



SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL  
BOARD OF DIRECTORS MEETING  
**August 15, 2018 7:30 am**

Metro-East Park and Recreation District Office  
104 United Drive, Collinsville, Illinois 62234

1. Call to Order  
*John Conrad, President*
2. Approval of Minutes of July 18, 2018
3. Public Comment on Pending Agenda Items
4. Program Status Report  
*Chuck Etwert, Chief Supervisor*
5. Budget Update and Approval of Disbursements  
*Chuck Etwert, Chief Supervisor*
6. Design and Construction Update  
*Jay Martin, Wood Environment & Infrastructure Solutions, Inc.*
7. FY 2019 Flood Prevention District Council Budget  
*Chuck Etwert, Chief Supervisor*
8. Flood Prevention District Council Annual Report  
*Chuck Etwert, Chief Supervisor*
9. Update from Corps of Engineers  
*Tracey Kelsey, U.S. Army Corps of Engineers*

AGENDA

10. Election of Officers for 2018-2019  
*Chuck Etwert, Chief Supervisor*

11. Public Comment

Executive Session – (if necessary)

12. Other Business

13. Adjournment

**Next Meeting: September 19, 2018**

## MINUTES

### SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL BOARD OF DIRECTORS MEETING July 18, 2018

The regular meeting of the Board of Directors was held at the Metro-East Park and Recreation District Office, 104 United Drive, Collinsville, Illinois at 7:30 a.m. on Wednesday July 18, 2018.

#### Members in Attendance

John Conrad, President (Chair, Monroe County Flood Prevention District)  
Ron Motil, Vice President (Chair, Madison County Flood Prevention District)  
Debra Moore, Secretary/Treasurer (Chair, St. Clair County Flood Prevention District)  
Bruce Brinkman, Monroe County Flood Prevention District  
Alvin Parks, Jr., St. Clair County Flood Prevention District

#### Members Absent

Jeremy Plank, Madison County Flood Prevention District

#### Others in Attendance

Robert Elmore, Monroe County Board Chair  
Kurt Prenzler, Madison County Board Chair  
Mark Kern, St. Clair County Board Chair  
Chuck Etwert, SW Illinois FPD Council  
Steve Adler, Metro-East Sanitary District  
Kelly Brown, IUOE Local 520  
Randy Cook, Wood Environment & Infrastructure Solutions, Inc.  
Mike Feldmann, U.S. Army Corps of Engineers  
David Human Jr., Husch Blackwell LLP  
Charles Juneau, Juneau Associates Inc.  
Tracey Kelsey, U.S. Army Corps of Engineers  
Lance Lunte, Lochmueller Group  
Jay Martin, Wood Environment & Infrastructure Solutions, Inc.  
Jack Norman, Illinois Groundwater Advisory Council  
David Oates, Oates Associates  
Jon Omvig, Wood Environment & Infrastructure Solutions, Inc.  
Brad Ruppert, Senator Dick Durbin  
Rhonda Sauget, Leadership Council Southwestern Illinois  
Kevin Williams, Wood Environment & Infrastructure Solutions, Inc.

**Call to order**

President John Conrad noted the presence of a quorum and called the meeting to order at 7:30 am.

Mr. Conrad asked for a roll call to confirm that a quorum was present and the following indicated their attendance.

- Mr. Brinkman – Present
- Mr. Conrad - Present
- Dr. Moore – Present
- Mr. Motil – Present
- Mr. Parks – Present
- Mr. Plank - absent

A quorum was present.

**Approval of Minutes of May 16, 2018**

Mr. Conrad asked for a motion to approve the minutes of the Board meeting held on May 16, 2018. A motion was made by Mr. Parks, seconded by Dr. Moore, to approve the minutes of the Board meeting held on May 16, 2018. Mr. Motil called the roll and the following votes were made on the motion:

- Mr. Brinkman – Aye
- Mr. Conrad - Aye
- Dr. Moore – Aye
- Mr. Motil – Aye
- Mr. Parks – Aye
- Mr. Plank - absent

The meeting minutes were approved.

**Public Comment on Pending Agenda Items**

Mr. Conrad asked if there were any comments from the public on any agenda item on today’s agenda. There were none.

**Election of Secretary-Treasurer for Remainder of 2017-2018**

With Secretary-Treasurer Paul Bergkoetter completing his term of service on the Council on June 30, 2018, Council bylaws require a new Secretary/Treasurer be elected by the Council to serve the remainder of the 2017-2018 Fiscal Year. Mr. Conrad asked for nominations from the floor to fill the Secretary-Treasurer position. Mr. Etwert indicated, per Council Bylaws, the office would need to be filled by a member from St. Clair County. A motion was made by Mr.



Parks, seconded by Mr. Motil, to have Dr. Moore serve as Secretary-Treasurer of the Council for the remainder of the 2017–2018 Fiscal Year. Mr. Motil called the roll and the following votes were made on the motion:

Mr. Brinkman – Aye  
Mr. Conrad - Aye  
Dr. Moore – Aye  
Mr. Motil – Aye  
Mr. Parks – Aye  
Mr. Plank - absent

### **Program Status Report**

Mr. Conrad asked Mr. Etwert to provide a status report for the project.

Mr. Etwert discussed the 100-Year Certification packages first.

#### East & West Fork Levee Systems

Submitted by Wood on December 5, 2016  
FEMA Completeness Check and Comments received January 26, 2018  
Resubmitted to FEMA June 29, 2018

#### Prairie Du Pont & Fish Lake Levee Systems

Submitted by Wood on July 6, 2017  
FEMA Completeness Check and Comments received January 26, 2018  
Resubmitted to FEMA June 29, 2018

#### Lower Wood River Levee System

Submitted by Wood on October 17, 2017  
FEMA Completeness Check and Comments received April 20, 2018  
Resubmitted to FEMA July 13, 2018

#### Upper Wood River Levee System

Submitted by Corps of Engineers on March 10, 2017  
Comments received from FEMA September 5, 2017  
Resubmitted to FEMA on June 18, 2018

#### MESD Levee System

Wood submitted information to the Corps of Engineers December 2017  
Corps of Engineers completed technical review and issued comments on May 7, 2018  
Wood responded to comments on June 13, 2018  
Corps of Engineers submittal to FEMA anticipated by August 31, 2018

The 100-Year Certification review and submittal process continues to make progress. Four packages have been resubmitted to FEMA. The remaining package for the MESD Levee System, is anticipated to be submitted by the Corps of Engineers by the end of August.

As previously indicated, FEMA has a backlog of work and it is anticipated the accreditation review and approval process will take up to a year. Approval of the MESD package, the last package being submitted, isn't expected until late summer of 2019

Next he discussed the 500-Year Authorized Level Status.

### **500-Year Authorized Level Status**

#### Wood River Levee System

The Corps of Engineers has officially informed the Council that it will not need the \$2,600,000 requested and approved by the Council, earlier this year in January, for the Wood River Deep Cutoff Wall Phase 2 Option. A relief well solution costing less, has been identified as part of the risk assessment process. A copy of their letter was included in the agenda package.

Wood is completing the design of Bid Package #8, which consists of 27 Relief Wells and one Pump Station, with a total estimate construction cost of \$4.3 million dollars. In order to utilize existing funds, the Corps of Engineers will be constructing Bid Package #8.

Bid Packages #9 & #10 on are hold pending the completion of the Corps' Risk Assessment & Supplemental Report, which isn't expected to be completed until January 2019.

The Council still anticipates receiving the Corps' preliminary cost estimate for the Wood River Authorized Level Improvements by the end of this month.

As you are aware, the Corps of Engineers didn't receive any FY 2018 Work Plan Funding for East St. Louis and has indicated they prefer to not reprogram any Wood River funds to East St. Louis. With significant progress being made on the Wood River Supplemental Report, they now believe all the funds can be utilized in Wood River. A copy of their letter, indicating they will not be resubmitting their request for reprogramming of funds from Wood River was also included in the agenda package.

#### MESD Levee System

The Corps of Engineers continues to complete the design of the East St. Louis Deep Cutoff Wall Project, to be ready to go, if FY 2019 Work Plan Funds are received. In conjunction, the Council continues to work with the Corps and MESD, following Federally Funded guidelines, regarding utility relocations, easement preparation, and easement obtainment. As design has been completed, the original scope of work has increased, which will require an amendment to Wood Work Order #18. These costs are eligible to be included in the Land Easements Relocations

Right of Way & Disposal Sites (LERRDs) costs which can be part of the non-federal thirty five percent share of overall project costs. He indicated the Work Order amendment would be presented later in the meeting by Wood.

The MESD Levee System Integral Determination Report (IDR) has been approved and the Project Partnership Agreement is expected to be approved in early August. This will allow the utilization of Work In-Kind Credit on the Corps' East St. Louis Deep Cutoff Wall Project, if the Corps received FY 2019 Work Plan Funds.

Wood continues to request and obtain information needed from the Corps, to bid and construct the Corps' Cahokia Relief Well Project which is estimated to cost \$10.6 million dollars. It consists of 51 Relief Wells and the modification to the Cahokia Pump Station. This will be identified as the Council's Bid Package #18 and will be advertised for bid later this year.

Wood is also designing Bid Package #14, a shallow clay trench and filter blanket with an estimated construction cost of \$4.3 million dollars, which will also be advertised for bid later this year.

Bid Packages #11, #12, & #13 are on hold pending the Corps' completion of the Risk Informed Design Process, which is expected to be completed later this year.

#### Prairie Du Pont/Fish Lake Levee Systems

Wood is continuing the design of the combination of Bid Packages #15, #16, and #17. Wood is currently in discussions with the Corps of Engineers, about the Authorized Level berm designs, which has taken several more months than originally envisioned. Once discussions are complete, a design, bid date schedule, and revised cost estimate will be developed.

Lastly, he summarized the ongoing cooperation between the Corps and the Council.

The Corps' requirement of a Risk Assessment & Supplemental Report in Wood River, the utilization of the Risk Informed Design Process in MESD, and now the lack of funding has and will delay the Authorized Level design and construction. However, the Council continues to work with the Corps to get projects built as soon as possible. The Council constructing the Cahokia Relief Well Project designed by the Corps and the Corps building Bid Package #8 designed by Wood are examples of the cooperation to achieve increased flood protection to the Metro East.

In FY2019, the Corps will still be requesting cost-share cash funds for oversight and to satisfy the 5% cash requirement but a much lower amount than in previous years. The Council will have accumulated over \$28 million dollars in Work In-Kind Credit to cost share match available Corps funds.

Mr. Conrad asked for a motion to accept the Program Status Report for July 2018. A motion was made by Mr. Brinkman to accept the Program Status Report for July 2018. Mr. Parks seconded the motion. Dr. Moore called the roll and the following votes were made on the motion:

Mr. Brinkman – Aye  
Mr. Conrad - Aye  
Dr. Moore – Aye  
Mr. Motil – Aye  
Mr. Parks – Aye  
Mr. Plank – absent

The motion was approved unanimously.

### **Budget Update and Approval of Disbursements**

Mr. Conrad asked Mr. Etwert to provide a report.

Mr. Etwert noted that the financial statements for May and June 2018 prepared by our fiscal agent, CliftonLarsonAllen were included in the materials sent for the meeting. The report included an accounting of revenues and expenditures for the months ending May 31, 2018 and June 30, 2018, as compared to the fiscal year budget.

Accrued expenditures for the current fiscal year beginning on October 1, 2017 thru June 30, 2018 are \$17,473,165 while revenues amounted to \$9,566,601 resulting in a deficit of \$7,906,564. A total of \$31,060,526 is held by the counties in their respective FPD sales tax funds and is available for the Council's use on the project.

Monthly sales tax receipts of \$1,067,122 for March 2018 were up 3.68% from last year and monthly sales tax receipts of \$993,560 for April 2018 were up .86% from last year. Both amounts were the highest amounts ever collected in March and April and are the seventeenth and eighteenth consecutive months with the highest receipts collected for those particular months. Receipts are up 3.07% from last year, which was our highest year.

The report included two lists of bank transactions for May and June 2018. Total disbursements for May were \$220,950.22 and for June were \$144,533.17. The largest payments were to Wood, East West Gateway, Prairie Du Pont Levee Sanitary District, and Roxanna Landfill, Inc.

Also, for the Board's review and anyone else who was interested, Mr. Etwert provided copies of each transaction, represented on the May 2018 and June 2018 Bank Transaction Schedules prepared by CliftonLarsonAllen.

Mr. Etwert recommended that the Board accept the budget report and disbursements for May and June 2018.

Mr. Conrad asked for a motion to accept Mr. Etwert’s budget report and disbursements for May and June 2018. A motion was made by Mr. Motil, seconded by Mr. Brinkman, to accept the budget report and approve the disbursements for May and June 2018. Dr. Moore called the roll and the following votes were made on the motion:

- Mr. Brinkman – Aye
- Mr. Conrad - Aye
- Dr. Moore – Aye
- Mr. Motil – Aye
- Mr. Parks – Aye
- Mr. Plank - absent

The motion was approved unanimously.

**Design and Construction Update**

Mr. Conrad called on Jay Martin, Wood Environment & Infrastructure Solutions, Inc., to provide an update report. Mr. Martin indicated that his presentation would be brief and used a PowerPoint® presentation to illustrate his remarks. His presentation focused on FEMA Certification Update, and the Authorized Level (500-Year) Design as follows:

**FEMA Certification Update**

He provided a summary of the FEMA Certification by Levee/County.

<b>Levee System</b>	<b>County Flood Maps</b>	<b>Certification</b>	<b>Comments from FEMA</b>	<b>Resubmitted to FEMA</b>
Upper Wood River	Madison	Submitted by USACE March, 2017	USACE Received November 2017	June 2018
East/West Forks	Madison	Submitted December, 2016	January 2018	June 2018
Lower Wood River	Madison	Submitted October 17, 2017	April 2018	July 2018
Metro East Sanitary District (MESD)	Madison/ St. Clair	Wood Submitted to USACE December, 2017	USACE comments <u>May 2018</u> Wood Resubmitted to USACE June 2018	Corps to submit to FEMA by Sept. 1, 2018
Prairie Du Pont/Fish Lake (PDP/FL)	St. Clair/ Monroe	Submitted July, 2017	January 2018	June 2018

Next, Mr. Martin discussed the status of the Authorized Level (500-Year) Design.

### **Authorized Level (500-Year) Design**

#### **Wood River (Bid Packages 8, 9, and 10)**

- Bid Package 8
  - Design is ongoing
  - 27 relief wells and 1 pump station
  - USACE plans to bid this project in April 2019
  
- Bid Packages 9 & 10
  - On hold pending completion of USACE Risk Assessment & Supplemental Report (1 year remaining)
  
- Lower Wood River Risk Assessment & Supplemental Report

#### **MESD (Bid Packages 11, 12, 13, 14 & 18)**

- Bid Packages 11, 12 & 13
  - Relief wells and 1 pump station
  - On hold, pending USACE risk informed solution (summer 2018)
  
- Bid Package 14
  - Final design underway (shallow clay trench, filter blanket)
  - Advertise for bid late summer 2018
  
- Bid Package 18 (Cahokia Relief Well Project from USACE )
  - 51 relief wells

Design & coordination with USACE is ongoing

Advertise for bid late 2018

**Prairie Du Pont & Fish Lake (Bid Packages 15, 16, 17)**

- Working with USACE to validate solutions
- Drilling planned for fall 2018 into spring 2019

Mr. Conrad asked for a motion to accept Mr. Martin's Design and Construction Update report. A motion was made by Mr. Parks, with a second by Mr. Conrad, to accept the Wood Environment & Infrastructure Solutions, Inc. Design and Construction Update report. Dr. Moore called the roll and the following votes were made on the motion:

Mr. Brinkman – Aye  
Mr. Conrad - Aye  
Dr. Moore – Aye  
Mr. Motil – Aye  
Mr. Parks – Aye  
Mr. Plank - absent

The motion was approved unanimously.

**Draft FY 2019 Flood Prevention District Council Budget**

Mr. Conrad asked Mr. Etwert to explain this item.

Mr. Etwert indicated, it was the Board's custom to review the draft budget for the coming fiscal year at the July Board meeting, with final adoption at the August meeting. By law, the Council's budget must be adopted by August 31 of each year for the fiscal year beginning October 1. The budget must be submitted to the county boards for approval, after which, they have 30 days to act on it.

He then summarized the proposed budget for the upcoming year.

In FY 2018, with the river finally receding, the completion of all construction needed to achieve FEMA accreditation was completed. This included the large clay cap in MESD, the lining of the East St. Louis 126-inch Sewer, and the construction of four remaining relief wells in the Wood River area.

The FY 2019 budget focuses on FEMA accreditation and Authorized Level design and construction.

Four certification reports have been submitted to FEMA to date. Wood submitted the Wood River East & West Forks Package in December 2016, the Prairie Du Pont/Fish Lake Package in July 2017, and the Lower Wood River in October 2017.

The Corps of Engineers submitted the Upper Wood River Package in March 2017 and will submit the MESD Package by the end of August.

FEMA comments have been received on the four packages submitted and resubmittals have been made on those four packages.

Total FEMA accreditation is not anticipated to be achieved until late summer 2019.

Authorized Level construction anticipated in FY 2019 includes Bid Package #14, Bid Package #18, and some portion of Bid Packages #15/16/17. Anticipated Work In-Kind credits of \$12,415,405 in East St. Louis and \$16,041,496 in Wood River will be utilized by the Corps of Engineers to match any funds that they have or may receive. Cash contributions to the Corps of Engineers for oversight and the required five percent cash will be lower than in previous years as the Council nears meeting the cash requirement. Administrative expenditures, which are a relatively small portion of our costs, remain virtually unchanged for the next year.

In general, expenditures for next year's budget are based on achieving 100-Year accreditation and the design and construction of the Authorized Level projects. The past practice of making conservative revenue and expenditure assumptions was continued.

A draft FY 2019 budget was provided in Table 1, with the following key assumptions.

Key assumptions:

1. FEMA certification will be achieved by the end of summer 2019.
2. The level of Council staffing does not change in FY 2019, and general and administrative costs continue to remain a very small portion of the project expenditures (less than 1%). Staff resources continue to be supplemented by the significant use of consulting and professional services.
3. In accordance with the bond indenture, all sales tax receipts are intercepted by the Trustee and after all financial requirements for debt, construction, and administration have been



satisfied, surplus funds are transferred to each County for deposit in a County Flood Prevention District Sales Tax Fund for future Council project financing. The surplus transfers are shown as expenditures in the budget.

4. A 10% construction cost contingency is included for all construction on all projects to be built.
5. Sales tax revenue is estimated to increase by 2.00% over the estimated receipts for the current year. Our current increase level thru June of this year is 3.07%. Interest income is based on information received from our financial advisor.
6. Funding for Corps of Engineers' oversight on FPD design and construction has been included. These funds, where applicable, will satisfy the Corps of Engineers' five percent cash requirement on future projects constructed by the Corps and may in some instances satisfy a small portion of the Work In-Kind requirement.
7. The Council will continue to work with levee districts in establishing funding sources, where and if needed, for the maintenance and operations of the 100-Year Improvements and Authorized Level Improvements being built. Wood has completed Life Cycle Costs Reports for the 100-Year Improvements for each of the Levee Districts. The Council will be of setting up meetings with each Levee District to discuss their individual report.
8. After all of the funds held by the Council are expended, the three County FPD sales tax funds will be used for the 500-Year Authorized Level Projects. Annual requests will be made to each County for the funding needed for the upcoming fiscal year. There is currently over thirty-one million dollars in the county FPD sales tax funds.
9. The budget has been developed to provide flexibility to coincide with the Corps of Engineers' utilization of the Risk Informed Design Process, the completion of a Risk Assessment & Supplemental Report for Wood River and the Corps' ability to receive future funding. Each of these items can affect project priorities and design & construction responsibilities between the Corps and Wood. Such as the recent decision, with the Council now building the Cahokia Relief Well Project designed by the Corps, and the Corps now building the Wood River Bid Package #8 designed by Wood.

Table 1

**SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL  
PROPOSED BUDGET  
OCTOBER 1, 2018 THRU SEPTEMBER 30, 2019**

	ACTUAL EXPENDITURES		ADOPTED BUDGET		PROJECTED EXPENDITURES		PROPOSED BUDGET	
	OCTOBER 1, 2016 THRU SEPTEMBER 30, 2017		OCTOBER 1, 2017 THRU SEPTEMBER 30, 2018		OCTOBER 1, 2017 THRU SEPTEMBER 30, 2018		OCTOBER 1, 2018 THRU SEPTEMBER 30, 2019	
<b>REVENUES</b>								
Sales Tax Proceeds From Districts	\$	11,771,886	\$	11,835,000	\$	12,215,170	\$	12,475,000
Interest Income		692,386		225,000		675,241		280,000
Other Contributions						-		-
Total Revenues	\$	12,464,272	\$	12,060,000	\$	12,890,411	\$	12,755,000
<b>EXPENDITURES</b>								
Design and Construction								
Engineering Design & Construction		4,333,349		5,688,038		2,960,536		7,869,377
Management								
Construction		13,640,061		7,330,945		2,761,936		20,527,970
USACE Authorized Level Costs		7,152,000		6,157,291		207,000		3,500,000
Total Design and Construction	\$	25,125,410	\$	19,176,274	\$	5,929,472	\$	31,897,347
Professional Services								
Legal & Legislative Consulting		282,819		486,000		176,335		322,500
Diversity Program Manager		-		11,525		6,600		-
Financial Advisor		15,520		65,000		32,510		65,000
Bond Trustee Fee		9,588		16,000		11,203		12,000
Total Professional Services	\$	307,927	\$	578,525	\$	226,648	\$	399,500
Refund of Surplus Funds to County FPD Accounts								
Total Refund of Surplus Funds to County	\$	1,549,672	\$	3,000,000	\$	1,683,901	\$	2,500,000
Debt Service								
Principal and Interest		10,725,020		10,798,620		10,784,424		10,876,570
Federal Interest Subsidy		(847,340)		(847,340)		(850,070)		(850,070)
Total Debt Service	\$	9,877,680	\$	9,951,280	\$	9,934,354	\$	10,026,500
Total Design & Construction Expenses	\$	36,860,689	\$	32,706,079	\$	17,774,375	\$	44,823,347
General and Administrative Costs								
Salaries, Benefits		204,955		203,000		207,727		213,000
Bank Service Charges		1,035		1,500		942		1,200
Annual IL. Lobbyist Registration		307		350		307		-
Equipment and Software		-		2,000		2,597		2,000
Fiscal Agency Services		29,050		31,000		30,280		32,000
Audit Services		15,500		16,000		16,000		16,500
Meeting Expenses		638		1,000		-		1,000
Postage/Delivery		873		1,000		761		1,000
Printing/Photocopies		2,630		3,500		2,036		2,500
Professional Services		-		10,000		-		10,000
Publications/Subscriptions		-		250		-		-
Supplies		2,621		3,300		1,769		3,000
Telecommunications/Internet		2,969		3,000		2,255		3,000
Travel		754		5,000		807		5,000
Insurance		485		1,000		484		1,000
Total General & Administrative Costs		261,817	\$	281,900	\$	265,965		291,200
Total Expenditures		37,122,506	\$	32,987,979	\$	18,040,340		45,114,547
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES		(24,658,234)	\$	(20,927,979)	\$	(5,149,929)	\$	(32,359,547)
OTHER FINANCING SOURCES								
Proceeds From Borrowing		83,835,000		-	\$	-	\$	-
NET CHANGE IN FUND BALANCE	\$	59,176,766	\$	(20,927,979)	\$	(5,149,929)	\$	(32,359,547)

Additional tables providing more information on design, construction management, construction, revenues, expenses, and Authorized Level funding and costs were discussed.

Table 2 provided more details on the project expenditures for design, construction management, and construction.

Table 3 compared expenses to revenues between 7/1/2018 and 9/30/2019. The table illustrated, all 2010 Bond Issue construction funds had been spent, the amount of available 2015 Bond Issue construction funds was \$34,227,170, and total amount of the individual County FPD sales tax funds was \$31,060,526. If revenues and expenditures were as estimated, the Council would end the year with \$39,199,379 available funds, of which, over eighty percent would be held by the Counties. In FY 2020, the Council would have to start requesting funds from each of the individual County FPD sales tax funds.

Table 4 illustrated the current estimated Authorized Level funding was approximately \$113 million. It also illustrated, based on current Corps of Engineers estimates, there was a shortfall of almost \$22 million dollars of funding needed to achieve the Authorized Level.

