



**SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL  
BOARD OF DIRECTORS MEETING  
August 17, 2016 7:30 am**

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

1. Call to Order  
*Ron Motil, President*
2. Approval of Minutes of July 20, 2016
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, Amec Foster Wheeler*
7. FY 2017 Flood Prevention District Council Budget  
*Chuck Etwert, Chief Supervisor*
8. Flood Prevention District Council Annual Report  
*Chuck Etwert, Chief Supervisor*
9. Agreement with Ameren Illinois BP #5A  
*Chuck Etwert, Chief Supervisor*
10. Change Orders BP #2C, BP #3, BP #4, & BP #5  
*Amec Foster Wheeler Environment & Infrastructure*  
*Chuck Etwert, Chief Supervisor*

**AGENDA**

11. Prairie Du Pont/Fish Lake Authorized Level Project Summary Report Phase I  
*Amec Foster Wheeler Environment & Infrastructure*  
*Chuck Etwert, Chief Supervisor*
12. Update from Corps of Engineers  
*Michael Feldmann, U.S. Army Corps of Engineers*
13. Election of Officers for 2016 - 2017
14. Public Comment  
  
Executive Session - Litigation
15. Other Business
16. Adjournment

**Next Meeting: September 21, 2016**

## MINUTES

### SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL BOARD OF DIRECTORS MEETING July 20 2016

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 20, 2016.

#### Members in Attendance

Ron Motil, President (Chair, Madison County Flood Prevention District)  
John Conrad, Secretary/Treasurer (Chair, Monroe County Flood Prevention District)  
Bruce Brinkman, Monroe County Flood Prevention District  
John Hamm, Madison County Flood Prevention District  
Tom Long, Madison County Flood Prevention District  
Debra Moore, (Chair, St. Clair County Flood Prevention District)  
Ronald Polka, Monroe County Flood Prevention District

#### Members Absent

Paul Bergkoetter, Vice President (St. Clair County Flood Prevention District)  
Alvin Parks, Jr., St. Clair County Flood Prevention District

#### Others in Attendance

Alan Dunstan, Madison County Board Chair  
Mark Kern, St. Clair County Board Chair  
Terry Liefer, Monroe County Board Chair  
Chuck Etwert, SW Illinois FPD Council  
Randy Cook, Amec Foster Wheeler Environment & Infrastructure  
Mike Feldmann, U.S. Army Corps of Engineers  
Chad Goldschmidt, IUOE Local 520  
Walter Greathouse, Metro-East Sanitary District  
Bobby Green, Laborers Local #100  
Pam Hobbs, Geotechnology  
Gary Hoelscher, Millennia Professional Services  
David Human, Husch Blackwell LLP  
Phil Johnson, Phil Johnson Realtor  
Charles Juneau, Juneau Associates Inc.  
Tracey Kelsey, U.S. Army Corps of Engineers  
Kevin Koenigstein, Monroe County  
Lance Lunte, Lochmueller Group  
Jay Martin, Amec Foster Wheeler Environment & Infrastructure  
Joe Parente, Madison County

Rhonda Sauget, Leadership Council  
Ken Slavens, Husch Blackwell LLP  
Dale Stewart, Southwestern Illinois Building Trades Council  
Matt Vielhaber, U.S. Army Corps of Engineers

**Call to order**

President Ron Motil noted the presence of a quorum and called the meeting to order at 7:31 am.

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

Mr. Polka - Present  
Mr. Brinkman – Present  
Mr. Bergkoetter - absent  
Mr. Conrad - Present  
Mr. Long – Present  
Dr. Moore – Present  
Mr. Motil – Present  
Mr. Parks – absent  
Mr. Hamm – Present

A quorum was present.

**Approval of Minutes of June 15, 2016**

A motion was made by Tom Long, seconded by Debra Moore, to approve the minutes of the Board meeting held on June 15, 2016. Mr. Conrad called the roll and the following votes were made on the motion:

Mr. Polka - Aye  
Mr. Brinkman – Aye  
Mr. Bergkoetter - absent  
Mr. Conrad - Aye  
Mr. Long – Aye  
Dr. Moore – Aye  
Mr. Motil – Aye  
Mr. Parks – absent  
Mr. Hamm - Aye

The motion was approved.

**Public Comment on Pending Agenda Items**

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

### **Program Status Report**

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

He indicated approximately 81% of the \$72.9 million of construction, involved in all nine current construction bid packages, had been completed thru June. The amount of construction work completed during the month was \$1.3 million. The total amount of construction completed is now \$59.0 million.

The elevation of the Mississippi River which was expected to recede to constructible levels early in the month hasn't occurred. Current Corps projections, revised since Monday, now indicate low ground water elevations, allowing contractors to begin the installation of the reinforced concrete pipe approved last fall, won't be reached until the second week of August. The delay of installation continues to have an effect on the completion times of the bid packages involved.

In Prairie Du Pont and Fish Lake, the Corps of Engineers has completed their re-analysis of the areas where there weren't any 100-Year Level improvements or where only seepage berms were installed. Amec Foster Wheeler anticipates presenting the first phase of the Authorized Level Project Summary Report for that portion of the Prairie Du Pont/Fish Lake area in August.

Comments have been submitted on the draft amended Project Partnership Agreements (PPAs) for East St. Louis and Wood River. Once the amended PPAs are finalized, the approval process will begin, with approvals expected to occur early next year. Work In-Kind credit can be accumulated but cannot be utilized until the amended PPAs have been approved.

As mentioned last month, Federal Emergency Management Agency (FEMA) denied the state of Illinois' request for funding assistance regarding the severe storms and flooding in late December and early January. Due to the denial, Amec Foster Wheeler and Husch Blackwell have negotiated a change order reflecting an equitable settlement of costs, which Amec Foster Wheeler will present later at the meeting.

The repair of the Monroe County Road District #5 road damages, as a result of construction of BP #6, has been agreed upon by the parties involved and was to begin last week weather permitting.

On June 28<sup>th</sup> and 29<sup>th</sup>, FEMA held Open House events regarding the FEMA 2016 Madison County Floodplain Work Maps. These events and work maps focused on the interior drainage and floodplain in Madison County.

The FPD, with Amec Foster Wheeler and Husch Blackwell, is preparing to submit the interior drainage mapping developed by Amec Foster Wheeler as part of our written comments on the

work maps presented. I will probably be contacting the county chairs, requesting letters of support, endorsing the use of this mapping for the next map updates.

In the invitation letter to the Madison County communities, FEMA did provide a summary sheet (provided in agenda package), regarding the FPD's Levee Accreditation process. The schedule indicated coincides well with the anticipated completion dates of our projects.

There will be similar meetings held in St. Clair and Monroe Counties in the month of August.

He indicated that on June 30<sup>th</sup>, Jon Omvig and he met with the Corps of Engineers regarding the Corps' award of the Wood River Shallow Cutoff Wall project utilizing the Best Value Tradeoff Approach.

The Corps awarded the contract to Mi-Con, a division of Michels Corporation, whose proposal didn't 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 now needs 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 aren't anticipated.

He indicated that he would continue to work with Amec Foster Wheeler to determine the most effective use of FPD funds.

The Board was provided a copy of an article about the Corps' Wood River Shallow Cutoff Wall decision and Amec Foster Wheeler's Monthly Progress Report for July.

A motion was made by Mr. Polka, seconded by Mr. Brinkman, to accept the Program Status Report for July 2016. Mr. Conrad called the roll and the following votes were made on the motion:

- Mr. Polka - Aye
- Mr. Brinkman - Aye
- Mr. Bergkoetter - absent
- Mr. Conrad - Aye
- Mr. Long - Aye
- Dr. Moore - Aye
- Mr. Motil - Aye
- Mr. Parks - absent
- Mr. Hamm - Aye

The motion was approved unanimously.

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

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

Mr. Etwert noted that the financial statement for June 2016 prepared by our fiscal agent, CliftonLarsonAllen was included in the materials sent for the meeting. The report included an accounting of revenues and expenditures for the month ending June 30, 2016, as compared to the fiscal year budget.

Accrued expenditures for the current fiscal year beginning on October 1, 2015 are \$38,178,246 while revenues amounted to \$9,045,741 resulting in a deficit of \$29,132,505. A total of approximately \$27,531,855 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 for April 2016 (the latest month reported by the Illinois Department of Revenue) were down .96% from last year. Total receipts for the year are up 1.74% from last year, which was our highest year.

The report included bank transactions for June 2016. Total disbursements for the month were \$1,181,809.27. The largest payments were to TREVIICOS South for BP #7B, Keller Construction for BP #3 and BP #5, Lane Construction for BP #6, Amec Foster Wheeler, and Husch Blackwell.

Also, for the Board's review and anyone else who was interested, Mr. Etwert provided copies of each requisition, which was represented on the June 2016 Bank Transaction Schedule prepared by CliftonLarsonAllen.

Mr. Etwert recommended that the Board accept the budget report and disbursements for June 2016.

A motion was made by Mr. Hamm, seconded by Dr. Moore, to accept the budget report and approve the disbursements for June 2016. Mr. Conrad called the roll and the following votes were made on the motion:

Mr. Polka - Aye  
Mr. Brinkman - Aye  
Mr. Bergkoetter - absent  
Mr. Conrad - Aye  
Mr. Long - Aye  
Dr. Moore - Aye  
Mr. Motil - Aye  
Mr. Parks - absent  
Mr. Hamm - Aye

The motion was approved unanimously.

## **Design and Construction Update**

Mr. Motil called on Jay Martin, Amec Foster Wheeler's project manager, to provide a report. Mr. Martin used a PowerPoint® presentation to illustrate his remarks. His presentation, including a few site photos, focused on the construction status of each bid package, FEMA Certification Update, and the Authorized Level (500-Year) Design as follows:

### **Construction Status**

High groundwater/river levels hindered production for several features of work this month.

#### **Bid Package 2B – WR/MESD/PDP Pump Stations**

- Pipe Replacement – Awaiting manageable river/groundwater levels.
- July 13, 2016, Contractor started Site 16 erosion control repair change order.

#### **Bid Package 2C – Site 12 Pump Station Force Mains (MESD)**

- As-Built and closeout documentation are currently being complied.

#### **Bid Package 3 – Wood River Seepage Improvements**

- Seepage Berms – 95% Complete
- Railroad Embankment Fill 1 – Fill is Complete. Farm drain pipe remains.
- Railroad Embankment Fill 2 – 65% Complete.
- Blanket Drain 4 – 95% Complete.
- Punch List work in Lower Wood River ongoing.

#### **Bid Package 4 – MESD Seepage Improvements (Conoco Phillips)**

- Clay Cap - 80% Complete. Husch-Blackwell still trying to resolve existing utility issues.
- Pipe Replacement – Awaiting manageable river/groundwater levels.

#### **Bid Package 5 – MESD Seepage Improvements**

- Clay Cap – Pending design approval from USACE.
- Pipe Replacement – Awaiting manageable river/groundwater levels.



### **Bid Package 6 – Prairie du Pont / Fish Lake Seepage Improvements**

- All work substantially complete. Punch list work in progress.

### **Bid Package 7B – Wood River Lower (Deep) Cutoff Wall**

- Cement Bentonite Cutoff Wall & Clay Cap – Substantially Complete.
- MCT Bike Trail Random Fill – 60% Complete.
- Relief Wells – Two of 7 wells Complete; waiting for river/groundwater levels to fall for remaining installation

### **Construction Photos**

**Bid Package 3 – Wood River – RR Embankment Fill in Progress**

**Bid Package 3 – Wood River – Blanket Drain 4**

**Bid Package 3 – Wood River -IL-143 Road Patch**

**Bid Package 7B – Wood River – Clay Cap in Progress**

**Bid Package 7B – Wood River – MCT Random Fill in Progress**

He next discussed the FEMA Certification packages.

### **FEMA Certification Update**

#### **Upper Wood River**

Continue to work with the USACE on package details

#### **Wood River East & West Forks**

- Certification efforts are underway

#### **Lower Wood River**

- Deep cut-off wall

#### **MESD**

- Pending completion of Bid Packages 2B, 4, & 5.
- 10.5' diameter sewer rehabilitation. Design package submitted.
- Construction Completion 3<sup>rd</sup> Quarter 2016

### **Prairie du Pont & Fish Lake**

- Pending completion of Bid Packages 2B & 6.
- Construction completion 3<sup>rd</sup> Quarter 2016
- Submit to FEMA by 4th Quarter of 2016.

Lastly, he 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 in design; first submittal next month. BP 9 and 10 require additional borings, on hold pending USACE funding.

#### **MESD**

- Will remobilize drilling operations upon receipt of additional locations and access approval from TRRA
- Corps continues to provide additional boring locations as re-evaluation is completed
- Bid Package 14 in design.

#### **PdP/FL**

- Corps has turned over majority of the PdP/FL areas
- Working on Authorized Level Design Report now – will present at August Board Meeting.
- Corps will finalize remaining areas when funds are available

Mr. Motil asked for a motion to accept Mr. Martin's Design and Construction Update report. A motion was made by Mr. Brinkman, with a second by Mr. Polka, to accept the Amec Foster Wheeler progress report. Mr. Conrad called the roll and the following votes were made on the motion:

Mr. Polka - Aye  
Mr. Brinkman – Aye  
Mr. Bergkoetter - absent  
Mr. Conrad - Aye

Mr. Long – Aye  
Dr. Moore – Aye  
Mr. Motil – Aye  
Mr. Parks – absent  
Mr. Hamm - Aye

The motion was approved unanimously.

**Draft FY 2017 Flood Prevention District Council Budget**

Mr. Motil asked Mr. Etwert to present the proposed draft budget:

He explained that it is the custom of the Board to first 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.

The FY 2017 budget focuses on the completion of all construction needed to achieve FEMA accreditation. Unfortunately, during FY2016 we experienced delays due to high river conditions, the Corps of Engineers offering a cost saving construction alternative not previously mentioned (the plastic pipe being replaced with reinforced concrete pipe), and the East St. Louis 126-inch Sewer Project being added the certification process. This has pushed the accreditation schedule back an additional eight to ten months to August/October 2017.

FY 2017 will begin with the nine current construction contract packages being over eighty percent complete, and all of them being completed before the end of the year. The East St. Louis 126-inch Sewer Project should be completed by the end of March 2017.

Certification reports will be submitted to FEMA, approximately four months after each levee system is completed. Amec Foster Wheeler will be preparing reports for Lower Wood River, Wood River East/West Forks, and Prairie Du Pont/Fish Lake.

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

The FEMA accreditation process is anticipated to take four months, but possibly could take longer based on the handout provided at the Madison County Open Houses.

He then discussed the draft FY 2017 budget shown in Table 1.

The construction of the project did not progress as fast as expected in the FY2016. After completing \$14.5 million of construction FY 2014 and \$26.7 million in FY2015, it appears that

approximately \$25 million will be completed in FY 2016, leaving a balance of \$11.2 million to be completed in FY 2017. However, construction of all of the 100-Year Projects will be completed in FY 2017. Administrative expenditures, which are a relatively small portion of the FPD costs, remain virtually unchanged for the next year.

In general, expenditures for next year's budget are based on completion of the 100 Year Level of Protection Projects, and the continuation of the 500-Year Authorized Level Projects. The past practice of making conservative revenue and expenditure assumptions was continued.

Key assumptions are:

1. All 100-Year Level project construction will be completed by March 31, 2017 and FEMA certification will be achieved by late summer or fall of 2017.
2. The level of Council staffing does not change in FY 2017, 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 any surpluses after payment of debt service and Council administrative costs will be transferred back to the county FPD funds for use in future project financing. These transfers are shown as expenditures in the budget.
4. A 10% construction cost contingency is included for all remaining construction on all projects currently being built or to be built.
5. Sales tax revenue is estimated to increase by 1.00% over this year. Our current increase level thru June of this year is 1.74%. 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 will satisfy the Corps of Engineers' five percent cash requirement on future projects constructed by the Corps.
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 being built.
8. With the sale of additional revenue bonds in FY 2016, current Authorized Level funding is anticipated to be about \$86 million.
9. County FPD sales tax funds will be used for the 500-Year Authorized Level Projects, after all of the Council's funds have been utilized.

Table 1

**SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL  
PROPOSED BUDGET  
OCTOBER 1, 2016 THRU SEPTEMBER 30, 2017**

	ACTUAL EXPENDITURES		ADOPTED BUDGET		PROJECTED EXPENDITURES		PROPOSED BUDGET	
	OCTOBER 1, 2014 THRU SEPTEMBER 30, 2015		OCTOBER 1, 2015 THRU SEPTEMBER 30, 2016		OCTOBER 1, 2015 THRU SEPTEMBER 30, 2016		OCTOBER 1, 2016 THRU SEPTEMBER 30, 2017	
<b>REVENUES</b>								
Sales Tax Proceeds From Districts	\$	11,378,530	\$	11,500,000	\$	11,596,054	\$	11,750,000
Interest Income		273,556		75,000		639,682		640,000
Other Contributions						5		-
Total Revenues	\$	11,652,086	\$	11,575,000	\$	12,235,741	\$	12,390,000
<b>EXPENDITURES</b>								
Design and Construction								
Engineering Design & Construction		2,912,215		14,933,787		7,087,879		9,197,055
Management								
Construction		26,860,281		44,674,432		25,295,713		21,340,515
USACE Authorized Level Costs				2,739,245	\$	2,439,618		5,760,115
Total Design and Construction	\$	29,772,496	\$	62,347,464	\$	34,823,210	\$	36,297,685
Professional Services								
Legal & Legislative Consulting		287,219		391,000		457,006		458,500
Diversity Program Manager		64,380		25,130		27,680		25,000
Financial Advisor		28,801		83,200		110,849		65,000
Bond Trustee Fee		9,778		10,000		11,127		12,000
Total Professional Services	\$	390,178	\$	509,330	\$	606,662	\$	560,500
Refund of Surplus Funds to County FPD Accounts								
Total Refund of Surplus Funds to County	\$	3,237,778	\$	4,000,000	\$	4,000,000	\$	4,000,000
Debt Service								
Principal and Interest		7,101,239		7,103,089		9,483,278		10,725,020
Federal Interest Subsidy		(843,700)		(843,700)		(848,250)		(848,250)
Total Debt Service	\$	6,257,539	\$	6,259,389	\$	8,635,028	\$	9,876,770
Total Design & Construction Expenses	\$	39,657,991	\$	73,116,183	\$	48,064,900	\$	50,734,955
General and Administrative Costs								
Salaries, Benefits		193,656		196,500		196,912		203,000
Advertising		-		-		-		-
Bank Service Charges		1,472		1,500		1,536		1,500
Annual IL Lobbyist Registration		311		350		307		350
Equipment and Software		25		2,000		577		2,000
Fiscal Agency Services		27,200		29,000		26,200		30,000
Audit Services		14,500		15,000		15,000		15,500
Meeting Expenses		-		1,000		-		1,000
Postage/Delivery		358		400		369		400
Printing/Photocopies		2,890		2,500		3,999		3,500
Professional Services		191		10,000		257		10,000
Publications/Subscriptions		117		250		118		250
Supplies		2,982		3,000		3,548		3,300
Telecommunications/Internet		2,507		3,000		2,541		3,000
Travel		458		5,000		799		5,000
Insurance		968		1,000		942		1,000
Total General & Administrative Costs		247,635	\$	270,500	\$	253,105		279,800
Total Expenditures		39,905,626	\$	73,386,683	\$	48,318,005		51,014,755
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES		(28,253,540)	\$	(61,811,683)	\$	(36,082,264)	\$	(38,624,755)
OTHER FINANCING SOURCES								
Proceeds From Borrowing		-	\$	77,545,236		83,835,000	\$	-
NET CHANGE IN FUND BALANCE	\$	(28,253,540)	\$	15,733,553	\$	47,752,736	\$	(38,624,755)

Next, he provided a two year expenditure chart, which goes through fiscal year 2017 and includes all costs for the completion of the 100-Year Projects and initial costs for the 500-Year Authorized Level Projects. This chart provided an additional breakdown of expected design and construction costs.

Table 2 indicates estimated Council project expenditures for design, construction and operations.

Table 3 compares expenses to revenues between 7/1/2016 and 9/30/2017.

The table illustrates, as of July 1, 2016, all 2010 Bond Issue construction funds have been spent, the amount of available 2015 Bond Issue construction funds is \$70,216,710, and total amount of individual County FPD funds is \$27,531,855.

Table 4 illustrates that currently anticipated Authorized Level funding is approximately \$86 million.

These tables and the draft budget illustrate that the Council will meet its goal of achieving FEMA certification with the revenue available from the dedicated FPD sales tax and have sufficient funds available for Authorized Level improvements. Easements, high river stages, and construction delays have push accreditation back but the FPD is well on its way to achieving accreditation in 2017.

After considering any comments or suggestions over the next month, a final FY 2017 budget will be presented at the August Board meeting for adoption and forwarding to the county boards for their approval.

Table 2  
**Estimated Project Expenditures 10.1.2015 -9.30.2017**

<b>Design &amp; Construction Management</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>TOTAL 2 YEAR COST</b>
<b>Engineering Design</b>			
<i>W. O. #1 Program Mgmt.</i>	\$212,772	\$239,853	\$452,625
<i>W. O. #3 Preconstruction Activities</i>	\$56,412	\$100,000	\$156,412
<i>W. O. #7 Final Design</i>	\$17,000	\$2,485	\$19,485
<i>W. O. #9 Wood River Cutoff Walls</i>	\$37,412	\$25,000	\$62,412
<i>W. O. #11 FEMA Certification Services</i>	\$71,473	\$224,481	\$295,954
<i>W. O. #12 Authorized Level Planning Services</i>	\$141,999	\$44,577	\$186,576
<i>W.O. #15 East St. Louis Combined Sewer</i>	\$145,014	\$20,000	\$165,014
<b>Authorized Level Work Orders</b>			
<i>W.O. #13 Wood River Field &amp; Design Activities BP #8, #9, &amp; #10</i>	\$546,982	\$175,000	\$721,982
<i>W.O. #13 Wood River Additional (if Corps obtains review funds)</i>	\$185,000	\$1,200,000	\$1,385,000
<i>W.O. #14 MESD Field &amp; Design Activities</i>	\$2,600,449	\$3,000,000	\$5,600,449
<i>Prairie Du Pont/Fish Lake Field Activities</i>	\$0	\$2,400,000	\$2,400,000
<i>Prairie Du Pont/Fish Lake Design</i>	\$50,000	\$600,000	\$650,000
<b>Construction Management.</b>			
<i>W. O. #8 Construction Management BP #1 - #6 &amp; Amendment #4</i>	\$1,748,815	\$600,864	\$2,349,679
<i>W. O. #10 Construction Management BP #7A &amp; #7B</i>	\$1,047,149	\$100,000	\$1,147,149
<i>W.O # ? Construction Management BP #8 &amp; BP #14</i>	\$0	\$50,000	\$50,000
<i>WO#16 Construction Management BP5A (ESTL Sewer)</i>	\$0	\$250,000	\$250,000
<i>QC/Materials Testing</i>	\$227,402	\$164,795	\$392,197
<b>TOTAL ENGINEERING DESIGN &amp; CONSTRUCTION MGMT.</b>	<b>\$7,087,879</b>	<b>\$9,197,055</b>	<b>\$16,284,934</b>
<b>Construction</b>			
<i>Bid Package #2B</i>	\$776,470	\$556,830	\$1,333,300
<i>Bid Package #2C</i>	\$281,632	\$3,390	\$285,022
<i>Bid Package #3</i>	\$6,752,613	\$1,024,311	\$7,776,924
<i>Bid Package #4</i>	\$1,165,306	\$2,668,709	\$3,834,015
<i>Bid Package #5</i>	\$2,154,091	\$6,317,826	\$8,471,917
<i>Bid Package #6</i>	\$1,264,920	\$340,717	\$1,605,637
<i>Bid Package #7B</i>	\$11,715,663	\$1,262,349	\$12,978,012
<i>East St. Louis Combined Sewer</i>	\$0	\$4,000,000	\$4,000,000
<i>Bid Package # 8</i>	\$0	\$400,000	\$400,000
<i>Bid Package #14</i>	\$0	\$400,000	\$400,000
<i>Contingency (10% FPD Construction)</i>	\$0	\$1,697,413	\$1,697,413
<i>Property Acquisition 100-Year Projects</i>	\$123,909	\$0	\$123,909
<i>Property Acquisition Authorized Level - Wood River</i>	\$0	\$125,000	\$125,000
<i>Property Acquisition Authorized Level - East St. Louis</i>	\$0	\$300,000	\$300,000
<i>Property Acquisition Authorized Level - Prairie Du Pont/Fish Lake</i>	\$0	\$175,000	\$175,000
<i>Wetland Mitigation</i>	\$27,970	\$27,970	\$55,940
<i>HazMat Mitigation</i>	\$251,792	\$1,500,000	\$1,751,792
<i>Legal</i>	\$781,347	\$541,000	\$1,322,347
<i>Corps of Eng. Authorized Level Costs (Oversight)</i>	\$2,439,618	\$5,760,115	\$8,199,733
<b>TOTAL CONSTRUCTION</b>	<b>\$27,735,331</b>	<b>\$27,100,630</b>	<b>\$54,835,961</b>
<b>TOTAL ENGINEERING DESIGN &amp; CONSTRUCTION</b>	<b>\$34,823,210</b>	<b>\$36,297,685</b>	<b>\$71,120,895</b>
<b>REFUND OF SURPLUS FUNDS TO COUNTY FPD ACCOUNTS</b>	<b>\$4,000,000</b>	<b>\$4,000,000</b>	<b>\$8,000,000</b>

<b>Operations &amp; Financing</b>			
<b>General &amp; Administrative</b>	\$253,105	\$279,800	\$532,905
<b>Debt Service</b>	\$9,483,278	\$10,725,020	\$20,208,298
<b>Interest Rate Subsidy</b>	(\$848,250)	(\$848,250)	(\$1,696,500)
<b>Professional Services</b>			
Legal	\$361,006	\$362,500	\$723,506
Legislative	\$96,000	\$96,000	\$192,000
Financial Advisor	\$110,849	\$65,000	\$175,849
Diversity Program Mgr.	\$27,680	\$25,000	\$52,680
Bond Trustee	\$11,127	\$12,000	\$23,127
<b>TOTAL OPERATIONS</b>	\$9,494,795	\$10,717,070	\$20,211,865
<b>TOTAL EXPENSES</b>	\$48,318,005	\$51,014,755	\$99,332,760

Table 3

**Estimated Revenues 7.1.2016 - 9.30.2017**

<b>Fund Sources</b>	
Cash on hand (6/30/16)	\$712,058
2010 Bond Project Funds (6/30/2016)	\$0
2015 Bond Project Funds (6/30/2016)	\$70,216,710
County FPD Tax Bal. (6/30/2016)	\$27,531,855
Sales Tax Revenue (7/1/2016-9/30/2016)	\$2,990,000
Interest Income (7/1/2016-9/30/2016)	\$200,000
Sales Tax Revenue (10/1/2016-9/30/2017)	\$11,750,000
Interest Income (10/1/2016-9/30/2017)	\$640,000
<b>Total Available Funds</b>	\$114,040,623

**Estimated Expenditures 7.1.2016 - 9.30.2017**

<b>Expenditures</b>	
Engineering Design and Construction Mgmt. (7/1/2016-9/30/2016)	\$2,729,724
Construction (7/1/2016-9/30/2016)	\$6,119,019
Professional Services (7/1/2016-9/30/2016)	\$149,525
General & Administrative (7/1/2016-9/30/2016)	\$61,590
Federal Interest Subsidy	(\$424,125)
Engineering Design and Construction Mgmt. (10/1/2016-9/30/2017)	\$9,197,055
Construction (10/1/2016-9/30/2017)	\$27,100,630
Professional Services (10/1/2016-9/30/2017)	\$560,500
Debt Service (10/1/2016-9/30/2017)	\$9,876,770
General & Administrative (10/1/2016-9/30/2017)	\$279,800
<b>Estimated Expenditures</b>	\$55,650,488
<b>Net Available Funds</b>	\$58,390,135

Table 4

**Current Anticipated Authorized Level Funding**

Design FY2016 & FY 2017	\$10,994,007
Concrete Pipe Change Orders	\$9,446,022
FPD Construction FY2017	\$1,400,000
Corps of Engineers (Oversight)	\$5,760,115
Construction Contingencies	\$80,000
Net Available Funds (9/30/2017)	\$58,390,135
<b>Total Estimated Available Authorized Level Funds</b>	\$86,070,279



Mr. Motil thanked Mr. Etwert for the report and the additional tables and instructed everyone to contact Mr. Etwert if they had any questions or suggestions.

