panorama Park Portion (.07%)	700												700								
<b>Riverfront Interceptor Inspection, Cleaning, and Replacement</b>	4,200,000			2,100,000	2,100,000																
Davenport Portion (79.66%)	3,345,720			1,672,860	1,672,860																
<b>Bettendorf Portion (19.81%)</b>	832,020			416,010	416,010																
Riverdale Portion (.46%)	19,320			9,660	9,660																
Panorama Park Portion (.07%)	2,940			1,470	1,470																
<b>Disinfection of Treatment Plant Effluent</b>	4,000,000									4,000,000											
Davenport Portion (79.66%)	3,186,400									3,186,400											
<b>Bettendorf Portion (19.81%)</b>	792,400									792,400											
Riverdale Portion (.46%)	18,400									18,400											
Panorama Park Portion (.07%)	2,800									2,800											
<b>Plant Optimization</b>	7,900,000		600,000	300,000	3,500,000	3,500,000															
Davenport Portion (79.66%)	6,293,140		477,960	238,980	2,788,100	2,788,100															
<b>Bettendorf Portion (19.81%)</b>	1,564,990		118,860	59,430	693,350	693,350															
Riverdale Portion (.46%)	36,340		2,760	1,380	16,100	16,100															
Panorama Park Portion (.07%)	5,530		420	210	2,450	2,450															
<b>Nutrient Removal</b>	100,000,000															25,000,000	25,000,000	25,000,000	25,000,000		
Davenport Portion (79.66%)	79,660,000															19,915,000	19,915,000	19,915,000	19,915,000		
<b>Bettendorf Portion (19.81%)</b>	19,810,000															4,952,500	4,952,500	4,952,500	4,952,500		
Riverdale Portion (.46%)	460,000															115,000	115,000	115,000	115,000		
Panorama Park Portion (.07%)	70,000															17,500	17,500	17,500	17,500		
<b>Sanitary Sewer Metering (Permanent)</b>	530,000		350,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Davenport Portion (79.66%)	422,198		278,810	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966	7,966
<b>Bettendorf Portion (19.81%)</b>	104,993		69,335	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981	1,981
Riverdale Portion (.46%)	2,438		1,610	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46
Panorama Park Portion (.07%)	371		245	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
<b>Eastern Trunk Study/Rehabilitation</b>	6,090,000		45,000	45,000	1,000,000	2,000,000	3,000,000														
Davenport Portion (79.66%)	4,851,294		35,847	35,847	796,600	1,593,200	2,389,800														
<b>Bettendorf Portion (19.81%)</b>	1,206,429		8,915	8,915	198,100	396,200	594,300														
Riverdale Portion (.46%)	28,014		207	207	4,600	9,200	13,800														
Panorama Park Portion (.07%)	4,263		32	32	700	1,400	2,100														
<b>TOTALS</b>	160,470,000	250,000	2,995,000	3,455,000	7,110,000	7,510,000	5,010,000	10,000	5,010,000	10,000	10,000	5,010,000	1,010,000	21,010,000	10,000	1,010,000	25,010,000	25,010,000	26,010,000	25,010,000	10,000
Davenport Portion (79.66%)	127,830,402	199,150	2,385,817	2,752,253	5,663,826	5,982,466	3,990,966	7,966	3,990,966	7,966	7,966	3,990,966	804,566	16,736,566	7,966	804,566	19,922,966	19,922,966	20,719,566	19,922,966	7,966
<b>Bettendorf Portion (19.81%)</b>	31,789,107	49,525	593,310	684,436	1,408,491	1,487,731	992,481	1,981	992,481	1,981	1,981	992,481	200,081	4,162,081	1,981	200,081	4,954,481	4,954,481	5,152,581	4,954,481	1,981
Riverdale Portion (.46%)	738,162	1,150	13,777	15,893	32,706	34,546	23,046	46	23,046	46	46	23,046	4,646	96,646	46	4,646	115,046	115,046	119,646	115,046	46
Panorama Park Portion (.07%)	112,329	175	2,097	2,419	4,977	5,257	3,507	7	3,507	7	7	3,507	707	14,707	7	707	17,507	17,507	18,207	17,507	7
<b>Bettendorf Cumulative Portion</b>		49,525	642,835	1,327,270	2,735,761	4,223,492	5,215,973	5,217,954	6,210,435	6,212,416	6,214,397	7,206,878	7,406,959	11,569,040	11,571,021	11,771,102	16,725,583	21,680,064	26,832,645	31,787,126	31,789,107



Figure 6