Table 2

**Estimated Project Expenditures 10.1.2018 -9.30.2019**

<b>Design &amp; Construction Management</b>	<b>FY 2019</b>
<b>Engineering Design</b>	
<i>W. O. #1 Program Mgmt.</i>	\$200,000
<i>W. O. #3 Preconstruction Activities</i>	\$25,000
<b>Authorized Level Work Orders</b>	
<i>W.O. #13 Wood River Field &amp; Design BP #8, BP #9, &amp; BP #10</i>	\$850,000
<i>W.O. #14 MESD Field &amp; Design</i>	\$1,800,000
<i>W.O. #16 Prairie Du Pont/Fish Lake Field &amp; Design</i>	\$3,500,000
<i>W.O. #17 Life-Cycle Cost FEMA Improvements</i>	\$10,000
<i>W.O. #18 MESD Deep Cutoff Wall Utility/Easement Assistance</i>	\$184,377
<b>Construction Management.</b>	
<i>W. O. #? Construction Management BP #14, BP #15/16/17 &amp; BP#18</i>	\$1,300,000
<b>TOTAL ENGINEERING DESIGN &amp; CONSTRUCTION MGMT.</b>	<b>\$7,869,377</b>
<b>Construction</b>	
<i>Bid Package #14</i>	\$3,000,000
<i>Bid Package #15/16/17</i>	\$1,500,000
<i>Bid Package #18</i>	\$11,000,000
<i>Contingency (10% FPD Construction)</i>	\$1,550,000
<i>Utilities</i>	\$400,000
<i>Property Acquisition Authorized Level - Wood River</i>	\$500,000
<i>Property Acquisition Authorized Level - East St. Louis</i>	\$500,000
<i>Property Acquisition Authorized Level - Prairie Du Pont/Fish Lake</i>	\$250,000
<i>Wetland Mitigation</i>	\$27,970
<i>HazMat Mitigation</i>	\$1,500,000
<i>Legal</i>	\$300,000
<i>Corps of Engineers Authorized Level Costs</i>	\$3,500,000
<b>TOTAL CONSTRUCTION</b>	<b>\$24,027,970</b>
<b>TOTAL ENGINEERING DESIGN &amp; CONSTRUCTION</b>	<b>\$31,897,347</b>
<b>REFUND OF SURPLUS FUNDS TO COUNTY FPD ACCOUNTS</b>	<b>\$2,500,000</b>
<b>Operations &amp; Financing</b>	
<i>General &amp; Administrative</i>	\$291,200
<i>Debt Service</i>	\$10,876,570
<i>Interest Rate Subsidy</i>	(\$850,070)
<i>Professional Services</i>	
<i>Legal</i>	\$322,500
<i>Financial Advisor</i>	\$65,000
<i>Bond Trustee</i>	\$12,000
<b>TOTAL OPERATIONS</b>	<b>\$10,717,200</b>
<b>TOTAL EXPENSES</b>	<b>\$45,114,547</b>

Table 3

**Estimated Revenues 7.1.2018 - 9.30.2019**

<b>Fund Sources</b>	
<i>Cash on hand (6/30/2018)</i>	\$1,014,595
<i>2010 Bond Project Funds (6/30/2018)</i>	\$0
<i>2015 Bond Project Funds (6/30/2018)</i>	\$34,227,170
<i>County FPD Tax Funds. (6/30/2018)</i>	\$31,060,526
<i>County FPD Tax Funds. (7/1/2018-9/30/2019)</i>	\$2,500,000
<i>Sales Tax Revenue (7/1/2018-9/30/2018)</i>	\$3,155,000
<i>Interest Income (7/1/2018-9/30/2018)</i>	\$168,810
<i>Federal Interest Subsidy (September 2018)</i>	\$425,035
<i>Sales Tax Revenue (10/1/2018-9/30/2019)</i>	\$12,475,000
<i>Interest Income (10/1/2018-9/30/2019)</i>	\$280,000
<b>Total Available Funds</b>	<b>\$85,306,136</b>

**Estimated Expenditures 7.1.2018 - 9.30.2019**

<b>Expenditures</b>	
<i>Engineering Design and Construction Mgmt. (7/1/2018-9/30/2018)</i>	\$781,736
<i>Construction (7/1/2018-9/30/2018)</i>	\$45,639
<i>Professional Services (7/1/2018-9/30/2018)</i>	\$85,000
<i>General &amp; Administrative (7/1/2018-9/30/2018)</i>	\$79,835
<i>Engineering Design and Construction Mgmt. (10/1/2018-9/30/2019)</i>	\$7,869,377
<i>Construction (10/1/2018-9/30/2019)</i>	\$24,027,970
<i>Professional Services (10/1/2018-9/30/2019)</i>	\$399,500
<i>County FPD Tax Funds. (7/1/2018-9/30/2019)</i>	\$2,500,000
<i>Debt Service (10/1/2018-9/30/2019)</i>	\$10,026,500
<i>General &amp; Administrative (10/1/2018-9/30/2019)</i>	\$291,200
<b>Estimated Expenditures</b>	<b>\$46,106,757</b>
<b>Net Estimated Available Funds on 9/30/2019</b>	<b>\$39,199,379</b>

Table 4

***Current Estimated Authorized Level Funding***

<b>Authorized Level Funding</b>	
<i>Design FY2016</i>	\$2,015,926
<i>Design FY 2017</i>	\$3,179,909
<i>Design FY 2018</i>	\$1,848,728
<i>Design &amp; CM FY 2019 Budgeted</i>	\$7,634,377
<i>Concrete Pipe Change Orders</i>	\$9,131,564
<i>B.P. #7B Wood River Deep Cutoff Wall</i>	\$14,919,724
<i>FPD Construction FY2018</i>	\$75,635
<i>FPD Construction FY2019 Budgeted</i>	\$18,700,000
<i>Previous Corps Funding</i>	\$3,154,435
<i>Corps of Engineers Funding FY 2016</i>	\$2,439,618
<i>Corps of Engineers Funding FY 2017</i>	\$7,152,000
<i>Corps of Engineers Funding FY 2018</i>	\$207,000
<i>Corps of Engineers Funding FY 2019 Budgeted</i>	\$3,500,000
<i>Net Available Funds (9/30/2019)</i>	\$39,199,379
<b>Current Estimated Authorized Level Funding</b>	<b>\$113,158,295</b>

***Current Estimated Authorized Level Costs***

<b>Authorized Level Costs</b>	
<i>Wood River - (Current Corps Preliminary Estimate)</i>	\$83,040,000
<i>MESD - (Corps Certified Final Cost)</i>	\$156,313,000
<i>Prairie Du Pont/Fish Lake - (Corps Certified Final Cost)</i>	\$50,925,000
<b>Current Total Estimated Cost</b>	<b>\$290,278,000</b>
<i>Less 65% Corps Funding for Wood River &amp; MESD</i>	<u>\$155,579,450</u>
<i>Remaining Non-Federal Share</i>	<b>\$134,698,550</b>
<i>Current Estimated Authorized Level Funding</i>	<b>\$113,158,295</b>
<b>Current Estimated Shortfall</b>	<b>\$21,540,255</b>

He indicated, the Authorized Level was early in the process, and there were many things that could affect this shortfall of funds:

1. The Corps utilization of the Risk Informed Design Process could reduce costs.
2. As projects are better defined, designed, and bid, estimates could be reduced, such as was the case with the 100-Year Project, where early estimates were \$160 million dollars and the project came in at around \$120 million dollars.
3. Sales tax revenues have been increasing greater than projected, and if the trend were to continue, there should be ability to issue additional bonds in the future, which could provide additional funds.
4. A lot depends on how quickly the Corps of Engineers receives funding for their 65% share of eligible costs. Continued delays in receiving funds will increase project costs due to inflation of labor and material costs. At this time, the Corps is hoping to receive FY 2019 Work Plan funds.

The tables and the draft budget illustrated the Council would meet its goal of achieving FEMA certification with the revenue available from the dedicated FPD sales tax and have significant funds available for Authorized Level improvements.

Easements, high river stages, and construction delays pushed accreditation back, but accreditations would be achieved in 2019.

He indicated, after considering any comments or suggestions over the next month, a final FY 2019 budget will be presented at the August Board meeting for adoption and forwarding to the county boards for their approval.

There was a brief discussion on what was driving the sales tax increases. Mr. Etwert indicated it was due to increased sales and again pointed out that sales had increased to new high levels for the last eighteen months. He believed the 2015 Bond Issue projected an annual increase of 1%. The increase last year was 4.16%, and so far this year it is 3.07%. This is great trend and if it were to continue, additional bonds could be issued to cover a potential fund shortage. Columbia Capital, the Council's financial advisor, will probably be at the September meeting to update the Board on the financial status of the Council and potential future bond issuance.

The Corps of Engineers not receiving FY 2018 Work Plan funds, as hoped this past May, was discussed next. The Corps now hopes to receive FY 2019 Work Plan funds, however, it probably won't find out until May of 2019.

Chairman Prenzler questioned why the area wasn't receiving funds, especially when it has been identified as a priority with a large population protected. Mr. Etwert agreed, the population and infrastructure that is being protected has to be one of the largest in the country, but the area

cannot get funds. Mr. Feldmann indicated, it isn't a Corps decision, the appropriations come to the Corps. He indicated that communications of need take time but eventually it does take effect. The area was in the same situation several years ago and funds were eventually received. The Corps is working on communication and the vision of the project to improve the opportunity to obtain an appropriation. They are keeping everyone informed of their capabilities and readiness.

There was a brief discussion regarding levee districts upstream increasing levee heights and flood control that could affect the Metro East levees and the Corps responsibility in these situations.

Mr. Feldmann indicated most of those levees were federally constructed and are privately owned and operated similar to the Metro East levees. The Corps has an inspection program and the ability to repair levees after a flood under the PLA 84-99 Program. This is the enforcement program the Corps has ensure levees are properly maintained, the rest of floodplain management is a state responsibility. The Corps works together with the states, but the states are responsible for enforcement of how the infrastructure is operated. The Corps does have a hydraulic model for a portion of the upper Mississippi River, which helps define the impact of a project.

Mr. Prenzler expressed his concern and wanted the Council to be on record, to the Corps of Engineers, regarding improvements upstream which could affect the Metro East levees. Mr. Feldmann indicated that the Corps works with the Upper Mississippi River Basin Association regarding this issue.

Mr. Etwert indicated that the Council was on record and proceeded to read the letter he had sent to Colonel Anthony Mitchell, District Commander, St. Louis District, on June 22, 2016, which stated the following:

At the Southwestern Illinois Flood Prevention District Council meeting last week, St Clair County Chairman Mark Kern expressed his concern regarding land and levee improvements upstream from the Metro East area, which could have an adverse effect on the Metro East levees.

The Council would like to be proactive, if such a situation would arise, therefore, please accept this letter as the Southwestern Illinois Flood Prevention District Council's request to be notified immediately of any potential improvements to land or levees upstream from the Metro East area that would adversely affect the flood prevention capabilities of the levees in the American Bottom area.

As the Council completes the FEMA 100-Year Accreditation Projects and begins work on the Authorized Level of Protection Projects, the Corps' oversight of upstream improvements is appreciated.

He then indicated the Metro East levee were originally constructed to the proper Authorized Level elevation. The improvements, the Council is doing is to stabilize the levees, no levee is being raised and forcing floodwater on others.



There was a brief discussion regarding the twenty-five year anniversary of the 1993 flood event and the Council's effort to achieve the Corps' Authorized Level.

Mr. Etwert indicated, currently it is estimated the Council will have \$113,158,295 towards the Authorized Level. Based on current Corps of Engineers' estimates, the Council would have a shortfall of \$21,540,255. The current Corps of Engineers estimate for the Authorized Level is \$290,278,000, of which, \$134,698,550 is the non-Federal share.

Mr. Conrad asked for a motion to accept Mr. Etwert's report on the Draft FY 2019 Flood Prevention District Council Budget. A motion was made by Mr. Motil, with a second by Mr. Brinkman to accept Mr. Etwert's report on the Draft FY 2019 Flood Prevention District Council Budget. Dr. Moore called the roll and the following votes were made on the motion:

Mr. Brinkman – Aye  
Mr. Conrad - Aye  
Dr. Moore – Aye  
Mr. Motil – Aye  
Mr. Parks – Aye  
Mr. Plank - absent

The motion was approved unanimously.

**Wood Work Order #18 - Amendment #2  
MESD Cutoff Wall Utility/Easement Assistance**

Mr. Conrad asked Mr. Cook to explain this item.

Mr. Cook explained the amendment to Work Order #18, for easement appraisal, preparation and negotiations for the easements required by the Corps of Engineers for the Corps' East St. Louis Deep Cutoff Wall Project.

The initial effort was to address the first phase of the required land acquisition in conjunction with the Corps receiving funding this year. As previously discussed the Corps didn't receive any funding, but is proceeding with the total design of the project for future funding. This amendment is to cover the rest of the land acquisition and utility coordination needed for the remainder of the East St. Louis Deep Cutoff Wall Project. The cost of the amendment is \$160,000.

A copy of Work Order #18 Amendment #2 was provided with the agenda package.

Mr. Etwert indicated this completes everything needed for the Corps to build a very large portion of the Deep Cutoff Wall, which is estimated to cost between forty and fifty million.

It was requested that the Chief Supervisor be authorized to execute Work Order #18 Amendment #2 with Wood Environment & Infrastructure Inc. for MESD Cutoff Wall Utility/Easement Assistance required for the East St. Louis Deep Cutoff Wall, in the amount of \$160,000.00.

Mr. Conrad asked for a motion to execute Work Order #18 Amendment #2 with Wood Environment & Infrastructure Inc. for MESD Cutoff Wall Utility/Easement Assistance required for the East St. Louis Deep Cutoff Wall, in the amount of \$160,000.00. A motion was made by Mr. Parks, with a second by Mr. Conrad to execute Work Order #18 Amendment #2 with Wood Environment & Infrastructure Inc. for MESD Cutoff Wall Utility/Easement Assistance required for the East St. Louis Deep Cutoff Wall, in the amount of \$160,000.00. Dr. Moore called the roll and the following votes were made on the motion:

Mr. Brinkman – Aye  
Mr. Conrad - Aye  
Dr. Moore – Aye  
Mr. Motil – Aye  
Mr. Parks – Aye  
Mr. Plank - absent

The motion was approved unanimously.

### **Corps of Engineers Update**

Mr. Conrad asked Mr. Feldmann to provide the report from the Corps.

Mr. Feldmann provided an update of the current activities of the Corps using a PowerPoint® presentation to illustrate his remarks. His presentation focused on the status of the Metro East Projects as follows:

### **USACE UPDATE**

#### **Project Status**

- FY18 Funding Summary
- Wood River Cutoff Wall Option
- Wood River Re-Programming to East St. Louis
- Wood River Risk Assessment/Supplemental Report Status

- East St. Louis Cutoff Wall Status
- East St. Louis WIK Credit Status
- FEMA Submittals
  - Upper Wood River – Response to FEMA June 18
  - East St. Louis (MESD) – Continue resolving as-builts and O&M manuals
- Mel Price Project Status

He noted that his presentation lined up with everything that had been presented earlier, which reflects the good coordination between the Corps and the Council.

Mr. Etwert asked Mr. Feldmann when the new preliminary cost estimate for Wood River would be issued. He indicated the scope should be available in July with the cost estimate in August or September. Mr. Etwert indicated Ms. Kelsey had previously indicated the preliminary cost estimate would be available in July. He then indicated, there is a certification process that will occur in September and the preliminary cost estimate may be available earlier.

Chairman Kern requested an updated schedule for the Mel Price Project. Ms. Kelsey indicated the plans were complete and the Corps was just waiting for funding. Mr. Feldmann indicated the Mel Price Project consisted of relief wells and not a deep cutoff wall.

Mr. Conrad asked for a motion to accept the Corps of Engineers report. A motion was made by Mr. Brinkman, with a second by Mr. Parks to receive the Corps of Engineers report. Dr. Moore called the roll and the following votes were made on the motion:

Mr. Brinkman – Aye  
 Mr. Conrad - Aye  
 Dr. Moore – Aye  
 Mr. Motil – Aye  
 Mr. Parks – Aye  
 Mr. Plank – absent

The motion was approved unanimously.

**Resolution of Appreciation for Paul D. Bergkoetter**

Mr. Conrad indicated that Mr. Bergkoetter and Mr. Polka had both complete their terms on the Council. The following resolution was presented for Paul D. Bergkoetter, representing St. Clair County:

**RESOLUTION Expressing Recognition and Appreciation to  
Paul D. Bergkoetter for Distinguished Service  
In Restoring Flood Protection in the Metro-East**

WHEREAS, Paul D. Bergkoetter has served as a Commissioner on the St. Clair County Flood Prevention District since its inception in 2008, with reappointments in 2009, 2012, and 2015; and

WHEREAS, he has served on the Board of Directors of the Southwestern Illinois Flood Prevention District Council since its inception in 2009; and

WHEREAS, he faithfully and with honor, integrity and great distinction served as Secretary/Treasurer and Vice President of the Southwestern Illinois Flood Prevention District Council; and

WHEREAS, he has provided outstanding leadership and guidance to the Southwestern Illinois Flood Prevention District Council; and

WHEREAS, his efforts have demonstrated that Counties working together can achieve much; and

WHEREAS, he has always been mindful of the goal of the Southwestern Illinois Flood Prevention District Council of achieving Federal Emergency Management Agency accreditation certifying the Metro-East levees meet federal standards; and

WHEREAS, he has worked tirelessly to avert the threat to classify the area as prone to flooding along with the terrible economic consequences of such action; and

WHEREAS, the Southwestern Illinois Flood Prevention District Council has made great progress towards meeting its goal of fully protecting the Metro-East from a 100-Year flood under his leadership; and

WHEREAS, the levees have been reconstructed and repaired to the 100-Year Level of Protection earlier and at a cost less than originally projected; and

WHEREAS, his leadership helped initiate the restoration of the federally authorized 500-Year Level of Flood Protection in the Metro-East providing the region with a higher level of flood protection and economic growth, while simultaneously completing the 100-Year Level Projects.

NOW, THEREFORE, IT IS HEREBY RESOLVED, that the Board of Directors of Southwestern Illinois Flood Prevention District Council formally acknowledges and extends its recognition and

appreciation to Paul D. Bergkoetter for his many years of service to the Southwestern Illinois Flood Prevention District Council and his efforts to provide expeditious and cost-effective flood protection to the Metro-East.

A motion was made by Mr. Parks seconded by Mr. Brinkman, to approve the Resolution of Appreciation for Paul D. Bergkoetter. Dr. Moore called the roll and the following votes were made on the motion:

Mr. Brinkman – Aye  
Mr. Conrad - Aye  
Dr. Moore – Aye  
Mr. Motil – Aye  
Mr. Parks – Aye  
Mr. Plank - absent

The motion was approved unanimously.

**Resolution of Appreciation for Ronald A. Polka**

Mr. Conrad presented the following resolution for Ronald A. Polka, representing Monroe County:

**RESOLUTION Expressing Recognition and Appreciation to  
Ronald A. Polka for Distinguished Service  
In Restoring Flood Protection in the Metro-East**

WHEREAS, Ronald A. Polka has served as a Commissioner on the Monroe County Flood Prevention District since 2011, with reappointments in 2012 and 2015; and

WHEREAS, he has served on the Board of Directors of the Southwestern Illinois Flood Prevention District Council since 2011; and

WHEREAS, he faithfully and with honor, integrity and great distinction served as a Board member of the Southwestern Illinois Flood Prevention District Council; and

WHEREAS, he has provided outstanding leadership and guidance to the Southwestern Illinois Flood Prevention District Council; and

WHEREAS, his efforts have demonstrated that Counties working together can achieve much; and

WHEREAS, he has always been mindful of the goal of the Southwestern Illinois Flood Prevention District Council of achieving Federal Emergency Management Agency accreditation certifying the Metro-East levees meet federal standards; and

WHEREAS, he has worked tirelessly to avert the threat to classify the area as prone to flooding along with the terrible economic consequences of such action; and

WHEREAS, the Southwestern Illinois Flood Prevention District Council has made great progress towards meeting its goal of fully protecting the Metro-East from a 100-Year flood under his leadership; and

WHEREAS, the levees have been reconstructed and repaired to the 100-Year Level of Protection earlier and at a cost less than originally projected; and

WHEREAS, his leadership helped initiate the restoration of the federally authorized 500-Year Level of Flood Protection in the Metro-East providing the region with a higher level of flood protection and economic growth, while simultaneously completing the 100-Year Level Projects.

NOW, THEREFORE, IT IS HEREBY RESOLVED, that the Board of Directors of Southwestern Illinois Flood Prevention District Council formally acknowledges and extends its recognition and appreciation to Ronald A. Polka for his many years of service to the Southwestern Illinois Flood Prevention District Council and his efforts to provide expeditious and cost-effective flood protection to the Metro-East.

A motion was made by Mr. Brinkman seconded by Mr. Conrad, to approve the Resolution of Appreciation for Ronald A. Polka. Dr. Moore called the roll and the following votes were made on the motion:

Mr. Brinkman – Aye  
Mr. Conrad - Aye  
Dr. Moore – Aye  
Mr. Motil – Aye  
Mr. Parks – Aye  
Mr. Plank - absent

The motion was approved unanimously.

### **Public Comment**

Mr. Conrad asked if there was any public comment.

Mr. Jack Norman, an appointee to the Illinois Groundwater Advisory Council, indicated at times there is a connection of what the Groundwater Advisory Council does in Springfield and what the Council does. He presented two documents, which he wanted the Council to be aware of and

he would provide to Mr. Etwert for review. The first was the “Annual Groundwater and Drinking Water Program Review Report – June 2018” published by the Illinois Environmental Protection Agency and the second was “Agriculture- A River Runs Through It- The Connections Between Agriculture and Water Quality” by the U.S. Department of the Interior and U.S. Geological Survey.

He thought there would be useful information in the documents for the Council.

Mr. Conrad thanked Mr. Norman, and Mr. Motil complimented him on his dedicated attendance at Council’s meeting over the years.

### **Other Business**

Mr. Conrad asked if there was any further discussion.

Mr. Parks indicated that he had three items.

First, he wanted to confirm the Council has meetings scheduled for August and September. Mr. Etwert confirmed the meeting months for the rest of the year were August, September, and November.

Next, he inquired about the vacant positions on the Council and the required quorum of the Council. Mr. Etwert indicated filling the vacant positions was up to the County Chairs, and confirmed the required quorum of the Council was five members, regardless of the number of filled positions.

Lastly, he commented, he was pleased the Council was continuing to move forward towards achieving the Authorized Level of Protection. Mr. Etwert confirmed this was the Council’s goal.

He indicated the Council would build as many project as soon as it can to provide flood protection. The Council will spend its funds as soon as possible, once the Corps identifies all the necessary projects, as a result of their Risk Assessments and Risk Informed Design Process.

### **Adjournment**

Mr. Conrad asked again for any other comments or business to come before the Board. There was none. He asked for a voice vote to adjourn the meeting, and the meeting was adjourned unanimously by voice vote, with all voting aye.

Respectfully submitted,

Debra Moore,  
Secretary/Treasurer, Board of Directors







## Progress Report July 18, 2018

Southwestern Illinois Levee Systems

By Jay Martin

woodplc.com



## FEMA Certification Summary by Levee/County

Levee System	County/Flood Maps	Certification	Comments from FEMA	Resubmitted to FEMA
Upper Wood River	Madison	Submitted by USACE (March, 2017)	USACE Received November 2017	June 2018
East/West Forks	Madison	Submitted (December, 2016)	January 2018	June 2018
Lower Wood River	Madison	Submitted (October 17, 2017)	April 2018	July 2018
Metro East Sanitary District (MESD)	Madison/St Clair	Submitted to USACE (December, 2017)	USACE comments May 2018/ Resubmitted to USACE June 2018	Corps to submit to FEMA by September 1, 2018
Prairie du Pont & Fish Lake (PDP/FL)	St Clair/Monroe	Submitted (July, 2017)	January 2018	June 2018



## Authorized Level (500-Year) Design

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### Wood River (Bid Packages 8, 9, & 10)

- Bid Package 8
  - Design is ongoing
    - 27 relief wells and 1 pump station
  - USACE plans to bid this project in April 2019
- Bid Packages 9 & 10
  - On hold pending completion of USACE Risk Assessment and Supplemental Report (1 year remaining)
- Lower Wood River Risk Assessment & Supplemental Report

3

A presentation by Wood.



## Authorized Level (500-Year) Design

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### MESD (Bid Packages 11, 12, 13, 14 & 18)

- Bid Packages 11, 12, & 13
  - Relief wells and 1 pump station
  - On hold, pending USACE risk informed solutions (summer 2018)
- Bid Package 14
  - Final design underway (shallow clay trench, filter blanket)
  - Advertise for bid late 2018
- Bid Package 18 (Cahokia Relief Well Project from USACE)
  - 51 relief wells
  - Design & coordination with USACE is ongoing
  - Advertise for bid late 2018

4

A presentation by Wood.



## Authorized Level (500-Year) Design

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Prairie du Pont & Fish Lake (Bid Packages 15, 16, & 17)

- Working with USACE to validate solutions.
- Drilling planned for fall 2018 into spring 2019



**wood.**

[woodplc.com](http://woodplc.com)



**Project Status**

**Metro East Projects, IL**

- FY18 Funding Summary
- Wood River Cutoff Wall Option
- Wood River Re-Programming to East St. Louis
- Wood River Risk Assessment/Supplemental Report Status
- East St Louis Cutoff Wall Status
- East St Louis WIK Credit Status
- FEMA Submittals
  - Upper Wood River - Response to FEMA June 18
  - East St. Louis (MESD) – Continue resolving as-builts and O&M manuals
- Mel Price Project Status







Memo to: Board of Directors  
From: Chuck Etwert  
Subject: Program Status Report for August 2018  
Date: August 13, 2018

### **100-Year Certification Packages Status**

East & West Fork Levee Systems  
Resubmitted to FEMA June 29, 2018

Prairie Du Pont & Fish Lake Levee Systems  
Resubmitted to FEMA June 29, 2018

Lower Wood River Levee System  
Resubmitted to FEMA July 13, 2018

Upper Wood River Levee System  
Resubmitted to FEMA on June 18, 2018

MESD Levee System  
Corps of Engineers submittal to FEMA anticipated by August 31, 2018

To date there has been no response from FEMA on the four certification packages resubmitted during the last two months. The remaining package for the MESD Levee System, is still anticipated to be submitted by the Corps of Engineers by the end of August.

As previously indicated, FEMA has a backlog of work, with the first package originally submitted in December 2016, it is now anticipated the accreditation review and approval process may take up to eighteen months to two years. Approval of the MESD package, the last package being submitted, isn't expected until late 2019 or early 2020.

## **500-Year Authorized Level Status**

### Wood River Levee System

Wood is completing the design of Bid Package #8, which consists of 27 Relief Wells and one Pump Station, with a total estimate construction cost of \$4.3 million dollars. In order to utilize existing funds, the Corps of Engineers will be constructing Bid Package #8.

The Corps' preliminary revised cost estimate for the Wood River Authorized Level Improvements, originally anticipated to be received in July, is now anticipated to be received in August or September.

The Council has requested preliminary approval of \$16,041,496 of Work In-Kind credit for the Wood River Levee System

### MESD Levee System

The Corps of Engineers continues to complete the design of the East St. Louis Deep Cutoff Wall Project, to be ready to go, if FY 2019 Work Plan Funds are received.

Wood continues to take the Corps' design of the Cahokia Relief Well Project, estimated cost \$10.6 million dollars, and develop the Council's Bid Package #18, which will be advertised for bid later this year. It consists of 51 Relief Wells and the modification to the Cahokia Pump Station.

Wood is also continuing the design of Bid Package #14, a shallow clay trench and filter blanket with an estimated construction cost of \$4.3 million dollars, which will also be advertised for bid later this year.

The Council has already received preliminary approval for \$9,131,565 of Work In-Kind credit for the MESD Levee System and has also submitted an additional Work In-Kind credit request for \$3,283,840.

### Prairie Du Pont/Fish Lake Levee Systems

Wood is continuing the design of Bid Packages #15, #16, and #17. Discussions with the Corps of Engineers, about the Authorized Level berm designs, are continuing. Once discussions are complete, a design, bid date schedule, and revised cost estimate will be developed.

The Corps' requirement of a Risk Assessment & Supplemental Report in Wood River, the utilization of the Risk Informed Design Process in MESD, and lack of funding has delayed the Authorized Level design and construction. However, the Council continues to work with the Corps to get projects built as soon as possible.





Memo to: Board of Directors  
From: Chuck Ewert  
Subject: Budget and Disbursement Reports for July 2018  
Date: August 13, 2018

Current Budget Highlights

Attached is the financial statement for July 2018 prepared by our fiscal agent, CliftonLarsonAllen. The report include an accounting of revenues and expenditures for the month ending July 31, 2018, as compared to our fiscal year budget.

Accrued expenditures for the current fiscal year beginning on October 1, 2017 are \$17,655,889, while revenues amounted to \$10,630,693 resulting in a deficit of \$7,025,196. A total of \$31,060,526 is held by the counties in their respective FPD sales tax funds and will be needed by the Council for the 500-Year Authorized Level of Protection

Monthly sales tax receipts of \$1,102,138 for May 2018 (the latest month reported by the Illinois Department of Revenue) were up 5.45% from last year. This is the highest amount ever collected in May and is the nineteenth month in a row with the highest receipts collected for that particular month. Receipts are up 3.59% from last year, which was our highest year.

Monthly Disbursements

Attached is the list of bank transactions for July 2018. Total disbursements for the month were \$182,706.61. The largest payments were to Wood, East West Gateway, and Husch Blackwell.

Recommendation:

Accept the budget report and disbursements for July 2018.