Mr. Motil asked for a motion to accept Mr. Etwert's report on the Draft FY 2017 Flood Prevention District Council Budget. A motion was made by Mr. Long, with a second by Dr. Moore to accept Mr. Etwert's report on the Draft FY 2017 Flood Prevention District Council Budget. Mr. Conrad called the roll and the following votes were made on the motion:

Mr. Polka - Aye  
Mr. Brinkman – Aye  
Mr. Bergkoetter - absent  
Mr. Conrad - Aye  
Mr. Long – Aye  
Dr. Moore – Aye  
Mr. Motil – Aye  
Mr. Parks – absent  
Mr. Hamm - Aye

The motion was approved.

**Change Orders BP #3, BP #5, BP #6, & BP #7**

Mr. Motil asked Mr. Randy Cook of Amec Foster Wheeler to explain the change orders:

**Bid Package 03 – Hartford Sluice Gate and Manhole Replacement - \$149,482.00**

The Wood River Drainage & Levee District has notified Amec Foster Wheeler that a sluice gate adjacent to the existing Hawthorne Pump Station is in need of repair, rehabilitation, or replacement. Amec Foster Wheeler's underseepage control design relies on the operation of this sluice gate for the operational control in this area; therefore, replacement of this sluice gate has been added to the project. Replacement of the sluice gate was selected over rehabilitation after a condition assessment of the gate by Amec Foster Wheeler and initial cost estimates which indicated that replacement was more cost effective than rehabilitation in this instance.

In the same area, the original plans called for installation of a 48" check valve in the Village of Hartford sewer. In order to install that check valve, there is an existing weir in the upstream manhole that will need to be removed and replaced. A recent field investigation of the manhole showed that the existing brick and mortar manhole has too much structural deterioration to support the new weir. A new, precast concrete, structure will be installed in order to expedite

construction and minimize risk to the new weir structure and check valve. The weir structure diverts sanitary sewer flow, therefore, a failure of the weir would cause sanitary sewer to flow into the roadside ditch adjacent to IL-3, and potentially to the Mississippi River.

There was a discussion regarding the origination of identification of the problem, how many more of these type of issues may exist, responsibility of maintenance, and confirmation that this change order was needed for certification. It was requested that the Board be informed of potential change orders of this magnitude, in a prompt manner, in the future.

**Bid Package 03 – Flood Prevention Efforts June 2015 - \$6,668.24**

During an audit of costs incurred during the flood fight of June 2015, the contractor found costs billed by their subcontractors that had not been submitted to SIFPDC. During the flood fight, the contractor was directed by Amec Foster Wheeler and USACE to fill in all temporary relief well casings that had been pre-drilled with filter pack and/or sand to prevent an uncontrolled seepage path.

There was discussion confirming that Amec Foster Wheeler did verified that the costs were legitimate costs and the work had been authorized.

**Bid Package 03 – Russell Commons Park Imported Fill - \$4,600.00**

As discussed at the September 2015 board meeting, in Upper Wood River (UWR), at Russell Commons Park, there were seven manhole excavations that produced material that consisted of trash/debris. This discovered trash/debris was considered a differing site condition. During an internal audit, the contractor discovered an error in the deductive change order that reduced the original ROM estimate from \$780,000.00 to \$173,328.82. Part A of this change order included removing waste onsite and then replacing with clean imported fill. The contractor discovered an error in their load count totals, thus revising their total load count of imported fill from 415 to 461 loads (46 additional loads). Amec Foster Wheeler has confirmed that the contractor's new load count is accurate and should be compensated at \$100/Load as originally agreed. (46 Loads x \$100/Load = \$4,600.00).

### **Bid Package 03 – Blanket Drain 4 End Section Credit – (\$11,273.20)**

The end section in the original scope of work included a 42” Proco 730 Check valve but was replaced with a standard IDOT 42” precast flared end section. This price includes credit for the full cost of the check valve and an additional cost for the flared end section.

### **Bid Package 03 – Credit Relief Well Floor Drain Deletion – (\$8,793.84)**

Prior to work beginning on BP03, the levee districts voiced their concern with the increased flow coming up through the manhole structure “drains” prior to the river/ground water levels being high enough for the relief wells to flow. This price includes a credit for not installing/purchasing 25 floor drains, salvage value for 8 floor drains that had already been purchased, and an additive cost for plugging 8 floor drains that were installed prior to receiving direction to not install.

- Delete relief well floor drains – 25 @ \$350.00/ea. = (\$8,750)
- Delete relief well floor drains less salvage value – 8 @ \$115.00/ea. = (\$920.00)
- Plug relief well floor drains – 8 @ \$109.52/ea. = \$876.16
- Net Change Order: (\$8,793.84)

### **Bid Package 05 – RW Floor Drain Plugging & Deletion - \$3,850.10**

After completion of all RWs and the HDPE collector systems on BP05, the pump stations constructed under a previous contract were commissioned and put into service. After a few weeks of operating the stations it was noted by the MESD operators that the pump stations were frequently cycling due to the low flow coming up through the manhole structure “drains” at river levels that would not normally warrant operation. As requested by the End User, the contractor submitted a plan to remove the floor drain cap, plug with a 2” mechanical plug, and then cap with grout. This price includes plugging 37 relief well manhole floor drains and a credit for 2 floor drains that were not installed.

- Delete relief well floor drains less salvage value – 2 @ \$101.07/ea. = (\$202.14)
- Plug relief well floor drain – 37 @ \$109.52/ea. = \$4,052.24
- Net Change Order: \$3,850.10

### **Bid Package 06 - Remobilization Charge for RW 70A, 70B, and 70C - \$22,130.00**

The contractor has requested 16 hours of time for ‘remobilization’ due to the unexpected moving their relief well driller in order to avoid areas where temporary construction easements had expired and land owner farm equipment was blocking the area to be drilled. Amec Foster Wheeler has disputed this change order request for over a year, and felt that if anything is owed, then it should be for no more than 8 hours of time associated with remobilization. On June 22, 2016 the contractor sent a letter requesting mediation to resolve this claim. On June 25, 2016 the

contractor offered to settle for 12 hours of time for remobilization, totaling \$22,130.00. The choice is to settle by issuing a change order in the amount of \$22,130.00, or enter into mediation and become susceptible to the complete cost in dispute, which is \$29,506.67. Amec Foster Wheeler is confident that a strong case against the contractor can be made, but the costs for professional services would certainly outweigh the difference between \$29,506.67 and \$22,130.00, and could very well exceed even the total requested amount of \$29,506.67. After discussions with the Chief Supervisor, it was determined, it would be best financially, to proceed with a change order for \$22,130.00.

There was a brief discussion indicating the remobilization took place in the Prairie Du Pont/Fish Lake area.

#### **Bid Package 06 – Quantity Rectification for Seepage Berms and Clay Caps - \$196,152.42**

Throughout the duration of this bid package, the quantity over/under rectifications for earthwork operations on seepage berms and clay caps have been held until all of the work was complete and completed surveys were performed. Over the past several months Amec Foster Wheeler has worked with the contractor, Lane Construction, to determine any additional costs owed to the contractor for unit price earthwork operations. The total additional costs associated with earthwork are \$196,152.42, which is based on the unit prices originally bid by Lane Construction. The bid price for these earthwork items was \$6.07 Million, thereby making this change order approximately 3.2% of the initial bid quantity.

There was a general discussion regarding work performed, lump sum bids and unit cost bids

#### **Bid Package 7B – December 2015 and January 2016 Flood Costs - \$428,578.26**

During the December 2015/January 2016 flood event the contractor for Bid Package 7B (TREVIICOS), and their sub-consultants, performed various tasks associated with flood fighting and protection of ongoing work associated with the flood waters. Additionally, TREVIICOS had costs associated with demobilizing certain equipment in order to avoid inundation by flood waters, as well as costs associated with remobilization. Amec Foster Wheeler and Husch Blackwell reviewed the “Request for Equitable Adjustment #1” submitted by TREVIICOS, which totaled approximately \$825,000. After a review of the contract and daily reports, as well as several discussions with TREVIICOS, it was determined that only a portion of the costs requested by TREVIICOS were allowed/owed by the terms of the contract. The allowable/owed costs amount to \$428,578.26. In addition to the costs, the TREVIICOS completion schedule was

extended; however, this time extension does not impact the overall certification timeline for the Lower Wood River levee section.

Mr. Motil requested the change order requests be considered on a bid package basis.

Mr. Motil requested a motion to authorize the Chief Supervisor to approve the requested change orders for BP #3 - Hartford Sluice Gate and Manhole Replacement \$149,482.00; Flood Prevention Efforts June 2015 \$6,668.24; Russell Commons Park Imported Fill \$4,600.00; Blanket Drain 4 End Section Credit (11,273.20); and Credit Relief Well Floor Drain Deletion (\$8,793.84) with Keller Construction at a cost not to exceed \$140,683.20.

A motion was made by Mr. Motil, with a second by Mr. Conrad to authorize the Chief Supervisor to approve the requested change orders for BP #3 - Hartford Sluice Gate and Manhole Replacement \$149,482.00; Flood Prevention Efforts June 2015 \$6,668.24; Russell Commons Park Imported Fill \$4,600.00; Blanket Drain 4 End Section Credit (11,273.20); and Credit Relief Well Floor Drain Deletion (\$8,793.84) with Keller Construction at a cost not to exceed \$140,683.20. Mr. Conrad called the roll and the following votes were made on the motion:

Mr. Polka - Aye  
Mr. Brinkman – Aye  
Mr. Bergkoetter - absent  
Mr. Conrad - Aye  
Mr. Long – No  
Dr. Moore – No  
Mr. Motil – Aye  
Mr. Parks – absent  
Mr. Hamm - No

The motion was approved.

Mr. Motil requested a motion to authorize the Chief Supervisor to approve the requested change order for BP #5 - RW Floor Drain Plugging & Deletion \$3,850.10 with Keller Construction at a cost not to exceed \$3,850.10.

A motion was made by Mr. Brinkman, with a second by Mr. Polka to authorize the Chief Supervisor to approve the requested change order for BP #5 - RW Floor Drain Plugging & Deletion \$3,850.10 with Keller Construction at a cost not to exceed \$3,850.10. Mr. Conrad called the roll and the following votes were made on the motion:

Mr. Polka - Aye  
Mr. Brinkman – Aye  
Mr. Bergkoetter - absent

Mr. Conrad - Aye  
Mr. Long – Aye  
Dr. Moore – Aye  
Mr. Motil – Aye  
Mr. Parks – absent  
Mr. Hamm - Aye

The motion was approved.

Mr. Motil requested a motion to authorize the Chief Supervisor to approve the requested change orders for BP #6 - Remobilization Charge for RW 70A, 70B, and 70C \$22,130.00 and Quantity Rectification for Seepage Berms and Clay Caps \$196,152.42 with Lane Construction at a cost not to exceed \$218,282.42.

A motion was made by Mr. Long, with a second by Mr. Hamm to authorize the Chief Supervisor to approve the requested change orders for BP #6 - Remobilization Charge for RW 70A, 70B, and 70C \$22,130.00 and Quantity Rectification for Seepage Berms and Clay Caps \$196,152.42 with Lane Construction at a cost not to exceed \$218,282.42. Mr. Conrad called the roll and the following votes were made on the motion:

Mr. Polka - Aye  
Mr. Brinkman – Aye  
Mr. Bergkoetter - absent  
Mr. Conrad - Aye  
Mr. Long – Aye  
Dr. Moore – Aye  
Mr. Motil – Aye  
Mr. Parks – absent  
Mr. Hamm - Aye

The motion was approved.

Mr. Motil requested a motion to authorize the Chief Supervisor to approve the requested change order for BP # 7B - December 2015 and January 2016 Flood Costs \$428,578.26 with TREVIICOS South at a cost not to exceed \$428,578.26.

A motion was made by Mr. Hamm, with a second by Mr. Brinkman to authorize the Chief Supervisor to approve the requested change order for BP # 7B - December 2015 and January 2016 Flood Costs \$428,578.26 with TREVIICOS South at a cost not to exceed \$428,578.26.

Mr. Conrad called the roll and the following votes were made on the motion:

Mr. Polka - Aye  
Mr. Brinkman – Aye  
Mr. Bergkoetter - absent  
Mr. Conrad - Aye  
Mr. Long – Aye  
Dr. Moore – Aye  
Mr. Motil – Aye  
Mr. Parks – absent  
Mr. Hamm - Aye

The motion was approved.

### **Corps of Engineers Update**

Mr. Motil asked Ms. Kelsey to provide the report from the Corps.

Ms. Kelsey provided an update of the current activities of the Corps using a PowerPoint® presentation to illustrate her remarks. Her presentation focused on Mel Price, Wood River NFIP Certification, East St. Louis (MESD), and Wood River as follows:

### **USACE UPDATE**

#### **Mel Price**

- Relief Well Construction complete. Addressing punch list items.

#### **Wood River NFIP Certification**

- Wood River Upper LSER – FEMA submittal pending final receipt of O&M manuals and as-built drawings.  
Additional MVS comments provided June 29

#### **East St. Louis (MESD)**

- Received request for Approval of the System Wide Improvement Framework (SWIF) Letter of Intent (LOI) on July 6, 2016 for conditional extension of USACE PL 84-99 Program Eligibility
- PPA WIK amendment submitted to MVD July 11, 2016

- Received 408 submittal for design of interim solution for 10.5' gravity drain July 13, 2016
- BCRA team members meeting this week to review the pipe inventory for entire system
- Established schedule for path forward for bid package P&S completion – Bid Package 14 Berms

### **Wood River**

- Conducting reviews of deep cutoff wall Phase 2 design
- Wood River Shallow Cutoff Wall Phase 2  
Contract award June 30, 2016  
NTP issued July 20, 2016
- PPA WIK amendment submitted to MVD July 11,2016
- Established schedule for path forward for FPD bid package P&S completion – Bid Package 8 Relief Wells/Pump Station

Mr. Etwert requested copies of the PPA WIK amendments be provided to the Council.

He also asked when the FPD could expect to receive comments or approval on the 10.5' gravity drain submittal, as this is probably the most critical FEMA project, as far as completion of construction is concerned. She indicated that the submittal had been distributed for review and a schedule should be available in a week or so.

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

Mr. Polka - Aye  
 Mr. Brinkman – Aye  
 Mr. Bergkoetter - absent  
 Mr. Conrad - Aye  
 Mr. Long – Aye  
 Dr. Moore – Aye  
 Mr. Motil – Aye  
 Mr. Parks – absent  
 Mr. Hamm - Aye

The motion was approved unanimously.



**Public Comment**

Mr. Motil asked if there is any public comment. There was none.

Mr. Motil asked to adjourn the public session and convene an executive session regarding litigation matters.

Mr. Long made a motion at 8:27 am to convene a closed session under Open Meetings Act 5 ILCS 120/2 (c) (11) for the purpose of discussing the litigation. The motion was seconded by Mr. Brinkman. It was indicated that all Board members and County Chairs should be present, along with Chuck Etwert, David Human, Ken Slavens, Jay Martin, Randy Cook, and Joe Parente. Mr. Conrad called the roll and the following votes were made on the motion:

Mr. Polka - Aye  
Mr. Brinkman – Aye  
Mr. Bergkoetter - absent  
Mr. Conrad - Aye  
Mr. Long – Aye  
Dr. Moore - Aye  
Mr. Motil – Aye  
Mr. Parks – absent  
Mr. Hamm – Aye

The motion was approved unanimously and the Board went into executive session.

Chairman Dunstan and Chairman Kern did not attend the executive session. Chairman Liefer left at 8:48 a.m.

Mr. Hamm made a motion to adjourn the executive session and reconvene the public session at 9:17 am. Mr. Long seconded the motion. Mr. Conrad called the roll and the following votes were made on the motion:

Mr. Polka - Aye  
Mr. Brinkman – Aye  
Mr. Bergkoetter - absent  
Mr. Conrad - Aye  
Mr. Long – Aye  
Dr. Moore – Aye  
Mr. Motil – Aye  
Mr. Parks – absent  
Mr. Hamm – Aye

Mr. Motil called the meeting to order.

**Other Business**

There was no other business.

**Adjournment**

A motion was made by Mr. Hamm, seconded by Mr. Long to adjourn the meeting. The motion was approved unanimously by voice vote, all voting aye.

Respectfully submitted,

John Conrad,  
Secretary/Treasurer, Board of Directors



amec  
foster  
wheeler

## Progress Report July 20, 2016

### Southwestern Illinois Levee Systems

By Jay Martin



## Construction Status



High groundwater/river levels hindered production for several features of work this month.

- ▶ Bid Package 2B – WR/MESD/PdP Pump Stations
  - ▶ Pipe Replacement – Awaiting manageable river/groundwater levels.
  - ▶ July 13, 2016, Contractor started Site 16 erosion control repair change order.
  
- ▶ Bid Package 2C – Site 12 Pump Station Force Mains (MESD)
  - ▶ As- Built and closeout documentation are currently being compiled.



## Construction Status

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- ▶ Bid Package 3 – Wood River Seepage Improvements
  - ▶ Seepage Berms – 95% Complete.
  - ▶ Railroad Embankment Fill 1 – Fill is Complete. Farm drain pipe remains.
  - ▶ Railroad Embankment Fill 2 – 65% Complete.
  - ▶ Blanket Drain 4 – 95% Complete.
  - ▶ Punch List work in Lower Wood River ongoing.
  
- ▶ Bid Package 4 – MESD Seepage Improvements (Conoco Phillips)
  - ▶ Clay Cap – 80% Complete. Husch-Blackwell still trying to resolve existing utility issues.
  - ▶ Pipe Replacement – Awaiting manageable river/groundwater levels.

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3



## Construction Status

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- ▶ Bid Package 5 – MESD Seepage Improvements
  - ▶ Clay Cap – Pending design approval from USACE.
  - ▶ Pipe Replacement – Awaiting manageable river/groundwater levels.
  
- ▶ Bid Package 6 – Prairie du Pont / Fish Lake Seepage Improvements
  - ▶ All work substantially complete. Punch list work in progress.
  
- ▶ Bid Package 7B – Wood River Lower (Deep) Cut-off Wall
  - ▶ Cement Bentonite Cutoff Wall & Clay Cap – Substantially Complete.
  - ▶ MCT Bike Trail Random Fill – 60% Complete.
  - ▶ Relief Wells – Two of 7 wells Complete; waiting for river/groundwater levels to fall for remaining installation

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## Bid Package 3 – Wood River



RR Embankment  
Fill In Progress



## Bid Package 3 – Wood River



Blanket Drain 4



## Bid Package 3 – Wood River



IL-143 Road Patch



## Bid Package 7B – Wood River



Clay Cap in Progress



## Bid Package 7B – Wood River



## FEMA Certification Update



- ▶ Upper Wood River
  - ▶ Continue to work with the USACE on package details
  
- ▶ Wood River East & West Forks
  - ▶ Certification efforts are underway
  
- ▶ Lower Wood River
  - ▶ Deep cut-off wall



## FEMA Certification Update

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### ► MESD

- Pending completion of Bid Packages 2B, 4, & 5.
- 10.5' diameter sewer rehabilitation. Design package submitted.
- Construction Completion 3<sup>rd</sup> Quarter 2016

### ► Prairie du Pont & Fish Lake

- Pending completion of Bid Packages 2B & 6.
- Construction completion 3<sup>rd</sup> Quarter 2016
- Submit to FEMA by 4<sup>th</sup> Quarter of 2016.



## Authorized Level (500-Year) Design

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### Wood River – Bid Packages 8, 9 and 10

- Bid Package 8 in design; first submittal next month. BP 9 and 10 require additional borings, on hold pending USACE funding.

### MESD – Bid Packages 11, 12, 13 and 14

- Will remobilize drilling operations upon receipt of additional locations and access approval from TRRA.
- Corps continues to provide additional boring locations as re-evaluation is completed.
- Bid Package 14 in design.

### PdP/FL

- Corps has turned over majority of the PdP/FL areas
- Working on Authorized Level Design Report now – will present at Aug. Board Meeting
- Corps will finalize remaining areas when funds are available.



Questions?



## USACE UPDATE

- Mel Price
  - Relief Well Construction complete. Addressing punch list items.
  
- Wood River NFIP Certification
  - Wood River Upper LSER - FEMA submittal pending final receipt of O&M manuals and as built drawings. Additional MVS comments provided June 29.



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- East St. Louis (MESD)
  - Received request for Approval of the System Wide Improvement Framework (SWIF) Letter of Intent (LOI) on July 6, 2016 for conditional extension of USACE PL 84-99 Program Eligibility
  - PPA WIK amendment submitted to MVD July 11, 2016
  - Received 408 submittal for design of interim solution for 10.5' gravity drain July 13, 2016
  - BCRA team members meeting this week to review the pipe inventory for entire system
  - Established schedule for path forward for bid package P&S completion – Bid Package 14 Berms



BUILDING STRONG®

## Metro East Projects, IL

- Wood River
  - Conducting reviews of deep cutoff wall Phase 2 design
  - Wood River Shallow Cutoff Wall Phase 2
    - Contract award June 30, 2016
    - NTP issued July 20, 2016.
  - PPA WIK amendment submitted to MVD July 11, 2016
  - Established schedule for path forward for FPD bid package P&S completion – Bid Package 8 Relief Wells/Pump Station



BUILDING STRONG®





Memo to: Board of Directors  
From: Chuck Etwert  
Subject: Program Status Report for August 2016  
Date: August 15, 2016

Approximately 82% of the \$73.7 million of construction, involved in all nine current construction bid packages, has been completed thru July. The amount of work completed during the month was \$1.3 million. The total amount of construction completed is \$60.3 million.

The elevation of the Mississippi River which was expected to recede to constructible levels early in the month hasn't occurred. Corps projections, early last week, had indicated low ground water elevations would be reached on August 14th, allowing contractors to begin the installation of the reinforced concrete pipe approved last fall.

However, as of today, the river has risen 3.25 feet in the last 24 hours and no forecasts have been issued within the last two days. The delay of installation continues to have an effect on the completion times of the bid packages involved. In addition, some expenditures originally projected for FY 2016 have been moved into FY 2017. This will be discussed in the annual budget presentation.

Amec Foster Wheeler will be presenting the first phase of the Authorized Level Project Summary Report for the Prairie Du Pont/Fish Lake Levee System at the August meeting.

The amended Project Partnership Agreements (PPAs) for East St. Louis and Wood River have been submitted to the Corps' Mississippi Valley Division for review. Next will be review by Headquarters, with approvals expected to occur early next year. Work In-Kind credit can be accumulated but cannot be utilized until the amended PPAs have been approved.

The repairs of the Monroe County Road District #5 road damages, as a result of the construction of BP #6, have been completed by Lane Construction and the County Highway Department. The County will be invoicing Lane Construction for the repair work performed by the County.

As mentioned last month, on August 9<sup>th</sup> and 10<sup>th</sup>, FEMA held Open House events regarding the FEMA 2016 County Floodplain Work Maps for St. Clair and Monroe Counties. These events,

similar to the events held in Madison County in June, focused on work maps and the interior drainage and floodplain in Counties.

The August Board meeting is also the “annual meeting” of the Council where the Board adopts a budget and annual report for submittal to the county boards for approval, and where new officers are elected for the coming fiscal year.

I have also included in your Board packet, a copy of Amec Foster Wheeler’s Monthly Progress Report for August.



Southwestern Illinois Flood Prevention District Council  
c/o Charles Ewert  
104 United Drive  
Collinsville, IL 62234

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## **Monthly Project Progress Report August 2016**

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AMEC FOSTER WHEELER Project No. 563170001  
Period Ending Date: August 8, 2016

*Date of Issue: August 12, 2016*

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# 1. OVERVIEW

## 1.1 Project Description

Levees along the east side of the Mississippi River within four levee districts have been found to be out of compliance with FEMA Requirement 44CFR 65.10 and therefore have been de-certified. The four districts are: Wood River Drainage and Levee District, Metro-East Sanitary District, Prairie du Pont Drainage and Levee District, and Fish Lake Drainage and Levee District. The counties involved have formed an overarching entity called the Southwestern Illinois Flood Prevention District Council (SIFPDC). Amec Foster Wheeler has been selected by the SIFPDC to design and manage the construction of levee system improvements necessary to demonstrate compliance with FEMA Requirement 44CFR 65.10.

**Bid Package 2A** is composed of the construction of one (1) pump station within the Fish Lake Levee District System.

**Bid Package 2B** is composed of the construction of five (5) pump stations within the Wood River, MESD, and Prairie du Pont Levee Districts.

**Bid Package 2C** is composed of the installation of two force mains and associated structures from Site 12 pump station to levee discharge.

**Bid Package 3** is composed of the construction of seepage control improvements within the Wood River Drainage and Levee District Levee System.

**Bid Package 4** is composed of the construction of seepage control improvements within the Metro East Sanitary District Levee System, from Station 1209+00 to 1242+00. This package also includes the construction of one (1) pump station.

**Bid Package 5** is composed of the construction of seepage control improvements within the Metro East Sanitary District Levee System.

**Bid Package 6** is composed of the construction of seepage control improvements within the Prairie du Pont Drainage and Levee District and Fish Lake Drainage and Levee District Levee Systems.

**Bid Package 7A** is composed of the construction of a shallow cut-off wall and flush clay cap near the upstream portion of the Upper Wood River Levee System, from station 20+00 to 38+00.

**Bid Package 7B** is composed of the construction of a deep cut-off wall and protruding clay cap in the Lower Wood River Levee System, from station 132+00 to 170+00.

## 1.2 Amec Foster Wheeler Scope

Based on baseline budgets and baseline schedules, monitor and manage the program performance.

- track program cost
- monitor program budget
- track program progress
- monitor program schedule
- complete earned value analysis, performance measurements and forecasting
- schedule and cost variance management and corrective action plans

## 1.3 Key Contacts / People

Program Manager	Jay Martin, PE, 615.333.0630 <a href="mailto:jay.w.martin@amecfw.com">jay.w.martin@amecfw.com</a>
Project Manager	Jon Omvig, AICP, 636.200.5118 <a href="mailto:jon.omvig@amecfw.com">jon.omvig@amecfw.com</a>
Resident Engineer	Jim Solari, PE, 314.478-9287 <a href="mailto:james.solari@amecfw.com">james.solari@amecfw.com</a>
Construction QA Manager	Kevin Williams, PMP, 618.401.7226 <a href="mailto:kevin.williams@amecfw.com">kevin.williams@amecfw.com</a>
Project Coordinator	Kendra Mitchom, 618.346.9120 <a href="mailto:kendra.mitchom@amecfw.com">kendra.mitchom@amecfw.com</a>

## 2. HEALTH, SAFETY, SECURITY, ENVIRONMENT (HSSE)

### 2.1 HSSE Reports

<b>Health/Safety</b>		
The Contractors continues to conduct weekly toolbox safety talks.		
<b>Security</b>		
No issues during this reporting period.		
<b>Environment (SWPPP)</b>		
Forms submitted as required		
<b>River Stage Restrictions</b>		
The USACE 408 permit dictates that excavations shall cease when the Mississippi River Stage is:		
<b>Bid Package</b>	<b>River Stage</b>	<b>River Elevation</b>
2A	17.0	396.94
2B	27.06	407.00
2C	15.03	394.97 (Mel Price)
3	16.0	411.48 (Mel Price)
4	25.0	404.94
5	25.0	404.94
6	25.0	404.94
7A	21.52	417.0 (Mel Price)
7B	21.52	417.0 (Mel Price)

### 3. PROJECT STATUS UPDATE

#### 3.1 Bid Package 2A

##### 3.1.1 Calendar

Bid Date:	June 11, 2013
Contract executed	October 11, 2013
Schedule received	October 29, 2013
Anticipated start of field activities	January 22, 2014
Start of field activities	January 27, 2014
Completion date	<i>December 1, 2014</i>
Final Walk Through	Substantial completion August 12, 2014
Final Acceptance	<i>December 1, 2014</i>

##### 3.1.2 Progress

- Complete

##### 3.1.3 Property Acquisition

- Complete

##### 3.1.4 Levee Board Considerations

- None

##### 3.1.5 Submittals

- Complete

##### 3.1.6 Change Orders

- Complete

##### 3.1.7 Field Activities and Look Ahead

- Complete

##### 3.1.8 QC/QA Activities

- Complete

##### 3.1.9 Considerations

- None

##### 3.1.10 Payment Progress

- Complete

### 3.2 Bid Package 2B

#### 3.2.1 Calendar

Bid Date:	October 1, 2013
Contract executed	December 16, 2013
Schedule received	December 17, 2013
Anticipated start of field activities	February 17, 2014
Start of field activities	March 2016
Contract completion date	September 30, 2016 (Contractor has formally requested a time extension)
Final Walk Through	
Final Acceptance	

#### 3.2.2 Progress - Piping Change Order

- The high groundwater levels and the Mississippi River elevation prevented additional work until July 13, 2016. On July 13, 2016, the Contactor started installing the erosion control at Site 16 and completed the majority of work at that site.
- The groundwater/river elevations have since come up and no further work has been completed on this bid package.