**SOUTHWESTERN ILLINOIS FLOOD PREVENTION  
DISTRICT COUNCIL**

**GENERAL FUND  
STATEMENT OF REVENUES AND EXPENDITURES – BUDGET AND ACTUAL**

**TEN MONTHS ENDED JULY 31, 2018 AND 2017**





**CliftonLarsonAllen**

CliftonLarsonAllen LLP  
www.cliftonlarsonallen.com

Board Members  
Southwestern Illinois Flood Prevention District Council  
Collinsville, Illinois

Management is responsible for the accompanying General Fund Statement of Revenues and Expenditures of Southwestern Illinois Flood Prevention District Council (the "Council") for the ten months ended July 31, 2018 and 2017, in accordance with accounting principles generally accepted in the United States of America. We have performed compilation engagements in accordance with Statements on Standards for Accounting and Review services promulgated by the Accounting and Review Services Committee of the American Institute of certified Public Accountants. We did not audit or review the financial statements nor were we required to perform any procedures to verify the accuracy or completeness of information provided by management. Accordingly, we do not express an opinion a conclusion, nor provide any form of assurances on these financial statements.

Management has omitted the management discussion and analysis. Such missing information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context.

Management has not presented government-wide financial statements to display the financial position and changes in financial position of its governmental activity. Accounting principles generally accepted in the United States of America require the presentation of government-wide financial statements. The change in fund balance for the Council's governmental activity is not reasonably determinable.

Management has not presented a balance sheet for the general fund. Accounting principles generally accepted in the United States of America require the presentation of a balance sheet for each fund contained in the financial statements. The amounts that would be reported in a balance sheet of the general fund for the Council are not reasonably determinable.

Management has not presented a change in fund balance on the Statement of Revenues and Expenditures – Budget and Actual. Accounting principles generally accepted in the United States of America require the Statement of Revenues, Expenditures and Changes in Fund Balance include a presentation of changes in fund balance. The amounts that would be reported in government-wide financial statements for the Council's governmental activity is not reasonably determinable.

Management has also elected to omit substantially all of the disclosures required by generally accepted accounting principles. If the omitted disclosures were included with the financial statements, they might influence the user's conclusions about the Council's results of operations. Accordingly, these financial statements are not designed for those who are not informed about such matters.

The accompanying original and final budget amounts presented on the General Fund Statement of Revenues and Expenditures – Budget and Actual presented for the year ending September 30, 2018 and 2017, have not been compiled or examined by us, and, accordingly, we do not express an opinion or any other form of assurance on them.

We are not independent with respect to Southwestern Illinois Flood Prevention District Council.

A handwritten signature in black ink that reads "Clifton Larson Allen LLP". The signature is written in a cursive, flowing style.

CliftonLarsonAllen LLP

St. Louis, Missouri  
August 2, 2018

**SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL  
GENERAL FUND  
STATEMENT OF REVENUES AND EXPENDITURES - BUDGET AND ACTUAL  
TEN MONTHS ENDED JULY 31, 2018 (Actual)  
FISCAL YEAR ENDING SEPTEMBER 30, 2018 (Budget)**

	BUDGET		ACTUAL	VARIANCE WITH FINAL BUDGET
	ORIGINAL	FINAL		POSITIVE (NEGATIVE)
<b>REVENUES</b>				
Sales Tax Proceeds From Districts	\$ 11,835,000	\$ 11,835,000	\$ 10,053,730	\$ 1,781,270
Interest Income	225,000	225,000	576,963	(351,963)
Other Contributions	-	-	-	-
Total Revenues	<u>12,060,000</u>	<u>12,060,000</u>	<u>10,630,693</u>	<u>1,429,307</u>
<b>EXPENDITURES</b>				
Current				
Design and Construction				
Engineering Design & Construction Management	5,688,038	5,688,038	2,324,440	3,363,598
Construction	7,330,945	7,330,945	2,717,115	4,613,830
Construction and design by US ACE	6,157,291	6,157,291	207,000	5,950,291
Total Design and Construction	<u>19,176,274</u>	<u>19,176,274</u>	<u>5,248,555</u>	<u>13,927,719</u>
Professional Services				
Legal & Legislative Consulting	486,000	486,000	128,584	357,416
Diversity Program Manager	11,525	11,525	6,600	4,925
Financial Advisor	65,000	65,000	13,410	51,590
Bond Underwriter/Conduit Issuer	16,000	16,000	7,942	8,058
Total Professional Services	<u>578,525</u>	<u>578,525</u>	<u>156,536</u>	<u>421,989</u>
Refund of Surplus Funds to County FPD Accounts				
Madison County	1,459,170	1,459,170	813,376	645,794
Monroe County	141,990	141,990	80,851	61,139
St. Clair County	1,398,840	1,398,840	789,674	609,166
Total Refund of Surplus Funds to County	<u>3,000,000</u>	<u>3,000,000</u>	<u>1,683,901</u>	<u>1,316,099</u>
Debt Service				
Principal and Interest	10,798,620	10,798,620	10,784,424	14,196
Federal Interest Subsidy	(847,340)	(847,340)	(425,035)	(422,305)
Total Debt Service	<u>9,951,280</u>	<u>9,951,280</u>	<u>10,359,389</u>	<u>(408,109)</u>
Total Operating Expenses	<u>32,706,079</u>	<u>32,706,079</u>	<u>17,448,381</u>	<u>15,257,698</u>
General and Administrative Costs				
Salaries, Benefits	203,000	203,000	156,797	46,203
Bank Service Charges	1,500	1,500	704	796
Conference Registration	350	350	307	43
Equipment and Software	2,000	2,000	2,889	(889)
Fiscal Agency Services	31,000	31,000	25,600	5,400
Audit Services	16,000	16,000	16,000	-
Meeting Expenses	1,000	1,000	-	1,000
Postage/Delivery	1,000	1,000	670	330
Printing/Photocopies	3,500	3,500	1,471	2,029
Professional Services	10,000	10,000	-	10,000
Publications/Subscriptions	250	250	-	250
Supplies	3,300	3,300	386	2,914
Telecommunications/Internet	3,000	3,000	1,793	1,207
Travel	5,000	5,000	407	4,593
Insurance	1,000	1,000	484	516
Total General & Administrative Costs	<u>281,900</u>	<u>281,900</u>	<u>207,508</u>	<u>74,392</u>
Total Expenditures	<u>32,987,979</u>	<u>32,987,979</u>	<u>17,655,889</u>	<u>15,332,090</u>
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES	(20,927,979)	(20,927,979)	(7,025,196)	13,902,783
OTHER FINANCING SOURCES				
Proceeds From Borrowing	-	-	-	-
NET CHANGE IN FUND BALANCE	<u>\$ (20,927,979)</u>	<u>\$ (20,927,979)</u>	<u>\$ (7,025,196)</u>	<u>\$ 13,902,783</u>

**SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL  
GENERAL FUND  
STATEMENT OF REVENUES AND EXPENDITURES - BUDGET AND ACTUAL  
TEN MONTHS ENDED JULY 31, 2017 (Actual)  
FISCAL YEAR ENDING SEPTEMBER 30, 2017 (Budget)**

	BUDGET		ACTUAL	VARIANCE WITH FINAL BUDGET POSITIVE (NEGATIVE)
	ORIGINAL	FINAL		
<b>REVENUES</b>				
Sales Tax Proceeds From Districts	\$ 11,750,000	\$ 11,750,000	\$ 9,682,187	\$ 2,067,813
Interest Income	640,000	640,000	585,200	54,800
Other Contributions	-	-	-	-
Total Revenues	<u>12,390,000</u>	<u>12,390,000</u>	<u>10,267,387</u>	<u>2,122,613</u>
<b>EXPENDITURES</b>				
Current				
Design and Construction				
Engineering Design & Construction Management	9,197,055	9,197,055	3,680,893	5,516,162
Construction	22,840,515	22,840,515	11,682,168	11,158,347
Construction and design by US ACE	5,760,115	5,760,115	3,803,500	1,956,615
Total Design and Construction	<u>37,797,685</u>	<u>37,797,685</u>	<u>19,166,561</u>	<u>18,631,124</u>
Professional Services				
Legal & Legislative Consulting	458,500	458,500	261,519	196,981
Diversity Program Manager	25,000	25,000	-	25,000
Financial Advisor	65,000	65,000	13,720	51,280
Bond Underwriter/Conduit Issuer	12,000	12,000	9,587	2,413
Total Professional Services	<u>560,500</u>	<u>560,500</u>	<u>284,826</u>	<u>275,674</u>
Refund of Surplus Funds to County FPD Accounts				
Madison County	1,911,400	1,911,400	741,819	1,169,581
Monroe County	202,080	202,080	76,732	125,348
St. Clair County	1,886,520	1,886,520	731,121	1,155,399
Total Refund of Surplus Funds to County	<u>4,000,000</u>	<u>4,000,000</u>	<u>1,549,672</u>	<u>2,450,328</u>
Debt Service				
Principal and Interest	10,725,020	10,725,020	10,725,020	-
Federal Interest Subsidy	(848,250)	(848,250)	(423,670)	(424,580)
Total Debt Service	<u>9,876,770</u>	<u>9,876,770</u>	<u>10,301,350</u>	<u>(424,580)</u>
Total Operating Expenses	<u>52,234,955</u>	<u>52,234,955</u>	<u>31,302,409</u>	<u>20,932,546</u>
General and Administrative Costs				
Salaries, Benefits	203,000	203,000	170,350	32,650
Bank Service Charges	1,500	1,500	859	641
Conference Registration	350	350	307	43
Equipment and Software	2,000	2,000	-	2,000
Fiscal Agency Services	30,000	30,000	24,510	5,490
Audit Services	15,500	15,500	15,500	-
Meeting Expenses	1,000	1,000	638	362
Postage/Delivery	400	400	734	(334)
Printing/Photocopies	3,500	3,500	2,042	1,458
Professional Services	10,000	10,000	-	10,000
Publications/Subscriptions	250	250	-	250
Supplies	3,300	3,300	1,938	1,362
Telecommunications/Internet	3,000	3,000	1,798	1,202
Travel	5,000	5,000	318	4,682
Insurance	1,000	1,000	485	515
Total General & Administrative Costs	<u>279,800</u>	<u>279,800</u>	<u>219,479</u>	<u>60,321</u>
Total Expenditures	<u>52,514,755</u>	<u>52,514,755</u>	<u>31,521,888</u>	<u>20,992,867</u>
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES	(40,124,755)	(40,124,755)	(21,254,501)	18,870,254
OTHER FINANCING SOURCES				
Proceeds From Borrowing	-	-	-	-
NET CHANGE IN FUND BALANCE	<u>\$ (40,124,755)</u>	<u>\$ (40,124,755)</u>	<u>\$ (21,254,501)</u>	<u>\$ 18,870,254</u>



# Flood Prevention District Sales Tax Trends 2009-2018

	Jan	Feb	March	April	May	June	July	August	Sept	October	November	December	Total	County Share
<b>2009</b>														
Total Month	\$691,588	\$732,364	\$859,811	\$824,537	\$874,802	\$900,479	\$849,401	\$849,169	\$868,594	\$859,754	\$893,068	\$1,124,290	\$10,327,857	
Total Month	\$757,374	\$808,220	\$960,768	\$946,214	\$924,312	\$953,709	\$895,275	\$898,581	\$886,633	\$902,537	\$946,242	\$1,167,140	\$11,047,005	
<b>2010</b>														
<b>2011</b>														
Madison	\$380,021	\$383,976	\$460,129	\$454,562	\$466,904	\$477,396	\$436,637	\$473,303	\$448,256	\$444,204	\$455,842	\$538,000	\$5,419,230	48.108%
St. Clair	\$363,984	\$395,231	\$455,562	\$437,820	\$436,490	\$475,972	\$433,460	\$433,777	\$441,030	\$412,793	\$451,390	\$594,129	\$5,331,638	47.330%
Monroe	\$38,315	\$34,759	\$41,192	\$44,975	\$41,786	\$45,836	\$44,887	\$43,323	\$42,564	\$42,690	\$42,252	\$51,266	\$513,845	4.562%
Total Month	\$782,320	\$813,966	\$956,883	\$937,357	\$945,180	\$999,204	\$914,984	\$950,403	\$931,850	\$899,687	\$949,484	\$1,183,395	\$11,264,713	
Cumulative Total	\$782,320	\$1,596,286	\$2,553,169	\$3,490,526	\$4,435,706	\$5,434,910	\$6,349,894	\$7,300,297	\$8,232,147	\$9,131,834	\$10,081,318	\$11,264,713		
<b>2012</b>														
Madison	\$381,470	\$406,476	\$473,049	\$471,191	\$481,989	\$477,254	\$427,562	\$434,603	\$428,193	\$428,521	\$429,127	\$523,240	\$5,362,675	47.481%
St. Clair	\$361,727	\$415,491	\$468,490	\$432,173	\$468,782	\$473,567	\$425,923	\$441,838	\$438,184	\$424,289	\$454,916	\$589,183	\$5,394,563	47.763%
Monroe	\$37,471	\$38,904	\$46,086	\$46,051	\$46,231	\$45,671	\$43,063	\$45,307	\$45,641	\$46,230	\$45,429	\$51,062	\$537,146	4.756%
Total Month	\$780,668	\$860,871	\$987,625	\$949,415	\$997,002	\$996,492	\$896,548	\$921,748	\$912,018	\$899,040	\$929,472	\$1,163,485	\$11,294,384	
Cumulative Total	\$780,668	\$1,641,539	\$2,629,164	\$3,578,579	\$4,575,581	\$5,572,073	\$6,468,621	\$7,390,369	\$8,302,387	\$9,201,427	\$10,130,899	\$11,294,384		
<b>2013</b>														
Madison	\$375,398	\$383,170	\$424,507	\$425,469	\$457,212	\$451,494	\$436,686	\$442,449	\$430,541	\$429,499	\$432,541	\$500,233	\$5,189,199	47.062%
St. Clair	\$381,645	\$395,527	\$449,397	\$434,001	\$457,942	\$462,603	\$422,892	\$432,195	\$430,014	\$419,350	\$448,076	\$560,165	\$5,293,807	48.011%
Monroe	\$37,888	\$39,679	\$45,689	\$45,913	\$48,212	\$47,694	\$42,672	\$45,143	\$44,733	\$44,723	\$47,111	\$53,853	\$543,310	4.927%
Total Month	\$794,931	\$818,376	\$919,593	\$905,383	\$963,366	\$961,791	\$902,250	\$919,787	\$905,288	\$893,572	\$927,728	\$1,114,251	\$11,026,316	
Cumulative Total	\$794,931	\$1,613,307	\$2,532,900	\$3,438,283	\$4,401,649	\$5,363,440	\$6,265,690	\$7,185,477	\$8,090,765	\$8,984,337	\$9,912,065	\$11,026,316		
% change/month	1.83%	-4.94%	-6.89%	-4.64%	-3.37%	-3.48%	0.64%	-0.21%	-0.74%	-0.61%	-0.19%	-4.23%		
% change/total	1.83%	-1.72%	-3.66%	-3.92%	-3.80%	-3.74%	-3.14%	-2.77%	-2.55%	-2.36%	-2.16%	-2.37%	-2.37%	
<b>2014</b>														
Madison	\$373,895	\$383,909	\$456,964	\$457,729	\$484,657	\$491,911	\$455,629	\$454,995	\$442,808	\$447,128	\$452,169	\$521,522	\$5,423,317	47.785%
St. Clair	\$354,762	\$395,885	\$460,143	\$436,379	\$458,819	\$470,546	\$426,263	\$434,064	\$445,419	\$433,077	\$446,001	\$591,387	\$5,352,747	47.163%
Monroe	\$42,321	\$39,665	\$47,587	\$47,796	\$52,206	\$49,022	\$47,357	\$46,167	\$50,056	\$48,920	\$49,552	\$52,714	\$573,362	5.052%
Total Month	\$770,978	\$819,459	\$964,694	\$941,905	\$995,682	\$1,011,479	\$929,249	\$935,226	\$938,283	\$929,126	\$947,722	\$1,165,623	\$11,349,426	
Cumulative Total	\$770,978	\$1,590,437	\$2,555,131	\$3,497,036	\$4,492,718	\$5,504,197	\$6,433,446	\$7,368,671	\$8,306,955	\$9,236,081	\$10,183,803	\$11,349,426		
% change/month	-3.01%	0.13%	4.90%	4.03%	3.35%	5.17%	2.99%	1.68%	3.64%	3.98%	2.16%	4.61%		
% change/total	-3.01%	-1.42%	0.88%	1.71%	2.07%	2.62%	2.68%	2.55%	2.67%	2.80%	2.74%	2.93%	2.93%	







**SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL  
SUPPLEMENTARY SUPPORTING SCHEDULE  
BANK TRANSACTIONS  
JULY 30, 2018**

Beginning Bank Balance as of July 1, 2018		<b>\$ 1,013,695.04</b>
Receipts		
UMB Bank	07/17/2018 Admin Transfer	31,901.27
UMB Bank	07/17/2018 Construction Transfer	159,607.13
The Bank of Edwardsville	07/31/2018 Interest	1,389.01
		<b>\$ 192,897.41</b>
Disbursements		
CliftonLarsonAllen LLP	07/09/2018 Fiscal Agent	2,371.80
Sprague & Urban, Attorneys at Law	07/03/2018 Legal & Legislative	300.00
Wood Environment & Infrastructure Solution	07/16/2018 Construction	143,163.18
Husch Blackwell	07/16/2018 Legal & Legislative	12,766.56
East-West Gateway Council of Governments	07/19/2018 Supervisor	18,312.56
Ameren Illinois	07/11/2018 Design & Construction	2,477.39
AT&T	07/16/2018 Tablet Service	88.36
Bank of Edwardsville	07/17/2018 Wire transfer Fee	15.00
Bank of Edwardsville	07/17/2018 Wire transfer Fee	15.00
Columbia Capital	07/24/2018 Financial Advisor	900.00
Bank of Edwardsville	07/31/2018 Bank Fees	31.44
Cost Less Copy Center	07/17/2018 Printing & Copying	184.80
UMB Bank, NA	07/18/2018 Bond Trustee Fee	1,738.40
CDW Government	07/24/2018 Equipment & Software	292.12
Endicia	07/24/2018 Postage, Mailing Service	50.00
		<b>\$ 182,706.61</b>
		<b>\$ 1,023,885.84</b>





Memo to: Board of Directors  
From: Chuck Etwert  
Subject: FY 2019 Annual Budget  
Date: August 13, 2018

By law, the Council's budget must be adopted by August 31 of each year for the fiscal year beginning October 1. The budget must be submitted to the county boards for approval after which they have 30 days to act on it. A draft budget was presented to the Board of Directors at the July meeting.

The FY 2019 budget focuses on FEMA accreditation and Authorized Level design and construction.

Four certification reports have been submitted to FEMA to date. Amec Foster Wheeler submitted the Wood River East & West Forks Package in December 2016, the Prairie Du Pont/Fish Lake Package in July 2017, and the Lower Wood River in October 2017.

The Corps of Engineers submitted the Upper Wood River Package in March 2017 and will submit the MESD Package by the end of August.

FEMA comments have been received on the four packages submitted and resubmittals have been made on those four packages.

Total FEMA accreditation, based on the accreditation process to date, is not anticipated to be achieved until late 2019 or early 2020.

The recommended FY 2019 budget is shown in Table 1 and is the same as presented in July.

In general, expenditures for next year's budget are based on achieving 100-Year accreditation and the design and construction of the Authorized Level projects

All key assumptions presented with the draft budget last month remain the same.

Key assumptions are:

1. FEMA certification will be achieved during FY 2019.
2. The level of Council staffing does not change in FY 2019, and general and administrative costs continue to remain a very small portion of the project expenditures (less than 1%). Staff resources continue to be supplemented by the significant use of consulting and professional services.
3. In accordance with the bond indenture, all sales tax receipts are intercepted by the Trustee and after all financial requirements for debt, construction, and administration have been satisfied, surplus funds are transferred to each County for deposit in a County Flood Prevention District Sales Tax Fund for future Council project financing. The surplus transfers are shown as expenditures in the budget.
4. A 10% construction cost contingency is included for all construction on all projects to be built.
5. Sales tax revenue is estimated to increase by 2.00% over the estimated receipts for the current year. Our current increase level thru July of this year is 3.59%. Interest income is based on information received from our financial advisor
6. Funding for Corps of Engineers' oversight on FPD design and construction has been included. These funds, where applicable, will satisfy the Corps of Engineers' five percent cash requirement on future projects constructed by the Corps and may in some instances satisfy a small portion of the Work In-Kind requirement.
7. The Council will continue to work with levee districts in establishing funding sources, where and if needed, for the maintenance and operations of the 100-Year Improvements and Authorized Level Improvements being built. Wood has completed Life Cycle Costs Reports for the 100-Year Improvements for each of the Levee Districts. The Council will be of setting up meetings with each Levee District to discuss their individual report.
8. After all of the funds held by the Council are expended, the three County FPD sales tax funds will be used for the 500-Year Authorized Level Projects. Annual requests will be made to each County for the funding needed for the upcoming fiscal year. There is currently over thirty-one million dollars in the county FPD sales tax funds.
9. The budget has been developed to provide flexibility to coincide with the Corps of Engineers' utilization of the Risk Informed Process, the completion of a Risk Assessment & Supplemental Report for Wood River and the Corps' ability to receive future funding. Each of these items can affect project priorities and design & construction responsibilities between the Corps and Wood. Such as the recent decision, with the Council now building the Cahokia Relief Well Project designed by the Corps, and the Corps now building the Wood River Bid Package #8 designed by Wood.



Recommendation: Approve the proposed FY 2019 annual budget for the Council and authorize the Chief Supervisor to submit it to the Boards of Madison, Monroe, and St. Clair Counties as presented.



Table 1

**SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL  
PROPOSED BUDGET  
OCTOBER 1, 2018 THRU SEPTEMBER 30, 2019**

	ACTUAL EXPENDITURES		ADOPTED BUDGET		PROJECTED EXPENDITURES		PROPOSED BUDGET	
	OCTOBER 1, 2016 THRU SEPTEMBER 30, 2017		OCTOBER 1, 2017 THRU SEPTEMBER 30, 2018		OCTOBER 1, 2017 THRU SEPTEMBER 30, 2018		OCTOBER 1, 2018 THRU SEPTEMBER 30, 2019	
<b>REVENUES</b>								
Sales Tax Proceeds From Districts	\$	11,771,886	\$	11,835,000	\$	12,215,170	\$	12,475,000
Interest Income		692,386		225,000		675,241		280,000
Other Contributions						-		-
Total Revenues	\$	12,464,272	\$	12,060,000	\$	12,890,411	\$	12,755,000
<b>EXPENDITURES</b>								
Design and Construction								
Engineering Design & Construction		4,333,349		5,688,038		2,960,536		7,869,377
Management								
Construction		13,640,061		7,330,945		2,761,936		20,527,970
USACE Authorized Level Costs		7,152,000		6,157,291		207,000		3,500,000
Total Design and Construction	\$	25,125,410	\$	19,176,274	\$	5,929,472	\$	31,897,347
Professional Services								
Legal & Legislative Consulting		282,819		486,000		176,335		322,500
Diversity Program Manager		-		11,525		6,600		-
Financial Advisor		15,520		65,000		32,510		65,000
Bond Trustee Fee		9,588		16,000		11,203		12,000
Total Professional Services	\$	307,927	\$	578,525	\$	226,648	\$	399,500
Refund of Surplus Funds to County FPD Accounts								
Total Refund of Surplus Funds to County	\$	1,549,672	\$	3,000,000	\$	1,683,901	\$	2,500,000
Debt Service								
Principal and Interest		10,725,020		10,798,620		10,784,424		10,876,570
Federal Interest Subsidy		(847,340)		(847,340)		(850,070)		(850,070)
Total Debt Service	\$	9,877,680	\$	9,951,280	\$	9,934,354	\$	10,026,500
Total Design & Construction Expenses	\$	36,860,689	\$	32,706,079	\$	17,774,375	\$	44,823,347
General and Administrative Costs								
Salaries, Benefits		204,955		203,000		207,727		213,000
Bank Service Charges		1,035		1,500		942		1,200
Annual IL. Lobbyist Registration		307		350		307		-
Equipment and Software		-		2,000		2,597		2,000
Fiscal Agency Services		29,050		31,000		30,280		32,000
Audit Services		15,500		16,000		16,000		16,500
Meeting Expenses		638		1,000		-		1,000
Postage/Delivery		873		1,000		761		1,000
Printing/Photocopies		2,630		3,500		2,036		2,500
Professional Services		-		10,000		-		10,000
Publications/Subscriptions		-		250		-		-
Supplies		2,621		3,300		1,769		3,000
Telecommunications/Internet		2,969		3,000		2,255		3,000
Travel		754		5,000		807		5,000
Insurance		485		1,000		484		1,000
Total General & Administrative Costs		261,817	\$	281,900	\$	265,965		291,200
Total Expenditures		37,122,506	\$	32,987,979	\$	18,040,340		45,114,547
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES		(24,658,234)	\$	(20,927,979)	\$	(5,149,929)	\$	(32,359,547)
OTHER FINANCING SOURCES								
Proceeds From Borrowing		83,835,000		-	\$	-	\$	-
NET CHANGE IN FUND BALANCE	\$	59,176,766	\$	(20,927,979)	\$	(5,149,929)	\$	(32,359,547)





Memo to: Board of Directors

From: Chuck Etwert

Subject: Annual Report

Date: August 13, 2018

Attached is the proposed Annual Report for FY 2018. By law, the Council must submit an Annual Report to each county board describing activities for the past year. We generally submit this report with our annual request for approval of our budget.

The report simply chronicles the activities of the last year and builds on previous reports, so it is actually a summary of the Council's cumulative activities since its inception in June 2009.

Recommendation: Authorize the Chief Supervisor to submit the FY 2018 Annual Report to the county boards of St. Clair, Madison, and Monroe counties.



Southwestern Illinois Flood  
Prevention District Council

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Annual Report 2017-2018



August 15, 2018







**Southwestern  
Illinois  
Flood Prevention  
District Council**

104 United Drive  
Collinsville, IL 62234

618-343-9120

[www.floodpreventiondistrict.org](http://www.floodpreventiondistrict.org)

August 15, 2018

Hon. Robert Elmore  
Chairman, Monroe County Board of Commissioners  
100 South Main Street  
Waterloo, IL 62298

**Board of Directors**

John Conrad  
President

Ron Motil  
Vice President

Debra Moore  
Secretary-Treasurer

Bruce Brinkman  
Alvin L. Parks Jr.  
Jeremy Parks

Hon. Mark Kern  
County Board Chairman  
St. Clair County  
10 Public Square  
Belleville, IL 62220-1623

Hon. Kurt Prenzler  
County Board Chairman  
Madison County Administration Building  
157 N. Main Street, Suite 165  
Edwardsville, IL 62025-1963



Charles M. Ewert  
Chief Supervisor of  
Construction and the Works

Chairmen Elmore, Kern, and Prenzler:

Transmitted herewith is the 2017-2018 Annual Report of the Southwestern Illinois Flood Prevention District Council. The submission of this report is in satisfaction of the requirement of our authorizing statute (70 ILCS 750/40).