#### 3.2.3 Property Acquisition

- All property is acquired

#### 3.2.4 Levee Board Considerations

- None

#### 3.2.5 Submittals

- Complete

#### 3.2.6 Change Orders

- See attached log

#### 3.2.7 Field Activities and Look Ahead

- None

#### 3.2.8 QC/QA Activities

- None

#### 3.2.9 Considerations

- None

#### 3.2.10 Payment Progress

- See Contract Invoice Log attached

### 3.3 Bid Package 2C

#### 3.3.1 Calendar

Bid Date:	November 12, 2014
Contract executed	February 9, 2015
Schedule received	Posted in SharePoint
Anticipated start of field activities	October 15, 2015
Start of field activities	October 15, 2015
Contract completion date	April 29, 2016
Final Walk Through	
Final Acceptance	

#### 3.3.2 Progress

- Contractor complete with construction work.

#### 3.3.3 Property Acquisition

- All property is acquired.

#### 3.3.4 Levee Board Considerations

- None

#### 3.3.5 Submittals

- Closeout submittals are pending.

#### 3.3.6 Change Orders

- As noted on the Board Change Order Memo

#### 3.3.7 Field Activities and Look Ahead

- No field activity.

#### 3.3.8 QC/QA Activities

- Final QC/QA documents need to be reviewed and accepted.

#### 3.3.9 Payment Progress

- See attached log.

### 3.4 Bid Package 3

#### 3.4.1 Calendar

Bid Date:	December 3, 2013
Contract executed	January 27, 2014
Schedule received	December 3, 2013
Anticipated start of field activities	As noted below.
Start of field activities	Varied
Contract completion date	Upper Wood River is substantially complete. Lower Wood River - September 30, 2016. <i>(Pending change orders will extend the final completion date)</i>
Final Walk Through	
Final Acceptance	

#### 3.4.2 Progress

- Minor work at Wagon Wheel remaining.
- Blanket Drain 4 change order work in progress.
- Contractor on hold for the soil placement at Random Fill 1 and Random Fill 2 areas and working as weather allows.
- Contractor installing 8 inch SDR farm drain pipe

#### 3.4.3 Property Acquisition

- All property is obtained.

#### 3.4.4 Levee Board Considerations

- None other than previously mentioned.

#### 3.4.5 Submittals

- As required.

#### 3.4.6 Change Orders

- See change order log attached and Board Change Order Memo.

#### 3.4.7 Field Activities and Look Ahead

- See above Progress

#### 3.4.8 QC/QA Activities

- Testing as required.

#### 3.4.9 Considerations

- None other than previously mentioned.

#### 3.4.10 Payment Progress

- See attached Contract invoice log

### 3.5 Bid Package 4

#### 3.5.1 Calendar

Bid Date:	December 3, 2013
Contract executed	February 6, 2014
Schedule received	December 3, 2013
Anticipated start of field activities	February 24, 2014
Start of field activities	March 17, 2014
Contract completion date	September 30, 2016 (the remainder of the work has not been released and the Contractor will request a time extension)
Final Walk Through	
Final Acceptance	

#### 3.5.2 Progress

- Clay cap earthwork was started on August 17, 2015 and is about 80% complete. Clay cap work was put on hold until the pipeline issues are resolved.
- Site 09 pump station complete except the fencing and ground loop installation around the station.
- Five Piezometer of 13 are installed. The remaining piezometer installation is on hold until the collection pipe and clay cap are complete.

#### 3.5.3 Property Acquisition

- All property acquired.

#### 3.5.4 Levee Board Considerations

- None

#### 3.5.5 Submittals

- On-going

#### 3.5.6 Change Orders

- See Change Order Log attached and Board Change Order Memo.

#### 3.5.7 Field Activities and Look Ahead

- No work this month

#### 3.5.8 QC/QA Activities

- None

#### 3.5.9 Considerations

- None

#### 3.5.10 Payment Progress

- See Contract Invoice Log attached.



### 3.6 Bid Package 5

#### 3.6.1 Calendar

Bid Date:	December 3, 2013
Contract executed	January 27, 2014
Schedule received	December 3, 2013
Anticipated start of field activities	February 17, 2014
Start of field activities	February 17, 2014
Contract completion date	September 30, 2016 <i>(change orders will extend the final completion date)</i>
Final Walk Through	
Final Acceptance	

#### 3.6.2 Progress

- This month, the Mississippi River elevation has prohibited starting construction associated with the pipe material change order.
- The hybrid clay cap work has begun. The Contractor is clearing and scraping rip rap.

#### 3.6.3 Property Acquisition

- All property is acquired. This project may extend into next year and TCE may need to be extended.

#### 3.6.4 Levee Board Considerations

- None.

#### 3.6.5 Submittals

- Complete

#### 3.6.6 Change Orders

- See change order log attached and Board Change Order Memo.

#### 3.6.7 Considerations

- None other than previously mentioned.

#### 3.6.8 Payment Progress

- See Contract Invoice Log attached.

### 3.7 Bid Package 6

#### 3.7.1 Calendar

Bid Date:	June 11, 2013
Contract executed	October 3, 2013
Schedule received	October 31, 2013
Anticipated start of field activities	November 11, 2013
Start of field activities	November 19, 2013
Contract completion date	<i>Substantial completion July 26, 2016; Final completion September 8, 2016.</i>
Final Walk Through	
Final Acceptance	

#### 3.7.2 Progress

- Contractor working on punch list items.
- Contract on-hold for the Pulcher Change order until PCN approval. *(Once approved, this change orders will extend the final completion date)*
- Contractor to perform the clay cap change order work abandonment. Recently, USACE has questioned the new pipe as SDR material. USACE indicated that they normally do not allow "plastic pipe" in the levee. USACE has requested a copy of the 408 installation permit. A search is being performed for the 408 permit. A new pipe will not be installed unless approved by USACE. USACE may direct us not to use SDR, which may increase the change order cost. The new pipe installation is on hold.

#### 3.7.3 Property Acquisition

- None

#### 3.7.4 Levee Board Considerations

- None.

#### 3.7.5 Submittals

- On going

#### 3.7.6 Change Orders

- See change order log attached.

#### 3.7.7 Field Activities and Look Ahead

- Contractor is working on punch list items.

#### 3.7.8 QC/QA Activities

- As required

#### 3.7.9 Considerations

- None

#### 3.7.10 Payment Progress

- See Contract Invoice Log attached.

### 3.8 Bid Package 7A

#### 3.8.1 Calendar

Bid Date:	August 13, 2014
Contract executed	September 17, 2014
Schedule received	October 1, 2014
Anticipated start of field activities	October 6, 2014
Start of field activities	October 6, 2014
Anticipated completion date	June 26, 2015 (contract completion date).
Final Walk Through	July 10, 2015
Final Acceptance	The project is complete.

#### 3.8.2 Progress

- This project is complete.

#### 3.8.3 Property Acquisition

- Not applicable.

#### 3.8.4 Levee Board Considerations

- None.

#### 3.8.5 Submittals

- Complete

#### 3.8.6 Change Orders

- See change order log attached.

#### 3.8.7 Field Activities

- This project is complete.

#### 3.8.8 QC/QA Activities

- None.

#### 3.8.9 Considerations

- None.

#### 3.8.10 Payment Progress

- See Contract Invoice Log attached.

### 3.9 Bid Package 7B

#### 3.9.1 Calendar

Bid Date:	August 13, 2014
Contract executed	September 12, 2014
Schedule received	June 19, 2015
Anticipated start of field activities	August 2015
Start of field activities	July 2015
Contract completion date	<i>Substantial completion June 26, 2016; Final completion September 23, 2016.</i>
Final Walk Through	
Final Acceptance	

#### 3.9.2 Progress

- Clay Cap and Panel installations are complete.
- Contractor proceeding with the MCT bike trail work.
- Contractor has installed 2 of the 7 relief wells, but the work is stopped due to high groundwater. Contract to await groundwater elevation of 402 before finishing the 5 relief wells.

#### 3.9.3 Property Acquisition

- Not applicable

#### 3.9.4 Levee Board Considerations

- None

#### 3.9.5 Submittals

- On-going.

#### 3.9.6 Change Orders

- See change order log attached.

#### 3.9.7 Field Activities and Look Ahead

- Relief Well construction began but is on hold pending low ground water stage.

#### 3.9.8 QC/QA Activities

- Geotechnology as required.

#### 3.9.9 Considerations

- None.

#### 3.9.10 Payment Progress

- See Contract Invoice Log attached.

**CONTRACT INVOICE LOG**

**Contractor:** Korte & Luitjohan Contractors, Inc  
 12052 Highland Road  
 Highland, IL 62249

**Project:** SWILCD  
**Construction Package:** BP2A

**Original Contract Amount:** \$747,500.00  
**Change Order #1:** \$2,245.00      Limitorque Actuator  
**Change Order #2:** \$7,730.00      Additional Road Aggregate  
**Change Order #3:** \$434.00      Monroe County Building Permit  
**Change Order #4:** \$0.00      Contract Time Extension  
**Change Order #5:** \$0.00      Contract Time Extension 2  
**Change Order #6:** \$0.00      Contract Time Extension 3  
**Change Order #7:** \$5,189.21      Additional Rock and Testing  
**Change Order #8:** \$34,501.32      Stumpf Property Pipe Extension  
**Total Change Order Amount:** \$50,099.53  
**Total Revised Contract Amount:** \$797,599.53

Payment Request No.	Pay Request Date	Pay Request Recommended Approval Date	Total Completed to Date (\$)	Amount Retained (10% to 50%) then (5% to 95%)	Total Earned Less Retained	Current Payment Invoice	Date Paid by FPD	Estimate to Complete Including Retainage (\$)
<u>1</u>	11/15/2013	11/27/2013	\$11,000.00	\$1,100.00	\$9,900.00	\$9,900.00	11/1/2013	\$737,600.00
<u>2</u>	2/5/2014	2/10/2014	\$76,000.00	\$7,600.00	\$68,400.00	\$58,500.00	2/18/2014	\$679,100.00
<u>3</u>	3/6/2014	3/13/2014	\$228,500.00	\$22,850.00	\$205,650.00	\$137,250.00	3/25/2014	\$541,850.00
<u>4</u>	3/31/2014	4/15/2014	\$372,400.00	\$37,240.00	\$335,160.00	\$129,510.00	4/22/2014	\$420,504.00
<u>5</u>	4/30/2014	5/13/2014	\$432,500.00	\$43,250.00	\$389,250.00	\$54,090.00	5/22/2014	\$366,414.00
<u>6</u>	5/31/2014	6/10/2014	\$635,890.00	\$50,742.00	\$585,148.00	\$195,898.00	6/19/2014	\$170,516.00
<u>7</u>	6/30/2014	7/14/2014	\$684,000.00	\$53,147.00	\$630,853.00	\$45,705.00	7/17/2014	\$124,811.00
<u>8</u>	7/31/2014	8/12/2014	\$753,929.00	\$37,895.45	\$716,033.55	\$85,180.55	8/19/2014	\$39,630.45
<u>9</u>	8/31/2014	9/9/2014	\$759,118.21	\$37,895.45	\$721,222.76	\$5,189.21	9/15/2014	\$41,875.45
<u>10</u>	11/30/2014	12/12/2014	\$797,599.53	\$38,094.45	\$759,505.08	\$38,282.32	12/18/2014	\$38,094.45
<u>11</u>	12/31/2014	1/15/2015	\$797,599.53	\$1,800.00	\$795,799.53	\$36,294.45	1/26/2015	\$1,800.00
<u>12</u>	3/31/2015	4/10/2015	\$797,599.53	\$0.00	\$797,599.53	\$1,800.00	4/16/2015	\$0.00



**CONTRACT INVOICE LOG**

**Contractor:** Korte & Luitjohan Contractors, Inc  
 12052 Highland Road  
 Highland, IL 62249

**Project:** SWILCD  
**Construction Package:** BP2B

**Original Contract Amount:** \$3,865,405.00  
**Change Order #1:** \$434.00 Monroe County Building Permit  
**Change Order #2:** \$7,965.00 Additional Road Aggregate  
**Change Order #3:** \$0.00 Fence and Aggregate Changes  
**Change Order #4:** \$8,570.00 Razor Wire on Fence per MESD Request  
**Change Order #5:** \$0.00 Contract Time Extension  
**Change Order #6:** \$50,600.00 Site 16 Duct Bank  
**Change Order #7:** \$4,760.00 Site 12 Existing Force Mains  
**Change Order #8:** \$74,200.00 Site 10 Electrical Changes  
**Change Order #9:** \$0.00 Time Extension  
**Change Order #10:** \$10,276.92 Site 12 Guard Rail  
**Change Order #11:** \$1,314,600.00 Pipe Material Change & Erosion Control  
**Change Order #12:** \$8,700.00 Fence Repair Site 5  
**Total Change Order Amount:** \$1,480,105.92  
**Total Revised Contract Amount:** **\$5,345,510.92**

Payment Request No.	Pay Request Date	Pay Request Recommended Approval Date	Total Completed and Store to Date	Cumulative Retained (10% to 50%) then (5% to 95%)	Total Earned Less Retained	Current Payment Invoice	Date Paid by FPD	Estimate to Complete Including Retainage(\$)
1	2/5/2014	2/10/2014	\$51,750.00	\$5,175.00	\$46,575.00	\$46,575.00	<a href="#">2/18/2014</a>	\$3,818,830.00
2	3/6/2014	3/13/2014	\$132,450.00	\$13,245.00	\$119,205.00	\$72,630.00	<a href="#">3/25/2014</a>	\$3,746,634.00
3	3/31/2014	4/15/2014	\$504,300.00	\$50,430.00	\$453,870.00	\$334,665.00	<a href="#">4/22/2014</a>	\$3,419,934.00
4	4/30/2014	5/13/2014	\$846,000.00	\$84,600.00	\$761,400.00	\$307,530.00	<a href="#">5/22/2014</a>	\$3,112,404.00
5	5/31/2014	6/12/2014	\$1,295,000.00	\$129,500.00	\$1,165,500.00	\$404,100.00	<a href="#">6/19/2014</a>	\$2,708,304.00
6	6/30/2014	7/14/2014	\$1,736,000.00	\$173,600.00	\$1,562,400.00	\$396,900.00	<a href="#">7/17/2014</a>	\$2,311,404.00
7	7/31/2014	8/11/2014	\$2,180,100.00	\$205,850.00	\$1,974,250.00	\$411,850.00	<a href="#">8/19/2014</a>	\$1,899,554.00
8	8/31/2014	9/8/2014	\$2,927,440.00	\$243,217.00	\$2,684,223.00	\$709,973.00	<a href="#">9/15/2014</a>	\$1,198,151.00
9	9/30/2014	10/9/2014	\$3,144,000.00	\$255,524.00	\$2,888,476.00	\$204,253.00	<a href="#">10/16/2014</a>	\$1,044,498.00
10	10/31/2014	11/7/2014	\$3,420,000.00	\$269,324.00	\$3,150,676.00	\$262,200.00	<a href="#">11/18/2014</a>	\$787,058.00
11	11/30/2014	12/12/2014	\$3,648,600.00	\$282,764.00	\$3,365,836.00	\$215,160.00	<a href="#">12/18/2014</a>	\$646,098.00
12	12/31/2014	1/12/2015	\$3,840,000.00	\$292,334.00	\$3,547,666.00	\$181,830.00	<a href="#">1/26/2015</a>	\$464,268.00
13	1/31/2015	2/9/2015	\$3,897,320.00	\$295,200.00	\$3,602,120.00	\$54,454.00	<a href="#">2/18/2015</a>	\$409,814.00
14	2/28/2015	3/10/2015	\$3,968,238.00	\$298,710.00	\$3,669,528.00	\$67,408.00	<a href="#">3/19/2015</a>	\$342,406.00
15	3/31/2015	4/10/2015	\$4,011,934.00	\$200,596.00	\$3,811,338.00	\$141,810.00	<a href="#">4/16/2015</a>	\$200,596.00
16	4/30/2015	5/12/2015	\$4,011,934.00	\$10,000.00	\$4,001,934.00	\$190,596.00	<a href="#">5/18/2015</a>	\$20,276.92
17	7/31/2015	8/11/2015	\$4,022,210.92	\$10,000.00	\$4,012,210.92	\$10,276.92	<a href="#">8/20/2015</a>	\$1,324,600.00
18	1/31/2016	2/11/2016	\$4,063,110.92	\$12,045.00	\$4,051,065.92	\$38,855.00	<a href="#">2/17/2016</a>	\$1,285,745.00
19	2/29/2016	3/11/2016	\$4,078,810.92	\$12,830.00	\$4,065,980.92	\$14,915.00	<a href="#">3/17/2016</a>	\$1,270,830.00
20	3/31/2016	4/14/2016	\$4,253,410.92	\$21,560.00	\$4,231,850.92	\$165,870.00	<a href="#">4/20/2016</a>	\$1,113,660.00
21	7/31/2016	8/5/2016	\$4,443,410.92	\$31,060.00	\$4,412,350.92	\$180,500.00		\$933,160.00

**TITLE: CONSTRUCTION CHANGE ORDER LOG**

**CLIENT:** Southwestern Illinois Flood Prevention District Council  
**PROJECT Bid Package 2B**

**PROJECT NUMBER:** SIFPDC-BP2B

Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments
1	Building Permit	Field	\$434.00	\$0.00	2B.1	\$ 32,720.00	1.33%	0.01%	2/24/2014	Approved	Required by Monroe County
2	Additional Roadway Aggregate	Field	\$7,965.00	\$0.00	2B.3	\$ 171,825.00	4.64%	0.21%	3/18/2014	Approved	Required by Monroe County
3	Site 10, 12, 15 fence and aggregate changes	Field	\$0.00	\$0.00	NA	NA	0.00%	0.00%	8/12/2014	Approved	Field changes to enable constructability and provide maintenance ease
4	Razor Wire on Fence	Other	\$0.00	\$8,570.00	NA	NA	NA	0.22%	8/19/2014	Approved	Razor wire on fence at Site 10, 12, & 16 per MESD Levee District request; To be paid by MESD
5	Time Extension	Other	\$0.00	\$0.00	NA	NA	0.00%	0.00%	8/19/2014	Approved	Time extension for July 2014 weather/high river days that impeded construction
6*	Site 16 Duct Bank	Field	\$50,600.00	\$0.00	2B.55	\$ 23,990.00	210.92%	1.31%	9/29/2014	Approved	USACE required underground electrical service to pump station per Ameren; Ameren to credit FPD amount paid to Ameren for overhead lines; Board approval required
7	Site 15 Grating and Supports	Field	\$4,760.00	\$0.00		\$ 352,645.00	1.35%	0.12%	10/17/2014	Approved	Grating and support for Site 15 to enable functionality of the system
8*	Site 10 Electric Change	Field	\$74,200.00	\$0.00	2B.27	\$ 17,705.00	419.09%	1.92%	11/19/2014	Approved	Ameren requires upgrades to the existing pump station at Site 10. Board approval required
9	Time Extension	Other	\$0.00	\$0.00	NA	NA	0.00%	0.00%	12/2/2014	Approved	Request for Time Extension to move our completion date to 4/15/15 due to the contract documents for Bid Package 2B contractor is only allowed to work at Site 12 between October 15th to March 15th.
10	Site 12 Guard Rail	Field	\$10,276.92	\$0.00	NA	NA	NA	0.27%	4/17/2015	Approved	Install approximately 74 LF of FRP handrails per the attached drawings for OSHA compliance
11*	Pipe Material Change - Sites 5, 10, 12, 16; Erosion Control Sites 9, 10, 16	Other	\$1,314,600.00	\$0.00	NA	NA	NA	34.01%	12/3/2015	Approved	Pump station sites 5, 10, 12, 16 pipe replacement to meet the Authorized Level flood event design
12*	Fence Repair Site 5	Field	\$8,700.00	\$0.00	NA	NA	NA	0.23%	3/17/2016	Approved	Fence Repair Site 5
	<b>Total of Project Change Orders</b>		<b>\$1,471,535.92</b>	<b>\$8,570.00</b>						<b>Total</b>	<b>\$ 1,480,105.92</b>
	<b>Original Contract Amount</b>										
	<b>Revised Contract Amount</b>		<b>5,345,510.92</b>								
				<b>% Change from Original Amount</b>							
								<b>38.29%</b>			

Approved

\*Board approval required





**TITLE: CONSTRUCTION CHANGE ORDER LOG**

**CLIENT:** Southwestern Illinois Flood Prevention District Council  
**PROJECT Bid Package 2C**

**PROJECT NUMBER:** SIFPDC-BP2C

Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments
1	Flood Damages	Other	\$3,390.00	\$0.00	NA	NA	NA	1.20%	5/18/2016	Approved	Flood Damages caused by Dec. 2015 flood; approved in 5/18/16 Board meeting
3											
4											
5											
6											
7											
8											
9											
10											
<b>Total of Project Change Orders</b>			<b>\$3,390.00</b>	<b>\$0.00</b>						<b>Total</b>	<b>\$ 3,390.00</b>
Original Contract Amount			285,022.00	% Change from Original Amount		1.20%					
Original Contract Amount			\$281,632.00			Approved					

\*Board approval required

**CONTRACT INVOICE LOG**

**Contractor:** Keller Construction, Inc.  
22 Illini Drive  
Glen Carbon, IL 62034

**Project:** SWILCD  
**Construction Package:** BP03

<b>Original Contract Amount:</b>	\$ 10,082,345.00	
<b>Change Order 1</b>	\$ 1,000.00	IDOT Permit
<b>Change Order 2</b>	\$ 16,600.00	PZ 39 Relocate
<b>Change Order 3</b>	\$ 11,361.00	Russell Commons Fence R&R
<b>Change Order 4</b>	\$ 2,245.60	Hydro Excavating
<b>Change Order 5</b>	\$ 3,071.25	Additional RW Permits
<b>Change Order 6</b>	\$ 278,694.99	RR3 for Blanket Drains
<b>Change Order 7</b>	\$ 57,436.00	Indian Creek Extra Rip Rap
<b>Change Order 8</b>	\$ (5,820.00)	Credit to Remove Vacuum Testing of Manholes
<b>Change Order 9</b>	\$ 558,086.80	Hawthorne Changes North & South including Ameren
<b>Change Order 10</b>	\$ 477,917.72	Blanket Drain 2 Revisions
<b>Change Order 11</b>	\$ (59.97)	Credit for Blanket Drain 1 Revisions
<b>Change Order 12</b>	\$ 60,362.00	Toe Wall and Handrails Wiers 2, 3, and 4
<b>Change Order 13</b>	\$ 6,825.00	Additional Pollution Coverage UPRR
<b>Change Order 14</b>	\$ 28,950.00	Pilot Hole Drilling
<b>Change Order 15</b>	\$ (9,729.58)	Hawthorne Pipe Changes
<b>Change Order 16</b>	\$ 132,710.00	Russell Commons Buried Waste Part A & B
<b>Change Order 17</b>	\$ 257,694.47	Relief Well Construction Obstructions
<b>Change Order 18</b>	\$ 17,403.75	Tree Mitigation
<b>Change Order 19</b>	\$ 15,620.78	Relief Well 1016 1064 1065 Modifications
<b>Change Order 20</b>	\$ 111,256.88	Relief Well Construction Obstructions
<b>Change Order 21</b>	\$ 108,620.79	Relief Well Construction Obstructions
<b>Change Order 22</b>	\$ 40,618.82	Russell Commons Buried Waste Part A Deduct & Part C
<b>Change Order 23</b>	\$ (35,779.00)	Credit for Delete PZs_Add Bollards
<b>Change Order 24</b>	\$ 103,824.76	Relief Well Construction Obstructions RW 1069-1073 Weir 4 Handrail; Wagon Wheel Bore Shoring, Excavation, and Removal of Abandoned Line;
<b>Change Order 25</b>	\$ 113,188.00	Hawthorne impacted material near Weir 3
<b>Change Order 26</b>	\$ (135,402.86)	Credit Farm Ditch Revision and Random Fill 1
<b>Change Order 27</b>	\$ 493,474.58	Blanket Drain 4 Revisions
<b>Change Order 28</b>	\$ 125,536.21	Relief Well Construction Obstruction RW 1069-1073
<b>Change Order 29</b>	\$ (29,887.27)	Wagon Wheel Bore
<b>Change Order 30</b>	\$ (8,793.84)	Credit Relief Well Floor Drain Elimination/Plugging
<b>Change Order 31</b>	\$ 149,482.00	Hartford Sluice Gate and Manhole Replacement
<b>Change Order 32</b>	\$ 11,268.24	Flood Prevention Efforts June 2015; Russell Commons Park Imported Fill
<b>Change Order 33</b>	\$ (11,273.20)	Blanket Drain 4 End Section Credit
<b>Total Change Order Amount:</b>	\$2,946,503.92	
<b>Total Revised Contract Amount:</b>	<b>\$13,028,848.92</b>	

Payment Request No.	Pay Request Date	Pay Request Recommended Approval Date	Total Completed to Date (\$)	Amount Retained (10% to 50%) then (5% to 95%)	Total Earned Less Retainage (\$)	Amount Invoiced (\$)	Date Paid by FPD	Estimate to Complete Including Retainage (\$)
1	2/28/2014	4/15/2014	\$249,000.00	\$24,900.00	\$224,100.00	\$224,100.00	4/22/2014	\$9,858,245.00
2	5/31/2014	6/4/2014	\$250,000.00	\$25,000.00	\$225,000.00	\$900.00	6/19/2014	\$9,858,345.00
3	8/31/2014	9/8/2014	\$376,066.83	\$37,606.68	\$338,460.15	\$113,460.15	9/15/2014	\$9,744,884.85
4	9/30/2014	10/3/2014	\$467,927.21	\$46,792.72	\$421,134.49	\$82,674.34	10/16/2014	\$9,678,810.51
5	10/31/2014	11/11/2014	\$710,218.88	\$71,021.89	\$639,196.99	\$218,062.50	11/18/2014	\$9,477,425.86
6	11/30/2014	12/11/2014	\$1,014,409.54	\$101,440.97	\$912,968.57	\$273,771.58	12/18/2014	\$9,539,785.27
7	12/31/2014	1/15/2015	\$1,365,095.95	\$136,509.61	\$1,228,586.34	\$315,617.77	1/26/2015	\$9,224,167.50
8	1/31/2015	2/6/2015	\$1,684,373.38	\$168,437.36	\$1,515,936.02	\$287,349.68	2/18/2015	\$8,930,997.82
9	2/28/2015	3/6/2015	\$2,291,243.38	\$229,124.37	\$2,062,119.01	\$546,182.99	3/19/2015	\$8,384,814.83
10	3/31/2015	4/10/2015	\$2,960,453.69	\$296,045.42	\$2,664,408.27	\$602,289.26	4/16/2015	\$8,340,612.37
11	4/30/2015	5/10/2015	\$3,387,089.05	\$338,708.97	\$3,048,380.08	\$383,971.81	5/18/2015	\$8,494,860.31
12	5/31/2015	6/11/2015	\$4,044,518.10	\$404,451.87	\$3,640,066.23	\$591,686.15	6/16/2015	\$7,903,174.16
13	6/30/2015	7/9/2015	\$4,748,651.45	\$474,865.21	\$4,273,786.24	\$633,720.01	7/14/2015	\$7,269,454.15
14	7/31/2015	8/11/2015	\$4,975,167.70	\$497,516.83	\$4,477,650.87	\$203,864.63	8/20/2015	\$7,065,589.52
15	8/31/2015	9/11/2015	\$5,669,386.46	\$566,938.72	\$5,102,447.74	\$624,796.87	9/16/2015	\$6,476,567.65
16	9/30/2015	10/9/2015	\$6,896,917.07	\$689,691.78	\$6,207,225.29	\$1,104,777.55	10/21/2015	\$5,752,464.99
17	10/16/2015	10/28/2015	\$7,386,596.95	\$738,659.77	\$6,647,937.18	\$440,711.89	11/3/2015	\$5,456,034.51
18	10/31/2015	11/13/2015	\$8,269,013.54	\$413,450.71	\$7,855,562.83	\$1,207,625.65	11/17/2015	\$4,357,029.65
19	11/15/2015	12/4/2015	\$8,346,301.68	\$417,315.12	\$7,928,986.56	\$73,423.73	12/10/2015	\$4,324,224.74
20	11/30/2015	12/28/2015	\$8,778,734.65	\$489,987.55	\$8,288,747.10	\$359,760.54	12/31/2016	\$3,928,685.20
21	12/31/2015	1/11/2016	\$8,888,544.52	\$498,712.65	\$8,389,831.87	\$101,084.77	1/20/2016	\$3,827,600.43
22	1/31/2016	2/8/2016	\$9,002,576.95	\$508,695.88	\$8,493,881.07	\$104,049.20	2/17/2016	\$3,723,551.23
23	2/29/2016	3/10/2016	\$9,690,470.24	\$502,088.79	\$9,188,381.45	\$694,500.38	3/17/2016	\$3,132,875.61
24	3/31/2016	4/14/2016	\$10,753,362.39	\$554,699.89	\$10,198,662.50	\$1,010,281.05	4/20/2016	\$2,719,390.49

Payment Request No.	Pay Request Date	Pay Request Recommended Approval Date	Total Completed to Date (\$)	Amount Retained (10% to 50%) then (5% to 95%)	Total Earned Less Retainage (\$)	Amount Invoiced (\$)	Date Paid by FPD	Estimate to Complete Including Retainage (\$)
25	4/30/2016	5/12/2016	\$11,194,941.66	\$570,893.11	\$10,624,048.55	\$425,386.05	<a href="#">5/17/2016</a>	\$2,294,004.44
26	5/31/2016	6/10/2016	\$11,448,599.71	\$591,271.28	\$10,857,328.43	\$233,279.88	<a href="#">6/16/2016</a>	\$2,030,837.29
27	6/30/2016	7/7/2016	\$12,210,826.40	\$611,843.66	\$11,598,982.74	\$741,654.31	<a href="#">7/15/2016</a>	\$1,280,389.14
28	7/31/2016	8/2/2016	\$12,293,289.38	\$615,296.07	\$11,677,993.31	\$79,010.57		\$1,350,855.61

**TITLE: CONSTRUCTION CHANGE ORDER LOG**

**CLIENT:** Southwestern Illinois Flood Prevention District Council  
**PROJECT:** Bid Package 03

**PROJECT NUMBER:** SIFPDC-BP03

Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments
1	IDOT Permit	Other	\$1,000.00	\$0.00	3.01	\$ 498,000.00	0.20%	0.01%	5/21/2014	Approved	IDOT Required Permit
2	Piezometer 39 Relocate	Field	\$16,600.00	\$0.00	3.30	\$ 307,224.00	5.40%	0.16%	9/18/2014	Approved	Post bid design change to enable more effective operability
3	Russell Commons Fence Remove and Replace	Field	\$11,361.00	\$0.00	NA	NA	NA	0.11%	10/2/2014	Approved	Remove and replace fence installed by property owner post bid
4	Additional Hydro Excavating	Field	\$2,245.60	\$0.00	3.39	\$ 1,884,009.24	0.12%	0.02%	10/8/2014	Approved	Due to the relocation of RW's 1077 to 1080; added costs for hydro excavation
5	Permits for relief well conversions due to change with IL Public Health Dept	Other	\$3,071.25	\$0.00	3.37	\$ 82,812.00	3.71%	0.03%	10/22/2014	Approved	Permits for relief well conversions due to change with IL Public Health Dept
6*	RR3 Material for Blanket Drains-pending verifying material	Field	\$278,694.99	\$0.00	3.08-3.14	\$ 2,034,478.00	13.70%	2.76%	11/19/2014	Approved	Blanket Drains material change from CA1 to RR3 to improve effectiveness; Change requires Board approval
7*	Indian Creek Rip Rap	Field	\$57,436.00	\$0.00	3.40	\$ 193,713.36	29.65%	0.57%	11/19/2014	Approved	Due to the extreme scour of the banks and creek bed since the time of the original design, in order for the per plan design to be constructed, it is going to require a substantial amount of additional rip rap RR4 to be placed. Board approval required
8	Credit-Remove Vacuum Testing of Manholes	Other	\$ (5,820.00)	\$0.00	3.29	\$ 37,896.00	-15.36%	-0.06%	2/2/2015	Approved	PCN approved to remove the requirements for ASTM C1244 Standard Test Method for Concrete Sewer
9*	Hawthorne Changes North & South including Ameren	Other	\$558,086.80	\$0.00	3.02 3.04 3.06 3.07 3.29 3.32	\$ 1,884,009.24	29.62%	5.54%	2/18/2015	Approved	Change Description submitted in change order memo for Board approval 2/18/15
10*	Blanket Drain 2 Revisions & RW 1077 to 1080 Changes	Other	\$477,917.72	\$0.00	3.02 3.09 3.09 3.16 3.23 3.25 3.26 3.29 3.36 3.37			4.74%	2/18/2015	Approved	Change Description submitted in change order memo for Board approval 2/18/15; change order pending credit before processing
11	Blanket Drain 1 Revisions	Other	\$ (59.97)	\$0.00	3.08	\$ 15,160.00	-0.40%	0.00%	2/26/2015	Approved	Revised limits of Blanket Drain 1 and change surface aggregate material
12*	Toe Wall and Handrails Wiers 2, 3, and 4	Field	\$ 60,362.00	\$0.00	3.48 3.49 3.50	\$ 381,000.00	15.84%	0.60%	4/15/2015	Approved	Toe wall for additional structural support due to the field conditions and soil types the weirs are being installed in. The toe walls were added to mitigate this potential failure. Handrails were added to the weirs as a result of OSHA regulations and for added maintenance personnel safety during inspections and flood events.
13*	Additional Pollution Coverage UPRR	Other	\$ 6,825.00	\$0.00	3.01	\$ 498,000.00	1.37%	0.07%	8/19/2015	Approved	Additional Pollution Coverage required by Union Pacific Railroad
14*	Pilot Hole Drilling	Other	\$ 28,950.00	\$0.00	3.32	\$ 147,604.20	19.61%	0.29%	8/19/2015	Approved	Actual field conditions may vary and it is recommended by the project geotechnical lead to add to this number for potential field variations. Therefore the anticipated pilot hole increase is for an additional 300 feet. Board approval required
15*	Hawthorne Pipe Changes	Field	\$ (9,729.58)	\$0.00	3.18 3.20 3.23 3.25 3.26	\$ 414,895.57	-2.35%	-0.10%	9/16/2015	Approved	Hawthorne Pipe Changes; Board approval required
16*	Russell Commons Buried Waste Part A & B	Field	\$ 132,710.00	\$0.00	NA	NA	NA	1.32%	9/16/2015	Approved	Russell Commons Buried Waste backfill, testing, material handling; Board approval required

**TITLE: CONSTRUCTION CHANGE ORDER LOG**

**CLIENT:** Southwestern Illinois Flood Prevention District Council  
**PROJECT:** Bid Package 03

**PROJECT NUMBER:** SIFPDC-BP03

Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments
17*	Relief Well Construction Obstruction	Other	\$257,694.47	\$0.00	3.38	\$ 3,507,071.90	7.35%	2.56%	10/9/2015	Approved	RW Construction Obstruction due to Cobble Layer; Board approval required; 3/18/15 Board approved budget
18*	Tree Mitigation	Other	\$17,403.75	\$0.00	NA	NA	NA	0.17%	10/22/2015	Approved	Tree Replacement Plan for Trees Removed Within the IDOT ROW
19*	Relief Well 1016, 1064, 1065 Modifications	Field	\$15,620.78	\$0.00	3.38	\$ 3,507,071.90	0.45%	0.15%	10/22/2015	Approved	Relief Well 1016, 1064, 1065 Modifications
20*	Relief Well Construction Obstruction	Other	\$111,256.88	\$0.00	3.38	\$ 3,507,071.90	3.17%	1.10%	10/27/2015	Approved	RW Construction Obstruction due to Cobble Layer; Board approval required; 3/18/15 Board approved budget
21*	Relief Well Construction Obstruction	Other	\$108,620.79	\$0.00	3.38	\$ 3,507,073.90	3.10%	1.08%	11/13/2015	Approved	RW Construction Obstruction due to Cobble Layer; Board approval required; 3/18/15 Board approved budget
22*	Russell Commons Buried Waste Part A Deduct & Part C	Field	\$40,618.82	\$0.00	NA	NA	NA	0.40%	11/19/2015	Approved	Russell Commons Buried Waste removal (part of ROM estimate given at the 9/16/15 Board meeting)
23	Delete Duplicate PZ's Per PCN-044 (Credit)	Field	\$ (35,779.00)	\$0.00	3.30	\$ 506,016.00	-7.07%	-0.35%	12/16/2015	Approved	Credit for deletion of duplicate piezometers
24	Relief Well Construction Obstruction RW 1069-1073	Other	\$ 103,824.76	\$0.00	3.38	\$ 3,507,073.90	2.96%	1.03%	3/4/2016	Approved	RW Construction Obstruction due to Cobble Layer; Board approval required; 1/20/16 Board approved budget
25*	Weir 4 Handrail; Wagon Wheel Bore Shoring, Excavation, and Removal of Abandoned Line; Hawthorne impacted material near Weir 3	Field	\$ 113,188.00	\$0.00	NA	NA	NA	1.12%	3/16/2016	Approved	Weir 4 Handrail; Wagon Wheel Bore Shoring, Excavation, and Removal of Abandoned Line; Hawthorne impacted material near Weir 3; Contract Time Extended to 9/30/16
26*	Farm Ditch Revision and Random Fill 1	Field	\$ (135,402.86)	\$0.00	3.33	\$ 433,434.89	-31.24%	-1.34%	3/16/2016	Approved	Farm Ditch Revision and Random Fill 1
27*	Blanket Drain 4 revisions	Other	\$ 493,474.58	\$0.00	3.44	\$ 350,747.77	140.69%	4.89%	3/16/2016	Approved	Blanket Drain 4 revisions
28	Relief Well Construction Obstruction RW 1069-1073	Field	\$ 125,536.21	\$0.00	3.38	\$ 3,507,073.90	3.58%	1.25%	3/31/2016	Approved	RW Construction Obstruction due to Cobble Layer; Board approval required; 1/20/16 Board approved budget
29	Wagon Wheel Road Tunnel	Field	\$ (29,887.27)	\$0.00	3.16	\$ 107,253.77	-27.87%	-0.30%	4/1/2016	Approved	Credit for Wagon Wheel Road Tunnel revisions
30	Credit Relief Well Floor Drain Elimination/Plugging	Field	\$ (8,793.84)	\$0.00	3.38	\$ 3,507,073.90	-0.25%	-0.09%	6/15/2016	Approved	Credit for deletion of relief well floor drains
31*	Hartford Sluice Gate and Manhole Replacement	Other	\$ 149,482.00	\$0.00	NA	NA	NA	1.48%	7/20/2016	Approved	Hartford Sluice Gate and Manhole Replacement; Board approval required
32*	Flood Prevention Efforts June 2015; Russell Commons Park Imported Fill	Field	\$ 11,268.24	\$0.00	NA	NA	NA	0.11%	7/20/2016	Approved	Flood Prevention Efforts June 2015; Russell Commons Park Imported Fill; Board approval required
33*	Blanket Drain 4 End Section Credit	Field	\$ (11,273.20)	\$0.00	3.11	\$ 94,800.00	-11.89%	-0.11%	7/20/2016	Approved	Blanket Drain 4 End Section Credit
			<b>Total of Project Change Orders</b>	<b>\$2,946,503.92</b>	<b>\$0.00</b>					<b>Total</b>	<b>\$ 2,946,503.92</b>

**Original Contract Amount** \$10,082,345.00  
**Revised Contract Amount** 13,028,848.92  
**% Change from Original Amount** 29.22%

\*Board approval required

**CONTRACT INVOICE LOG**

**Contractor:** Haier Plumbing  
 301 North Elkton Street, P. O. Box 400  
 Okawville, IL 62271

**Project:** SWILCD  
**Construction Package:** BP04

<b>Original Contract Amount:</b>	\$3,190,232.45	
<b>Change Order #1:</b>	\$8,196.30	Flyght Pump & Locking Sewer Lids per MESD
<b>Change Order #2:</b>	\$949.90	Fence Polycarbonate
<b>Change Order #3:</b>	\$10,488.00	Fence Grounding per Ameren
<b>Change Order #4:</b>	\$1,533.00	2 Additional Posts in Concrete per Phillips 66 Request
<b>Change Order #5:</b>	\$2,127.35	Time and material for new fence grounding
<b>Change Order #6:</b>	\$2,402.40	Per MESD Request
<b>Change Order #7:</b>	\$0.00	Contract Time Extension
<b>Change Order #8:</b>	\$1,656.00	2" Well Point SS Pipe
<b>Change Order #9:</b>	\$54,680.20	Site 9 Electrical Changes
<b>Change Order #10:</b>	\$35,602.21	Work Stoppage due to Soil Testing
<b>Change Order #11:</b>	\$80,046.18	Relief Well Construction Obstruction due to Cobble
<b>Change Order #12:</b>	\$0.00	Contract Time Extension to June 30, 2015
<b>Change Order #13:</b>	\$8,981.67	Relief Well 141XB Re-Design
<b>Change Order #14:</b>	\$948.75	Offset Oufall Line of RW 153X
<b>Change Order #15:</b>	\$79,051.00	Clay Cap Benching and Key Volume (3,437 CY)
<b>Change Order #17:</b>	\$2,882,782.25	Pipe Material Change
<b>Change Order #18:</b>	\$13,660.00	Flood Event Emergency Pumping at Site 9
<b>Change Order #19:</b>	-\$29,295.61	Relief Well Quantity Rectification Credit
<b>Change Order #20:</b>	\$23,943.00	CA06 Rock Placement; Clay Cap Blanket and Loss Time
<b>Total Change Order Amount:</b>	\$3,177,752.60	
<b>Total Revised Contract Amount:</b>	<b>\$6,367,985.05</b>	

Payment Request No.	Pay Request Date	Pay Request Recommended Approval Date	Total Completed to Date (\$)	Amount Retained (10% to 50%) then (5% to 95%)	Total Earned Less Retained (\$)	Amount Invoiced (\$)	Date Paid by FPD	Estimate to Complete Including Retainage (\$)
1	4/11/2014	4/15/2014	\$259,243.33	\$25,924.33	\$233,319.00	\$233,319.00	<a href="#">4/22/2014</a>	\$2,965,109.75
2	6/11/2014	6/12/2014	\$269,731.33	\$26,973.13	\$242,758.20	\$9,439.20	<a href="#">6/19/2014</a>	\$2,967,108.45
3	8/5/2014	8/11/2014	\$325,641.68	\$32,564.17	\$293,077.51	\$50,319.32	<a href="#">8/14/2014</a>	\$2,920,449.49
4	10/1/2014	10/9/2014	\$970,413.05	\$97,041.31	\$873,371.75	\$580,294.24	<a href="#">10/13/2014</a>	\$2,344,213.65
5	11/10/2014	11/11/2014	\$1,576,916.93	\$157,691.69	\$1,419,225.24	\$545,853.49	<a href="#">11/14/2014</a>	\$1,798,360.16
6	12/9/2014	12/11/2014	\$1,805,617.83	\$180,561.78	\$1,625,056.05	\$205,830.81	<a href="#">12/18/2014</a>	\$1,647,209.55
7	1/7/2015	1/13/2015	\$1,981,951.82	\$198,195.18	\$1,783,756.65	\$158,700.59	<a href="#">1/26/2015</a>	\$1,488,508.95
8	1/31/2015	2/6/2015	\$2,353,390.85	\$235,339.09	\$2,118,051.77	\$334,295.13	<a href="#">2/13/2015</a>	\$1,269,862.22
9	2/27/2015	3/9/2015	\$2,402,889.49	\$240,288.95	\$2,162,600.54	\$44,548.77	<a href="#">3/19/2015</a>	\$1,225,313.45
10	3/31/2015	4/10/2015	\$2,512,569.69	\$251,256.97	\$2,261,312.72	\$98,712.18	<a href="#">4/16/2015</a>	\$1,136,531.69
11	4/30/2015	5/12/2015	\$2,599,540.09	\$259,954.01	\$2,339,586.08	\$78,273.36	<a href="#">5/18/2015</a>	\$1,058,258.33
12	6/30/2015	7/7/2015	\$2,608,521.08	\$260,852.12	\$2,347,668.96	\$8,082.50	<a href="#">7/9/2015</a>	\$1,050,175.45
13	9/10/2015	9/14/2015	\$2,815,521.76	\$281,552.18	\$2,533,969.58	\$186,300.00	<a href="#">9/14/2015</a>	\$942,925.83
14	2/5/2016	2/11/2016	\$2,928,221.76	\$292,822.18	\$2,635,399.58	\$101,430.00	<a href="#">2/17/2016</a>	\$3,737,938.08
15	4/30/2016	5/12/2016	\$3,111,701.76	\$301,996.18	\$2,809,705.58	\$174,306.00	<a href="#">5/16/2016</a>	\$3,563,632.08
16	8/2/2016	8/9/2016	\$3,135,644.76	\$160,867.24	\$2,974,777.52	\$165,071.94		\$3,393,207.53

**TITLE: CONSTRUCTION CHANGE ORDER LOG**

**CLIENT:** Southwestern Illinois Flood Prevention District Council  
**PROJECT:** Bid Package 04

**PROJECT NUMBER:** SIFPDC-BP04

Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments
1	Flight Pump and Locking Sewer Lids	Other	\$0.00	\$8,196.30	4.27	\$ 222,500.00	3.68%	0.26%	3/11/2014	Approved	To be paid by MESD Levee District
2	PVC Fence Panel Fillers	Field	\$949.90	\$0.00	4.22	\$ 140,360.00	0.68%	0.03%	4/4/2014	Approved	To accommodate field condition
3	Furnish and Install Fence Grounding	Field	\$10,488.00	\$0.00	4.22	\$ 140,360.00	7.47%	0.33%	4/17/2014	Approved	Ameren required fence to be grounded; grounding to be every 200ft with 20ft ground rod
4	2 Additional Posts in Concrete per Phillips 66 Request	Field	\$1,533.00	\$0.00	4.22	\$ 140,360.00	1.09%	0.05%	6/17/2014	Approved	2 Additional posts per P66 request
5	Time and material for new fence grounding	Field	\$2,127.35	\$0.00	4.22	\$ 140,360.00	1.52%	0.07%	7/17/2014	Approved	Change order for additional grounding needed as requested by Phillips 66; Time and material
6	Razor Wire on Fence	Other	\$0.00	\$2,402.40	NA	NA	NA	0.08%	8/20/2014	Approved	Razor wire on fence at pump station per MESD Levee District request; to be paid by MESD Levee District
7	Time Extension Request for Fence Delay and High River	Other	\$0.00	\$0.00	NA	NA	NA	0.00%	8/27/2014	Approved	Contract time extension of 43 working days due to security fence approval delay and high river level days that impeded construction
8	Well Point Stainless Steel Pipe diameter change 1-1/4" to 2"	Field	\$1,656.00	\$0.00	4.16	\$ 878,900.00	0.19%	0.05%	9/15/2014	Approved	Well point stainless steel pipe diameter change from 1-1/4" to 2" to improve operability/constructability.
9*	Site 9 Electrical Changes	Other	\$54,680.20	\$0.00	4.28	\$ 222,500.00	24.58%	1.71%	11/19/2014	Approved	Ameren requires upgrades to the existing pump station at Site 9. Board approval required
10	Work stoppage for impacted soil	Other	\$35,602.21	\$0.00	NA	NA	NA	1.12%	1/8/2015	Approved	Work stopped to perform testing due to encountering hydrocarbon odor
11	RW Construction Obstruction	Field	\$80,046.18	\$0.00	4.16	\$ 878,900.00	9.11%	2.51%	1/15/2015	Approved	RW Construction Obstruction due to Cobble Layer during drilling
12	Contract Time Extension	Other	\$0.00	\$0.00	NA	NA	NA	0.00%	2/10/2015	Approved	Contract time extension to June 30, 2015
13	RW 141XB Re-design	Field	\$8,981.67	\$0.00	4.16	\$ 878,900.00	1.02%	0.28%	2/17/2015	Approved	60-slot RW re-design to 40-slot
14	Off-setting Outfall Line of RW 153X	Field	\$948.75	\$0.00	4.16	\$ 878,900.00	0.11%	0.03%	3/6/2015	Approved	Off-setting Outfall Line of RW 153X
15	Clay Cap Benching and Key Volume (3,437 CY)	Other	\$79,051.00	\$0.00	NA	NA	NA	2.48%	8/24/2015	Approved	Clay Cap Benching and Key Volume (3,437 CY) The Clay quantity for the benching was not included in the original BP04 bid tab
17*	Pipe Material Change	Other	\$2,882,782.25	\$0.00	NA	NA	NA	90.36%	12/3/2015	Approved	Pipe material change to meet the Authorized Level flood event design
18*	Flood Event Emergency Pumping at Site 9	Other	\$13,660.00	\$0.00	NA	NA	NA	0.43%	1/20/2016	Approved	Flood Event Emergency Pumping at Site 9



Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments
19*	Relief Well Quantity Rectification Credit	Other	-\$29,295.61	\$0.00	4.16	\$ 878,900.00	-3.33%	-0.92%	5/18/2016	Approved	Relief Well Quantity Rectification Credit
20*	CA06 Rock Placement; Clay Cap Blanket and Loss Time	Field	\$23,943.00	\$0.00	NA	NA	NA	0.75%	5/18/2016	Approved	CA06 Rock Placement (\$9,553); Clay Cap Blanket and Loss Time (\$14,390)
<b>Total of Project Change Orders</b>			<b>\$3,167,153.90</b>	<b>\$10,598.70</b>						<b>Total</b>	<b>\$ 3,177,752.60</b>

Original Contract Amount    Revised Contract Amount    % Change from Original Amount  
**\$3,190,232.45**    **6,367,965.05**    **99.61%**

\*Board approval required

## CONTRACT INVOICE LOG

**Contractor:** Keller Construction, Inc.  
22 Illini Drive  
Glen Carbon, IL 62034

**Project:** SWILCD  
**Construction Package:** BP05

<b>Original Contract Amount:</b>	\$ 8,256,481.84	
<b>Change Order #1:</b>	\$ 19,698.78	Locking Sewer Lids per MESD
<b>Change Order #2:</b>	\$ 2,815.00	Gravity Drain Cleanout
<b>Change Order #3:</b>	\$ 1,224.14	Rip Rap Survey
<b>Change Order #4:</b>	\$ 683.99	Manhole Extension
<b>Change Order #5:</b>	\$ 1,863.75	Additional Permits
<b>Change Order #6:</b>	\$ 103,690.00	5 RW Rehabs
<b>Change Order #7:</b>	\$ 31,680.00	PZ Seal Modification
<b>Change Order #8:</b>	\$ 45,199.00	Install 10" Relief Wells instead of 8"
<b>Change Order #9:</b>	\$ 107,201.00	Relief Well Construction Obstruction
<b>Change Order #10:</b>	\$ (5,095.00)	Credit to Remove Vacuum Testing of Manholes
<b>Change Order #11:</b>	\$ -	Contract Time Extension to September 30, 2015
<b>Change Order #12:</b>	\$ (31,680.00)	Delete - PZ Seal Modifications
<b>Change Order #13:</b>	\$ 9,056.25	Remaining Relief Well Permits
<b>Change Order #14:</b>	\$ 110,334.93	60 Slot Relief Well Redesign
<b>Change Order #15:</b>	\$ 83,011.64	Relief Well Construction Obstruction
<b>Change Order #16:</b>	\$ 3,622.38	PZ 875L Alignment Test and Repair
<b>Change Order #17:</b>	\$ 90,000.00	HDPE to RCP Pipe Change-Early Draw for Materials
<b>Change Order #18:</b>	\$ 5,158,639.93	Pipe Material Change to RCP (less CO17)
<b>Change Order #19:</b>	\$ 310,153.93	Flood Event Emergency Pumping at Pump Stations Site 5 & 10
<b>Change Order #20:</b>	\$ 23,178.10	RW Rehab Clean & Test; PZ 875 L
<b>Change Order #21:</b>	\$ (17,715.53)	Credit MOPAC Gates
<b>Change Order #22:</b>	\$ 3,850.10	RW Floor Drain Plugging & Deletion
<b>Total Change Order Amount:</b>	\$6,051,412.39	
<b>Total Revised Contract Amount:</b>	<b>\$14,307,894.23</b>	