The Council has adopted two primary goals: to assure accreditation by the Federal Emergency Management Agency of area levee systems (limiting any economic damage to the region during the period during which accreditation is being sought) and achieving the Authorized Level of Protection to the extent possible with the funds available. The Council has continued to make great progress toward achieving both goals during the last year.

We will enter FY 2019 with all of the 100-Year Level of Protection construction bid packages having been completed. The Council is well on its way to achieving accreditation in FY 2019, using only the revenue available from the dedicated FPD sales tax. Four certification reports have been submitted to FEMA. Wood (formerly Amec Foster Wheeler) has submitted the Wood River East & West Forks Package, the Prairie DuPont/Fish Lake Package, and the Lower Wood River Package. The Corps of Engineers has submitted the Upper Wood River Package and will be submitting the East St. Louis MESD Package in the very near future.

*a regional partnership to rebuild Mississippi River flood protection*

FEMA comments have been received on the four packages submitted and responses have already been resubmitted.

FEMA is working with the Council and has indicated that it doesn't want to issue the maps twice, once before and once after the Council's completes its improvements. Therefore, FEMA isn't going to issue new maps until the Council receives certification on all of the 100-Year improvements.

The intent is to work closely with FEMA to ensure the new maps reflect the 100-Year improvements. The Council anticipates FEMA issuing new maps in 2020.

The Council continues to work with the Corps of Engineers regarding the Council's design and building of the 500-Year Authorized Level of Protection Projects. The Council intends to build the most cost effective and highest priority flood protection projects throughout the Counties of Madison, Monroe, and St. Clair, Illinois.

The Corps of Engineers will provide oversight on the design and construction of these projects, to ensure that funds expended by the Council, where applicable, will be eligible for future Work In-Kind Credit towards future Corps projects when the Corps able to obtain funding.

The Corps of Engineers continues 1) to develop the Risk Assessment and Supplemental Report for the Wood River Levee System, which is required to amend the existing Project Partnership Agreement, in order, to allow the utilization of Work In-Kind Credit, and 2) utilize a Risk Informed Design Process in the Metro East to determine which projects (based on vulnerability and effect) should be completed first.

The Council's and Corps' request to reprogram funds from the Wood River Levee System to the MESD Levee System was unsuccessful last year. The Corps of Engineers did not receive any FY 2018 Work Plan Funding for East St. Louis. They have now indicated do not want to reprogram any Wood River funds to East St. Louis. With significant progress being made on the Wood River Supplemental Report, they believe all the funds can be utilized in Wood River.

The Corps' requirement of a Risk Assessment & Supplemental Report in Wood River, the utilization of the Risk Informed Design Process in MESD, and the lack of funding has and will delay the Authorized Level design and construction. However, the Council continues to work with the Corps to get projects built as soon as possible.

The Council constructing the Cahokia Relief Well Project designed by the Corps and the Corps building Bid Package #8 designed by Wood are examples of the cooperation to achieve increased flood protection to the Metro East.

Construction has taken longer than originally anticipated, mainly due to two record flood events in 2015 and 2017. With seventy-five million dollars of flood protection improvements completed, the American Bottom area is now, by current engineering standards, protected from a 100-Year Flood event.

With the Council's interim goal of achieving FEMA accreditation well on its way, we are concentrating on the design and construction of the most critical and cost-effective projects to restore the federally authorized level of flood protection in the Metro-East.

In summary, I am pleased to report on behalf of our Board of Directors, that we continue to make progress in building and financing significant improvements to the flood protection systems in the Metro-East.

Thank you for supporting our efforts throughout the year.

Sincerely,

A handwritten signature in black ink, appearing to read "Charles M. Ewert". The signature is fluid and cursive, with the first name "Charles" being the most prominent.

Charles M. Ewert  
Chief Supervisor of Construction and the Works



## I. Introduction

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On August 15, 2007, the Federal Emergency Management Agency announced their intention to “de-accredit” the Mississippi River levee systems protecting a 174 square mile area in three Illinois counties known as the American Bottom. The practical effect of this action would be to cripple the area economically and put an enormous financial burden on businesses and residents in this area. The threat of this action by FEMA prompted a chain of events that is without precedent in the area. The result is a cooperative regional effort to improve flood protection and secure FEMA accreditation for the levee system protecting the American Bottom from flooding.

The American Bottom is an area of incalculable economic value and historical significance. It is home to some 156,000 residents. Businesses in the area employ upwards of 55,000 people. Some of the nation’s most prestigious companies have major manufacturing facilities having national significance in the area. Additionally, the area is rich in multimodal transportation assets that make it well positioned as a future center of commerce and industry.

The region’s leadership recognized that extraordinary measures were necessary to protect this economic asset and the homes and livelihoods of a large portion of the region’s population. A new revenue source was created in 2008 and a regional organization was formed to carry out an ambitious plan to maintain a level of flood protection that has been in place for some 75 years.

Acting on a plan to improve flood protection, even one that may be subject to adjustment from time to time, is an essential ingredient in helping businesses and citizens prepare for the future, to restore investor confidence in the area, and to assure taxpayers that their money is being spent effectively. The unpredictability of the Mississippi River serves as constant reminder that we need to demonstrate real progress in carrying out that plan.

The purpose of this report is to outline the activities of the Southwestern Illinois Flood Prevention District Council in 2017-2018 towards implementing flood protection improvements at the 100-Year Level of Protection and the 500-Year Level of Protection (also known as the Authorized Level).



## II. Background

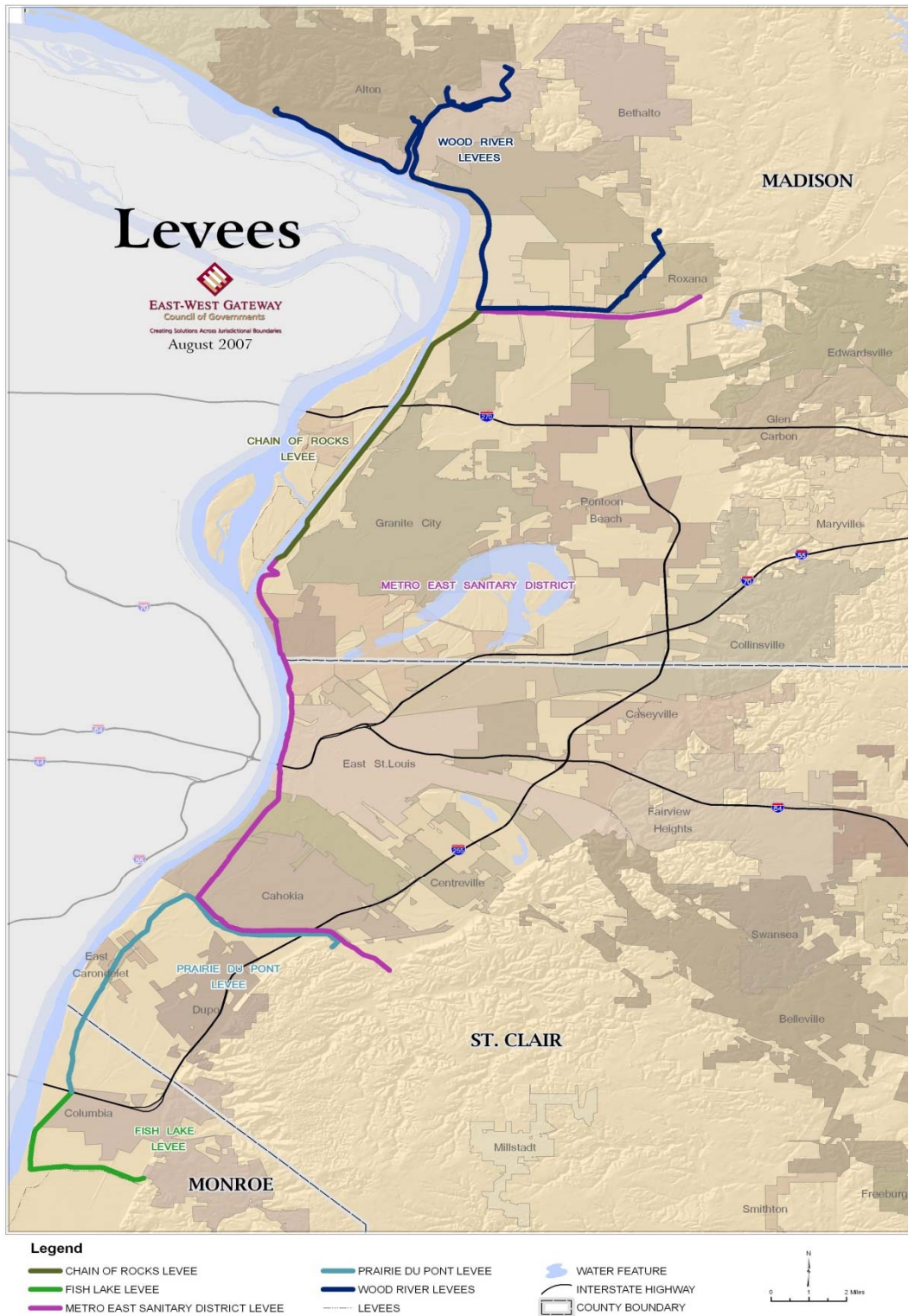
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A system of 65 miles of mainline and wing levees protects an area called the American Bottom in Southwestern Illinois from flooding by the Mississippi River. The American Bottom is an area of 174 square miles that is home to 156,000 people and 55,000 jobs. The levee system was authorized by Congress, and designed and built by the U.S. Army Corps of Engineers to provide protection from a flood event on the Mississippi River of 54 feet on the St. Louis gauge. The American Bottom has not been flooded by the Mississippi River in the 75 years since the flood protection system was initially built, including during the flood of record in 1993, reportedly as much as a 380-year event.

Mississippi River flood protection consists of five “federal” levees (see Figure 1), i.e. levees designed and built by the federal government and whose owners participate in the Corps of Engineers Public Law 84-99 emergency assistance program. The construction of the following five (5) levees was authorized in federal law:

- **Wood River Levee** - Operated and maintained by the Wood River Drainage and Levee District. Construction authorized under Section 4 of the Flood Control Act of 1938, Pub. L. 75-761, with subsequent improvement was authorized under Section 1001(20) of the Water Resources Development Act of 2007, Pub. L. 110-114 (“WRDA 2007”)
- **Chain of Rocks Canal, Levee, and Locks** - Operated and maintained by the Army Corps of Engineers. Construction authorized under the River & Harbors Act of 1945, Pub. L. 79-114
- **East St. Louis Levee** - Operated and maintained by the Metro East Sanitary District. The Flood Control Act of 1936, Pub., authorized construction. Law 74-738, as modified by the Flood Control Act of 1965, Pub. L. 89-298, and the Water Resources Development Act of 1976, Pub. L. 94-587. Subsequent improvement was authorized under the Energy and Water Development Appropriations Act of 1988, Pub. L. 100-202
- **Prairie DuPont Levee** - Operated and maintained by the Prairie DuPont Levee and Sanitary District. Construction was authorized under the Federal Flood Control Act of 1936. Subsequent improvement was authorized under Section 102(8) of the Water Resources Development Act of 2000, Pub. L. 106-541 (“WRDA 2000”) and Section 5070 of the WRDA 2007
- **Fish Lake Levee** - Operated and maintained by the Fish Lake Drainage and Levee District. The Flood Control Act of 1954 authorized construction. Subsequent improvement was authorized under Section 102(8) of WRDA 2000 and Section 5070 of WRDA 2007

The Metro-East Sanitary District (formerly the East Side Levee and Sanitary District, originally formed in 1910) is authorized by the Metro-East Sanitary District Act of 1974, 70 ILCS 2905/. The Wood River and Fish Lake Districts were authorized by the Illinois Drainage Code, 70 ILCS 605/. The Prairie DuPont District was authorized by the Sanitary District Act of 1907, 70 ILCS 2205/. The Levee Districts own and have primary responsibility for maintaining the levee systems (with the exception of the Chain of Rocks Levee, which is owned and maintained by the Corps of Engineers).



**Figure 1 –  
 Levee Systems**



The Southwestern Illinois Flood Prevention District Council was formed in 2009 through an Intergovernmental Agreement between the Flood Prevention Districts of Madison, St. Clair and Monroe counties as authorized by the Illinois Flood Prevention District Act of 2008, 70 ILCS 750/. The primary responsibility of the FPD Council is to plan, finance, design, and build capital improvements to the levee system. The Council's interim goal is to assure accreditation by FEMA in accordance with criteria described in 44 CFR 65.10 – Mapping of Areas Protected by Levee Systems. The Council's long-term goal is to achieve the Authorized Level of Protection, as defined by the Corps of Engineers.

In 2007, the Corps indicated that the agency had “reduced confidence” that the levee system could protect against a flood that has a 1% chance of being equaled or exceeded in any single year (commonly referred to as a 100-year flood or a base flood) without flood fighting. FEMA's announced decision to deaccredit the levee systems in our area, which is the industrial core of the St. Louis region, was based on this assertion by the Corps. In July 2009, FEMA issued preliminary flood insurance rate maps for the area that showed the American Bottom as a flood hazard area with no protection from flooding. Appeals of those maps were submitted by a number of local governments during the 90-day period provided by law; all of those appeals were denied in September 2010.

The region's leadership did not agree with the decision by FEMA to deaccredit the levee system. A number of area governments, businesses and citizens joined to file a lawsuit challenging this decision based, in part, on the lack of any documentation of levee system deficiencies. In part as a result of that lawsuit and complaints about the mapping process across the country, FEMA agreed to revamp its mapping process and has not yet issued any new flood insurance rate maps for the area.

While the Corps built the levee systems in this area generally in the 1940s and 1950s using design standards in place at the time for a high level of flood protection, the current “design deficiencies” are measured relative to current engineering standards. The issue is not a failure of adequate maintenance by local levee districts, or any dramatic change in the condition of the levees, but primarily a change in engineering standards and in the procedures for measuring risk. The levee systems have consistently been determined to be in *acceptable* or *marginally acceptable* condition by annual and more thorough 3-year periodic inspections by the Corps.

According to its own preliminary evaluations and cost estimates, the Corps suggested that it could cost hundreds of millions of dollars to restore and maintain the authorized (54 feet flood elevation) level of flood protection. Further, the schedule to make these investments would essentially be open-ended, dependent entirely on the pace of federal appropriations. Making assumptions consistent with typical levels of federal appropriations, the project could take decades to complete. While the federal government could pay as much as 65% of the cost, it could take decades for those funds to be authorized and appropriated, so there would be significant uncertainty about the cost and schedule of the project. That continued uncertainty would impose very high costs on residents and businesses in the area, and, more importantly, would subject the area to increased flood risk.

Because of the uncertainty of federal funding and the complexity and time-consuming nature of the USACE project development process, levee improvements will be primarily locally funded. The three affected counties have imposed a ¼% sales tax to pay for the restoration of the levee system and formed a new organization, the Southwestern Illinois Flood Prevention District Council, to carry out the levee improvement project. The tax has been collected since January 2009 and currently, produces about \$12.0 million annually.



### III. FPD Council Activities

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The following describes the work of the Council over its nine-year existence. Work done this year has brought the Council much closer to meeting its objectives. The Project Timeline since the announcement of de-accreditation by FEMA is shown in Figure 2.

Over the last few of years, the greatest challenge and source of doubt about the project has been the continued involvement of the Corps of Engineers in granting permission for most of the improvements to the levee system that the Council has proposed. The Corps is an institution that moves very deliberately, is governed by elaborate and extensive guidelines and procedures, most of which apply to federally funded projects but are being applied to our locally funded project. This process caused significant delays in the design process, but most of that is now behind us. The focus has always been completing all construction as soon as possible.

The FPD Council began operations in July 2009. Since that time, the organization has:

- Completed a comprehensive inspection of the levee system
- Performed an economic analysis of the costs of mandatory flood insurance
- Provided support to local governments to appeal preliminary flood insurance rate maps,
- Conducted a design competition to determine the most cost-effective approach to assuring compliance with FEMA standards for levee system accreditation
- Sold \$94 million in bonds to pay for levee improvements.
- Completed the design of levee system improvements that will meet FEMA standards
- Developed a budget to complete the project solely with the proceeds from the FPD sales tax
- Received all required permits from state and federal agencies to proceed with construction
- Awarded contracts on the ten construction packages required to complete the project
- Completed all construction needed to achieve FEMA accreditation and submitted required certification packages to FEMA for review and approval
- Committed to restore the federally Authorized Level of Mississippi Flood River Protection in the Metro-East, designing and building the most critical and cost effective projects
- Sold an additional \$83.8 million in bonds for 500-Year Authorized Level Protection Projects
- Started designing 500-Year Authorized Level Protection Projects in Madison, Monroe, and St. Clair Counties.

The Council's general goals have been to:

- assure compliance with FEMA accreditation standards with currently available revenue sources by late 2019 (originally the end of 2015), but extended due to obtainment of easements, several high river stage events, construction alternatives & additions, and construction delays);
- minimize economic and financial hardship should the levee systems be de-accredited by FEMA; and
- build as many critical and cost effective Authorized Level Protection Projects, with the funds available, to achieve 500-Year flood level protection

Notwithstanding the Council's strong disagreements with FEMA's decision to deaccredit the Metro-East levees and the agency's continuing efforts to overturn that decision, every effort is being made to remove all doubt about compliance with FEMA accreditation criteria. In October 2010, the Council engaged a team of engineering consultants led by AMEC Environment & Infrastructure, Inc. to design and manage construction of improvements to the levee system.

Today, after years of design work, multiple levee system inspections, drilling over 2000 borings along the entire length of the levee system, and submitting thousands of pages and many gigabytes of electronic files of design documentation to the Corps of Engineers, the Council has completed the 100-Year construction. The Council has built the project, using only funds from the dedicated sales tax and has significant funds to utilize towards the 500-Year Authorized Level of Protection.

The Council has worked to comply with all relevant environmental laws and regulations. The Illinois Environmental Protection Agency has granted approval for the project under Sec. 401 of the Clean Water Act to certify that the project will not discharging pollutants into any bodies of water. Similarly, the Corps of Engineers has granted conditional approval under Sec. 404 of the Clean Water Act for mitigating the project's impact on wetlands.

The Council continues to work closely with our congressional delegation to help expedite the project and to advance legislation that would streamline future design approvals and would enable future funding of improvements to the levee system. All of the members continue to be supportive of the project and are working on our behalf to advance our interests with the Corps, with FEMA, and in Congress.

The general design features of the Proposed FEMA Certification Levee System Improvements are shown in Appendix I to this report.

In December 2015, the Council was successful with the issuance of additional sales tax revenue bonds which will generate a net \$77.5 million for the 500-Year Authorized Level of Protection Projects. It is the intent, to use these funds, to build the most cost effective and highest priority flood protection projects throughout the Counties of Madison, Monroe, and St. Clair, Illinois.

The Corps of Engineers will provide oversight on the design and construction of these projects, to ensure that funds expended by the Council will be eligible for future Work In-Kind Credit towards future Corps projects when the Corps is able to obtain funding.

The Council has accepted Authorized Level Project Summary Reports for the Wood River Levee System, the Metro East Sanitary District (MESD) Levee System, and the Prairie DuPont/Fish Lake Levee System.

The Council has adopted policies that emphasize the use of our local workforce on the construction of the project. It is the Council's policy that all contractors working on the project use a Project Labor Agreement (PLA) and comply with Illinois law regarding the use of prevailing wages. The Council also implemented a minority business and workforce utilization policy. The Council remains committed to employing local labor and local firms to the maximum extent possible on the project, and to paying fair wages and providing good working conditions for everyone working on the project.

The Corps of Engineers reviewed the Project Labor Agreement issue for over two years. The Corps agreed that PLAs can contribute to project cost savings and efficiency, however, they indicated, they cannot mandate the use of PLAs.

In June 2016, the Corps tested the use of a Best Value Tradeoff Approach for the construction of the Wood River Shallow Cutoff Wall Phase II. The evaluation criteria was to give weight to proposals that include PLAs and demonstrate the ability to achieve economy and efficiency.

The Corps originally requested 35% Council cash funding for this project, with the Council countering with a request for Work In-Kind Credit in lieu of cash. The Corps agreed to the Work In-Kind Credit but then determined that it could not be utilized until after the amendment of the Project Partnership Agreement, which would take up to a year. Therefore, the Corps decided to proceed utilizing only federal funds to build the project.

The Corps awarded the contract to Mi-Con, a division of Michels Corporation, whose proposal did not include a Project Labor Agreement (PLA). None of the four proposals received had a PLA. Therefore, per the Council's policy of requiring Project Labor Agreements on all construction contracts, the Council future participation with the Corps utilizing the Best Value Tradeoff Approach is very unlikely.

The Council is going to maximize Work In-Kind Credit work as much as possible, satisfy the 5% cash requirement by providing the Corps funds for oversight on design and construction, and construct projects 100% where the Corps' benefit cost ratio is low and Corps funds are not anticipated.

During the last two years, there have been five significant events that have impacted the 100-Year and 500-Year Levee System Improvements affecting certification, design and construction.

In December 2016, the Corps of Engineers informed the Council the Wood River Levee System amended Project Partnership Agreement, originally scheduled to be approved in January 2017, would not approved for at least two years. This delay was due to additional field information obtained during the design and construction of the 100-Year Projects and the design of the 500-Year Projects. This information indicated that the estimated cost of the Wood River Levee Systems projects would exceed the amount identified in the Wood River Levee System Reevaluation Report for Design Deficiency Corrections approved in 2011 by more than twenty percent, which requires a new decision document be approved.

A new decision document requires that a Risk Assessment and a Supplemental Report be completed, which takes twenty-four months. An amended Project Partnership Agreement for the Wood River Levee System is now scheduled to be executed sometime between May and September 2019, instead of January 2017. During this time delay, the Council has continued to accumulate eligible Work In-Kind Credit (such as the sixteen millions spent on the Wood River Deep Cutoff Wall Project), but none can be utilized until the Project Partnership Agreement is executed.

In the spring of 2017, at the end of April and the beginning of May, the Metro East area experienced its second record flood event in the last three years. The April/May flood event was the sixth highest elevation ever recorded, following the third highest flood event which occurred December/January

2016. Two record flood events, in less than two years, confirm the need for the work the Council is completing for the 100-Year accreditation and ultimately for the 500-Year Authorized Level.

All of the Council's projects performed as designed and no problems were experienced, which reflects the design and construction management provided by Amec Foster Wheeler and the performance of the Council's contractors. The April/May 2017 flood event was a good test of the improvements that have been constructed to date.

Unfortunately, the flood event delayed construction that needed to be completed, such as the East St. Louis 126 Inch Sewer Rehabilitation, the MESD clay cap project, and the four remaining relief wells in the Wood River Levee System. However, all of these projects were finally completed during FY 2018.

In May 2017, the Corps of Engineers received notification of FY 2017 Work Plan Funding and FY 2018 President's Budget Funding. The Corps received FY 2017 Work Plan Funding of \$31.7 million for the Wood River Levee System and zero dollars for the MESD Levee System. Due to the Risk Assessment and Supplemental Report mentioned earlier, the Corps of Engineers only had the ability to use about fifty percent of the \$31.7 million dollars in the Wood River area on the second phase of the Wood River Deep Cutoff Wall Project..

Therefore, the Council and the Corps of Engineers' St. Louis District both requested a portion of the funds be reprogrammed to the MESD Levee System, where the Corps of Engineers had a project (Cahokia Relief Wells) designed and ready to build. Unfortunately, after waiting almost a year, the Council was informed, with the approval of the 2018 appropriations bill, new baseline and updated reprogramming limits, the request to reprogram the Wood River funds to East St. Louis would have to be updated and resubmitted.

The Corps suggested, the Council wait until the Corps was informed of FY 2018 Work Plan Funding for the MESD Levee System. Unfortunately, the the Corps didn't receive any FY 2018 Work Plan Funds. The Corps has now indicated that it doesn't want to reprogram funds from Wood River to MESD, it would prefer to spend the funds in Wood River, utilizing a Council design and also designing and constructing a relief well project

In June 2017, the Corps of Engineers informed the Council that it would be utilizing a Risk Informed Design Process for the East St. Louis Design Deficiency Project for the Metro East Sanitary District (MESD) Levee System. The Risk Informed Design Process determines which projects (based on vulnerability and effect) should be completed first, to achieve the most effective use of available funds. In the past the Corps looked at a system in general when accessing a risk factor, now they will be providing a risk factor for individual hazards or segments. The determination of individual project risk factors changes project priorities and design responsibilities between the Corps of Engineers and Wood.

All of these events impacted the 100-Year and 500-Year Levee System Improvements affecting certification, design and construction.

Current design and construction for FY 2019 includes 1) the Corps of Engineers designing and constructing the MESD Deep Cutoff Wall Project, which was identified as the project which should

be built first by the Risk Informed Design Process (construction dependent on Corps receiving FY 2019 Work Plan Funding, 2) Wood taking the Corps' design of the Cahokia Relief Well Project and the Council constructing, 3) Wood completing the design of Wood River Bid Package #8 with the Corps of Engineers constructing, 4) Wood completing the design of MESD Bid Package #14 and the Council constructing, 5) the Corps completing construction of the Wood River Deep Cutoff Wall Phase II, 6) the Corps designing and constructing a Wood River relief well project, and 7) Wood completing the design of a portion of the Prairie DuPont/Fish Lake Bid Packages #15/16/17 and the Council constructing.

The general design features of the Wood River Levee System, the Metro East Sanitary District (MESD) Levee System and the Prairie DuPont/Fish Lake Levee System Authorized Level Projects are provided in Section V and Appendix III of this report.

In summary, progress continues in building and financing significant improvements to the flood protection systems in the Metro-East. The Council remains committed to achieving accreditation in 2019. With the continued support of the area's leadership and cooperation from the Corps of Engineers and FEMA, the Council will be able to meet any remaining challenges to completion of the 100-Year Accreditation Project and make great strides towards achieving the Authorized Level of Protection.