Payment Request No.	Pay Request Date	Pay Request Recommended Approval Date	Total Completed to Date (\$)	Amount Retained (10% to 50%) then (5% to 95%)	Total Earned Less Retained (\$)	Amount Invoiced (\$)	Date Paid by FPD	Estimate to Complete Included Retainage (\$)
1	2/28/2014	3/7/2014	\$266,054.00	\$26,605.40	\$239,448.60	\$239,448.60	3/25/2014	\$8,017,033.24
2	3/31/2014	4/16/2014	\$883,107.43	\$88,310.74	\$794,796.69	\$555,348.09	4/22/2014	\$7,461,685.15
3	4/30/2014	4/16/2014	\$1,462,259.11	\$146,225.91	\$1,316,033.20	\$521,236.51	5/22/2014	\$6,960,147.42
4	5/31/2014	6/10/2014	\$1,627,018.16	\$162,701.82	\$1,464,316.34	\$148,283.15	6/19/2014	\$6,814,679.28
5	6/30/2014	7/14/2014	\$1,750,946.56	\$175,094.66	\$1,575,851.90	\$111,535.56	7/17/2014	\$6,704,367.86
6	8/31/2014	9/9/2014	\$2,052,379.42	\$205,237.94	\$1,847,141.48	\$271,289.57	9/15/2014	\$6,433,762.27
7	9/30/2014	10/9/2014	\$2,442,332.85	\$244,233.29	\$2,198,099.57	\$350,958.09	10/16/2014	\$6,084,667.94
8	10/31/2014	11/13/2014	\$3,002,182.98	\$300,218.31	\$2,701,964.67	\$503,865.11	11/18/2014	\$5,684,492.83
9	11/30/2014	12/12/2014	\$3,506,445.51	\$350,644.57	\$3,155,800.94	\$453,836.27	12/18/2014	\$5,262,336.56
10	12/31/2014	1/15/2015	\$3,740,982.49	\$374,098.27	\$3,366,884.22	\$211,083.28	1/26/2015	\$5,051,253.28
11	1/31/2015	2/6/2015	\$4,088,696.15	\$408,869.64	\$3,679,826.51	\$312,942.29	2/18/2015	\$4,885,615.99
12	2/28/2015	3/9/2015	\$4,251,060.82	\$425,106.10	\$3,825,954.72	\$146,128.21	3/19/2015	\$4,739,487.78
13	3/31/2015	4/10/2015	\$5,082,851.69	\$508,285.19	\$4,574,566.50	\$748,611.78	4/16/2015	\$3,990,876.00
14	4/30/2015	5/12/2015	\$5,497,369.50	\$274,868.49	\$5,222,501.01	\$647,934.51	5/18/2015	\$3,513,664.31
15	5/31/2015	6/10/2015	\$6,007,102.52	\$300,355.14	\$5,706,747.38	\$484,246.37	6/16/2015	\$3,029,417.94
16	6/30/2015	7/7/2015	\$6,065,079.91	\$303,254.01	\$5,761,825.90	\$55,078.52	7/14/2015	\$2,974,339.42
17	7/31/2015	8/3/2015	\$6,123,848.73	\$306,192.45	\$5,817,656.28	\$55,830.38	8/20/2015	\$2,918,509.04
18	8/31/2015	9/11/2015	\$6,134,110.93	\$306,706.56	\$5,827,404.37	\$9,749.09	9/16/2015	\$2,912,383.33
19	9/30/2015	10/8/2015	\$6,162,786.16	\$308,139.32	\$5,854,646.84	\$27,241.47	10/21/2015	\$2,885,140.86
20	10/31/2015	11/13/2015	\$6,186,400.94	\$309,320.06	\$5,877,080.88	\$22,434.04	11/17/2015	\$2,952,706.82
21	11/30/2016	1/8/2016	\$6,186,400.94	\$311,981.05	\$5,874,419.89	(\$2,660.99)	Adjust for Retention-Apply to Req 22	
22	12/1/2015	1/8/2016	\$6,212,507.17	\$314,408.19	\$5,898,098.98	\$21,018.10	1/20/2016	\$8,090,328.65
23	1/30/2016	2/5/2016	\$6,588,304.41	\$332,344.71	\$6,255,959.70	\$357,860.72	2/17/2016	\$8,042,621.86
24	2/29/2016	3/8/2016	\$6,598,658.81	\$333,380.15	\$6,265,278.66	\$9,318.96	3/17/2016	\$8,033,302.90
25	3/31/2016	4/4/2016	\$6,697,823.07	\$338,187.33	\$6,359,635.74	\$94,357.08	4/20/2016	\$7,962,123.92
26	4/30/2016	5/11/2016	\$6,744,735.45	\$342,695.08	\$6,402,040.37	\$42,404.63	5/17/2016	\$7,902,003.76
27	5/31/2016	6/10/2016	\$6,749,705.45	\$342,943.58	\$6,406,761.87	\$4,721.50	6/16/2016	\$7,897,282.26
28	7/31/2016	8/2/2016	\$6,762,439.93	\$343,580.30	\$6,418,859.63	\$12,097.76		\$7,889,034.60

**TITLE: CONSTRUCTION CHANGE ORDER LOG**

**CLIENT:** Southwestern Illinois Flood Prevention District Council  
**PROJECT:** Bid Package 05

**PROJECT NUMBER:** SIFPDC-BP05

Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments
1*	Locking Sewer Lids	Other	\$0.00	\$19,698.78	5.18-5.22	\$ 113,685.00	17.33%	0.24%	3/18/2014	Approved	To be paid by MESD Levee District
2	Gravity Drain Cleaning	Field	\$2,815.00	\$0.00	5.29	\$ 67,225.00	4.19%	0.03%	4/16/2014	Approved	Anticipated \$2,815.00 change to accommodate field condition and constructability
3	Rip Rap Survey	Field	\$1,224.14	\$0.00	NA	NA	NA	0.01%	6/18/2014	Approved	Operator and equipment cost for assistance with survey done on rip rap discovered on railroad embankment
4	Manhole JN1601 Extension	Field	\$683.99	\$0.00	5.21	\$ 9,325.00	7.34%	0.01%	7/18/2014	Approved	4ft extension due to BP05 and BP2B grade conflict
5	Permits for relief well conversions due to change with IL Public Health Dept	Other	\$1,863.75	\$0.00	5.26	\$ 211,728.64	0.88%	0.02%	10/30/2014	Approved	Permits for relief well conversions due to change with IL Public Health Dept; Owner will be responsible for all permits and fees
6	Relief Wells Rehabs	Other	\$103,690.00	\$0.00	NA	NA	NA	1.26%	10/30/2014	Approved	Relief well rehabilitations in the plans but were omitted from the bid tab
7*	PZ Seal Modifications	Design	\$31,680.00	\$0.00	5.22	\$ 171,680.00	18.45%	0.38%	11/19/2014	Approved	The new detail extends the concrete seal 4' below ground surface which should provide more stability for the above-grade part of the piezometer.
8	Installation and testing 10" Relief Wells instead of 8" Wells	Design	\$45,199.00	\$0.00	5.28	\$ 2,156,379.63	2.10%	0.55%	2/2/2015	Approved	Based on site-specific designs performed after pilot hole drilling, ten wells were final-designed with 10" diameter screens and risers to optimize well length and/or meet the USACE entrance velocity standard.
9*	RW Construction Obstruction	Field	\$107,201.00	\$0.00	5.27 5.28	\$ 3,204,234.48	3.35%	1.30%	1/15/2015	Approved	RW Construction Obstruction due to Cobble Layer during drilling; submitted January 21, 2015 for Board approval
10	Credit-Remove Vacuum Testing of Manholes	Other	\$ (5,095.00)	\$0.00	5.18-5.21	\$ 113,685.00	-4.48%	-0.06%	2/2/2015	Approved	PCN approved to remove the requirements for ASTM C1244 Standard Test Method for Concrete Sewer
11	Contract Time Extension	Other	\$0.00	\$0.00	NA	NA	NA	0.00%	2/10/2015	Approved	Contract Time Extension to September 30, 2015
12	Delete - PZ Seal Modifications	Other	\$ (31,680.00)	\$0.00	5.22	\$ 171,680.00	-18.45%	-0.38%	4/16/2015	Approved	Delete piezometer seal modifications
13	Remaining Relief Well Permits	Other	\$9,056.25	\$0.00	NA	NA	NA	0.11%	4/16/2015	Approved	Per spec sec 00 800 par 6.4-Owner will be responsible for all permits and fees
14	60 Slot Relief Well Redesign	Field	\$110,334.93	\$0.00	5.27 5.28	\$ 3,204,234.48	3.44%	1.34%	4/16/2015	Approved	60 Slot Relief Well Redesign

**TITLE: CONSTRUCTION CHANGE ORDER LOG**

**CLIENT:** Southwestern Illinois Flood Prevention District Council  
**PROJECT Bid Package 05**

**PROJECT NUMBER:** SIFPDC-BP05

Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments
15	RW Construction Obstruction	Field	\$83,011.64	\$0.00	5.27 5.28	\$ 3,204,234.48	2.59%	1.01%	5/15/2015	Within approved budget	RW Construction Obstruction due to Cobble Layer during drilling; submitted January 21, 2015 for Board appro
16	PZ 875L Alignment Test and Repair	Field	\$3,622.38	\$0.00	NA	NA	NA	0.04%	7/7/2015	Approved	Alignment test and repairs
17	HDPE to RCP Pipe Change-Early Draw	Other	\$90,000.00	\$0.00	NA	NA	NA	1.09%	10/16/2015	Approved	HDPE to RCP Pipe Change; Early draw to order materials
18*	Pipe Material Change	Other	\$5,158,639.93	\$0.00	NA	NA	NA	62.48%	12/16/2015	Approved	HDPE to RCP Pipe Change
19*	Flood Event Emergency Pumping at Pump Stations Site 5 & 10	Other	\$310,153.93	\$0.00	NA	NA	NA	3.76%	1/20/2016	Approved	Flood Event Emergency Pumping at Pump Stations Site 5 & 10
20*	RW Rehab Clean & Test; PZ 875 L	Other	\$23,178.10	\$0.00	5.22 5.23 NA	\$ 181,620.00	0.28%	0.16%	3/18/2016	Approved	RW Rehab Clean & Test; PZ 875 L
21	Credit change Mopac Sluice Gate	Other	-\$17,715.53	\$0.00	5.30 5.32	\$ 157,587.00	-11.24%	-0.21%	3/31/2016	Approved	Credit change Mopac Sluice Gate
22*	RW Floor Drain Plugging & Deletion	Field	\$3,850.10	\$0.00	NA	NA	NA	0.05%	7/20/2016	Approved	RW Floor Drain Plugging & Deletion

**Total of Project Change Orders**    \$6,031,713.61    \$19,698.78  
Original Contract Amount    Revised Contract Amount    % Change from Original Amount  
**\$8,256,481.84**    **14,307,894.23**    **73.29%**

**\$6,051,412.39**

\*Board approval required

**CONTRACT INVOICE LOG**

**Contractor:** The Lane Construction Corporation  
 90 Fieldstone Ct.  
 Cheshire, CT 06410-1212

**Project:** SWILCD 56317001.008.0017  
**Construction Package:** BP06  
**Original Contract Amount:** \$12,857,127.75  
**Change Order #1:** \$0.00 Spiral Wound Slip Lining  
**Change Order #2:** \$1,870.00 Bronze Survey Markers  
**Change Order #3:** \$132,809.60 Red Flint Filter Pack Material  
**Change Order #4:** \$12,040.40 Air Testing of HDPE Storm Sewer Pipe 12" 18" and 24"  
**Change Order #5:** \$29,566.29 SaniTite pipe upgrade and air testing on 30"-42" pipe  
**Change Order #6:** \$26,950.00 Vacuum testing manholes  
**Change Order #7:** \$205,863.75 Additional Pilot Hole Drilling & Additional Pilot Hole Sampling  
**Change Order #8:** \$4,210.00 Raise to Grade Piezometer  
**Change Order #9:** \$9,504.00 Modify Piezometer  
**Change Order #10:** \$18,339.63 12" Surface Aggregate  
**Change Order #11:** \$1,282,932.15 Relief Well Quantity Changes  
**Change Order #12:** \$37,935.66 Various Changes for Board Approval  
**Change Order #13:** \$43,664.49 Various Changes for Board Approval  
**Change Order #14:** \$177,854.69 Relief Well Construction Obstruction  
**Change Order #15:** \$0.00 Contract Time Extension to September 30, 2015  
**Change Order #16:** \$10,004.04 Concrete Headwall and Flap Gate at RW-200X; HDPE pipe 12 inch added to P-200X; HDPE pipe 12 inch added to 70-C; Manhole – 48 inch deleted JN-70 C; HDPE pipe 12 inch  
**Change Order #17:** (\$10,106.25) Credit-Remove Vacuum Testing of Manholes  
**Change Order #18:** \$63,230.97 60 Slot Relief Well Redesign  
**Change Order #19:** \$20,923.32 Relief Well Construction Obstruction  
**Change Order #20:** \$17,910.08 Abandon Existing PZ P37 12" Agg Surface Abandon Existing PZ 239L and install new PZ  
**Change Order #21:** \$4,562.64 Relief Well Construction Obstruction  
**Change Order #22:** \$83,071.89 RCP at Pulcher's Driveway and Increase in Relief Well Quantities  
**Change Order #23:** \$38,213.76 Emergency T&M Work - Flood Event June 2015; Modifications to PDP/FL Piezometers 204L, 537L, and 679L  
**Change Order #24:** \$14,496.25 Collection Pipe P 145X  
**Change Order #25:** \$0.00 Contract Time Extension to December 31, 2015  
**Change Order #26:** \$3,770.53 Right of Way Monuments Resetting @ stations 338+00 and 533+00  
**Change Order #27:** \$0.00 Contract Time Extension  
**Change Order #28:** \$123,507.94 Pipeline Repair  
**Change Order #29:** \$0.00 Contract Time Extension to September 8, 2016  
**Change Order #30:** \$218,282.42 Remob for RWs; Quantity Adjustments for Berms and Clay Cap  
**Total Change Order Amount:** \$2,571,408.25  
**Total Revised Contract Amount:** \$15,428,536.00

Payment Request No.	Pay Request Date	Pay Request Recommended Approval Date	Total Completed to Date (\$)	Amount Retained (10% to 50%) then (5% to 95%)	Total Earned Less Retainage	Amount Invoiced (\$)	Date Paid by FPD	Estimate to Complete Including Retainage (\$)
1	12/1/2013	12/9/2013	\$85,500.00	\$8,550.00	\$76,950.00	\$76,950.00	12/20/2013	\$12,780,177.75
2	1/1/2014	2/10/2014	\$302,624.00	\$30,262.40	\$272,361.60	\$195,411.60	2/20/2014	\$12,584,766.15
3	2/3/2014	2/10/2014	\$1,082,723.00	\$108,272.30	\$974,450.70	\$702,089.10	2/20/2014	\$11,882,677.05

Payment Request No.	Pay Request Date	Pay Request Recommended Approval Date	Total Completed to Date (\$)	Amount Retained (10% to 50%) then (5% to 95%)	Total Earned Less Retainage	Amount Invoiced (\$)	Date Paid by FPD	Estimate to Complete Including Retainage (\$)
4	3/1/2014	3/14/2014	\$1,486,548.00	\$148,654.80	\$1,337,893.20	\$363,442.50	<a href="#">3/25/2014</a>	\$11,519,234.55
5	4/1/2014	4/16/2014	\$2,819,792.90	\$281,979.29	\$2,537,813.61	\$1,199,920.41	<a href="#">4/22/2014</a>	\$10,321,184.14
6	5/1/2014	5/13/2014	\$3,912,098.90	\$391,209.89	\$3,520,889.01	\$983,075.40	<a href="#">5/22/2014</a>	\$9,338,108.74
7	6/1/2014	6/10/2014	\$4,741,611.90	\$474,161.19	\$4,267,450.71	\$746,561.70	<a href="#">6/19/2014</a>	\$8,591,547.04
8	7/1/2014	7/14/2014	\$5,406,637.90	\$540,663.79	\$4,865,974.11	\$598,523.40	<a href="#">7/17/2014</a>	\$8,125,833.24
9	8/1/2014	8/8/2014	\$5,785,001.65	\$578,500.17	\$5,206,501.49	\$340,527.38	<a href="#">8/19/2014</a>	\$8,073,440.31
10	9/3/2014	9/5/2014	\$6,053,869.33	\$605,386.93	\$5,448,482.40	\$241,980.91	<a href="#">9/15/2014</a>	\$7,849,799.02
11	10/1/2014	10/3/2014	\$6,752,179.87	\$675,217.99	\$6,076,961.88	\$628,479.49	<a href="#">10/16/2014</a>	\$8,504,251.69
12	11/1/2014	11/10/2014	\$7,466,202.56	\$746,620.26	\$6,719,582.30	\$642,620.41	<a href="#">11/18/2014</a>	\$7,899,566.94
13	12/1/2014	12/8/2014	\$8,071,969.19	\$807,196.92	\$7,264,772.27	\$545,189.97	<a href="#">12/18/2014</a>	\$7,398,041.46
14	1/1/2015	1/13/2015	\$9,086,036.15	\$454,301.81	\$8,631,734.33	\$1,366,962.07	<a href="#">1/26/2015</a>	\$6,031,079.39
15	2/1/2015	2/6/2015	\$10,631,046.43	\$531,552.32	\$10,099,494.11	\$1,467,759.77	<a href="#">2/18/2015</a>	\$4,741,174.30
16	3/1/2015	3/9/2015	\$11,159,175.28	\$557,958.76	\$10,601,216.51	\$501,722.40	<a href="#">3/19/2015</a>	\$4,249,455.94
17	4/1/2015	4/10/2015	\$12,128,575.99	\$606,428.80	\$11,522,147.19	\$920,930.68	<a href="#">4/16/2015</a>	\$3,381,649.98
18	5/1/2015	5/8/2015	\$13,089,041.43	\$654,452.07	\$12,434,589.36	\$912,442.17	<a href="#">5/18/2015</a>	\$2,490,131.13
19	6/1/2015	6/5/2015	\$13,723,208.55	\$686,160.43	\$13,037,048.13	\$602,458.77	<a href="#">6/16/2015</a>	\$1,910,145.08
20	7/1/2015	7/6/2015	\$14,005,443.45	\$700,272.17	\$13,305,171.28	\$268,123.15	<a href="#">7/14/2015</a>	\$1,725,093.82
21	8/1/2015	8/7/2015	\$14,045,434.28	\$702,271.71	\$13,343,162.57	\$37,991.28	<a href="#">8/20/2015</a>	\$1,725,316.29
22	9/1/2015	9/11/2015	\$14,070,459.28	\$703,522.96	\$13,366,936.32	\$23,773.75	<a href="#">9/16/2015</a>	\$1,716,038.79
23	10/1/2015	10/9/2015	\$14,194,301.91	\$654,204.74	\$13,540,097.17	\$173,158.86	<a href="#">10/21/2015</a>	\$1,542,877.94
24	11/1/2015	11/13/2015	\$14,466,220.84	\$667,802.68	\$13,798,418.16	\$258,322.99	<a href="#">11/17/2015</a>	\$1,284,556.95
25	12/1/2015	12/8/2015	\$14,586,512.09	\$673,817.24	\$13,912,694.85	\$114,276.68	<a href="#">12/17/2015</a>	\$1,170,280.26
26	1/1/2016	1/8/2016	\$14,671,739.09	\$678,078.59	\$13,993,660.50	\$80,965.65	<a href="#">1/20/2016</a>	\$1,093,085.14
27	2/1/2016	2/5/2016	\$14,690,989.09	\$679,041.09	\$14,011,948.00	\$18,287.50	<a href="#">2/17/2016</a>	\$1,074,797.64
28	3/31/2016	4/14/2016	\$14,734,532.27	\$420,767.79	\$14,313,764.48	\$301,816.49	<a href="#">4/20/2016</a>	\$772,981.15
29	4/30/2016	5/12/2016	\$14,890,787.97	\$429,290.09	\$14,461,497.88	\$147,733.40	<a href="#">5/17/2016</a>	\$748,755.70
30	5/31/2016	6/10/2016	\$15,014,310.95	\$486,735.97	\$14,527,574.98	\$66,077.10	<a href="#">6/16/2016</a>	\$682,678.60
31	6/30/2016	7/7/2016	\$15,070,725.18	\$371,548.01	\$14,699,177.17	\$171,602.19	<a href="#">7/15/2016</a>	\$511,076.41
32	7/31/2016	8/2/2016	\$15,295,183.00	\$373,143.70	\$14,922,039.30	\$222,862.13		\$506,496.70

**TITLE: CONSTRUCTION CHANGE ORDER LOG**

**CLIENT:** Southwestern Illinois Flood Prevention District Council  
**PROJECT:** Bid Package 06

**PROJECT NUMBER:** SIFPDC-BP06

Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments
1	Spiral Wound (Slip-Lining)	Spec	\$0.00	\$0.00	6.20	\$ 1,629,000.00	0.00%	0.00%	2/27/2014	Approved	Specification change to coordinate and be consistent with material and methods used by Corps of Engineers
2	Bronze Survey Markers	Spec	\$1,870.00	\$0.00	6.40	\$ 1,039,884.00	0.18%	0.01%	3/18/2014	Approved	Specification change to make consistent with other bid packages. Comments back from Corps of Engineers on other bid packages but was missed on this bid package.
3	Red Flint Filter Pack	Spec	\$132,809.60	\$0.00	6.39 6.40	\$ 1,806,432.00	7.35%	1.03%	6/20/2014	Approved	Specification change as required by the Corp of Engineers. The change order cost of \$132,809.60 is based on original bid quantities and may increase based on final relief well design. If final quantizes result in increase of 10% above original line item, Board approval required
4	Air Testing of HDPE Storm Sewer Pipe 12" 18" and 24"	Spec	\$12,040.40	\$0.00	NA	NA	NA	0.09%	7/17/2014	Approved	Specification change to make consistent with other bid packages.
5*	SaniTite pipe upgrade and air testing on 30"-42" pipe	Spec	\$29,566.29	\$0.00	6.25 6.26 6.27	\$ 149,797.00	19.74%	0.23%	7/17/2014	Approved	Specification change to make consistent with other bid packages. Board approval required
6	Vacuum testing manholes	Spec	\$26,950.00	\$0.00	NA	NA	NA	0.21%	7/17/2014	Approved	Specification change to make consistent with other bid packages. Board approval required
7*	Additional Pilot Hole Drilling & Additional Pilot Hole Sampling	Design	\$205,863.75	\$0.00	6.38	\$ 251,775.00	81.76%	1.60%	7/17/2014	Approved	Design change to accommodate actually quantities. Bid quantities were very preliminary since no pilot holes were drilled at the time and Amec had not received the USACE design template for relief wells. Board approval required
8*	Raise to Grade Piezometer	Field	\$4,210.00	\$0.00	6.45	\$ 21,050.00	20.00%	0.03%	7/17/2014	Approved	PZ 689L to be raised to grade to accommodate field conditions. Board approval required
9	Modify Piezometer	Field	\$9,504.00	\$0.00	6.43	\$ 132,960.00	7.15%	0.07%	7/18/2014	Approved	Modify piezometers seal to provide additional concrete
10	Surface Aggregate	Design	\$18,339.63	\$0.00	NA	NA	NA	0.14%	8/25/2014	Approved	12 inch Aggregate Surface Course, Type A" item for driveways and field access roads. This was not included in the original proposal and was added per detail on sheet CC-C513 and various plan sheets showing the locations.
11*	Relief Well Quantity Change	Design	\$1,282,932.15	\$0.00	6.39 6.40	\$ 1,806,432.00	71.02%	9.98%	9/12/2014	Approved	Additional quantities required due to deeper pilot holes required to achieve necessary penetration. Board approval required.
12*	Additional 50VF of Pilot Hole Drilling; Decrease RW Add Riser 1 EA; Add RW Abandonment 1 EA; PZ 679R Convert to Below Grade Piezometer; T&M 2 Clay Cap Undercut	Field	\$37,935.66	\$0.00	6.09 6.38 6.42 6.46 6.32	\$ 575,290.00	6.59%	0.30%	10/10/2014	Approved	See change order summary presented to Board for review and approval in the October 15, 2014 Board Meeting
13*	Hydraulic structure painting of the 84" bulkhead; T&M 3 Clay Cap Undercut; Modify PZ Raise to Grade to PZ Raise to Grade Special	Field	\$43,664.49	\$0.00				0.34%	11/19/2014	Approved	Board approval required
14*	RW Construction Obstruction	Field	\$177,854.69	\$0.00	6.39 6.40	\$ 1,806,432.00	9.85%	1.38%	1/21/2015	Approved	RW Construction Obstruction due to Cobble Layer during drilling. Board approval required.
15	Contract Time Extension	Other	\$0.00	\$0.00	NA	NA	NA	0.00%	2/10/2015	Approved	Contract Time Extension to September 30, 2015

**TITLE: CONSTRUCTION CHANGE ORDER LOG**

**CLIENT:** Southwestern Illinois Flood Prevention District Council  
**PROJECT:** Bid Package 06

**PROJECT NUMBER:** SIFPDC-BP06

Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments
16*	Concrete Headwall and Flap Gate at RW-200X; HDPE pipe 12 inch added to P-200X; HDPE pipe 12 inch added to 70-C; Manhole – 48 inch deleted JN-70 C; HDPE pipe 12 inch deleted P-S516 for 70C.	Field	\$10,004.04	\$0.00	6.39 6.40	\$ 1,806,432.00	0.55%	0.08%	2/12/2015	Approved	Change Description submitted in change order memo for Board approval 2/18/15
17	Credit-Remove Vacuum Testing of Manholes		\$ (10,106.25)	\$0.00	NA	NA	NA	-0.08%	3/4/2015	Approved	PCN approved to remove the requirements for ASTM C1244 Standard Test Method for Concrete Sewer
18*	60 Slot Relief Well Redesign	Field	\$63,230.97	\$0.00	6.40	\$ 1,039,884.00	6.08%	0.49%	3/18/2015	Approved	60-slot RW re-design to 40-slot; Board approval required
19	RW Construction Obstruction	Field	\$20,923.32	\$0.00	6.39 6.40	\$ 1,806,432.00	1.16%	0.16%	5/8/2015	Approved	RW Construction Obstruction due to Cobble Layer during drilling. To be processed under budget Board approved 1/21/15
20*	Abandon Existing PZ P37 12" Agg Surface Abandon Existing PZ 239L and install new PZ	Field	\$17,910.08	\$0.00	6.04 6.43 6.44	\$ 554,700.00	3.23%	0.14%	5/15/2015	Approved	Changes proposed to accommodate field conditions. Board approval required.
21	RW Construction Obstruction	Field	\$4,562.64	\$0.00	6.39 6.40	\$ 1,806,432.00	0.25%	0.04%	5/29/2015	Approved	RW Construction Obstruction due to Cobble Layer during drilling. To be processed under budget Board approved 1/21/15
22*	RCP at Pulcher's Driveway Increase in Relief Well Quantities	Field	\$83,071.89	\$0.00	6.39 6.40	\$ 1,806,432.00	4.60%	0.65%	6/17/2015	Approved	RCP at Pulcher's Driveway Increase in Relief Well Quantities Board approval required
23*	Emergency T&M Work - Flood Event June 2015; Modifications to PDP/FL Piezometers 204L, 537L, and 679L	Field	\$38,213.76	\$0.00	NA	NA	NA	0.30%	7/15/2015	Approved	Emergency T&M Work - Flood Event June 2015; Modifications to PDP/FL Piezometers 204L, 537L, and 679L
24*	Collection Pipe P 145X	Field	\$14,496.25	\$0.00	NA	NA	NA	0.11%	8/19/2015	Approved	Extra work to accommodate field conditions related to Collection Pipe P 145X; Board approval required
25	Contract Time Extension	Other	\$0.00	\$0.00	NA	NA	NA	0.00%	2/10/2015	Approved	Substantial Completion by December 31, 2015(excludes permanent seeding); Final Completion April 14, 2016
26	Right of Way Monuments Resetting @ stations 338+00 and 533+00	Field	\$3,770.53	\$0.00	NA	NA	NA	0.03%	12/16/2015	Approved	Right of Way Monuments Resetting @ stations 338+00 and 533+00
27*	Contract Time Extension	Other	\$0.00	\$0.00	NA	NA	NA	0.00%	5/6/2016	Approved	94 additional working days to be added to the contract time due to weather/river delays. New contract dates to be 7/26/16 substantial and 8/26/16 final.
28*	Pipeline Repair	Field	\$123,507.94	\$0.00	NA	NA	NA	0.96%	3/18/2016	Approved	Village of East Carondelet Pipeline Repair; approved in March Board meeting. (This change order includes \$29,950 approved by Board in Sept. 2015 and \$93,557.94 approved by Board in March 2016.)
29	Contract Time Extension	Other	\$0.00	\$0.00	NA	NA	NA	0.00%	7/5/2016	Approved	7 additional working days to be added to the contract time due to weather/river delays. New contract final completion date to become 9/8/16.



**TITLE: CONSTRUCTION CHANGE ORDER LOG**

**CLIENT:** Southwestern Illinois Flood Prevention District Council  
**PROJECT:** Bid Package 06

**PROJECT NUMBER:** SIFPDC-BP06

Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments
30*	Remobilization Charge for RW 70A, 70B, and 70C; Quantity rectification for Seepage Berms and Clay Caps	Other	\$218,282.42	\$0.00	NA	NA	NA	1.70%	7/20/2016	Approved	Remobilization Charge for RW 70A, 70B, and 70C; Quantity rectification for Seepage Berms and Clay Caps ; Board approval required.
<b>Total of Project Change Orders</b>			<b>\$2,571,408.25</b>	<b>\$0.00</b>						<b>Total</b>	<b>\$ 2,571,408.25</b>
<b>Original Contract Amount</b>			<b>\$12,857,127.75</b>								
<b>Revised Contract Amount</b>			<b>\$15,428,536.00</b>	<b>20.00%</b>							

\*Board approval required













Memo to: Board of Directors  
From: Chuck Etwert  
Subject: Budget and Disbursement Report for July 2016  
Date: August 15, 2016

Current Budget Highlights

Attached is the financial statement for July 2016 prepared by our fiscal agent, CliftonLarsonAllen. The report includes an accounting of revenues and expenditures for the month ending July 31, 2016, as compared to our fiscal year budget.