Figure 2  
**Project Timeline**

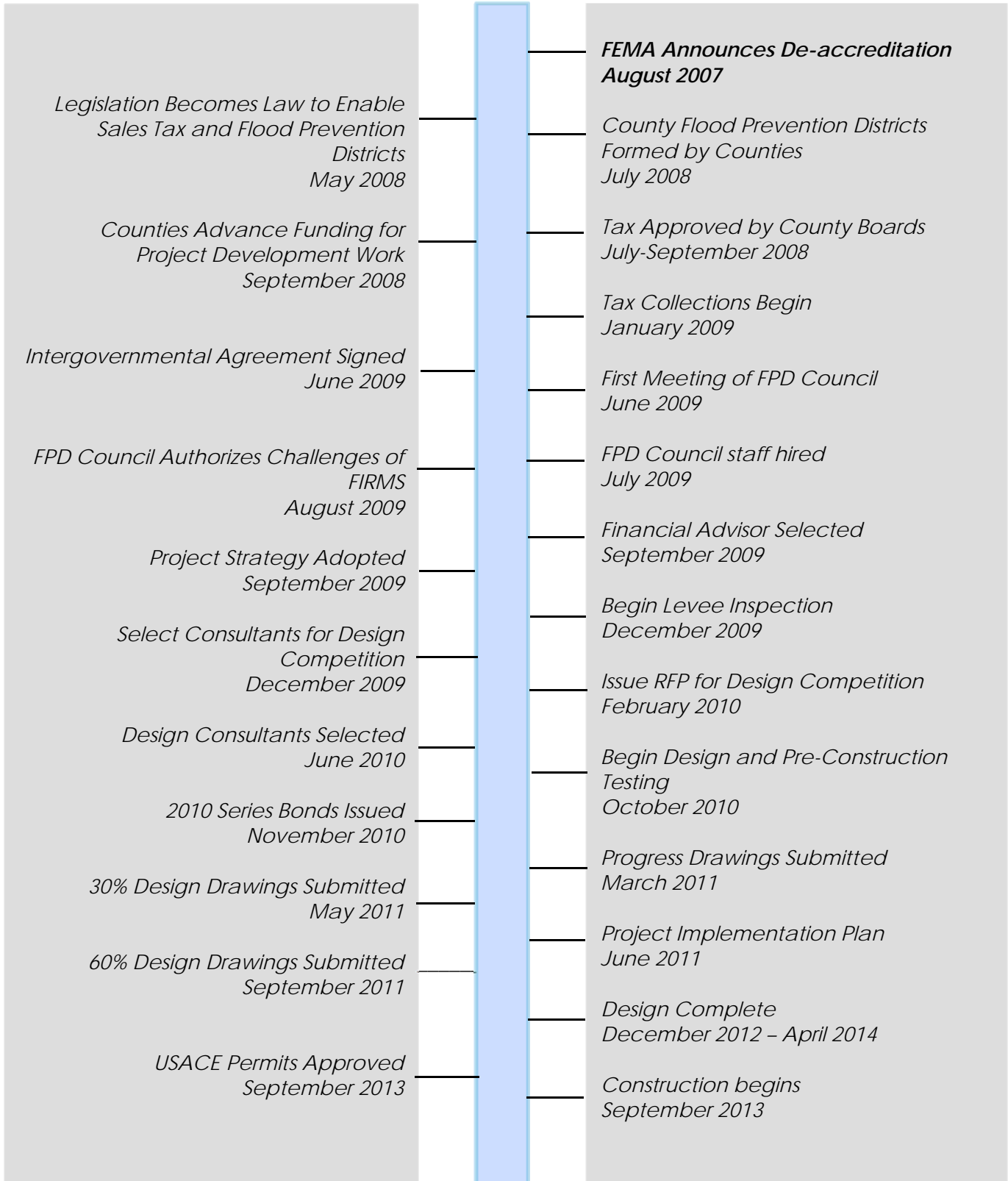
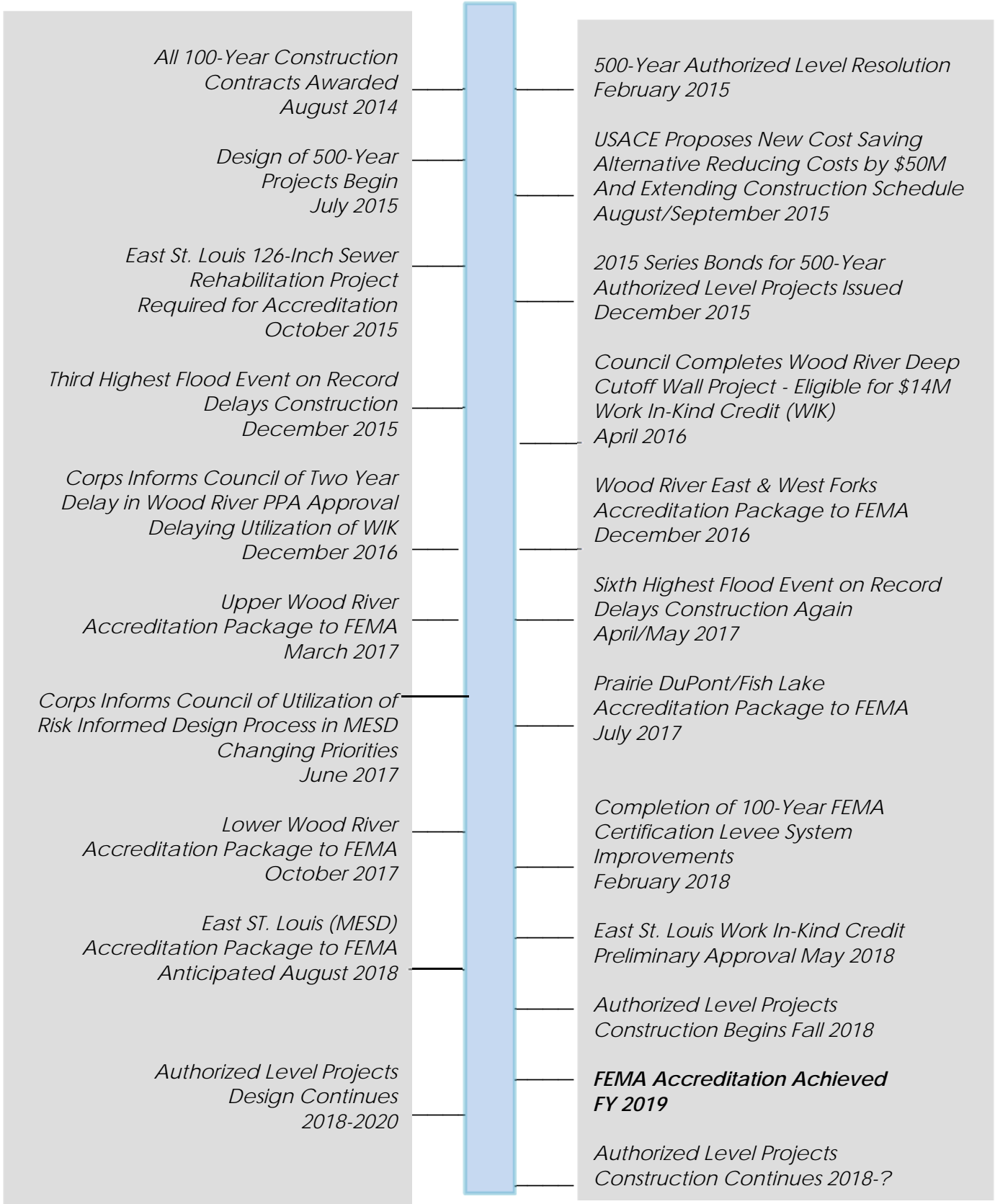




Figure 2  
**Project Timeline**





## IV. Financing and Budget

Table 1 is a financial summary of the Council’s activities through September 30, 2017, prepared by Scheffel Boyle.

Revenue from a dedicated sales tax is used to support the Council’s ongoing design and construction activities. Sales tax revenue showed substantial growth 2009 thru 2011 coming out of the recession. Growth was slowed in 2012, declined in 2013, but has reached new highs the last four years. The amount collected in 2017 was \$12,031,070. (See Figure 3).

The Council issued bonds for \$94,195,000 in November 2010. After setting aside funds for a debt service reserve and costs of issuance, \$87 million was available to fund construction of the FEMA Certification Levee System Improvements. In December 2015, additional bonds were issued providing \$77.5 million in funds for the 500-Year Authorized Level of Protection Projects. The Council will meet its goal of achieving FEMA certification in 2019 utilizing only the revenues available from the dedicated FPD sales tax.

**Figure 3**  
**Flood Prevention District Sales Tax Trends 2009-2012-2015-2016-2017**

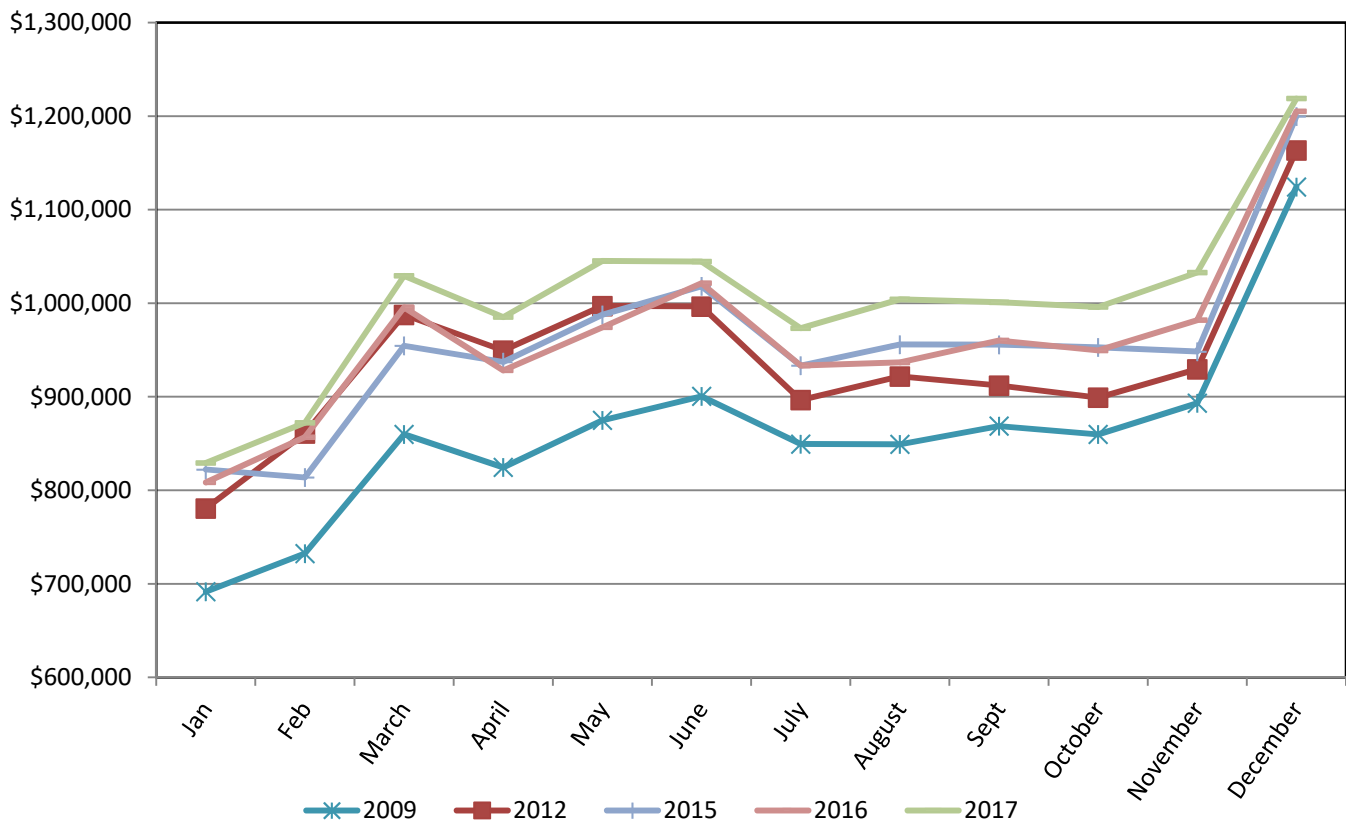


Table 1

**SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL  
STATEMENT OF REVENUES, EXPENDITURES, AND  
CHANGES IN FUND BALANCES - GOVERNMENTAL FUND  
FOR THE YEAR ENDED SEPTEMBER 30, 2017**

<b>REVENUES:</b>	
District Sales Tax	\$ 11,879,340
Less: Return of Excess Sales Tax to Districts	(1,269,990)
Interest Income	<u>593,211</u>
<b>Total Revenues</b>	<b><u>\$ 11,202,561</u></b>
 <b>EXPENDITURES:</b>	
Current:	
General and Administrative	\$ 258,898
Design and Construction	24,955,662
Professional Services	313,352
Debt Service:	
Principal	3,085,000
Interest	7,640,020
Less: Federal Interest Subsidy	(847,340)
<b>Total Expenditures</b>	<b><u>\$ 35,405,592</u></b>
<b>DEFICIENCY OF REVENUE OVER EXPENDITURES</b>	<b>\$ (24,203,031)</b>
 <b>FUND BALANCE:</b>	
Beginning of Year	<u>\$ 79,943,083</u>
End of Year	<u><u>\$ 55,740,052</u></u>

Table 2 summarizes estimated project costs for FY 2019.

Table 3 compares expenses to revenues between 7/1/2018 and 9/30/2019. The table illustrates, all 2010 Bond Issue construction funds have been spent, the amount of available 2015 Bond Issue construction funds is \$34,227,170 and total amount of individual County FPD funds is \$31,060,526.

Table 4 illustrates potential Authorized Level funding is approximately \$113 million.

Table 2

***Estimated Project Expenditures 10.1.2018 -9.30.2019***  
**Design & Construction Management**

	<b>FY 2019</b>
<b><i>Engineering Design</i></b>	
<i>W. O. #1 Program Mgmt.</i>	\$200,000
<i>W. O. #3 Preconstruction Activities</i>	\$25,000
<b><i>Authorized Level Work Orders</i></b>	
<i>W.O. #13 Wood River Field &amp; Design BP #8, BP #9, &amp; BP #10</i>	\$850,000
<i>W.O. #14 MESD Field &amp; Design</i>	\$1,800,000
<i>W.O. #16 Prairie Du Pont/Fish Lake Field &amp; Design</i>	\$3,500,000
<i>W.O. #17 Life-Cycle Cost FEMA Improvements</i>	\$10,000
<i>W.O. #18 MESD Deep Cutoff Wall Utility/Easement Assistance</i>	\$184,377
<b><i>Construction Management.</i></b>	
<i>W. O. #? Construction Management BP #14, BP #15/16/17 &amp; BP#18</i>	\$1,300,000
<b>TOTAL ENGINEERING DESIGN &amp; CONSTRUCTION MGMT.</b>	<b>\$7,869,377</b>
<b>Construction</b>	
<i>Bid Package #14</i>	\$3,000,000
<i>Bid Package #15/16/17</i>	\$1,500,000
<i>Bid Package #18</i>	\$11,000,000
<i>Contingency (10% FPD Construction)</i>	\$1,550,000
<i>Utilities</i>	\$400,000
<i>Property Acquisition Authorized Level - Wood River</i>	\$500,000
<i>Property Acquisition Authorized Level - East St. Louis</i>	\$500,000
<i>Property Acquisition Authorized Level - Prairie Du Pont/Fish Lake</i>	\$250,000
<i>Wetland Mitigation</i>	\$27,970
<i>HazMat Mitigation</i>	\$1,500,000
<i>Legal</i>	\$300,000
<i>Corps of Engineers Authorized Level Costs</i>	\$3,500,000
<b>TOTAL CONSTRUCTION</b>	<b>\$24,027,970</b>
<b>TOTAL ENGINEERING DESIGN &amp; CONSTRUCTION</b>	<b>\$31,897,347</b>
<b>REFUND OF SURPLUS FUNDS TO COUNTY FPD ACCOUNTS</b>	<b>\$2,500,000</b>
<b>Operations &amp; Financing</b>	
<i>General &amp; Administrative</i>	\$291,200
<i>Debt Service</i>	\$10,876,570
<i>Interest Rate Subsidy</i>	(\$850,070)
<i>Professional Services</i>	
<i>Legal</i>	\$322,500
<i>Financial Advisor</i>	\$65,000
<i>Bond Trustee</i>	\$12,000
<b>TOTAL OPERATIONS</b>	<b>\$10,717,200</b>
<b>TOTAL EXPENSES</b>	<b>\$45,114,547</b>

Table 3

***Estimated Revenues 7.1.2018 - 9.30.2019***

<b>Fund Sources</b>	
<i>Cash on hand (6/30/2018)</i>	\$1,014,595
<i>2010 Bond Project Funds (6/30/2018)</i>	\$0
<i>2015 Bond Project Funds (6/30/2018)</i>	\$34,227,170
<i>County FPD Tax Funds. (6/30/2018)</i>	\$31,060,526
<i>County FPD Tax Funds. (7/1/2018-9/30/2019)</i>	\$2,500,000
<i>Sales Tax Revenue (7/1/2018-9/30/2018)</i>	\$3,155,000
<i>Interest Income (7/1/2018-9/30/2018)</i>	\$168,810
<i>Federal Interest Subsidy (September 2018)</i>	\$425,035
<i>Sales Tax Revenue (10/1/2018-9/30/2019)</i>	\$12,475,000
<i>Interest Income (10/1/2018-9/30/2019)</i>	\$280,000
<b>Total Available Funds</b>	<b>\$85,306,136</b>

***Estimated Expenditures 7.1.2018 - 9.30.2019***

<b>Expenditures</b>	
<i>Engineering Design and Construction Mgmt. (7/1/2018-9/30/2018)</i>	\$781,736
<i>Construction (7/1/2018-9/30/2018)</i>	\$45,639
<i>Professional Services (7/1/2018-9/30/2018)</i>	\$85,000
<i>General &amp; Administrative (7/1/2018-9/30/2018)</i>	\$79,835
<i>Engineering Design and Construction Mgmt. (10/1/2018-9/30/2019)</i>	\$7,869,377
<i>Construction (10/1/2018-9/30/2019)</i>	\$24,027,970
<i>Professional Services (10/1/2018-9/30/2019)</i>	\$399,500
<i>County FPD Tax Funds. (7/1/2018-9/30/2019)</i>	\$2,500,000
<i>Debt Service (10/1/2018-9/30/2019)</i>	\$10,026,500
<i>General &amp; Administrative (10/1/2018-9/30/2019)</i>	\$291,200
<b>Estimated Expenditures</b>	<b>\$46,106,757</b>
<b>Net Estimated Available Funds on 9/30/2019</b>	<b>\$39,199,379</b>

Table 4

***Current Estimated Authorized Level Funding***

<b>Authorized Level Funding</b>	
<i>Design FY2016</i>	\$2,015,926
<i>Design FY 2017</i>	\$3,179,909
<i>Design FY 2018</i>	\$1,848,728
<i>Design &amp; CM FY 2019 Budgeted</i>	\$7,634,377
<i>Concrete Pipe Change Orders</i>	\$9,131,564
<i>B.P. #7B Wood River Deep Cutoff Wall</i>	\$14,919,724
<i>FPD Construction FY2018</i>	\$75,635
<i>FPD Construction FY2019 Budgeted</i>	\$18,700,000
<i>Previous Corps Funding</i>	\$3,154,435
<i>Corps of Engineers Funding FY 2016</i>	\$2,439,618
<i>Corps of Engineers Funding FY 2017</i>	\$7,152,000
<i>Corps of Engineers Funding FY 2018</i>	\$207,000
<i>Corps of Engineers Funding FY 2019 Budgeted</i>	\$3,500,000
<i>Net Available Funds (9/30/2019)</i>	\$39,199,379
<b>Current Estimated Authorized Level Funding</b>	<b>\$113,158,295</b>

***Current Estimated Authorized Level Costs***

<b>Authorized Level Costs</b>	
<i>Wood River - (Current Corps Preliminary Estimate)</i>	\$83,040,000
<i>MESD - (Corps Certified Final Cost)</i>	\$156,313,000
<i>Prairie Du Pont/Fish Lake - (Corps Certified Final Cost)</i>	\$50,925,000
<b>Current Total Estimated Cost</b>	<b>\$290,278,000</b>
 <i>Less 65% Corps Funding for Wood River &amp; MESD</i>	 \$155,579,450
 <i>Remaining Non-Federal Share</i>	 <b>\$134,698,550</b>
 <i>Current Estimated Authorized Level Funding</i>	 <b>\$113,158,295</b>
 <b>Current Estimated Shortfall</b>	 <b>\$21,540,255</b>



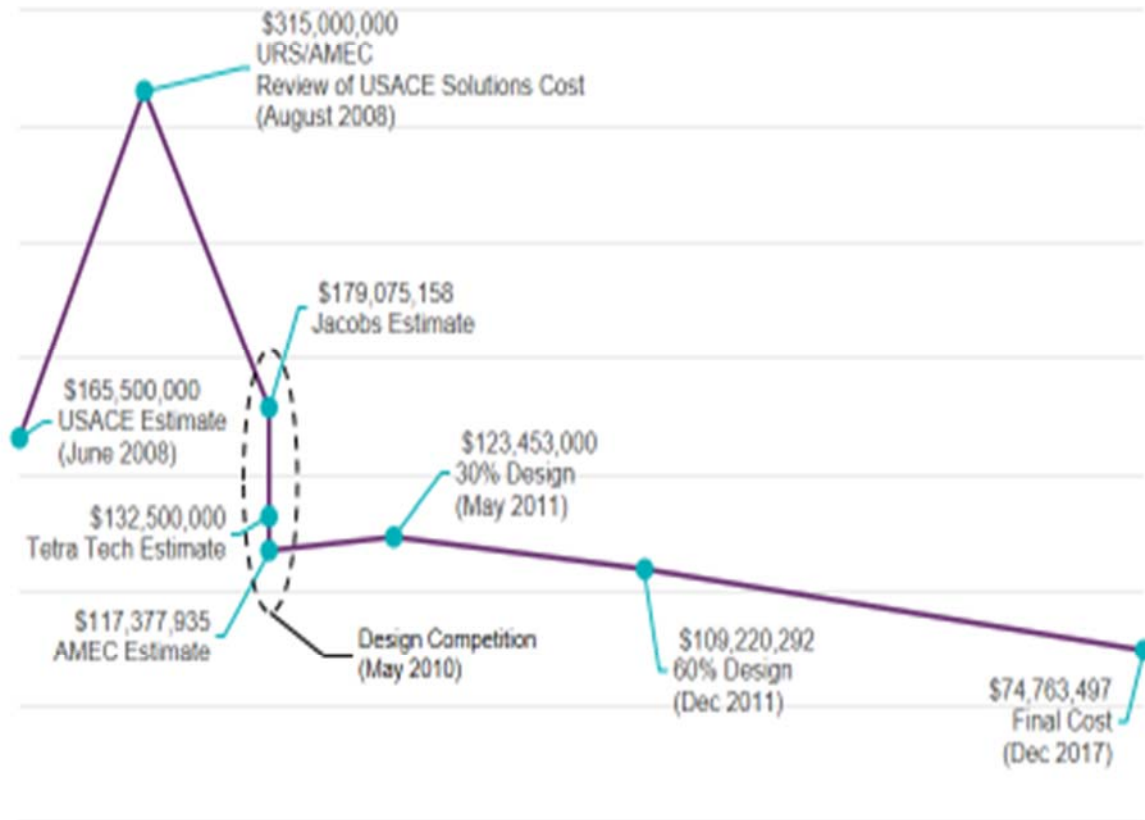


## V. FEMA Certification Construction Costs

### Southwestern Illinois Flood Prevention District Council FEMA Certification Levee Improvement Projects

BID PACKAGE	LOCATION/PROJECT	CONTRACTOR	CONSTRUCTION COST
1	Gravity Drain & Toe Rehabilitation	Noeth Excavating	\$133,641.00
2A	Fish Lake 1 Pump Station	Korte & Luitjohan	\$797,599.53
2B	Prairie DuPont, MESD, and Wood River 5 Pump Stations	Korte & Luitjohan	\$5,346,710.92
2C	MESD Site 12 Force Mains	Haier Plumbing	\$311,692.00
3	Wood River Blanket Drains, Earth Fill, Relief Wells, Seepage Berms, Piping, Weirs	Keller Construction	\$12,922,903.94
4	MESD 1 Pump Station, Clay Cap, Piping, RWs	Haier Plumbing	\$6,398,834.40
5	MESD Clay Cap, Earth Fill, Piping, Relief Wells Rip Rap, Sluice Gate Rehabs	Keller Construction	\$14,420,883.71
6	Prairie DuPont & Fish Lake Clay Cap, Seepage Berms, Piping, Relief Wells, Sluice Gate Rehabs	Lane Construction	\$15,436,257.14
7A	Upper Wood River Shallow Cutoff Wall	Kamadulski Excavating	\$3,375,350.25
7B	Lower Wood River Deep Cutoff Wall	TREVIICOS	\$14,919,724.29
5A	East St. Louis 126 Inch Sewer Repair	SAK Construction	\$699,900.00
		<b>TOTAL</b>	<b>\$74,763,497.18</b>

# History of Construction Cost Estimates



7

Exceptional design and construction management by Wood Environment & Infrastructure Solutions, Inc. (formerly Amec Foster Wheeler Environment and Infrastructure Inc.) and excellent bids and construction by the contractors utilized has allowed the Council to complete the 100-Year Levee System Improvements under estimated costs and have significant funds available for the 500-Year Levee System Improvements.

## VI. Authorized Level Levee Improvement Projects

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The Board of Directors has approved the design of Authorized Level Projects in the Wood River Levee System, the Metro East Sanitary District (MESD) Levee System, and the Prairie DuPont/Fish Lake Levee System. Wood is continuously working with the Corps of Engineers regarding the design and construction of the following Bid Packages

### Wood River Levee System

**Bid Package 8** - Includes the design and construction of a new 13,520-gpm pump station at Canal Road, approximately 27 relief wells, conveyance systems, and grading work. This package spans the Lower Wood River Levee from station 122+00 to 455+00, with most of the improvements along Canal Road, between levee station 431+00 and 455+00.

The Corps of Engineers has requested that the Corps build this bid package. Wood will complete the design by February 2019 and provide it to the Corps to construct.

Estimated Construction Cost \$ 4,345,000.

**Bid Package 9** - Currently spans the Lower Wood River Levee from station 493+35 to 480+15. This package currently includes the design and construction of a new pump station and 18 relief wells; however, this package is currently on hold pending completion of the Corps' Lower Wood River Risk Assessment and Supplemental Report. The Risk Assessment and Supplemental Report will likely change the scope and cost of this package.

Estimated Construction Cost \$ 4,777,000

**Bid Package 10** - Currently spans the Lower Wood River Levee from station 530+50 to 630+30. This package currently includes the design and construction of a new pump station, 36 relief wells, seepage berms, and earthwork fill; however, this package is currently on hold pending completion of the Corps' Lower Wood River Risk Assessment and Supplemental Report. The Risk Assessment and Supplemental Report will likely change the scope and cost of this package.

Estimated Construction Cost \$ 11,462,000

## **Metro East Sanitary District (MESD) Levee System**

Bid Package 11 - Spans the MESD Levee from Station 148+00 to 891+00 (less the Chain of Rocks system). This package currently includes the design and construction of 132 relief wells, conveyance systems, and an existing pump station upgrade; however, this package is currently on hold pending completion of the Corps' East St Louis Risk Informed Design Process. The Risk Informed Design Process will likely change the scope and cost of this package.

Estimated Construction Cost \$ 14,000,000.

Bid Package 12/13 - Spans the MESD Levee from station 1014+00 to 1482+00 and includes the design and construction of 103 relief wells, conveyance systems, and a pump station; however, this package is currently on hold pending completion of the Corps' East St Louis Risk Informed Design Process. The Risk Informed Design Process will likely change the scope and cost of this package.

Estimated Construction Cost \$ 15,000,000.

Bid Package 14 - Spans the MESD Levee from station 822+00 to 863+00 and 960+00 to 974+00 on the MESD Main Stem. It includes the design and construction of a shallow clay trenches and clay blankets. It will be advertised for bid late 2018.

Estimated Construction Cost \$ 4,300,000.