Accrued expenditures for the current fiscal year beginning on October 1, 2015 are \$40,904,167 while revenues amounted to \$10,040,339 resulting in a deficit of \$30,863,828. A total of approximately \$27,531,855 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 for May 2016 (the latest month reported by the Illinois Department of Revenue) were down 1.36% from last year. Total receipts for the year are up 1.06% from last year, which was our highest year.

Monthly Disbursements

Attached is the list of bank transactions for July 2016. Total disbursements for the month were \$2,736,974.21. The largest payments were TREVIICOS South for BP #7B, Keller Construction for BP #3, Lane Construction for BP #6, Amec Foster Wheeler, and Husch Blackwell.

Recommendation:

Accept the budget report and disbursements for July 2016.







**SOUTHWESTERN ILLINOIS FLOOD PREVENTION  
DISTRICT COUNCIL**

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

**TEN MONTHS ENDING JULY 31, 2016 AND 2015**





**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, 2016 and 2015, 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, 2016 and 2015, 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, 2016

**SOUTHWESTERN ILLINOIS FLOOD PROTECTION DISTRICT COUNCIL  
GENERAL FUND  
STATEMENT OF REVENUES AND EXPENDITURES - BUDGET AND ACTUAL  
TEN MONTHS ENDED JULY 31, 2016 (Actual)  
FISCAL YEAR ENDING SEPTEMBER 30, 2016 (Budget)**

	BUDGET		ACTUAL	VARIANCE WITH
	ORIGINAL	FINAL		FINAL BUDGET
				POSITIVE (NEGATIVE)
<b>REVENUES</b>				
Sales Tax Proceeds From Districts	\$ 11,500,000	\$ 11,500,000	\$ 9,534,208	\$ 1,965,792
Interest Income	75,000	75,000	506,126	(431,126)
Other Contributions	-	-	5	(5)
Total Revenues	<u>11,575,000</u>	<u>11,575,000</u>	<u>10,040,339</u>	<u>1,534,661</u>
<b>EXPENDITURES</b>				
Current				
Design and Construction				
Engineering Design & Construction Management	13,939,900	14,933,787	4,272,673	10,661,114
Construction	26,597,316	44,674,432	21,071,425	23,603,007
Construction and design by US ACE	2,739,245	2,739,245	2,439,618	299,627
Total Design and Construction	<u>43,276,461</u>	<u>62,347,464</u>	<u>27,783,716</u>	<u>34,563,748</u>
Professional Services				
Legal & Legislative Consulting	391,000	391,000	371,564	19,436
Diversity Program Manager	25,130	25,130	16,155	8,975
Financial Advisor	83,200	83,200	93,749	(10,549)
Bond Underwriter/Conduit Issuer	10,000	10,000	12,351	(2,351)
Total Professional Services	<u>509,330</u>	<u>509,330</u>	<u>493,819</u>	<u>15,511</u>
Refund of Surplus Funds to County FPD Accounts				
Madison County	1,911,400	1,911,400	1,597,538	313,862
Monroe County	202,080	202,080	168,498	33,582
St. Clair County	1,886,520	1,886,520	1,589,585	296,935
Total Refund of Surplus Funds to County	<u>4,000,000</u>	<u>4,000,000</u>	<u>3,355,621</u>	<u>644,379</u>
Debt Service				
Principal and Interest	7,103,089	7,103,089	9,483,278	(2,380,189)
Federal Interest Subsidy	(843,700)	(843,700)	(424,125)	(419,575)
Total Debt Service	<u>6,259,389</u>	<u>6,259,389</u>	<u>9,059,153</u>	<u>(2,799,764)</u>
Total Operating Expenses	<u>54,045,180</u>	<u>73,116,183</u>	<u>40,692,309</u>	<u>32,423,874</u>
General and Administrative Costs				
Salaries, Benefits	196,500	196,500	161,903	34,597
Bank Service Charges	1,500	1,500	1,107	393
Conference Registration	350	350	307	43
Equipment and Software	2,000	2,000	433	1,567
Fiscal Agency Services	29,000	29,000	24,000	5,000
Audit Services	15,000	15,000	15,000	-
Meeting Expenses	1,000	1,000	-	1,000
Postage/Delivery	400	400	244	156
Printing/Photocopies	2,500	2,500	2,791	(291)
Professional Services	10,000	10,000	257	9,743
Publications/Subscriptions	250	250	116	134
Supplies	3,000	3,000	2,305	695
Telecommunications/Internet	3,000	3,000	2,054	946
Travel	5,000	5,000	399	4,601
Insurance	1,000	1,000	942	58
Total General & Administrative Costs	<u>270,500</u>	<u>270,500</u>	<u>211,858</u>	<u>58,642</u>
Total Expenditures	<u>54,315,680</u>	<u>73,386,683</u>	<u>40,904,167</u>	<u>32,482,516</u>
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES	(42,740,680)	(61,811,683)	(30,863,828)	30,947,855
OTHER FINANCING SOURCES				
Proceeds From Borrowing	65,000,000	77,545,236	83,835,000	6,289,764
NET CHANGE IN FUND BALANCE	<u>\$ 22,259,320</u>	<u>\$ 15,733,553</u>	<u>\$ 52,971,172</u>	<u>\$ 37,237,619</u>

**SOUTHWESTERN ILLINOIS FLOOD PROTECTION DISTRICT COUNCIL  
GENERAL FUND  
STATEMENT OF REVENUES AND EXPENDITURES - BUDGET AND ACTUAL  
TEN MONTHS ENDED JULY 31, 2015 (Actual)  
FISCAL YEAR ENDING SEPTEMBER 30, 2015 (Budget)**

	BUDGET		ACTUAL	VARIANCE WITH
	ORIGINAL	FINAL		FINAL BUDGET
				POSITIVE (NEGATIVE)
<b>REVENUES</b>				
Sales Tax Proceeds From Districts	\$ 11,195,000	\$ 11,195,000	\$ 9,372,773	\$ 1,822,227
Interest Income	60,000	60,000	262,326	(202,326)
Total Revenues	<u>11,255,000</u>	<u>11,255,000</u>	<u>9,635,099</u>	<u>1,619,901</u>
<b>EXPENDITURES</b>				
Current				
Design and Construction				
Engineering Design & Construction Management	8,131,050	8,131,050	2,346,271	5,784,779
Construction	45,791,362	45,791,362	24,547,480	21,243,882
Construction and design by US ACE	-	-	-	-
Total Design and Construction	<u>53,922,412</u>	<u>53,922,412</u>	<u>26,893,751</u>	<u>27,028,661</u>
Professional Services				
Legal & Legislative Consulting	216,000	216,000	233,722	(17,722)
Diversity Program Manager	64,140	64,140	53,610	10,530
Financial Advisor	120,000	120,000	10,278	109,722
Bond Underwriter/Conduit Issuer	-	-	9,778	(9,778)
Total Professional Services	<u>400,140</u>	<u>400,140</u>	<u>307,388</u>	<u>92,752</u>
Refund of Surplus Funds to County FPD Accounts				
Madison County	1,882,480	1,882,480	1,190,443	692,037
Monroe County	197,080	197,080	124,629	72,451
St. Clair County	1,920,440	1,920,440	1,214,448	705,992
Total Refund of Surplus Funds to County	<u>4,000,000</u>	<u>4,000,000</u>	<u>2,529,520</u>	<u>1,470,480</u>
Debt Service				
Principal and Interest	7,101,239	7,101,239	7,101,239	-
Federal Interest Subsidy	(844,610)	(844,610)	(421,850)	(422,760)
Total Debt Service	<u>6,256,629</u>	<u>6,256,629</u>	<u>6,679,389</u>	<u>(422,760)</u>
Total Operating Expenses	<u>64,579,181</u>	<u>64,579,181</u>	<u>36,410,048</u>	<u>28,169,133</u>
General and Administrative Costs				
Salaries, Benefits	206,000	206,000	158,844	47,156
Bank Service Charges	1,500	1,500	1,251	249
Conference Registration	500	500	311	189
Equipment and Software	2,000	2,000	25	1,975
Fiscal Agency Services	26,500	26,500	23,000	3,500
Audit Services	15,000	15,000	-	15,000
Meeting Expenses	1,000	1,000	-	1,000
Postage/Delivery	400	400	273	127
Printing/Photocopies	2,500	2,500	2,172	328
Professional Services	20,000	20,000	192	19,808
Publications/Subscriptions	250	250	115	135
Supplies	1,500	1,500	2,397	(897)
Telecommunications/Internet	2,500	2,500	1,950	550
Travel	7,500	7,500	165	7,335
Insurance	1,000	1,000	968	32
Total General & Administrative Costs	<u>288,150</u>	<u>288,150</u>	<u>191,663</u>	<u>96,487</u>
Total Expenditures	<u>64,867,331</u>	<u>64,867,331</u>	<u>36,601,711</u>	<u>28,265,620</u>
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES	(53,612,331)	(53,612,331)	(26,966,612)	26,645,719
OTHER FINANCING SOURCES				
Proceeds From Borrowing	-	-	-	-
NET CHANGE IN FUND BALANCE	<u>\$ (53,612,331)</u>	<u>\$ (53,612,331)</u>	<u>\$ (26,966,612)</u>	<u>\$ 26,645,719</u>

# Flood Prevention District Sales Tax Trends 2009-2016

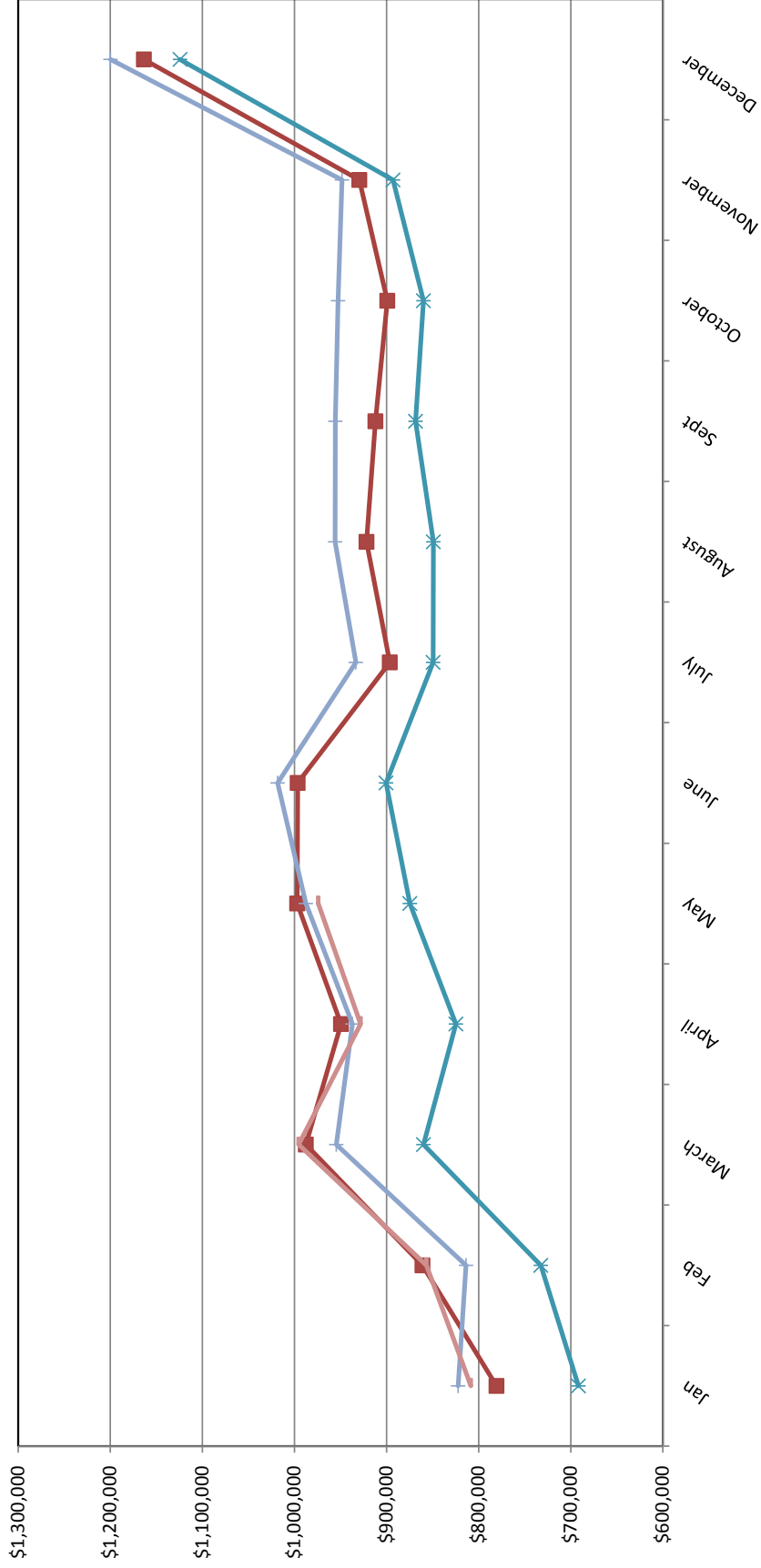
2009												County Share		
	Jan	Feb	March	April	May	June	July	August	Sept	October	November	December	Total	
Madison	\$321,968	\$336,765	\$397,425	\$387,385	\$414,350	\$421,402	\$399,616	\$401,188	\$400,090	\$404,847	\$405,930	\$492,814	\$4,783,780	46.319%
St. Clair	\$337,979	\$362,696	\$424,556	\$398,395	\$419,126	\$438,230	\$411,968	\$410,484	\$429,852	\$412,637	\$446,806	\$581,721	\$5,074,450	49.134%
Monroe	\$31,641	\$32,903	\$37,830	\$38,757	\$41,326	\$40,847	\$37,817	\$37,497	\$38,652	\$42,270	\$40,332	\$49,755	\$469,627	4.547%
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	
Cumulative Total	\$691,588	\$1,423,952	\$2,283,763	\$3,108,300	\$3,983,102	\$4,883,581	\$5,732,982	\$6,582,151	\$7,450,745	\$8,310,499	\$9,203,567	\$10,327,857		
<b>2010</b>														
Madison	\$353,146	\$374,416	\$456,795	\$462,697	\$440,815	\$452,308	\$427,329	\$433,047	\$419,455	430,210	\$442,904	\$529,069	\$5,222,191	47.272%
St. Clair	\$367,458	\$399,480	\$464,089	\$439,748	\$439,139	\$458,299	\$421,447	\$423,718	\$424,971	\$429,581	\$457,927	587,067	\$5,312,924	48.094%
Monroe	\$36,770	\$34,324	\$39,884	\$43,769	\$44,358	\$43,102	\$46,499	\$41,816	\$42,207	\$42,746	\$45,411	\$51,004	\$511,890	4.634%
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	
Cumulative Total	\$757,374	\$1,565,594	\$2,526,362	\$3,472,576	\$4,396,888	\$5,350,597	\$6,245,872	\$7,144,453	\$8,031,086	\$8,933,623	\$9,879,865	\$11,047,005		
% change/month	9.51%	10.36%	11.74%	14.8%	5.7%	5.9%	5.4%	5.8%	2.1%	5.0%	6.0%	3.8%		
% change/total	9.51%	9.95%	10.62%	11.72%	10.39%	9.56%	8.95%	8.54%	7.79%	7.50%	7.35%	6.96%	6.96%	
<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		
% change/month	3.29%	0.71%	-0.40%	-0.94%	2.26%	4.77%	2.20%	5.77%	5.10%	-0.32%	0.34%	1.39%		
% change/total	3.29%	1.96%	1.06%	0.52%	0.88%	1.58%	1.67%	2.18%	2.50%	2.22%	2.04%	1.97%	1.97%	
<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		
% change/month	-0.21%	5.76%	3.21%	1.29%	5.48%	-0.27%	-2.01%	-3.02%	-2.13%	-0.07%	-2.11%	-1.68%		
% change/total	-0.21%	2.83%	2.98%	2.52%	3.15%	2.52%	1.87%	1.23%	0.85%	0.76%	0.49%	0.26%	0.26%	





# Flood Prevention District Sales Tax Trends 2009-2016

## Monthly Receipts 2009-2012-2015-2016



**SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL**  
**SUPPLEMENTARY SUPPORTING SCHEDULE**  
**BANK TRANSACTIONS**  
**July 31, 2016**

Beginning Bank Balance July 1, \$ **693,993.88**  
Receipts

UMB	07/13/2016	Funds transfer/ Construction	2,666,773.79	
UMB	07/13/2016	Funds transfer/ Admin	19,466.09	
The Bank of Edwardsville	07/31/2016	July Interest	254.43	
				<b>\$ 2,686,494.31</b>

Disbursements

ABNA	07/05/2016	Design & Construction	2,239.60	
AT & T	07/05/2016	Telephone	32.12	
Dorgan, McPike & Assoc, LTD	07/05/2016	Legal & Legislative	3,000.00	
Smith Dawson & Andrews	07/05/2016	Government Relations	5,000.00	
Sprague & Urban Attorneys at Law	07/05/2016	Legal & Legislative	300.00	
ABNA	07/05/2016	Design & Construction	482.00	
Microsoft Office	07/05/2016	Subscription	0.99	
Office Depot	07/05/2016	Office Supplies	18.14	
Family Phone	07/09/2016	Telephone	110.00	
Amec Foster Wheeler Environment & Infracore	07/11/2016	Design & Construction	854,362.90	
CliftonLarsonAllen LLP	07/11/2016	Fiscal Agent	2,200.00	
Husch Blackwell	07/12/2016	Legal & Legislative	80,586.29	
The Bank of Edwardsville	07/13/2016	Wire Fee	10.00	
The Bank of Edwardsville	07/13/2016	Wire Fee	10.00	
AT & T	07/13/2016	Telephone	53.00	
Keller Construction Inc	07/15/2016	Construction	741,654.31	
The Lane Construction Corporation	07/15/2016	Construction	171,602.19	
TREVIICOS South	07/15/2016	Construction	804,249.00	
The Bank of Edwardsville	07/15/2016	Wire Fee	15.00	
The Bank of Edwardsville	07/15/2016	Wire Fee	15.00	
The Bank of Edwardsville	07/15/2016	Wire Fee	15.00	
UMB Bank, NA	07/18/2016	Bond Trust Services	5,156.90	
UMB Bank, NA	07/18/2016	Bond Trust Services	3,566.90	
Columbia Capital	07/19/2016	Financial Advisor	900.00	
Cost Less Copy Center	07/19/2016	Board Meeting Materials	192.00	
Dorgan, McPike & Assoc, LTD	07/26/2016	Legal & Legislative	3,000.00	
Roxana Landfill, Inc	07/26/2016	Construction	27,970.00	
East-West Gateway Council of Governments	07/27/2016	Supervisory Mgt Services	17,641.29	
ABNA	07/28/2016	Design & Construction	12,529.30	
Walmart	07/28/2016	Office Supplies	13.98	
Walmart	07/28/2016	Office Supplies	31.06	
The Bank of Edwardsville	07/31/2016	Bank Service Charge	17.24	

**\$ 2,736,974.21**

**\$ 643,513.98**



Memo to: Board of Directors  
From: Chuck Etwert  
Subject: FY 2017 Annual Budget  
Date: August 15, 2016

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. Accompanying the draft budget was a two year expenditure chart which provided an additional breakdown of expected design and construction costs.

The FY 2017 budget focuses on the completion of all construction needed to achieve FEMA accreditation. Unfortunately, during FY2016 we experienced delays due to high river conditions, the Corps of Engineers offering a cost saving construction alternative not previously mentioned, and the East St. Louis 126-inch Sewer Project being added the certification process. This has pushed the accreditation schedule back an additional eight to ten months to August/October 2017.

We will enter FY 2017 with the nine current construction contract packages being over eighty percent complete, and all of them being completed before the end of the year. The East St. Louis 126-inch Sewer Project should be completed by the end of March 2017.

Certification reports will be submitted to FEMA, approximately four months after each levee system is completed. Amec Foster Wheeler will be preparing reports for Lower Wood River, Wood River East/West Forks, and Prairie Du Pont/Fish Lake.

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

The FEMA accreditation process is anticipated to take four month to eight months.

The recommended FY 2017 budget is shown in Table 1.

The only change from the draft budget presented last month is the movement of \$1,500,000 from projected FY2016 expenditures to the FY2017 budget, due to the river level/water table not falling as fast as anticipated, thus delaying the start of the installation of the reinforced concrete pipe.

In general, expenditures for next year's budget are based on completion of the 100 Year Level of Protection Projects, and the continuation of the 500-Year Authorized Level Projects

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

Key assumptions are:

1. All 100-Year Level project construction will be completed by March 31, 2017 and FEMA certification will be achieved by late summer or fall of 2017.
2. The level of Council staffing does not change in FY 2017, 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 any surpluses after payment of debt service and Council administrative costs will be transferred back to the county FPD funds for use in future project financing. These transfers are shown as expenditures in the budget.
4. A 10% construction cost contingency is included for all remaining construction on all projects currently being built or to be built.
5. Sales tax revenue is estimated to increase by 1.00% over last year, our highest level of receipts. Our current increase level thru July of this year is 1.06%. 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 will satisfy the Corps of Engineers' five percent cash requirement on future projects constructed by the Corps.
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 being built.
8. With the sale of additional revenue bonds in FY 2016, current Authorized Level funding is anticipated to be about \$86 million.
9. County FPD sales tax funds will be used for the 500-Year Authorized Level Projects, after all of the Council's funds have been utilized.

Table 2 is the two year expenditure chart, indicating the estimated Council project expenditures for design, construction and operations through fiscal year 2017 for the completion of the 100-Year Projects and initial costs for the 500-Year Authorized Level Projects.

Table 3 compares expenses to revenues between 7/1/2016 and 9/30/2017. The table illustrates, as of July 1, 2016, all 2010 Bond Issue construction funds have been spent, the amount of available 2015 Bond Issue construction funds is \$70,216,710, and total amount of individual County FPD funds is \$27,531,855.

Table 4 illustrates that currently anticipated Authorized Level funding is approximately \$86 million.

These tables and the proposed budget illustrate that the Council will meet its goal of achieving FEMA certification with the revenue available from the dedicated FPD sales tax and have sufficient funds available for Authorized Level improvements. Easements, high river stages, and construction delays have push accreditation back but we are well on our way to achieving accreditation in 2017.

Recommendation: Approve the proposed FY 2017 annual budget for the Council and authorize the Chief Supervisor to submit it to the Boards of St. Clair, Madison, and Monroe Counties as presented.

Table 1

**SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL  
PROPOSED BUDGET  
OCTOBER 1, 2016 THRU SEPTEMBER 30, 2017**

	ACTUAL EXPENDITURES OCTOBER 1, 2014 THRU SEPTEMBER 30, 2015	ADOPTED BUDGET OCTOBER 1, 2015 THRU SEPTEMBER 30, 2016	PROJECTED EXPENDITURES OCTOBER 1, 2015 THRU SEPTEMBER 30, 2016	PROPOSED BUDGET OCTOBER 1, 2016 THRU SEPTEMBER 30, 2017
<b>REVENUES</b>				
Sales Tax Proceeds From Districts	\$ 11,378,530	\$ 11,500,000	\$ 11,596,054	\$ 11,750,000
Interest Income	273,556	75,000	639,682	640,000
Other Contributions			5	-
Total Revenues	<u>\$ 11,652,086</u>	<u>\$ 11,575,000</u>	<u>\$ 12,235,741</u>	<u>\$ 12,390,000</u>
<b>EXPENDITURES</b>				
Design and Construction				
Engineering Design & Construction Management	2,912,215	14,933,787	7,087,879	9,197,055
Construction	26,860,281	44,674,432	23,795,713	22,840,515
USACE Authorized Level Costs		2,739,245	\$ 2,439,618	5,760,115
Total Design and Construction	<u>\$ 29,772,496</u>	<u>\$ 62,347,464</u>	<u>\$ 33,323,210</u>	<u>\$ 37,797,685</u>
Professional Services				
Legal & Legislative Consulting	287,219	391,000	457,006	458,500
Diversity Program Manager	64,380	25,130	27,680	25,000
Financial Advisor	28,801	83,200	110,849	65,000
Bond Trustee Fee	9,778	10,000	11,127	12,000
Total Professional Services	<u>\$ 390,178</u>	<u>\$ 509,330</u>	<u>\$ 606,662</u>	<u>\$ 560,500</u>
Refund of Surplus Funds to County FPD Accounts				
Total Refund of Surplus Funds to County	<u>\$ 3,237,778</u>	<u>\$ 4,000,000</u>	<u>\$ 4,000,000</u>	<u>\$ 4,000,000</u>
Debt Service				
Principal and Interest	7,101,239	7,103,089	9,483,278	10,725,020
Federal Interest Subsidy	(843,700)	(843,700)	(848,250)	(848,250)
Total Debt Service	<u>\$ 6,257,539</u>	<u>\$ 6,259,389</u>	<u>\$ 8,635,028</u>	<u>\$ 9,876,770</u>
Total Design & Construction Expenses	<u>\$ 39,657,991</u>	<u>\$ 73,116,183</u>	<u>\$ 46,564,900</u>	<u>\$ 52,234,955</u>
General and Administrative Costs				
Salaries, Benefits	193,656	196,500	196,912	203,000
Advertising	-	-	-	-
Bank Service Charges	1,472	1,500	1,536	1,500
Annual IL. Lobbyist Registration	311	350	307	350
Equipment and Software	25	2,000	577	2,000
Fiscal Agency Services	27,200	29,000	26,200	30,000
Audit Services	14,500	15,000	15,000	15,500
Meeting Expenses	-	1,000	-	1,000
Postage/Delivery	358	400	369	400
Printing/Photocopies	2,890	2,500	3,999	3,500
Professional Services	191	10,000	257	10,000
Publications/Subscriptions	117	250	118	250
Supplies	2,982	3,000	3,548	3,300
Telecommunications/Internet	2,507	3,000	2,541	3,000
Travel	458	5,000	799	5,000
Insurance	968	1,000	942	1,000
Total General & Administrative Costs	<u>247,635</u>	<u>\$ 270,500</u>	<u>\$ 253,105</u>	<u>279,800</u>
Total Expenditures	<u>39,905,626</u>	<u>\$ 73,386,683</u>	<u>\$ 46,818,005</u>	<u>52,514,755</u>
<b>EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES</b>	<u>(28,253,540)</u>	<u>\$ (61,811,683)</u>	<u>\$ (34,582,264)</u>	<u>\$ (40,124,755)</u>
<b>OTHER FINANCING SOURCES</b>				
Proceeds From Borrowing	-	\$ 77,545,236	83,835,000	\$ -
<b>NET CHANGE IN FUND BALANCE</b>	<u><u>\$ (28,253,540)</u></u>	<u><u>\$ 15,733,553</u></u>	<u><u>\$ 49,252,736</u></u>	<u><u>\$ (40,124,755)</u></u>