Bid Package 18 – Is the Cahokia Relief Well Project, which spans the MESD Levee from station 1207+00 to 1352+00 (the span is known as the “elbow”), and includes the design and construction of 51 relief wells and modification to the Cahokia Pump Station. This project was originally designed by the Corps, but will be reviewed, modified as needed (with appropriate USACE approvals), and sealed by Wood for the Council to advertise for bid late 2018.

Estimated Construction Cost \$ 10,590,000

MESD Deep Cutoff Wall – The Corps of Engineers is designing the MESD Deep Cutoff Wall Project which spans the MESD Levee from station 983+00 to 1015+00 with the anticipation of receiving FY 2019 Work Plan Funds for construction.

Estimated Construction Cost \$ 38,575,000

The Corps of Engineers is utilizing a Risk Informed Design Process to determine which projects (based on vulnerability and effect) should be completed first, to achieve the most effective use of available funds. At this time, the MESD Deep Cutoff Wall, Bid Package #14 and the Cahokia Relief Well (BP #18) Projects have been identified as the projects to be built first.

## **Prairie DuPont/ Fish Lake Levee System**

Bid Packages 15 - Spans the Prairie DuPont Levee System in St. Clair County from station 167+65 to 435+00 and includes the abandonment of 53 existing relief wells, construction of 10 new seepage berms, 57 new relief wells, and the construction of a new pump levee station at station 209+13.

Estimated Construction Cost \$ 21,358,000.

Bid Package 16 – Spans the Prairie DuPont Levee System in Monroe County from station 435+00 to 550+00 and includes the abandonment of 37 existing wells, construction of 7 new seepage berms, and 40 new relief wells.

Estimated Construction Cost \$ 8,689,000

Bid Package 17 – Spans the Fish Levee System from station 550+00 to 809+35 and includes the abandonment of 47 relief wells, construction of 6 new seepage berms, 71 new relief wells and the construction of a larger pump station at levee station 691+00.

Estimated Construction Cost \$ 11,706,000

The Corps of Engineers has determined the Prairie DuPont/Fish Lake Levee System Design Deficiency Project has a low benefit cost ratio, which prevents the Corps from obtaining federal funds. The Council will provide the Corps of Engineers funds for oversight of the designs and construction.



## VII. FEMA Certification and Mapping

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Certification reports have been submitted to FEMA as each levee system was completed. Wood prepared reports for Wood River East/West Forks, Prairie DuPont/Fish Lake, and Lower Wood River. All levee improvements leading to certification were completed by February 8, 2018.

The USACE submitted a National Flood Insurance Program (NFIP) Levee System Evaluation Reports (LSER) for the Upper Wood River Levee System, which includes the Mel Price uncontrolled underseepage area and will be submitting the same for the for East St. Louis (MESD) Levee System, including the Chain of Rocks Levee.

All levee improvements leading to certification were completed by February 8, 2018.

Concern remains about the timeline for the Corps of Engineers to make necessary improvements to a critical stretch of levee in the Wood River area in the vicinity of the Mel Price Lock and Dam. This is the most serious problem on the entire levee system. Fortunately, FEMA has agreed to accept the Corps' certification of that portion of the system with the Corps utilizing an interim operations plan until final improvements can be made.

### **100-Year Certification Packages Status**

#### East & West Fork Levee Systems

Submitted by Wood on December 5, 2016

FEMA Completeness Check and Comments received January 26, 2018

Resubmitted to FEMA June 29, 2018

#### Prairie DuPont & Fish Lake Levee Systems

Submitted by Wood on July 6, 2017

FEMA Completeness Check and Comments received January 26, 2018

Resubmitted to FEMA June 29, 2018

#### Lower Wood River Levee System

Submitted by Wood on October 17, 2017

FEMA Completeness Check and Comments received April 20, 2018

Resubmitted to FEMA July 13, 2018

#### Upper Wood River Levee System

Submitted by Corps of Engineers on March 10, 2017

Comments received from FEMA September 5, 2017

Resubmitted to FEMA on June 18, 2018

## MESD Levee System

Wood submitted information to the Corps of Engineers December 2017  
Corps of Engineers completed technical review and issued comments on May 7, 2018  
Wood responded to comments on June 13, 2018  
Corps of Engineers anticipates submitting to FEMA by September 1, 2018

The 100-Year Certification review and submittal process continues to make progress. Comments have been received on four certification packages and those packages have been resubmitted to FEMA. The Corps of Engineers anticipates submitting the MESD Levee System by the end of August.

As previously indicated, FEMA has a backlog of work, with the first certification package originally submitted in December 2016, it is now anticipated the accreditation review and approval process for each package may take up to eighteen months to two years. Approval of the MESD package, the last package being submitted, is not expected until late 2019 or early 2020.

FEMA is working with the Council and has indicated that it doesn't want to issue the maps twice, once before and once after the Council's completes its improvements. Therefore, FEMA isn't going to issue new maps until all of the Council's 100-Year improvements are complete. The intent is to work closely with FEMA to ensure the new maps when issued, reflect the levee improvements. It is currently anticipated that FEMA will be issuing new maps in 2020.



## VIII. Work In-Kind Credit

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The Council continues to work with the Corps of Engineers to ensure the work the Council does on the 500-Year Authorized Level of Protection Projects is eligible for future Work In-Kind Credit.

This is an elaborate and multi tasked process, taking up to two years before a project is guaranteed to be eligible for Work In-Kind Credit. A project is only guaranteed to be eligible if there is a properly executed Project Partnership Agreement (PPA) for the Levee System.

The Council first operated under Memorandums of Understanding, which allowed work to be considered for Work In-Kind Credit prior to the execution of an amended Project Partnership Agreement. The credit is only good towards the non-Federal contribution of funds for a project, and it will not be considered for the five percent cash requirement.

Next, an Integral Determination Report (IDR) that identified the work the Council intended to perform as In-Kind contributions in a Levee System had to be approved.

Finally, the amendments to the PPAs have to be finalized and submitted to the Corps' Mississippi Valley Division (MVD). After approval by the MVD, they are forwarded to headquarters in Washington, D.C. for approval.

In the Wood River Levee System, a Risk Assessment and Supplemental Report are currently being completed, with an amended Project Partnership Agreement scheduled to be executed sometime between May and September of 2019. The Council has already submitted a Work In-Kind Credit request of \$16,041,496 for the completed Wood River Deep Cutoff Wall Project.

In the Metro East Sanitary District (MESD) Levee System, a Risk Assessment has been completed and an amended Project Partnership Agreement is scheduled to be executed in August 2018. The Council has already received preliminary Work In-Kind Credit approval of \$9,131,565 for the installation of the Reinforced Concrete Pipe, which replaced the high-density polyethylene (HDPE) pipe originally approved by the Corps of Engineers. An additional \$3,283,840, for drilling costs, has also been submitted for Work In-Kind Credit approval.

In the Prairie DuPont/Fish Lake Levee System, the Council will operate under the Memorandum of Understanding signed in 2015 and under Section 408 authorization, which allows the Council to provide funds to the Corps of Engineers for design and construction oversight. A Project Partnership Agreement cannot be utilized, since the Corps of Engineers has determined the Prairies DuPont/Fish Lake Levee System Design Deficiency Project has a low benefit cost ratio, which prevents the Corps from obtaining funds. At this time, the Corps does not foresee the benefit cost ratio improving which would allow for federal funding in conjunction with non-federal funding and Work In-Kind Credit. Therefore, the Council will pay all project costs in the Prairie DuPont/Fish Lake Levee System.

The Council started the 500-Year Authorized Level design process prior to having the amended Project Partnership Agreements with the Work In-Kind Credit provision. This had a slight risk, but the risk was low, since the Council was working with the Corps and was designing and constructing projects the Corps had identified as part of the Authorized Level of Protection. Starting the design, prior to having the Project Partnership Agreements, will allow the projects to be completed two years earlier and provide additional flood protection to the Metro-East area sooner.

The Council, where needed, will satisfy the Corps' five percent cash requirement by providing the Corps funds for the oversight of the design and construction of authorized projects being built by the Council.

## IX. Conclusions, Issues and Next Steps

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Much progress has been made in the nine years that the Council has been in existence towards the regional goal of maintaining a high level of flood protection for the American Bottom area. Doing so is a regional priority and the Council has acted with a great sense of urgency, commitment, and cooperation in conceiving major improvements to the flood protection system. That process reached important milestones this year with the completion of all of the 100-Year Level of Protection Projects and the submittals of all of the certification packages.

With the interim goal of achieving FEMA accreditation in sight, the process of achieving the long-term goal of 500-Year Authorized Level of Protection is well on its way. The Council's intent has been expressed by resolution; action has been initiated by the authorization of the design of Authorized Level Projects in the Wood River Levee System, the Metro East Sanitary District (MESD) Levee System, and the Prairie DuPont/Fish Lake Levee System and a successful bond sale generating an additional \$77.5 million in construction funds.

There are a number of critical next steps as we move forward:

- Achieve FEMA certification
- Continue to work with levee districts to establish sufficient funding for ongoing maintenance of improvements, FEMA Level Improvements – Life Cycle Costs have been prepared by Wood for each of the Levee Systems
- Continue to identify the most cost effective and high priority projects in the Wood River and MESD Levee Systems as the Corps of Engineers completes its Risk Assessment & Supplemental Report for Wood River and utilizes the Risk Informed Design Process for the East St. Louis Design Deficiency Project
- Prioritize the Authorized Level Projects in the Prairie Du Pont/Fish Lake Levee System
- Complete the design of the 500-Year Authorized Level of Protection Projects that can be built either by the FPD or the Corps of Engineers
- Construct as many cost effective and high priority Authorized Level of Protection Projects, which qualify for Work In-Kind Credit, as possible

Mississippi River flood stages in December 2015/January 2016 (third highest elevation recorded) and April/May 2017 (sixth highest elevation record) delayed construction completion and pushed accreditation back, but the Council will meet its interim goal of achieving FEMA certification with the revenue available from the dedicated FPD sales tax in FY 2019.

Two record flood events, in the last three years, confirm the need for the work the Council is completing for the 100-Year accreditation and the ultimately for the 500-Year Authorized Level of Protection.

With the added 2015 bond issue revenue, the Council is able to pursue the ultimate goal of providing Authorized Level of Protection to the Metro-East. If the Corps of Engineers can obtain additional federal funding in FY 2019 and future years, the Authorized Level of Protection could be achieved twenty years sooner than original thought.

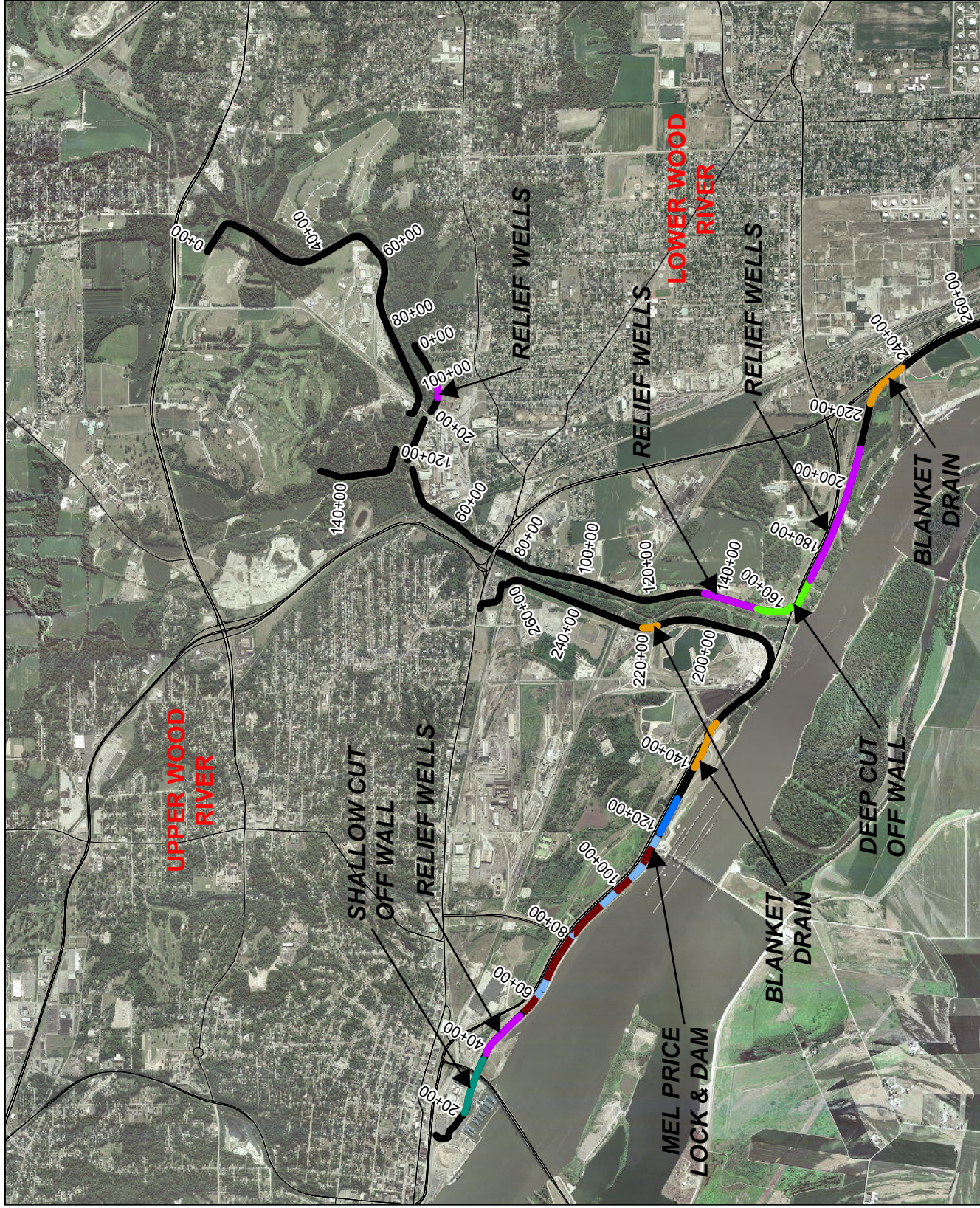
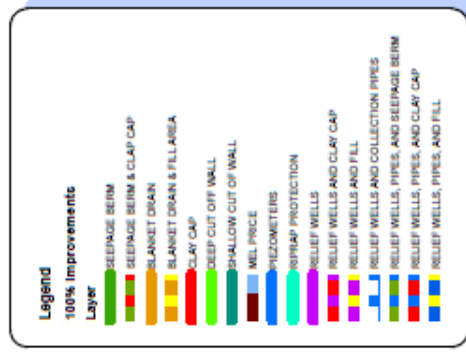
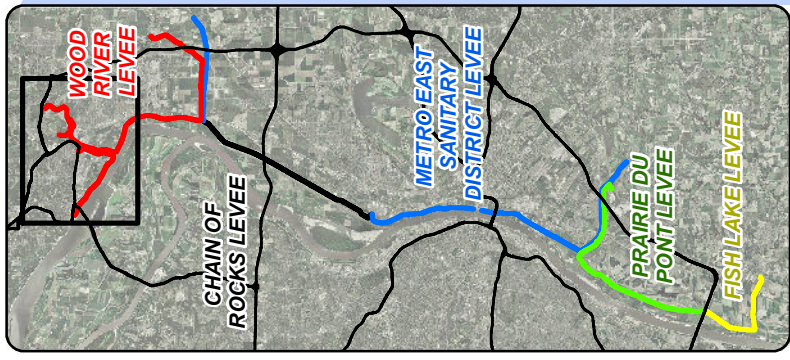


## **Appendix I**

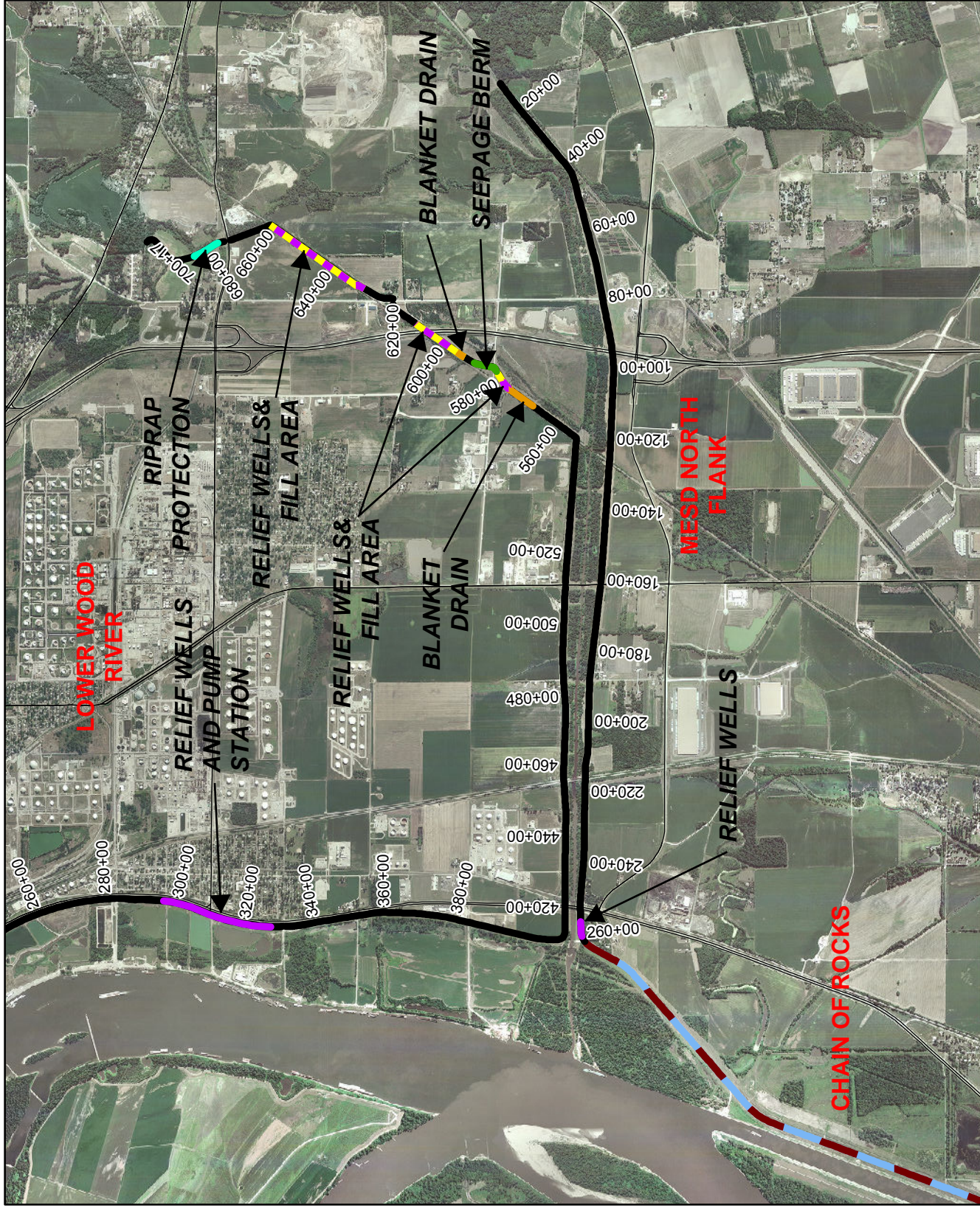
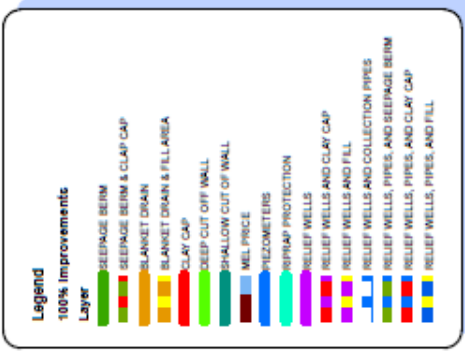
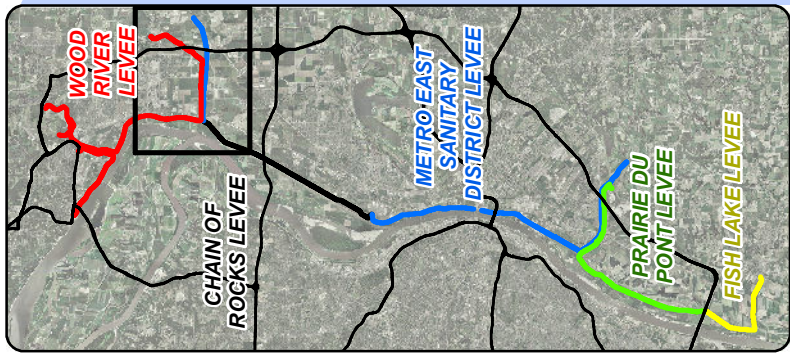
### **FEMA Certification Levee System Improvements**







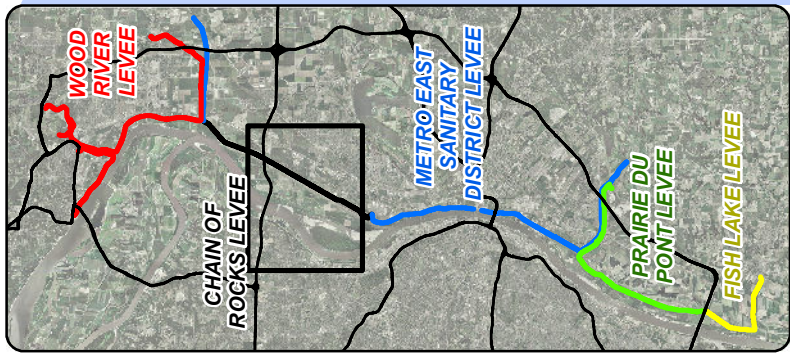
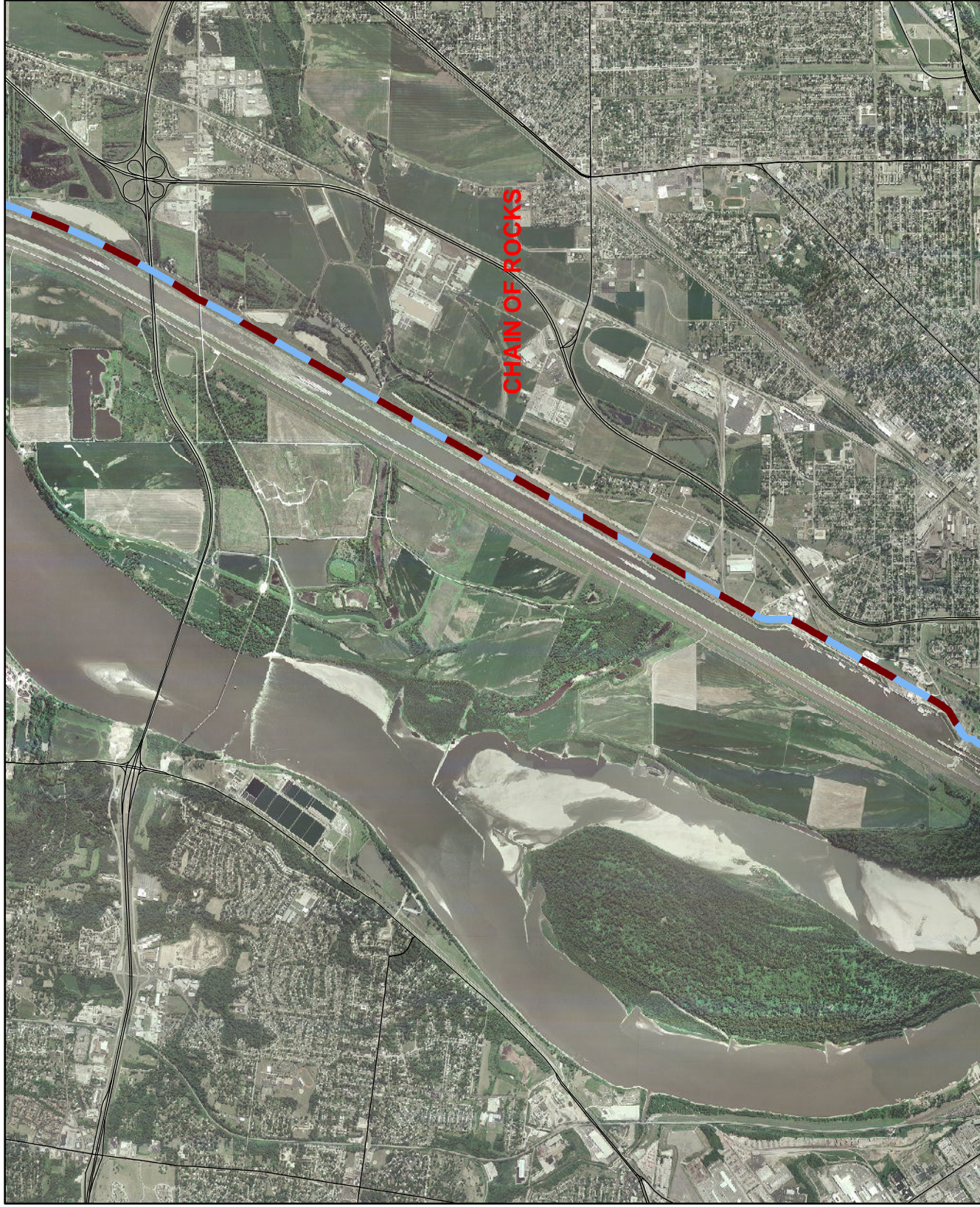




FEMA CERTIFICATION DESIGN - 100% SOLUTIONS

WOOD RIVER (WR) & METRO EAST SANITARY DISTRICT (MESSD) LEVEES





**Legend**

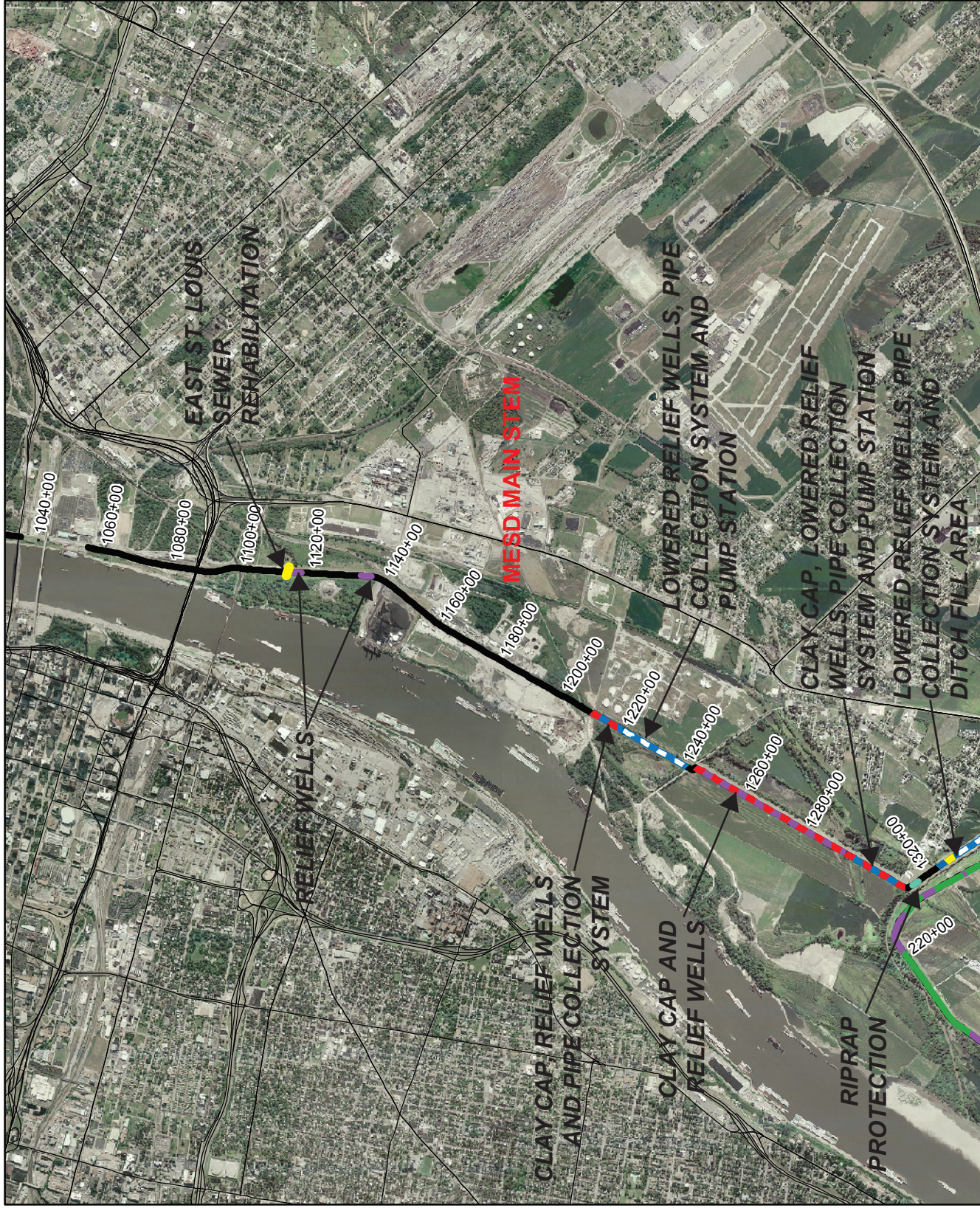
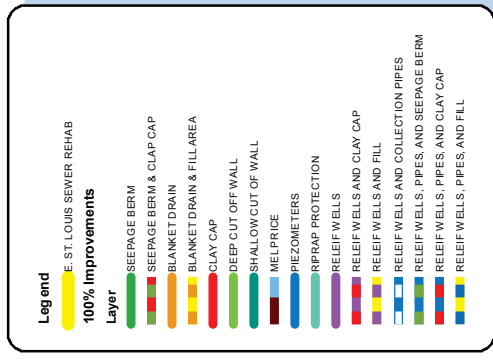
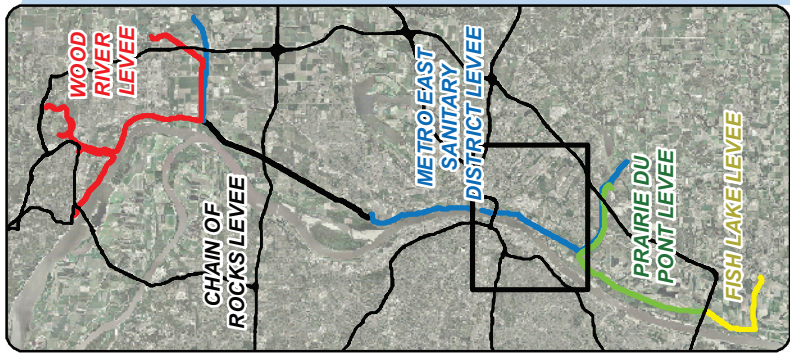
**100% Improvements**

Layer	Improvement Type
Green	SEEPAGE BEHM & CLAY CAP
Yellow	SEEPAGE BEHM
Orange	BLANKET DRAIN
Red	BLANKET DRAIN & FILL AREA
Light Blue	CLAY CAP
Dark Blue	DEEP CUT OFF WALL
Light Green	SHALLOW CUT OFF WALL
Dark Green	WEL PRICE
Light Purple	PIEZOMETERS
Light Cyan	SEEPAGE PROTECTION
Light Yellow	RELIEF WELLS
Light Orange	RELIEF WELLS AND CLAY CAP
Light Green	RELIEF WELLS AND FILL
Light Blue	RELIEF WELLS AND COLLECTION PIPES
Light Yellow	RELIEF WELLS, PIPES, AND SEEPAGE BEHM
Light Orange	RELIEF WELLS, PIPES, AND CLAY CAP
Light Green	RELIEF WELLS, PIPES, AND FILL



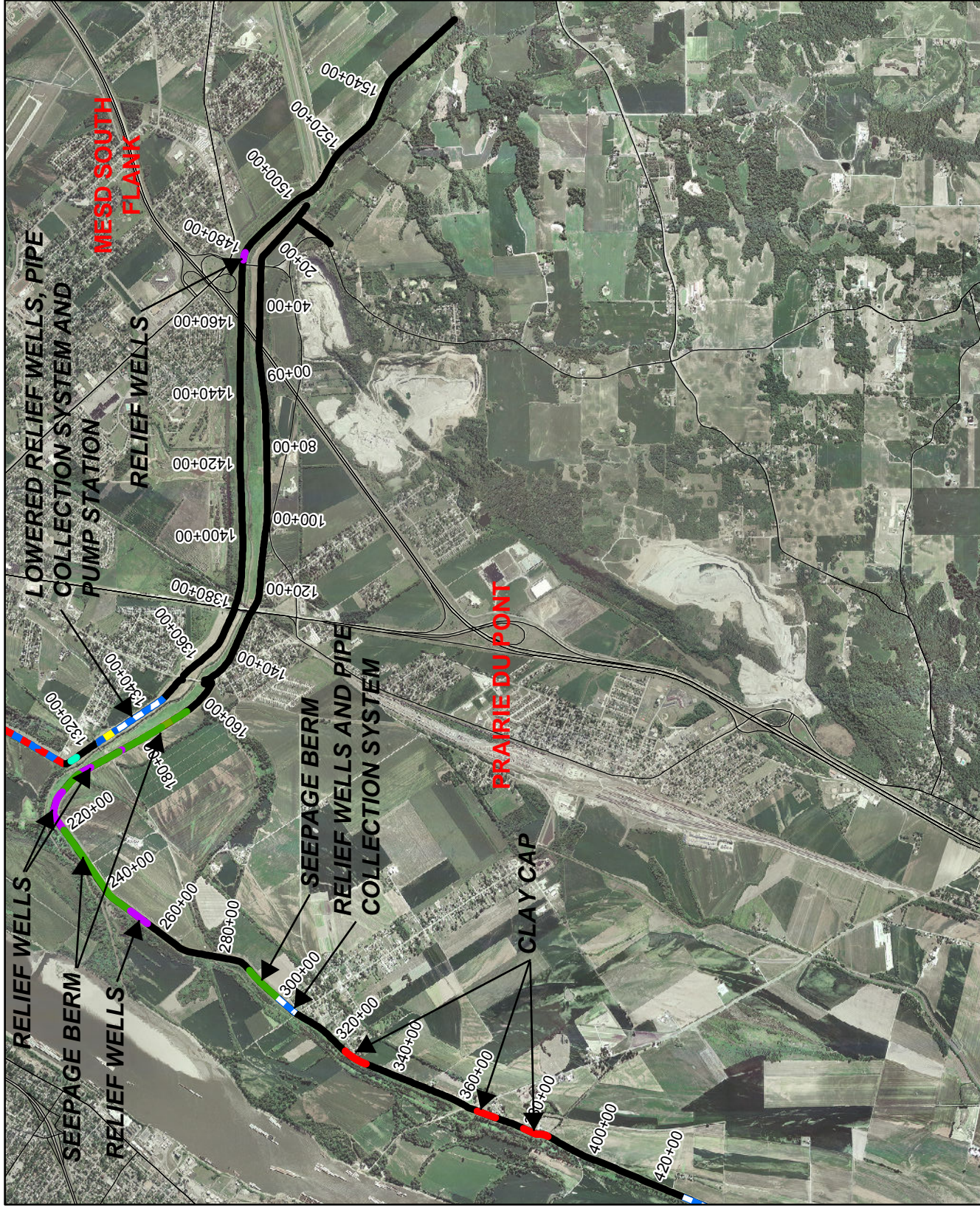
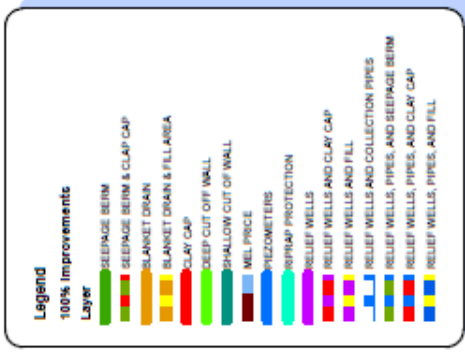
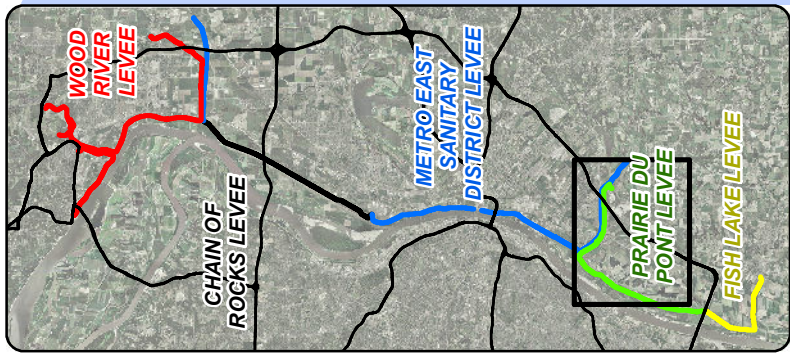






FEMA CERTIFICATION DESIGN - 100% SOLUTIONS  
METRO EAST SANITARY DISTRICT (MESD) LEVEE

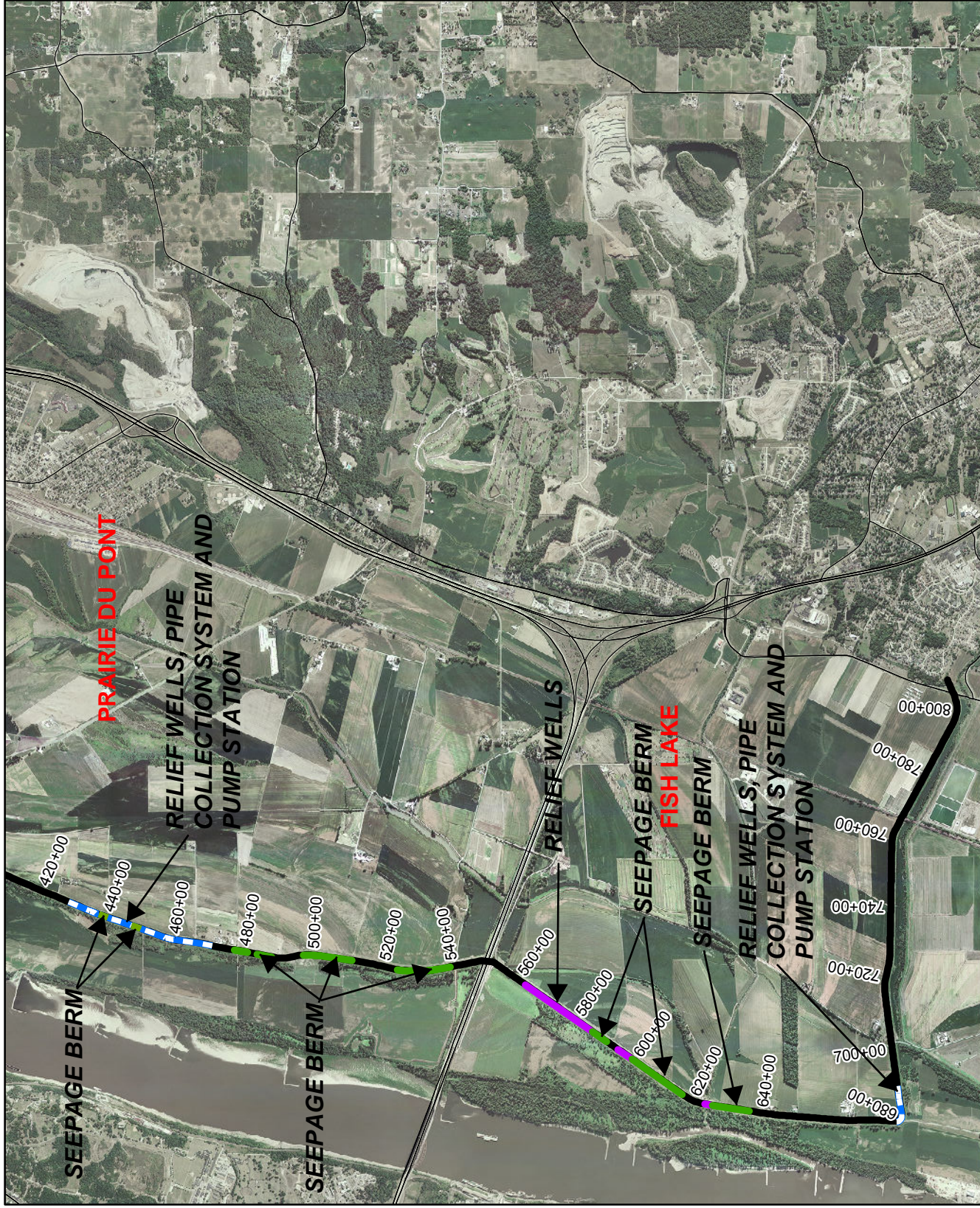
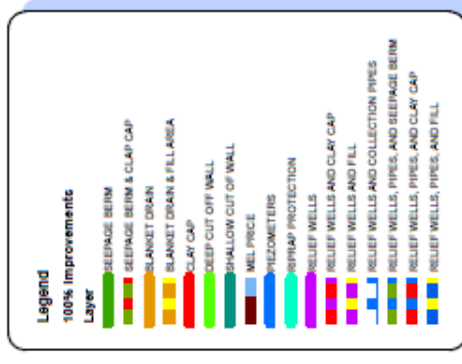
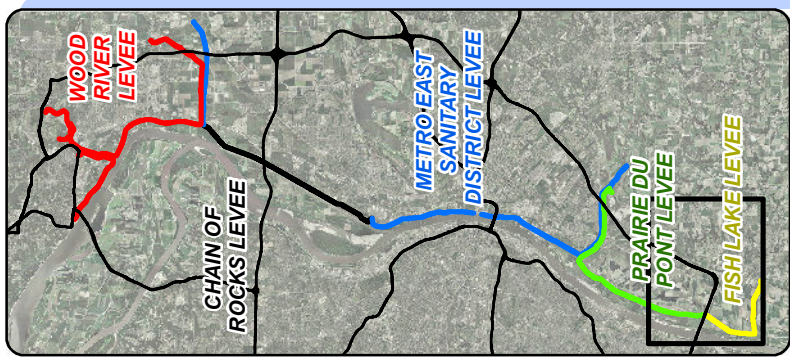




FEMA CERTIFICATION DESIGN - 100% SOLUTIONS

METRO EAST SANITARY DISTRICT (MESD) & PRAIRIE DU PONT LEVEES









**Appendix II**

**Southwestern Illinois Flood Prevention District Council**

**Resolution Expressing the Official Intent To  
Restore the Federally Authorized Level of Mississippi  
Flood River Protection in the Metro-East**





## **Southwestern Illinois Flood Prevention District Council**

### **RESOLUTION Expressing the Official Intent To Restore the Federally Authorized Level of Mississippi Flood River Protection in the Metro-East**

WHEREAS, the Southwestern Illinois Flood Prevention District Council has made great progress towards meeting its goal of fully protecting the Metro-East from a 100-year flood by the end of 2015; and,

WHEREAS, the threat from the Federal Emergency Management Agency to classify the area as prone to flooding will be averted, along with the terrible economic consequences of the action; and

WHEREAS, the Council has demonstrated that the most expeditious and cost-effective approach to improve flood protection over the last several years is to use local funds to undertake critical flood protection projects; and

WHEREAS, the Council cannot continue to delay needed improvements to flood protection because of the lengthy, unpredictable, and costly design and construction process conducted by the U.S. Army Corps of Engineers; and

WHEREAS, the Corps of Engineers is unwilling to comply with local workforce policies; and

WHEREAS, dramatic progress can be made when the pace and cost of construction is determined locally; and

WHEREAS, the design and construction of projects by the FPD can move ahead rapidly and at a far lower cost than by delegating this work to the Corps of Engineers; and

WHEREAS, the FPD has available funds and availability of future federal funding is unknown; and

WHEREAS, the design and construction of projects built by the FPD using local funds may be considered for future Work In-Kind Credit by the Corps of Engineers as allowed by the use of Memoranda of Understanding, the inclusion in Integral Determination Reports, and the amendment of Project Partnership Agreements; and

WHEREAS, economic growth can be expected if the authorized level of protection is being pursued; and

WHEREAS, now is the time to initiate the restoration of the federally authorized level of flood protection in the Metro-East providing the region with a higher level of flood protection, while simultaneously completing the 100-year level projects; and

WHEREAS, the long-term goal of the FPD is to fully restore the federally authorized level of flood protection (Mississippi River elevation of 54 feet on the St. Louis gauge -- also known as the 500-Year flood).

NOW, THEREFORE, It Is Hereby Resolved by the Board of Directors of the Southwestern Illinois Flood Prevention District Council that it is the intent to restore the federally authorized 500-year level of Mississippi River flood protection through the following actions:

1. *Design.* Immediately begin the design of the most critical and cost-effective projects to restore the federally authorized level of flood protection; and

2. *Funding Strategy.* Take immediate steps to implement a funding strategy with the FPD being totally responsible for the design and the construction of flood protection (authorized level) projects. This includes using current surplus funds and judicious borrowing to maximize the available funding for capital expenditures on flood protection through the year 2020 (\$94,500,000 is currently estimated to be available), building the most cost effective and highest priority projects throughout the Counties of Madison, Monroe, and St. Clair, Illinois; and


3. *Workforce Policies.* Comply with all current FPD workforce policies to ensure fair wages and working conditions for project workers, encourage the use of local workers, and avoid any work stoppages that could delay projection completion; and

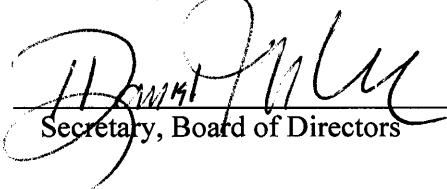
4. *Levee Districts Participation.* Seek the financial participation of each Levee District to generate additional funds to supplement FPD funding and enable additional construction; and

5. *Corps of Engineers Participation.* Notify the Corps of Engineers of the FPD's strategy and request that the Corps expedite projects that are 100% federally funded, such as the emergency design deficiency correction at the Melvin Price Locks and Dam, a project-that was identified as an emergency need six years ago, but still lacks a federally sanctioned permanent design solution and any funding for construction..

If any section, paragraph or provision of this Resolution shall be held to be invalid or unenforceable for any reason, the invalidity or unenforceability of such section, paragraph or provision shall not affect any of the remaining provisions of this Resolution.

This resolution was approved February 18, 2015.

  
\_\_\_\_\_  
President, Board of Directors

  
\_\_\_\_\_  
Secretary, Board of Directors

**Appendix III**

**Proposed 500-Year Authorized Level Levee System Improvements**

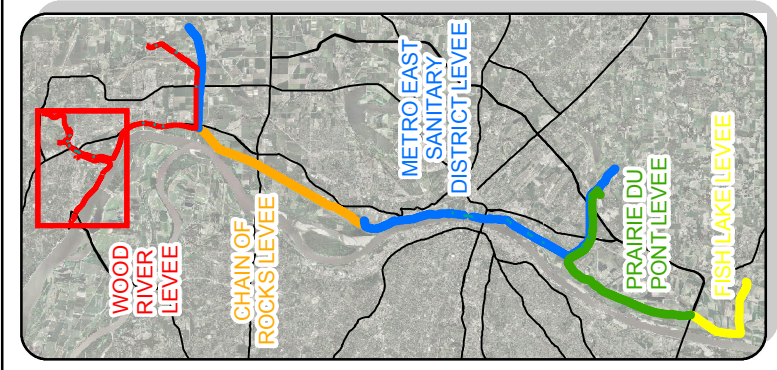
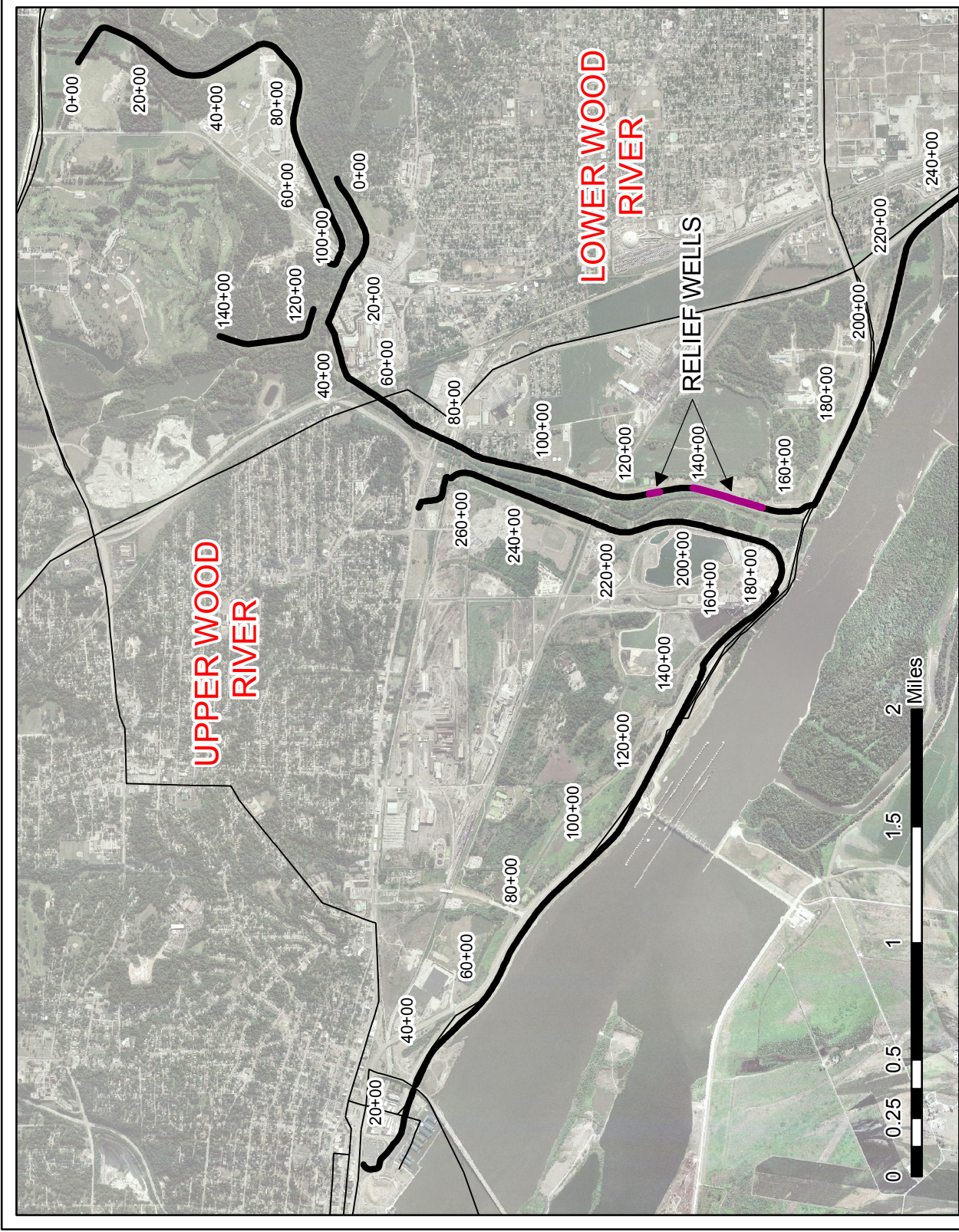
**Wood River Levee System**

**Metro East Sanitary District (MESD) Levee System**

**Prairie DuPont/Fish Lake Levee System**





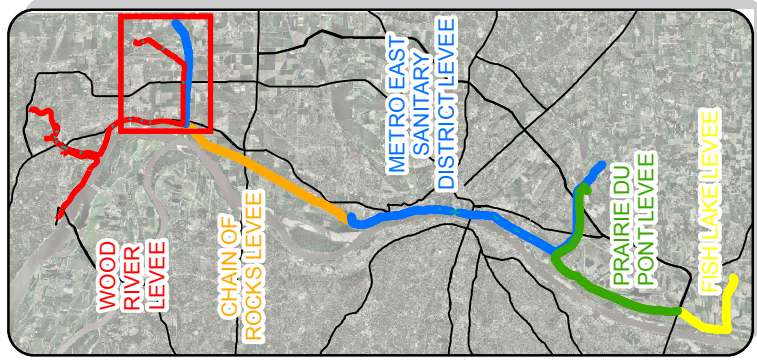
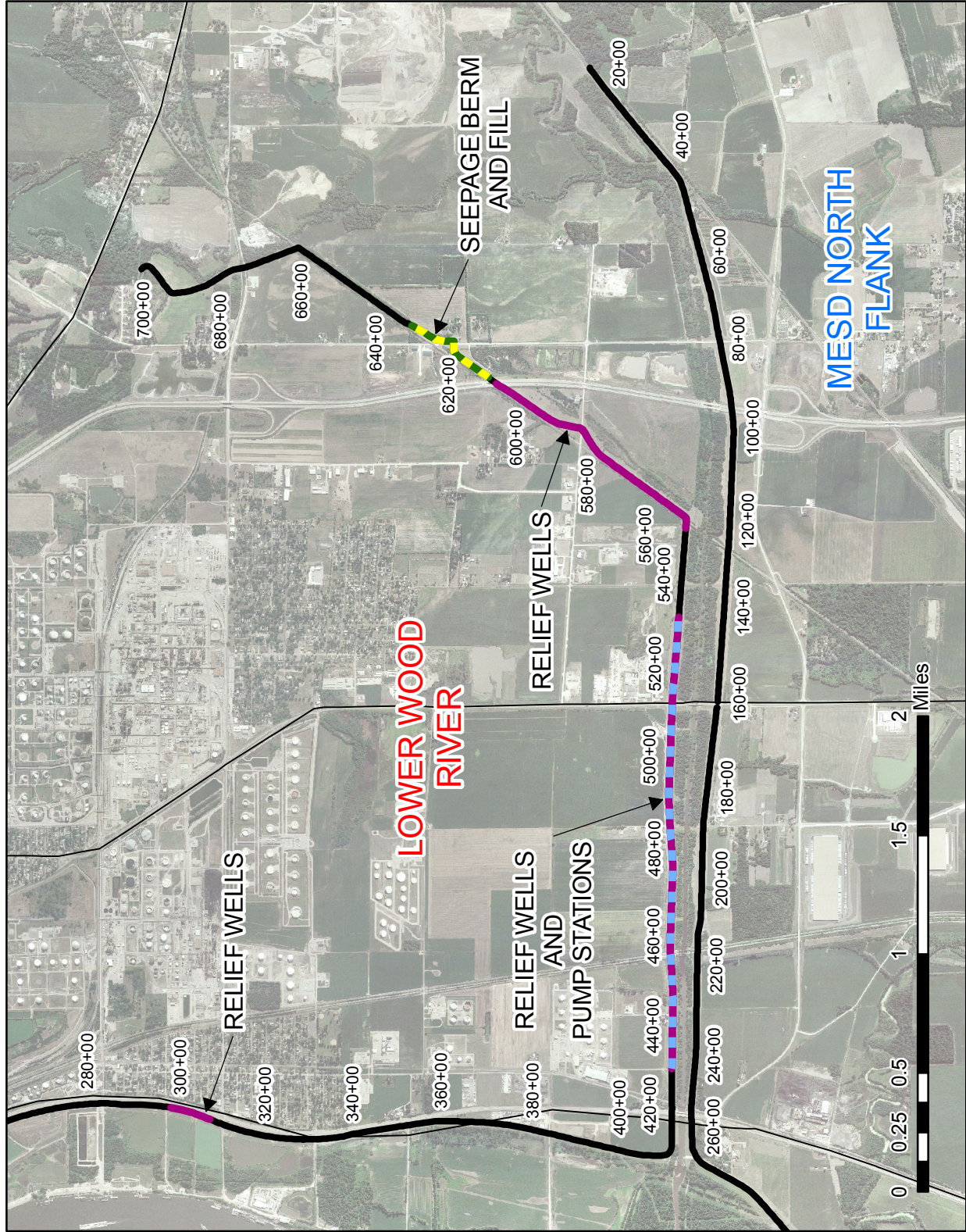