Table 2  
**Estimated Project Expenditures 10.1.2015 -9.30.2017**

<b>Design &amp; Construction Management</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>TOTAL 2 YEAR COST</b>
<b>Engineering Design</b>			
<i>W. O. #1 Program Mgmt.</i>	\$212,772	\$239,853	\$452,625
<i>W. O. #3 Preconstruction Activities</i>	\$56,412	\$100,000	\$156,412
<i>W. O. #7 Final Design</i>	\$17,000	\$2,485	\$19,485
<i>W. O. #9 Wood River Cutoff Walls</i>	\$37,412	\$25,000	\$62,412
<i>W. O. #11 FEMA Certification Services</i>	\$71,473	\$224,481	\$295,954
<i>W. O. #12 Authorized Level Planning Services</i>	\$141,999	\$44,577	\$186,576
<i>W.O. #15 East St. Louis Combined Sewer</i>	\$145,014	\$20,000	\$165,014
<b>Authorized Level Work Orders</b>			
<i>W.O. #13 Wood River Field &amp; Design Activities BP #8, #9, &amp; #10</i>	\$546,982	\$175,000	\$721,982
<i>W.O. #13 Wood River Additional (if Corps obtains review funds)</i>	\$185,000	\$1,200,000	\$1,385,000
<i>W.O. #14 MESD Field &amp; Design Activities</i>	\$2,600,449	\$3,000,000	\$5,600,449
<i>Prairie Du Pont/Fish Lake Field Activities</i>	\$0	\$2,400,000	\$2,400,000
<i>Prairie Du Pont/Fish Lake Design</i>	\$50,000	\$600,000	\$650,000
<b>Construction Management.</b>			
<i>W. O. #8 Construction Management BP #1 - #6 &amp; Amendment #4</i>	\$1,748,815	\$600,864	\$2,349,679
<i>W. O. #10 Construction Management BP #7A &amp; #7B</i>	\$1,047,149	\$100,000	\$1,147,149
<i>W.O # ? Construction Management BP #8 &amp; BP #14</i>	\$0	\$50,000	\$50,000
<i>WO#16 Construction Management BP5A (ESTL Sewer)</i>	\$0	\$250,000	\$250,000
<i>QC/Materials Testing</i>	\$227,402	\$164,795	\$392,197
<b>TOTAL ENGINEERING DESIGN &amp; CONSTRUCTION MGMT.</b>	<b>\$7,087,879</b>	<b>\$9,197,055</b>	<b>\$16,284,934</b>
<b>Construction</b>			
<i>Bid Package #2B</i>	\$526,470	\$806,830	\$1,333,300
<i>Bid Package #2C</i>	\$281,632	\$3,390	\$285,022
<i>Bid Package #3</i>	\$6,602,613	\$1,174,311	\$7,776,924
<i>Bid Package #4</i>	\$815,306	\$3,018,709	\$3,834,015
<i>Bid Package #5</i>	\$1,404,091	\$7,067,826	\$8,471,917
<i>Bid Package #6</i>	\$1,264,920	\$340,717	\$1,605,637
<i>Bid Package #7B</i>	\$11,715,663	\$1,262,349	\$12,978,012
<i>East St. Louis Combined Sewer</i>	\$0	\$4,000,000	\$4,000,000
<i>Bid Package # 8</i>	\$0	\$400,000	\$400,000
<i>Bid Package #14</i>	\$0	\$400,000	\$400,000
<i>Contingency (10% FPD Construction)</i>	\$0	\$1,697,413	\$1,697,413
<i>Property Acquisition 100-Year Projects</i>	\$123,909	\$0	\$123,909
<i>Property Acquisition Authorized Level - Wood River</i>	\$0	\$125,000	\$125,000
<i>Property Acquisition Authorized Level - East St. Louis</i>	\$0	\$300,000	\$300,000
<i>Property Acquisition Authorized Level - Prairie Du Pont/Fish Lake</i>	\$0	\$175,000	\$175,000
<i>Wetland Mitigation</i>	\$27,970	\$27,970	\$55,940
<i>HazMat Mitigation</i>	\$251,792	\$1,500,000	\$1,751,792
<i>Legal</i>	\$781,347	\$541,000	\$1,322,347
<i>Corps of Eng. Authorized Level Costs (Oversight)</i>	\$2,439,618	\$5,760,115	\$8,199,733
<b>TOTAL CONSTRUCTION</b>	<b>\$26,235,331</b>	<b>\$28,600,630</b>	<b>\$54,835,961</b>
<b>TOTAL ENGINEERING DESIGN &amp; CONSTRUCTION</b>	<b>\$33,323,210</b>	<b>\$37,797,685</b>	<b>\$71,120,895</b>
<b>REFUND OF SURPLUS FUNDS TO COUNTY FPD ACCOUNTS</b>	<b>\$4,000,000</b>	<b>\$4,000,000</b>	<b>\$8,000,000</b>

<b>Operations &amp; Financing</b>			
<i>General &amp; Administrative</i>	\$253,105	\$279,800	\$532,905
<i>Debt Service</i>	\$9,483,278	\$10,725,020	\$20,208,298
<i>Interest Rate Subsidy</i>	(\$848,250)	(\$848,250)	(\$1,696,500)
<b>Professional Services</b>			
<i>Legal</i>	\$361,006	\$362,500	\$723,506
<i>Legislative</i>	\$96,000	\$96,000	\$192,000
<i>Financial Advisor</i>	\$110,849	\$65,000	\$175,849
<i>Diversity Program Mgr.</i>	\$27,680	\$25,000	\$52,680
<i>Bond Trustee</i>	\$11,127	\$12,000	\$23,127
<b>TOTAL OPERATIONS</b>	\$9,494,795	\$10,717,070	\$20,211,865
<b>TOTAL EXPENSES</b>	\$46,818,005	\$52,514,755	\$99,332,760

Table 3

**Estimated Revenues 7.1.2016 - 9.30.2017**

<b>Fund Sources</b>	
<i>Cash on hand (6/30/16)</i>	\$712,058
<i>2010 Bond Project Funds (6/30/2016)</i>	\$0
<i>2015 Bond Project Funds (6/30/2016)</i>	\$70,216,710
<i>County FPD Tax Bal. (6/30/2016)</i>	\$27,531,855
<i>Sales Tax Revenue (7/1/2016-9/30/2016)</i>	\$2,990,000
<i>Interest Income (7/1/2016-9/30/2016)</i>	\$200,000
<i>Sales Tax Revenue (10/1/2016-9/30/2017)</i>	\$11,750,000
<i>Interest Income (10/1/2016-9/30/2017)</i>	\$640,000
<b>Total Available Funds</b>	\$114,040,623

**Estimated Expenditures 7.1.2016 - 9.30.2017**

<b>Expenditures</b>	
<i>Engineering Design and Construction Mgmt. (7/1/2016-9/30/2016)</i>	\$2,729,724
<i>Construction (7/1/2016-9/30/2016)</i>	\$4,619,019
<i>Professional Services (7/1/2016-9/30/2016)</i>	\$149,525
<i>General &amp; Administrative (7/1/2016-9/30/2016)</i>	\$61,590
<i>Federal Interest Subsidy</i>	(\$424,125)
<i>Engineering Design and Construction Mgmt. (10/1/2016-9/30/2017)</i>	\$9,197,055
<i>Construction (10/1/2016-9/30/2017)</i>	\$28,600,630
<i>Professional Services (10/1/2016-9/30/2017)</i>	\$560,500
<i>Debt Service (10/1/2016-9/30/2017)</i>	\$9,876,770
<i>General &amp; Administrative (10/1/2016-9/30/2017)</i>	\$279,800
<b>Estimated Expenditures</b>	\$55,650,488

**Net Available Funds** \$58,390,135

Table 4

**Current Anticipated Authorized Level Funding**

<i>Design FY2016 &amp; FY 2017</i>	\$10,994,007
<i>Concrete Pipe Change Orders</i>	\$9,446,022
<i>FPD Construction FY2017</i>	\$1,400,000
<i>Corps of Engineers (Oversight)</i>	\$5,760,115
<i>Construction Contingencies</i>	\$80,000
<i>Net Available Funds (9/30/2017)</i>	\$58,390,135
<b>Total Estimated Available Authorized Level Funds</b>	\$86,070,279





Memo to: Board of Directors

From: Chuck Etwert

Subject: Annual Report

Date: August 15, 2016

Attached is the proposed Annual Report for FY 2016. 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 2016 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 2015-2016



August 17, 2016





**Southwestern  
Illinois  
Flood Prevention  
District Council**

104 United Drive  
Collinsville, IL 62234

618-343-9120  
Fax 618-343-9132

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

August 17, 2016

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

**Board of Directors**

Ron Motil

President

Paul Bergkoetter

Vice President

John Conrad

Secretary-Treasurer

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

Bruce Brinkman

John Hamm

Thomas Long

Debra Moore

Alvin L. Parks Jr.

Ronald Polka

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

Sirs:

Charles M. Ewert  
Chief Supervisor of  
Construction and the Works

Transmitted herewith is the 2015-2016 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/).

The Council has adopted two primary goals: to assure accreditation by the Federal Emergency Management Agency of area levee systems and to limit any economic damage to the region during the period during which accreditation is being sought. The Council has continued to make great progress toward achieving both goals during the last year.

We will enter FY2017 with over eighty percent of our current nine construction packages complete and anticipate construction of all nine package to be finished by the end of 2016.

Delays due to high river conditions, the Corps of Engineers offering a cost saving construction alternative not previously mentioned, and the East St. Louis 126-inch Sewer Project being added the certification process have pushed the accreditation schedule back but the Council is well on its way to achieving accreditation in 2017, using only revenue available from the dedicated FPD sales tax..

*a regional partnership to rebuild Mississippi River flood protection*

Certification reports will be submitted to FEMA, as each levee system is completed. This will occur approximately four months after completion of construction, with FEMA accreditation anticipated in another four months.

In December, the Council was successful with the issuance of additional sales tax revenue bonds which will generate an additional \$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 able to obtain funding.

The Council continues to work with the Corps of Engineers regarding the process of the Council moving ahead with the 500-Year Authorized Level of Protection Projects..

The Board of Directors has already accepted Authorized Level Project Summary Reports for the Wood River Levee System and Metro East Sanitary District (MESD) Levee System. Bid Packages, based on the Corps' limited oversight funds, are under design in both of these systems.

In the Prairie Du Pont/Fish Lake area, the Corps of Engineers has identified 500-Year Authorized Level of Protection projects in the areas where there weren't any 100-Year Level Improvements or where only seepage berms were built. The Corps is seeking additional federal funding to complete their identification of the projects in the remaining areas. Amec Foster Wheeler will be providing an Authorized Level Project Summary Report Phase I for the Council to consider at their August meeting, with a request for funding to be presented in September.

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 Metro-East.

Thank you for supporting our efforts throughout the year.

Sincerely,



Charles M. Etwert  
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 end 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 70 years. That plan is now being implemented.

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 2015-2016 towards implementing flood protection improvements.





## II. Background

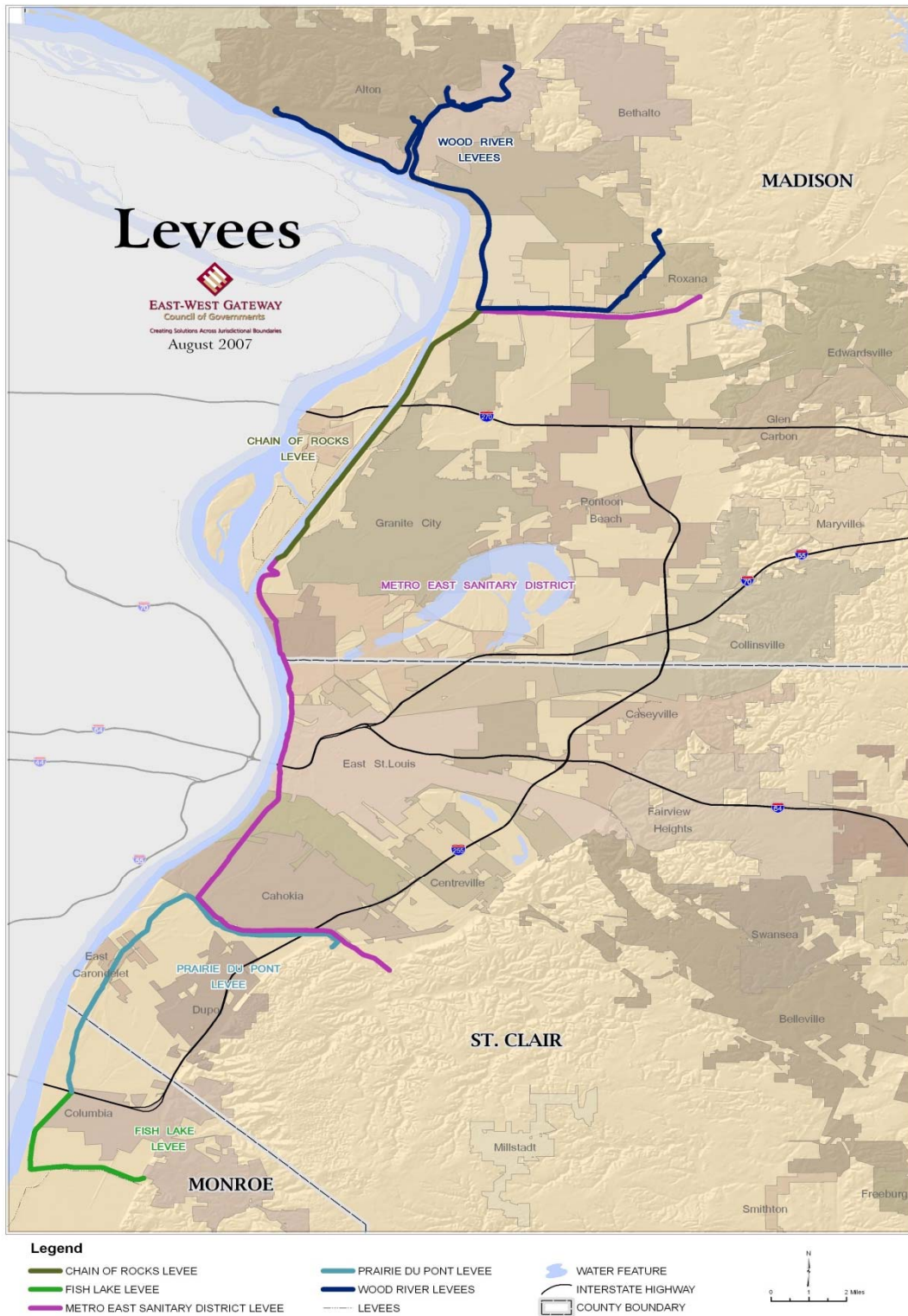
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A system of 85 miles of mainline and wing levees protects an area called the American Bottom in Southwestern Illinois from flooding by the Mississippi River. The American Bottom is an area of 174 square miles that is home to 156,000 people and 55,000 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 70 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 was 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 Corps. Construction was 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. Construction was authorized by the Flood Control Act of 1936, Pub. 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 Du Pont Levee***, operated and maintained by the Prairie Du Pont 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. Construction was authorized by the Flood Control Act of 1954. 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 Du Pont 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 principal goal is to assure accreditation by FEMA in accordance with criteria described in 44 CFR 65.10 – Mapping of Areas Protected by Levee Systems.

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 from the area.

While the levee systems in this area were built by the Corps 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, so 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 produces about \$11.5 million annually.



### III. FPD Council Activities

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

Over the last few 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 now is completing all construction in early 2017.

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 nine construction packages required to complete the project
- Sold an additional \$83.8 million in bonds for 500-Year Authorized Level Protection Projects

The Council's general goals have been to:

- assure compliance with FEMA accreditation standards with currently available revenue sources summer of 2017 (originally the end of 2015, but extended due to obtainment of easements, high river stages, construction alternatives, and construction delays); and
- minimize economic and financial hardship should the levee systems be de-accredited by FEMA

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 more than two years of design work, multiple levee system inspections, drilling nearly 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 is performing major construction. The design is complete, construction is nearing completion, financial plans have been developed and kept updated, and a current project budget demonstrates convincingly that the Council will build the project using only the funds from the dedicated sales tax and have significant funds to utilize towards the 500-Year Authorized Level of Protection.

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

The Council has adopted policies that emphasize the use of our local workforce on the construction of the project. It is our policy that all contractors working on the project will use a Project Labor Agreement (PLA) and comply with Illinois law regarding the use of prevailing wages. The Council is also implementing a minority business and workforce utilization policy. We remain 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.

Therefore, this past year, 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.

Unfortunately, the Corps awarded the contract to Mi-Con, a division of Michels Corporation, whose proposal didn't 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 now needs 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 aren't anticipated.

During the last year there have been three significant events that have impacted the certification schedule.

First, in August 2015, the Corps of Engineers informed the Council that replacing the high density polyethylene pipe (HDPE), the Corps had previously approved under a 408 permit process, with reinforced concrete pipe (RCP), would eliminate 14,300 feet of deep cutoff wall costing an estimated \$62.9 million dollars. This change affected three different bid packages.

The cost to remove and replace the HDPE pipe with RCP pipe was estimated to cost approximately \$12.9 million, for a net savings was \$50.0 million dollars. Council acted quickly and authorized the installation of the RCP pipe. Why Corps didn't suggest this alternative originally is unknown.

Unfortunately, it took until December for the Corps of Engineers to approve revised construction plans utilizing the RCP pipe. That is when the second event, the Flood of December 2015 occurred. The effects of this unusual, time of year, flood event, slowed construction and prevented the installation of any of the RCP pipe thru the month of July.

The last event is the repair of a 126 inch sewer located in the MESD levee. This is a City of East St. Louis sewer which has been identified to be repaired, in order, to achieve certification. It is a City of East St. Louis' maintenance responsibility, but unfortunately the City doesn't have the funds to correct the situation. The Council will have to advance the funds for the design and construction, with an agreement with the City for repayment.

The Council and the Corps of Engineers are currently looking at a solution involving the construction of an interior cofferdam with the lining of the existing sewer under the MESD levee, the sewer between the MESD levee and the cofferdam, and the sewer under the cofferdam. Unfortunately, the approval process and construction will extend into early 2017.

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.

We have continued to work closely with our congressional delegation throughout the year 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 very supportive of the project and are working on our behalf to advance our interests with the Corps, with FEMA, and in Congress.

With the interim goal of achieving FEMA accreditation in sight and the Corps of Engineers' decision on the utilization of Project Labor Agreements, the Board of Directors, by resolution (Appendix II), in February 2015, established its official intent to restore the federally Authorized 500-Year Level of Mississippi Flood Protection in the Metro-East to the best of its financial capabilities.

In December 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 Board of Directors has already accepted Authorized Level Project Summary Reports for the Wood River Levee System and Metro East Sanitary District (MESD) Levee System. Bid Packages, based on the Corps' limited oversight funds, are currently under design in these systems.

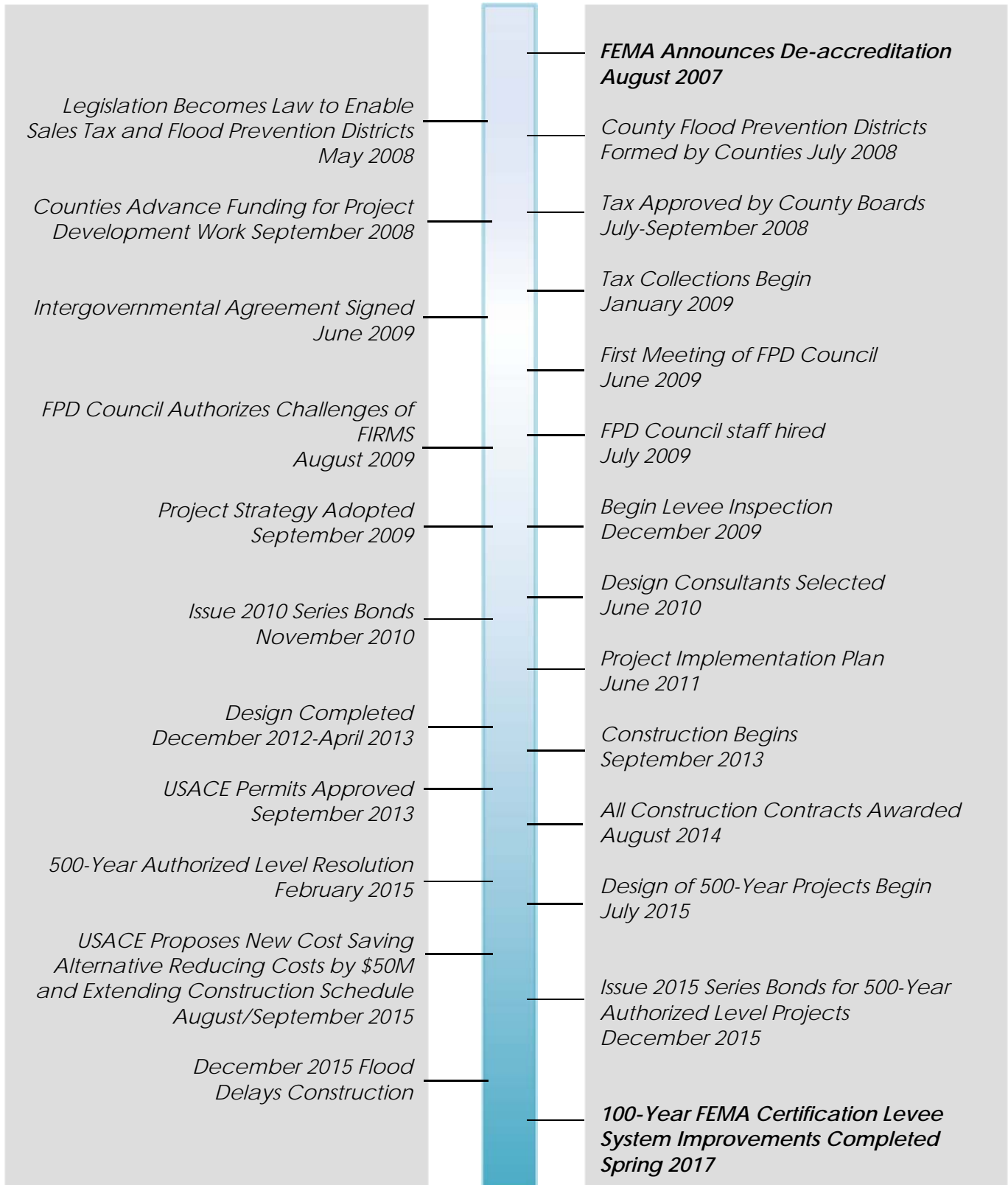
In the Prairie Du Pont/Fish Lake area, the Corps of Engineers has recently identified 500-Year Authorized Level of Protection projects in areas where there weren't any 100-Year Level Improvements or where only seepage berms were built. The Corps is seeking additional federal funding to complete their identification of projects in the remaining areas. Amec Foster Wheeler will present the Authorized Level Project Summary Report Phase I for the Prairie Du Pont/Fish Lake area at the Council's August meeting, with a request for funding to be presented in September.

The general design features of the Wood River Levee System, the Metro East Sanitary District (MESD) Levee System and the Prairie Du Pont/Fish Lake Levee System Phase I 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 Metro-East. The Council remains committed to achieving accreditation in 2017. With the continued support of the area's leadership and cooperation from the Corps of Engineers, we will be able to meet any remaining challenges to completion of the project.



**Figure 2**  
**Project Timeline**





## IV. Financing and Budget

Table 1 is a financial summary of the Council’s activities through September 30, 2015, prepared by Scheffel Boyle.

Revenue from a dedicated sales tax was used to support the Council’s ongoing design and construction activities. While sales tax revenue showed substantial growth in 2009, 2010 and 2011 coming out of the recession, growth was slowed in 2012, declined in 2013, but has reached new highs in 2014 & 2015. (See Figure 3).

The Council issued bonds in the amount of \$94,195,000 in November 2010. After setting aside funds for a debt service reserve and costs of issuance, around \$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 to be used for the 500-Year Authorized Level of Protection Projects. The Council will meet its goal of achieving FEMA certification in 2017 utilizing only the revenues available from the dedicated FPD sales tax.

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

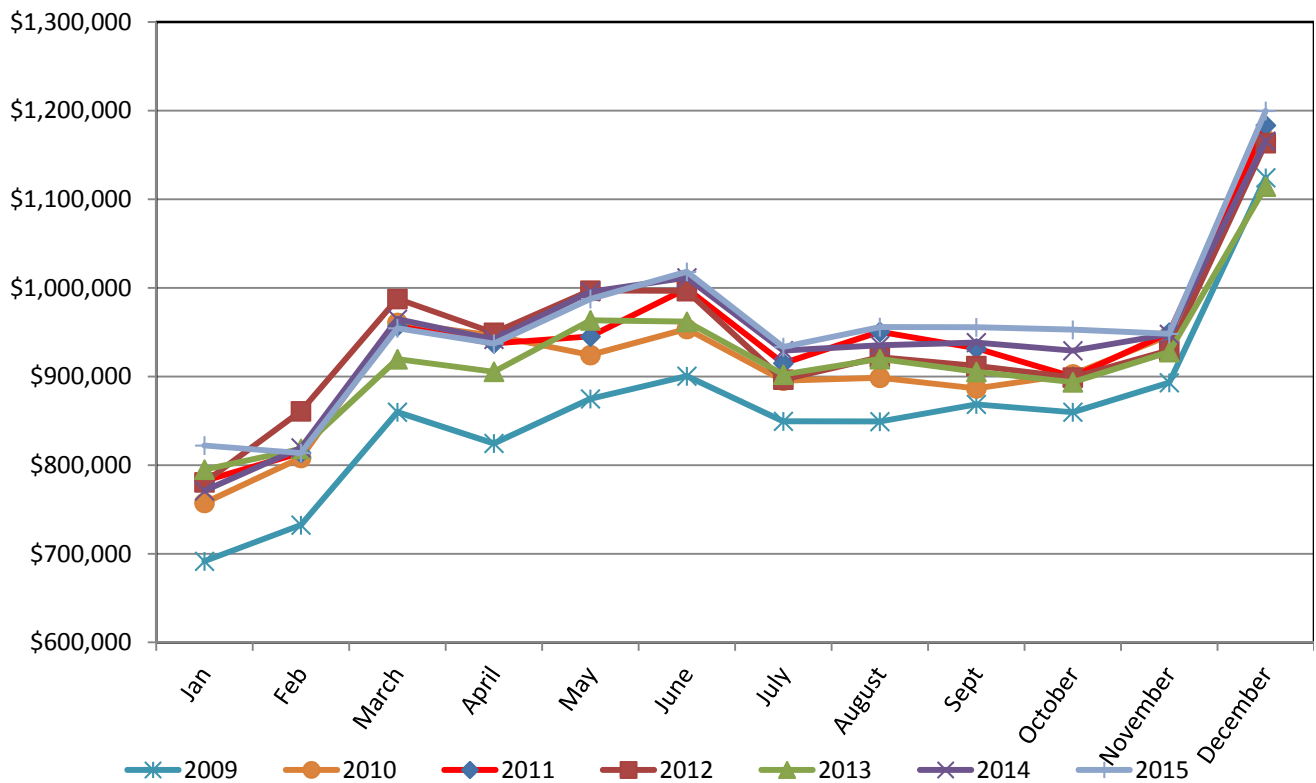


Table 1

**SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL  
STATEMENT OF REVENUES, EXPENDITURES, AND  
CHANGES IN FUND BALANCES - GOVERNMENTAL FUND  
FOR THE YEAR ENDED SEPTEMBER 30, 2015**

<b>REVENUES:</b>	
District Sales Tax	\$ 11,403,134
Less: Return of Excess Sales Tax to Districts	(3,829,139)
Interest Income	212,424
<b>Total Revenues</b>	<b>\$ 7,786,419</b>
 <b>EXPENDITURES:</b>	
Current:	
General and Administrative	\$ 247,447
Design and Construction	31,467,779
Professional Services	423,562
Debt Service:	
Principal	2,605,000
Interest	4,496,239
Less: Federal Interest Subsidy	(843,700)
<b>Total Expenditures</b>	<b>\$ 38,396,327</b>
NET CHANGE IN FUND BALANCE	<b>\$ (30,609,908)</b>
 FUND BALANCES:	
Beginning of Year	55,316,687
End of Year	<b>\$ 24,706,779</b>

Table 2 summarizes estimated project costs for FY2016 and FY2017.

Table 3 compares expenses to revenues between 7/1/2016 and 9/30/2017. The table illustrates, as of July 1, 2016, all 2010 Bond Issue construction funds have been spent, the amount of available 2015 Bond Issue construction funds is \$70,216,710, and total amount of individual County FPD funds is \$27,531,855.

Table 4 illustrates that currently anticipated Authorized Level funding is approximately \$86 million.

This information illustrates that *the Council will meet our goals of achieving FEMA certification in 2017 with the revenue available from the dedicated FPD sales tax.* Easements, high river stages, and construction delays have push accreditation back but the Council is well on the way to achieving accreditation in 2017.