29 JUN 2018

**AUTHORIZED LEVEL DESIGN**  
**WOOD RIVER LEVEE**







29 JUN 2018

**AUTHORIZED LEVEL DESIGN**

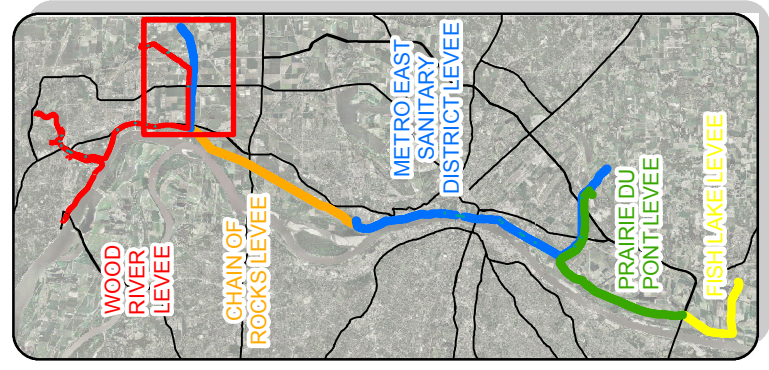
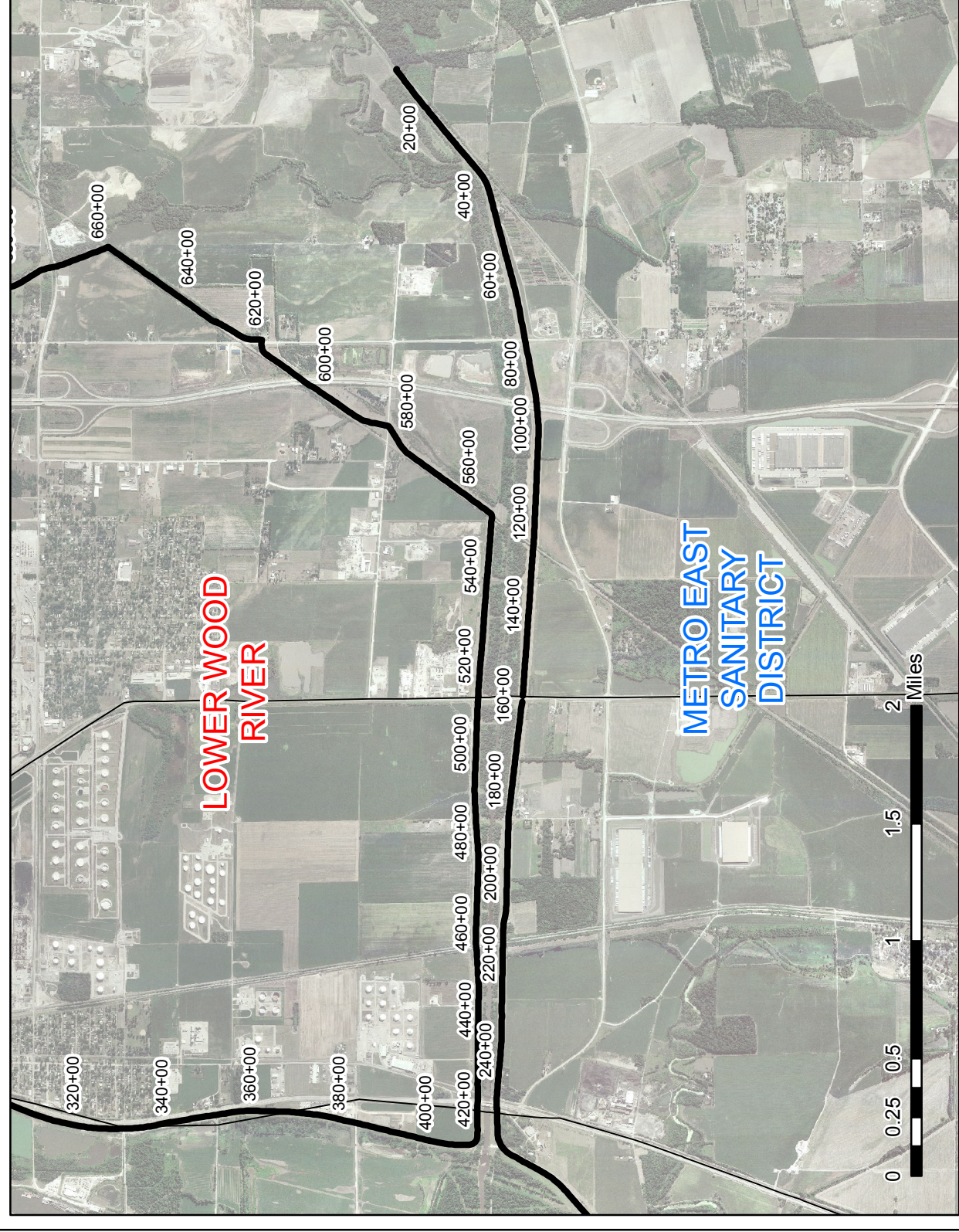
**WOOD RIVER LEVEE**








**AUTHORIZED LEVEL DESIGN**  
**METRO EAST SANITARY DISTRICT LEVEE**

29 JUN 2018



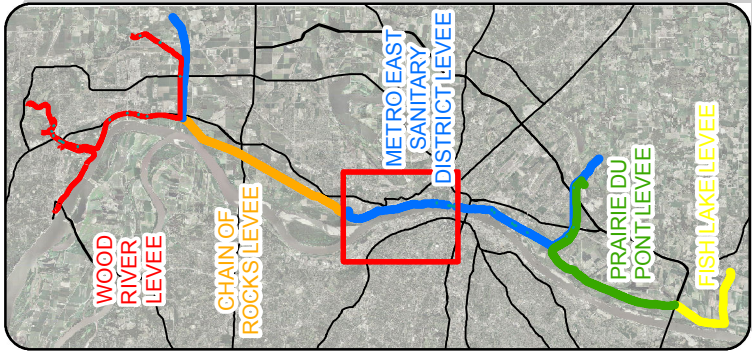
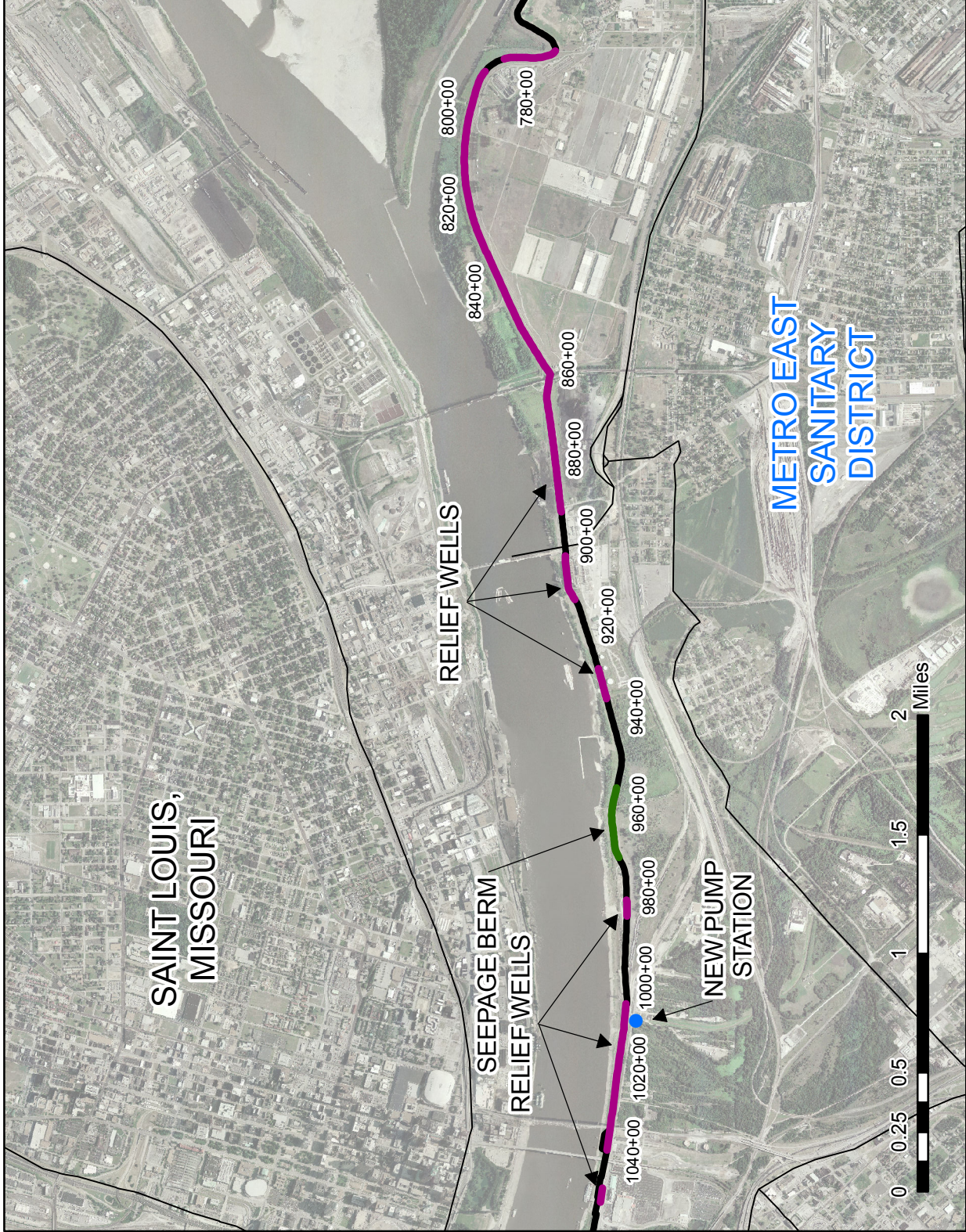
**Legend**

**Layer**

-  RELIEF WELLS
-  SEEPAGE BERM
-  LEVEE CENTERLINE







**Legend**

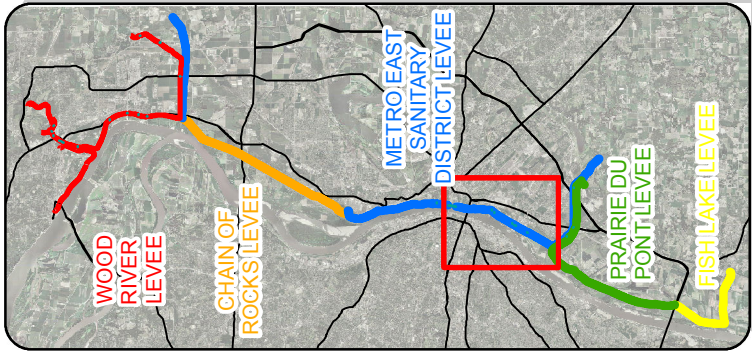
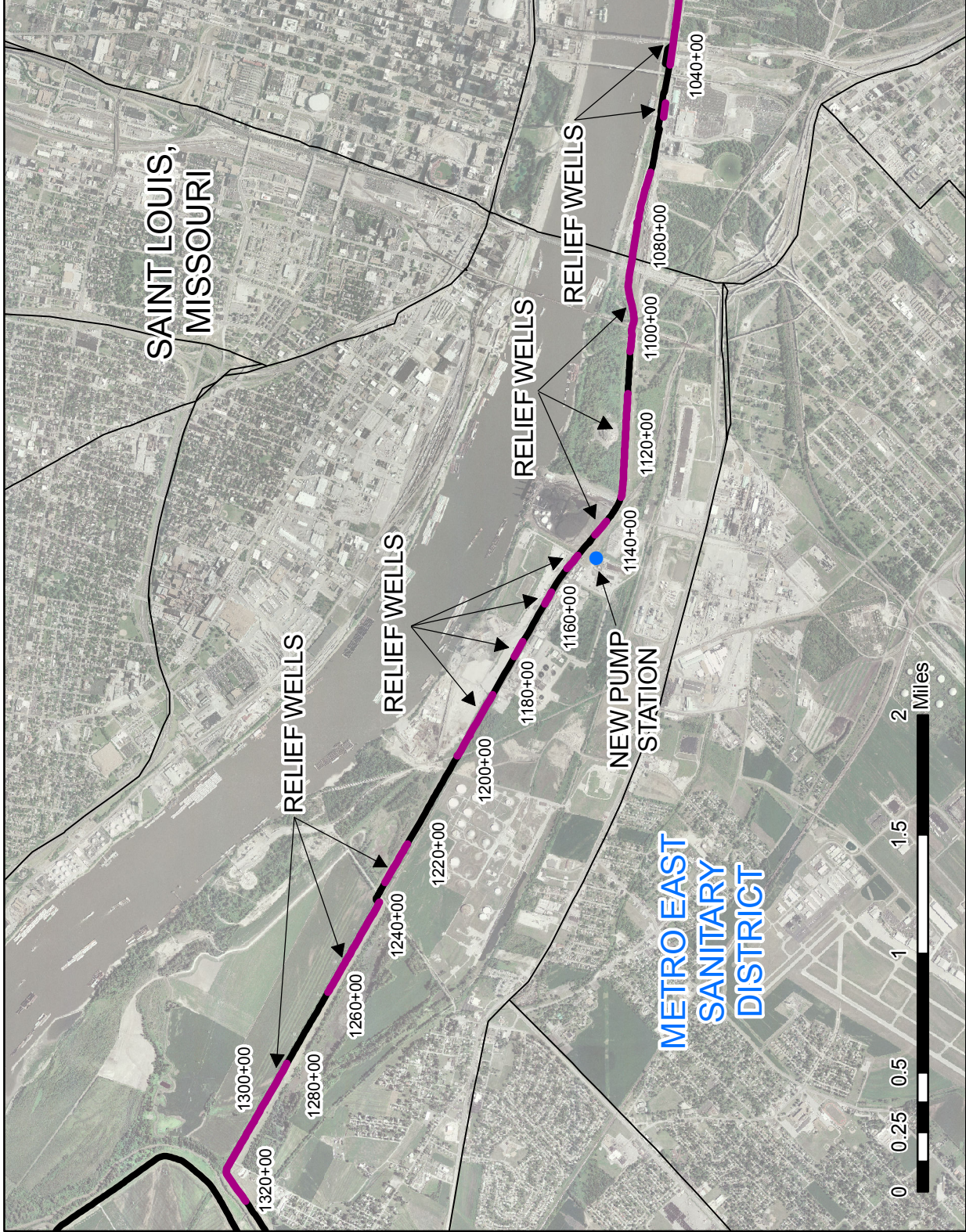
**Layer**

- █ RELIEF WELLS
- █ SEEPPAGE BERM
- █ LEVEE CENTERLINE



29 JUN 2018





**Legend**

**Layer**

- RELIEF WELLS
- SEEPAGE BERM
- LEVEE CENTERLINE



29 JUN 2018



**AUTHORIZED LEVEL DESIGN**

**METRO EAST SANITARY DISTRICT LEVEE**

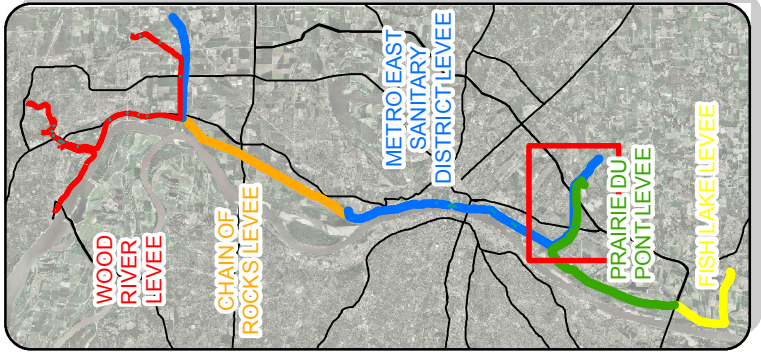
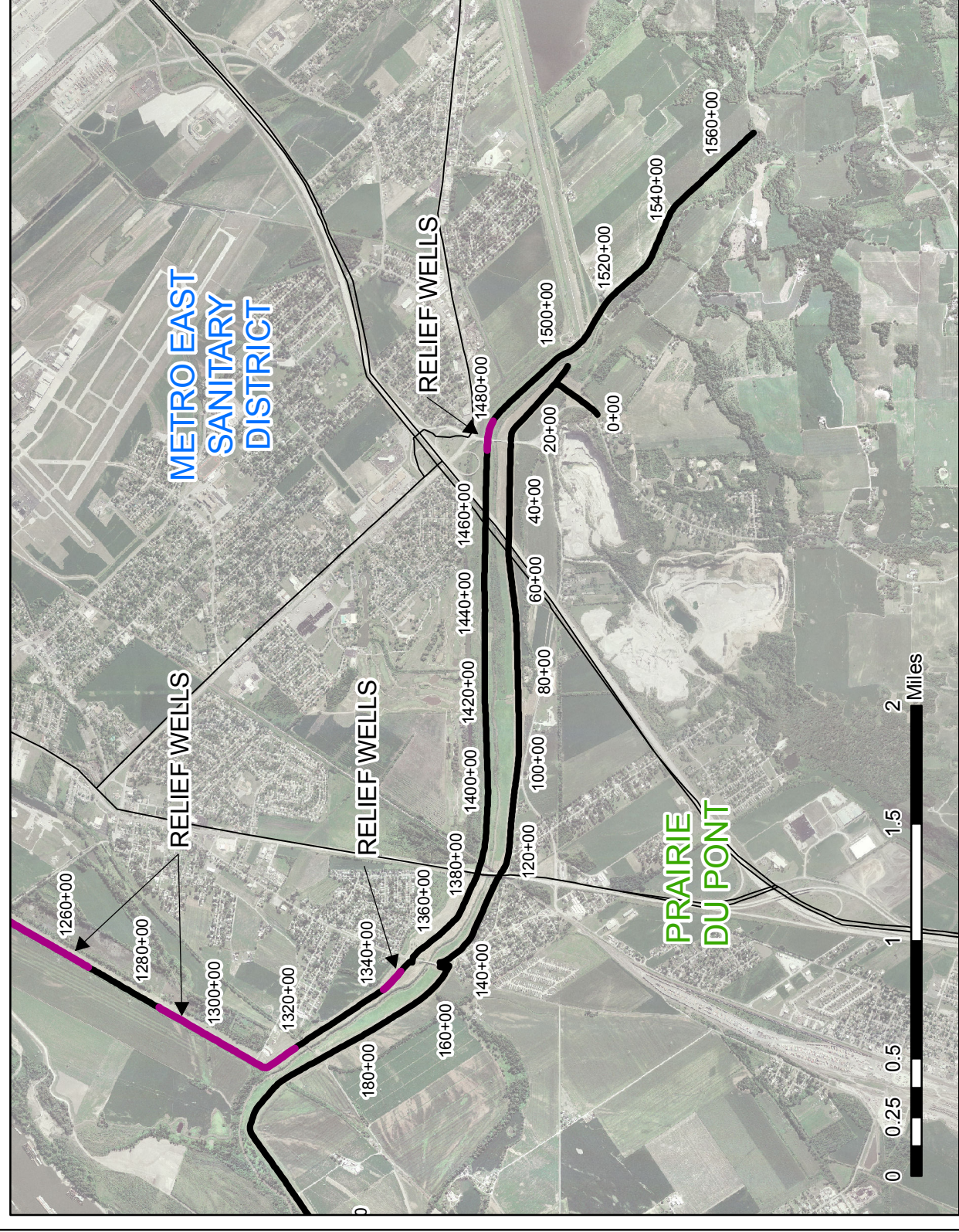




# AUTHORIZED LEVEL DESIGN

## METRO EAST SANITARY DISTRICT LEVEE

29 JUN 2018



**Legend**

Layer	Symbol
RELIEF WELLS	<span style="color: magenta;">█</span>
SEEPAGE BERM	<span style="color: green;">█</span>
LEVEE CENTERLINE	<span style="color: black;">█</span>





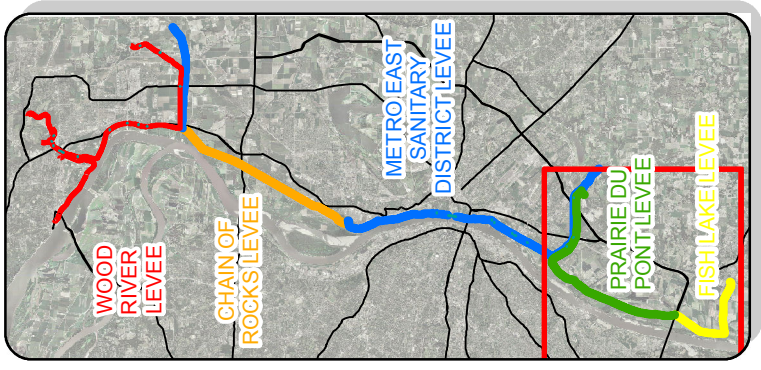
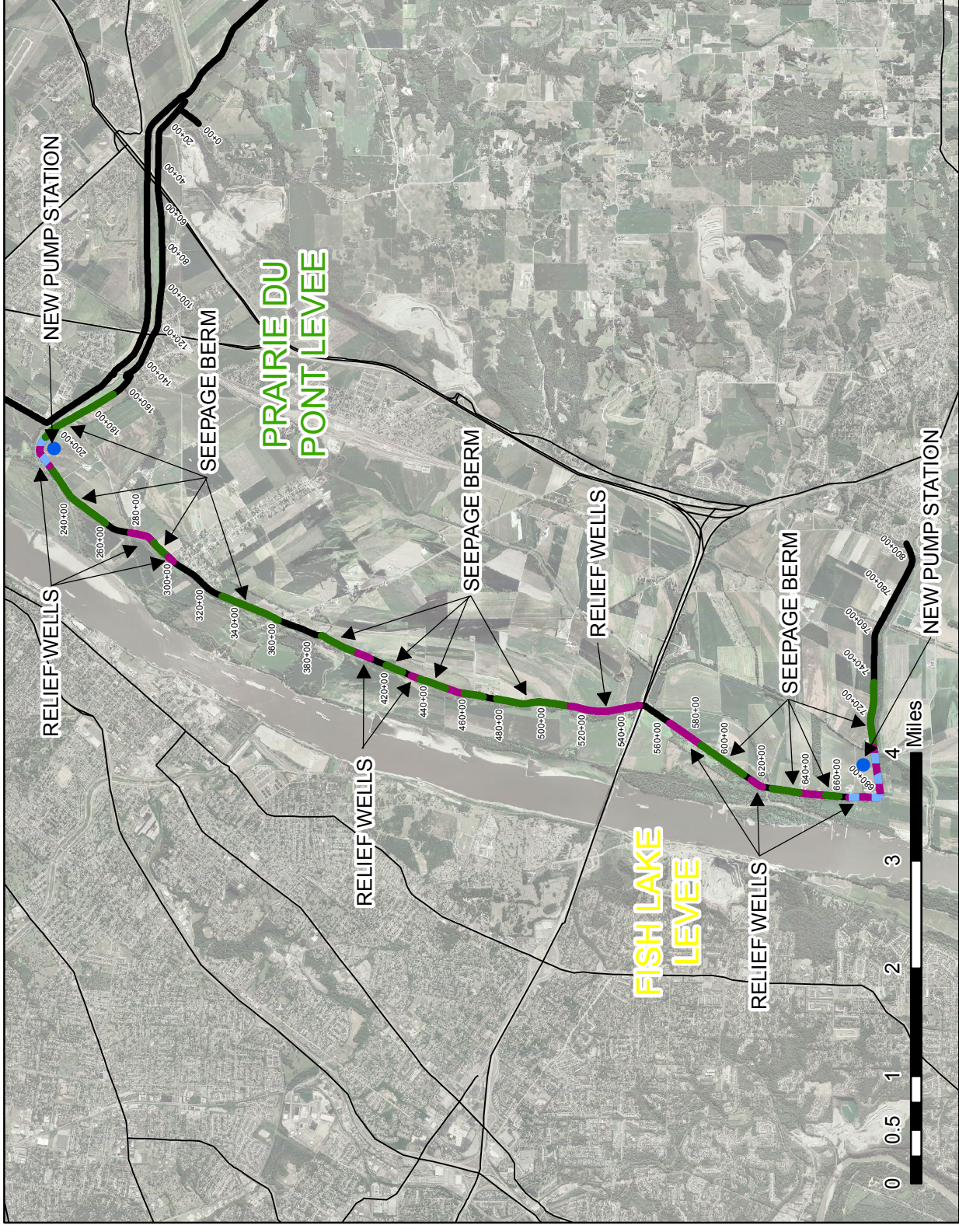
# AUTHORIZED LEVEL DESIGN PRAIRIE DU PONT/FISH LAKE LEVEE

29 JUN 2018



**Legend**

- Layer
- RELIEF WELLS
- RELIEF WELLS AND PUMP STATIONS
- SEEPAGE BERM
- SEEPAGE BERM AND FILL
- LEVEE CENTERLINE









Memo to: Board of Directors  
From: Chuck Etwert  
Subject: Election of Officers for 2018-2019  
Date: August 13, 2018

Under the Council's bylaws, Board officers (President, Vice-President, and Secretary-Treasurer) serve one year terms, must each be from a different County Flood Prevention District and are elected at the Council's Annual Meeting. All Board members are eligible to serve as officers.

The election of officers will take place on August 15, 2018 at the end of the Council's Board meeting.