Table 2  
**Estimated Project Expenditures 10.1.2015 -9.30.2017**

<b>Design &amp; Construction Management</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>TOTAL 2 YEAR COST</b>
<b>Engineering Design</b>			
<i>W. O. #1 Program Mgmt.</i>	\$212,772	\$239,853	\$452,625
<i>W. O. #3 Preconstruction Activities</i>	\$56,412	\$100,000	\$156,412
<i>W. O. #7 Final Design</i>	\$17,000	\$2,485	\$19,485
<i>W. O. #9 Wood River Cutoff Walls</i>	\$37,412	\$25,000	\$62,412
<i>W. O. #11 FEMA Certification Services</i>	\$71,473	\$224,481	\$295,954
<i>W. O. #12 Authorized Level Planning Services</i>	\$141,999	\$44,577	\$186,576
<i>W.O. #15 East St. Louis Combined Sewer</i>	\$145,014	\$20,000	\$165,014
<b>Authorized Level Work Orders</b>			
<i>W.O. #13 Wood River Field &amp; Design Activities BP #8, #9, &amp; #10</i>	\$546,982	\$175,000	\$721,982
<i>W.O. #13 Wood River Additional (if Corps obtains review funds)</i>	\$185,000	\$1,200,000	\$1,385,000
<i>W.O. #14 MESD Field &amp; Design Activities</i>	\$2,600,449	\$3,000,000	\$5,600,449
<i>Prairie Du Pont/Fish Lake Field Activities</i>	\$0	\$2,400,000	\$2,400,000
<i>Prairie Du Pont/Fish Lake Design</i>	\$50,000	\$600,000	\$650,000
<b>Construction Management.</b>			
<i>W. O. #8 Construction Management BP #1 - #6 &amp; Amendment #4</i>	\$1,748,815	\$600,864	\$2,349,679
<i>W. O. #10 Construction Management BP #7A &amp; #7B</i>	\$1,047,149	\$100,000	\$1,147,149
<i>W.O # ? Construction Management BP #8 &amp; BP #14</i>	\$0	\$50,000	\$50,000
<i>WO#16 Construction Management BP5A (ESTL Sewer)</i>	\$0	\$250,000	\$250,000
<i>QC/Materials Testing</i>	\$227,402	\$164,795	\$392,197
<b>TOTAL ENGINEERING DESIGN &amp; CONSTRUCTION MGMT.</b>	<b>\$7,087,879</b>	<b>\$9,197,055</b>	<b>\$16,284,934</b>
<b>Construction</b>			
<i>Bid Package #2B</i>	\$526,470	\$806,830	\$1,333,300
<i>Bid Package #2C</i>	\$281,632	\$3,390	\$285,022
<i>Bid Package #3</i>	\$6,602,613	\$1,174,311	\$7,776,924
<i>Bid Package #4</i>	\$815,306	\$3,018,709	\$3,834,015
<i>Bid Package #5</i>	\$1,404,091	\$7,067,826	\$8,471,917
<i>Bid Package #6</i>	\$1,264,920	\$340,717	\$1,605,637
<i>Bid Package #7B</i>	\$11,715,663	\$1,262,349	\$12,978,012
<i>East St. Louis Combined Sewer</i>	\$0	\$4,000,000	\$4,000,000
<i>Bid Package # 8</i>	\$0	\$400,000	\$400,000
<i>Bid Package #14</i>	\$0	\$400,000	\$400,000
<i>Contingency (10% FPD Construction)</i>	\$0	\$1,697,413	\$1,697,413
<i>Property Acquisition 100-Year Projects</i>	\$123,909	\$0	\$123,909
<i>Property Acquisition Authorized Level - Wood River</i>	\$0	\$125,000	\$125,000
<i>Property Acquisition Authorized Level - East St. Louis</i>	\$0	\$300,000	\$300,000
<i>Property Acquisition Authorized Level - Prairie Du Pont/Fish Lake</i>	\$0	\$175,000	\$175,000
<i>Wetland Mitigation</i>	\$27,970	\$27,970	\$55,940
<i>HazMat Mitigation</i>	\$251,792	\$1,500,000	\$1,751,792
<i>Legal</i>	\$781,347	\$541,000	\$1,322,347
<i>Corps of Eng. Authorized Level Costs (Oversight)</i>	\$2,439,618	\$5,760,115	\$8,199,733
<b>TOTAL CONSTRUCTION</b>	<b>\$26,235,331</b>	<b>\$28,600,630</b>	<b>\$54,835,961</b>
<b>TOTAL ENGINEERING DESIGN &amp; CONSTRUCTION</b>	<b>\$33,323,210</b>	<b>\$37,797,685</b>	<b>\$71,120,895</b>
<b>REFUND OF SURPLUS FUNDS TO COUNTY FPD ACCOUNTS</b>	<b>\$4,000,000</b>	<b>\$4,000,000</b>	<b>\$8,000,000</b>

<b>Operations &amp; Financing</b>			
<i>General &amp; Administrative</i>	\$253,105	\$279,800	\$532,905
<i>Debt Service</i>	\$9,483,278	\$10,725,020	\$20,208,298
<i>Interest Rate Subsidy</i>	(\$848,250)	(\$848,250)	(\$1,696,500)
<b>Professional Services</b>			
<i>Legal</i>	\$361,006	\$362,500	\$723,506
<i>Legislative</i>	\$96,000	\$96,000	\$192,000
<i>Financial Advisor</i>	\$110,849	\$65,000	\$175,849
<i>Diversity Program Mgr.</i>	\$27,680	\$25,000	\$52,680
<i>Bond Trustee</i>	\$11,127	\$12,000	\$23,127
	<b>TOTAL OPERATIONS</b>	\$9,494,795	\$10,717,070
	<b>TOTAL EXPENSES</b>	\$46,818,005	\$52,514,755
		\$20,211,865	\$99,332,760

Table 3

**Estimated Revenues 7.1.2016 - 9.30.2017**

<b>Fund Sources</b>	
<i>Cash on hand (6/30/16)</i>	\$712,058
<i>2010 Bond Project Funds (6/30/2016)</i>	\$0
<i>2015 Bond Project Funds (6/30/2016)</i>	\$70,216,710
<i>County FPD Tax Bal. (6/30/2016)</i>	\$27,531,855
<i>Sales Tax Revenue (7/1/2016-9/30/2016)</i>	\$2,990,000
<i>Interest Income (7/1/2016-9/30/2016)</i>	\$200,000
<i>Sales Tax Revenue (10/1/2016-9/30/2017)</i>	\$11,750,000
<i>Interest Income (10/1/2016-9/30/2017)</i>	\$640,000
<b>Total Available Funds</b>	\$114,040,623

**Estimated Expenditures 7.1.2016 - 9.30.2017**

<b>Expenditures</b>	
<i>Engineering Design and Construction Mgmt. (7/1/2016-9/30/2016)</i>	\$2,729,724
<i>Construction (7/1/2016-9/30/2016)</i>	\$4,619,019
<i>Professional Services (7/1/2016-9/30/2016)</i>	\$149,525
<i>General &amp; Administrative (7/1/2016-9/30/2016)</i>	\$61,590
<i>Federal Interest Subsidy</i>	(\$424,125)
<i>Engineering Design and Construction Mgmt. (10/1/2016-9/30/2017)</i>	\$9,197,055
<i>Construction (10/1/2016-9/30/2017)</i>	\$28,600,630
<i>Professional Services (10/1/2016-9/30/2017)</i>	\$560,500
<i>Debt Service (10/1/2016-9/30/2017)</i>	\$9,876,770
<i>General &amp; Administrative (10/1/2016-9/30/2017)</i>	\$279,800
<b>Estimated Expenditures</b>	\$55,650,488
<b>Net Available Funds</b>	\$58,390,135

Table 4

**Current Anticipated Authorized Level Funding**

<i>Design FY2016 &amp; FY 2017</i>	\$10,994,007
<i>Concrete Pipe Change Orders</i>	\$9,446,022
<i>FPD Construction FY2017</i>	\$1,400,000
<i>Corps of Engineers (Oversight)</i>	\$5,760,115
<i>Construction Contingencies</i>	\$80,000
<i>Net Available Funds (9/30/2017)</i>	\$58,390,135
<b>Total Estimated Available Authorized Level Funds</b>	\$86,070,279

## V. FEMA Certification Construction Costs and Completion

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

BID PACKAGE	LOCATION/PROJECT	CONTRACTOR	CONSTRUCTION CONTRACT	ESTIMATED COMPLETION
2A	Fish Lake 1 Pump Station	Korte & Luitjohan	\$797,599.53	December 2014
2B	Prairie DuPont, MESD, and Wood River 5 Pump Stations	Korte & Luitjohan	\$5,345,510.92	December 2016
2C	MESD Site 12 Force Mains	Haier Plumbing	\$285,022.00	December 2015
3	Wood River Blanket Drains, Earth Fill, Relief Wells, Seepage Berms, Piping, Weirs	Keller Construction	\$13,028,848.92	December 2016
4	MESD 1 Pump Station, Clay Cap, Piping, Relief Wells	Haier Plumbing	\$6,367,985.05	December 2016
5	MESD Clay Cap, Earth Fill, Piping, Relief Wells Rip Rap, Sluice Gate Rehabs	Keller Construction	\$14,307,894.23	December 2016
6	Prairie du Pont & Fish Lake Clay Cap, Seepage Berms, Piping, Relief Wells, Sluice Gate Rehabs	Lane Construction	\$15,428,536.00	September 2016
7A	Upper Wood River Shallow Cutoff Wall	Kamadulski Excavating	\$3,375,350.25	June 2015
7B	Lower Wood River Deep Cutoff Wall	TREVIICOS	\$14,812,263.26	September 2016
		<b>TOTAL</b>	<b>\$73,749,010.16</b>	
<b>ADDITIONAL REQUIRED PROJECT</b>				
5A	City of East St. Louis 126 Inch Sewer Repair	To Be Determined	\$4,000,000 Current Estimate	March 2017





## VI. Authorized Level Levee Improvement Projects

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To date, the Board of Directors has approved the design of Authorized Level Projects in the Wood River Levee System and the Metro East Sanitary District (MESD) Levee System as follows:

### **Wood River Levee System**

Bid Package 8 – Comprised of four USACE decision segments and spans from Levee Station 123+75 to 455+50. Construction of a new pump station, between Stations 430+65 and 455+15, and 40 relief wells.

Estimated Construction Cost \$ 9,559,292.

Bid Package 9 – Comprised of two USACE decision segments and spans from Levee Station 493+35 to 480+15. Construction of a new pump station, between Stations 455+50 and 450+15, and 18 relief wells.

Estimated Construction Cost \$ 4,776,688.

Bid Package 10 – Comprised of seven USACE decision segments and spans from Levee Station 530+50 to 630+30. Construction of a new pump station, at Station 530+50, and 36 tributary relief wells. Also, includes seepage berm and fill areas. Two seepage berms, 5 feet thick and 100 feet wide, are to be constructed between Stations 608+85 and 613+70 & 627+00 and 630+30, for a total of 815 linear feet of berm. In addition, 1,010 linear feet of fill is to be added to landside depressions between Stations 613+70 and 623+80.

Estimated Construction Cost \$ 11,461,714.

Due to lack of oversight funds by the Corps of Engineers, Bid Packages 9 & 10 have been put on hold, and Bid Package 8 has been revised to comprise of fourteen decision segments and spans from Levee Station 120+45 to 457+05. Construction of 29 relief wells, 3,500 linear feet of pipe conveyance systems and one new pump station. The estimated construction cost is still being developed.

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

Bid Package 11 – Comprised of ten USACE decision segments and spans from Levee Station 255+90 to 913+30, minus the Chain of Rocks system. Construction of 150 relief wells.

Estimated Construction Cost \$ 13,371,200.

Bid Package 12 – Comprised of five USACE decision segments and spans from Levee Station 929+80 to 1051+90. Construction of a new pump station, between Stations 987+50 and 1018+90, and 50 relief wells.

Estimated Construction Cost \$ 8,454,750.

Bid Package 13 – Comprised of ten USACE decision segments and spans from Levee Station 1065+10 to 1497+40. Construction of a new lift station, between Stations 1144+30 and 1180+60, and 106 relief wells.

Estimated Construction Cost \$ 21,555,818.

Bid Package 14 – Comprised of eleven USACE decision segments and spans from Levee Station 45+60 to 972+70. All earthwork including 8 seepage berms, 1 fill area, and a clay cap spanning from Station 824+20 to 860+60.

Estimated Construction Cost \$ 7,865,622.

Due to lack of oversight funds by the Corps of Engineers, Bid Packages 11, 12, & 13 have been put on hold, and Bid Package 14 has been revised to comprise of 14 seepage berms, one area of earthen fill, and one clay cutoff trench. The decision segments and stationing remain the same. The estimated construction cost is still being developed.

## **Prairie Du Pont/ Fish Lake Levee System**

In the Prairie Du Pont/Fish Lake Levee System, the Corps of Engineers has recently completed their analysis of 500-Year Authorized Level Projects in the areas where there weren't any 100-Year Level Improvements or where only seepage berms were built. For these areas, Amec Foster Wheeler will provide an Authorized Level Project Summary Report Phase I to the Council for acceptance in August 2017 with design approval anticipated in September 2017.

Bid Package to be presented to the Council in September:

Bid Package 15 – Comprised of twenty three USACE decision segments and spans from Levee Station 227+05 to 735+25. Construction of 38 relief wells and 16 seepage berms.

Preliminary Estimated Construction Cost \$ 24,100,000.

The Corps is currently seeking additional federal funding to complete the identification of Authorized Level Projects in the remaining areas.



## VII. FEMA Certification and Mapping

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Certification reports will be submitted to FEMA as each levee system is completed. Amec Foster Wheeler will be preparing reports for Lower Wood River, Wood River East/West Forks, and Prairie Du Pont/Fish Lake.

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

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.

Certification reports will be submitted to FEMA approximately four months after completion of construction, with FEMA accreditation anticipated in another four months.

As it now stands, the FEMA mapping process has been interrupted while the agency implements better methodology for developing maps, especially for those areas protected by de-accredited levees. The FEMA website currently indicates that the Project Status is On-Hold, which is defined as, mapping project experiencing delays. However, a Projected Effective Date of 06/21/2017 is shown. There aren't any suggestions that new maps would differ significantly from those issued a few years ago, so the urgency of making levee system improvements is not diminished.

All levee improvements leading to certification will be completed by spring 2017

The intent is to work closely with FEMA to ensure that when the new maps are issued, they reflect these levee improvements. Currently, FEMA is in the process of holding Open House events focusing on the interior drainage and floodplain in Madison, St. Clair and Monroe counties.



## VIII. Work In-Kind Credit

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The Council continues to work with the Corps of Engineers regarding the process of the Council moving ahead with the 500-Year Authorized Level of protection projects to ensure that the work the Council does is eligible for future Work In-Kind Credit.

This is an elaborate and multi tasked process that can take up to two years before a project is completely 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 for 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 identifies the work the Council intends to perform as In-Kind contributions in a Levee System must be approved. The approved IDRs for Wood River and East St. Louis have been received. The amendments to the PPAs have been finalized and submitted to the Corps' Mississippi Valley Division (MVD). After approval by the MVD, they will be forwarded to headquarters in Washington, D.C. for approval. Approval is currently anticipated to be achieved in January 2017.

A draft of the Integral Determination Report for Prairie Du Pont/ Fish Lake is anticipated early next year.

There is a slight risk of moving forward without amended Project Partnership Agreements, however, it is felt that the risk is low since the Council is working with the Corps and will be designing and constructing projects that the Corps has identified as part of the Authorized Level of Protection. In addition, the Corps will be providing design and construction oversight,

Starting the design process now with a low risk, allows projects to be built two years earlier and provide much needed additional flood protection to the Metro-East area quicker.

The Council 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 seven years that the Council has been in existence towards the regional goal of maintaining a high level of flood protection for the American Bottom. 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 an important milestone this year with over eighty percent of the construction of the nine current projects being completed as of June of this year, and the remaining twenty percent estimated to be completed before the end year.

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 and the Metro East Sanitary District (MESD) 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:

- Complete remaining 100-Year Construction Projects
- Submit Certification reports as each individual levee system is completed
- Achieve FEMA certification
- Continue to work with levee districts to establish sufficient funding for ongoing maintenance of improvements.
- Identify the Authorized Level Projects in the Prairie Du Pont/Fish Lake Levee Systems
- Complete the design of the 500-Year Authorized Level of Protection Projects that will be built by the FPD
- Construct as many cost effective and high priority Authorized Level Projects, which qualify for Work In-Kind Credit

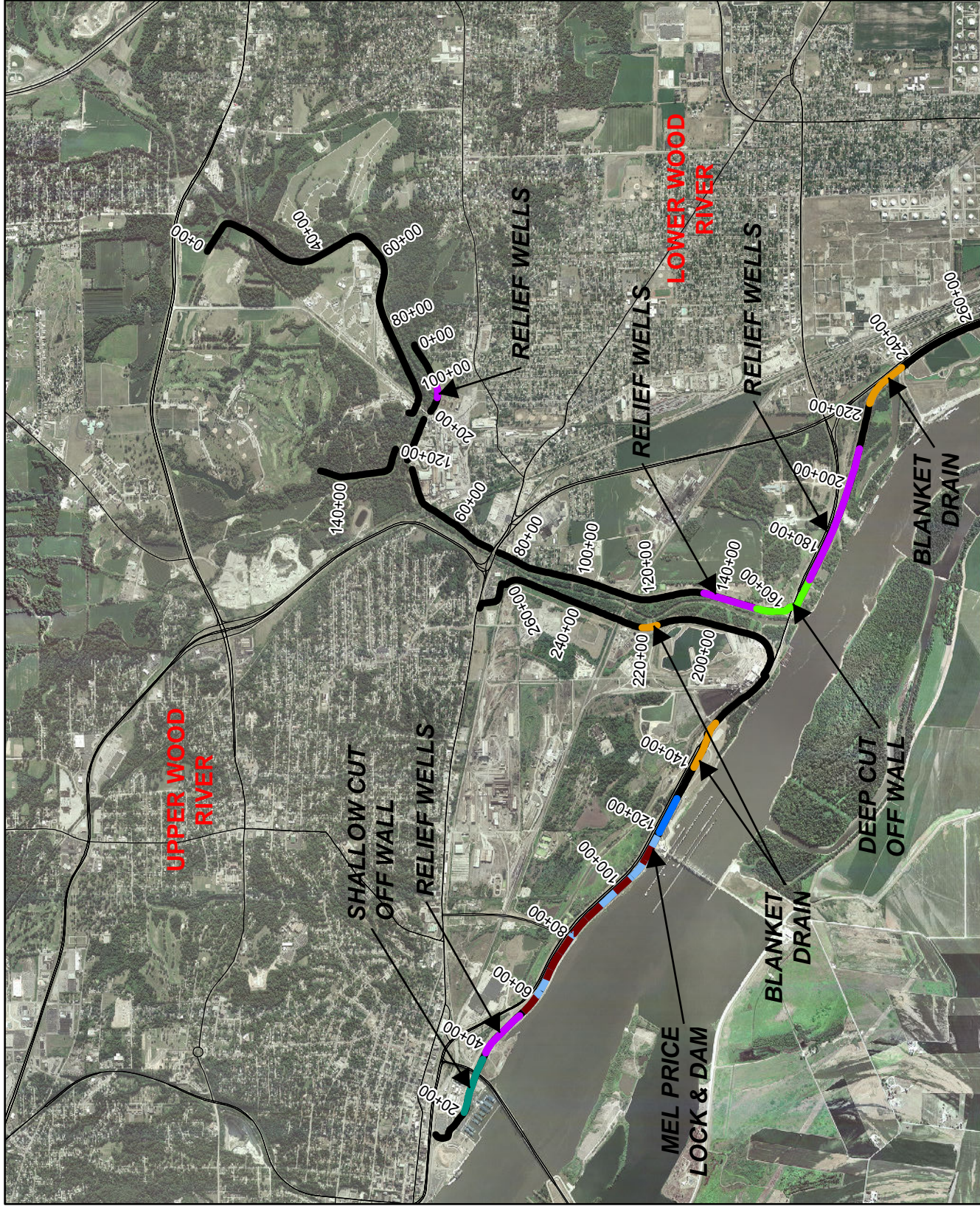
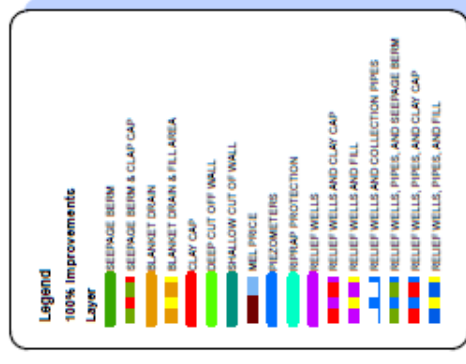
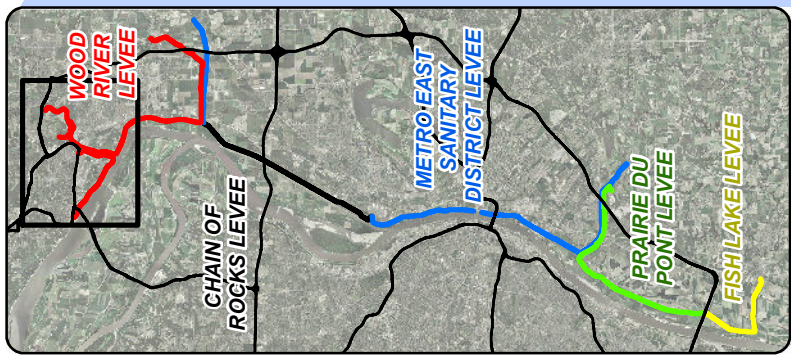
Easements, high river stages, cost saving construction alternatives, and construction delays may have pushed accreditation back, but the Council will meet its interim goal of achieving FEMA certification with the revenue available from the dedicated FPD sales tax. In addition, with the added 2015 bond issue revenue, the Council is working on the ultimate goal of providing Authorized Level of Protection to the Metro-East. If the Corps of Engineers can obtain federal funding in FY 2018 and future years, the Authorized Level of Protection could be achieved twenty years sooner than original thought.

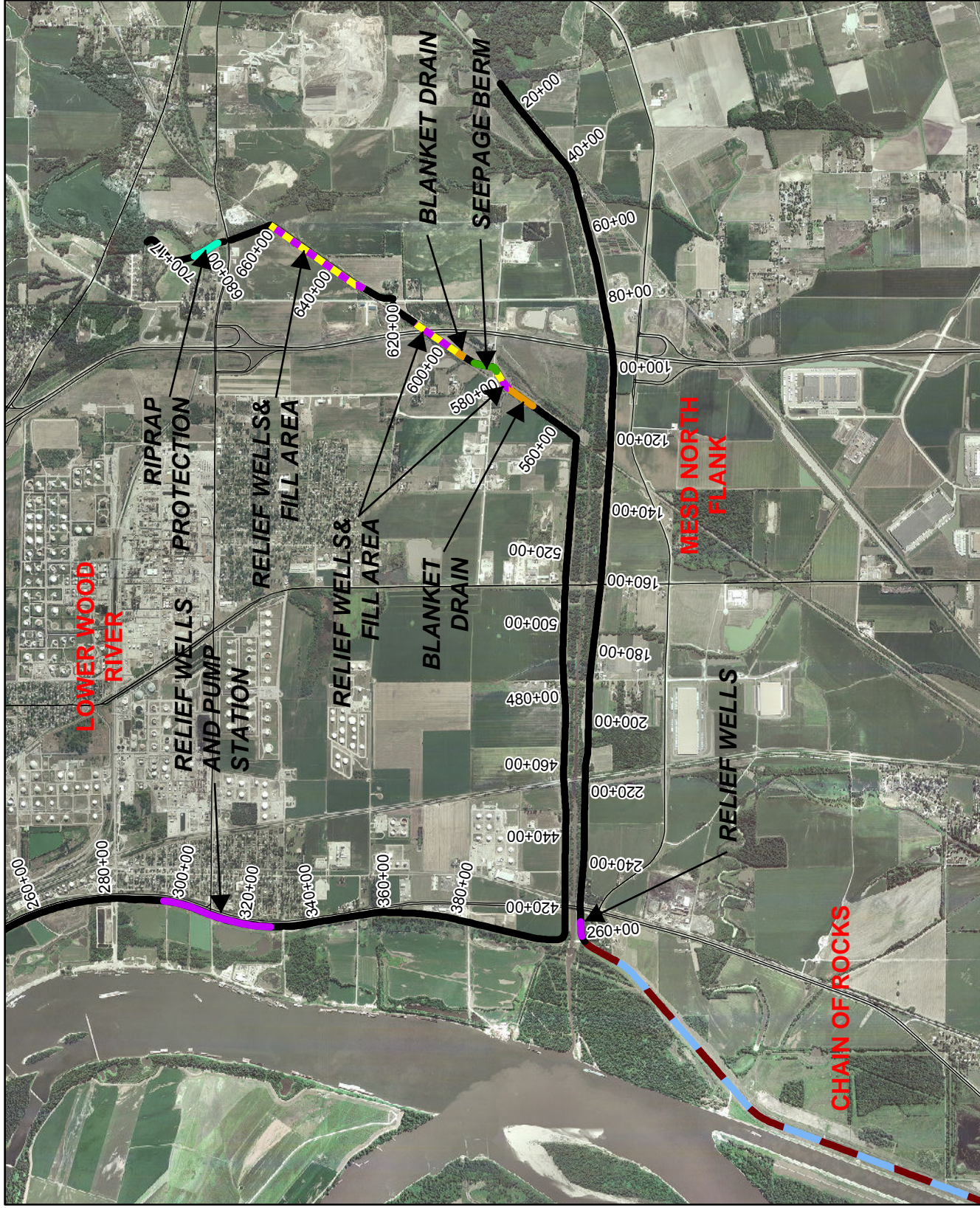
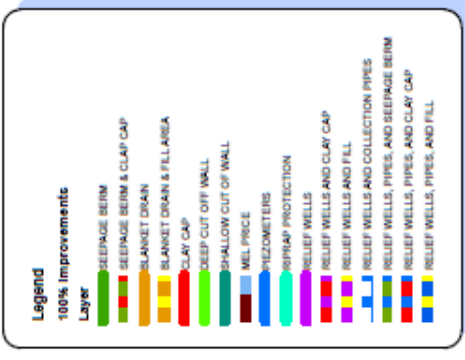
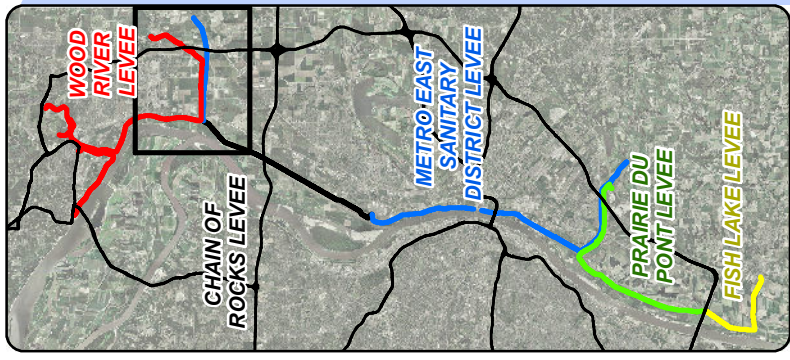


## **Appendix I**

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





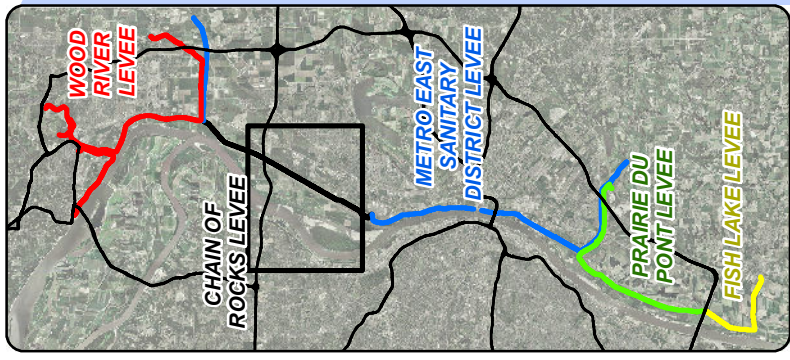
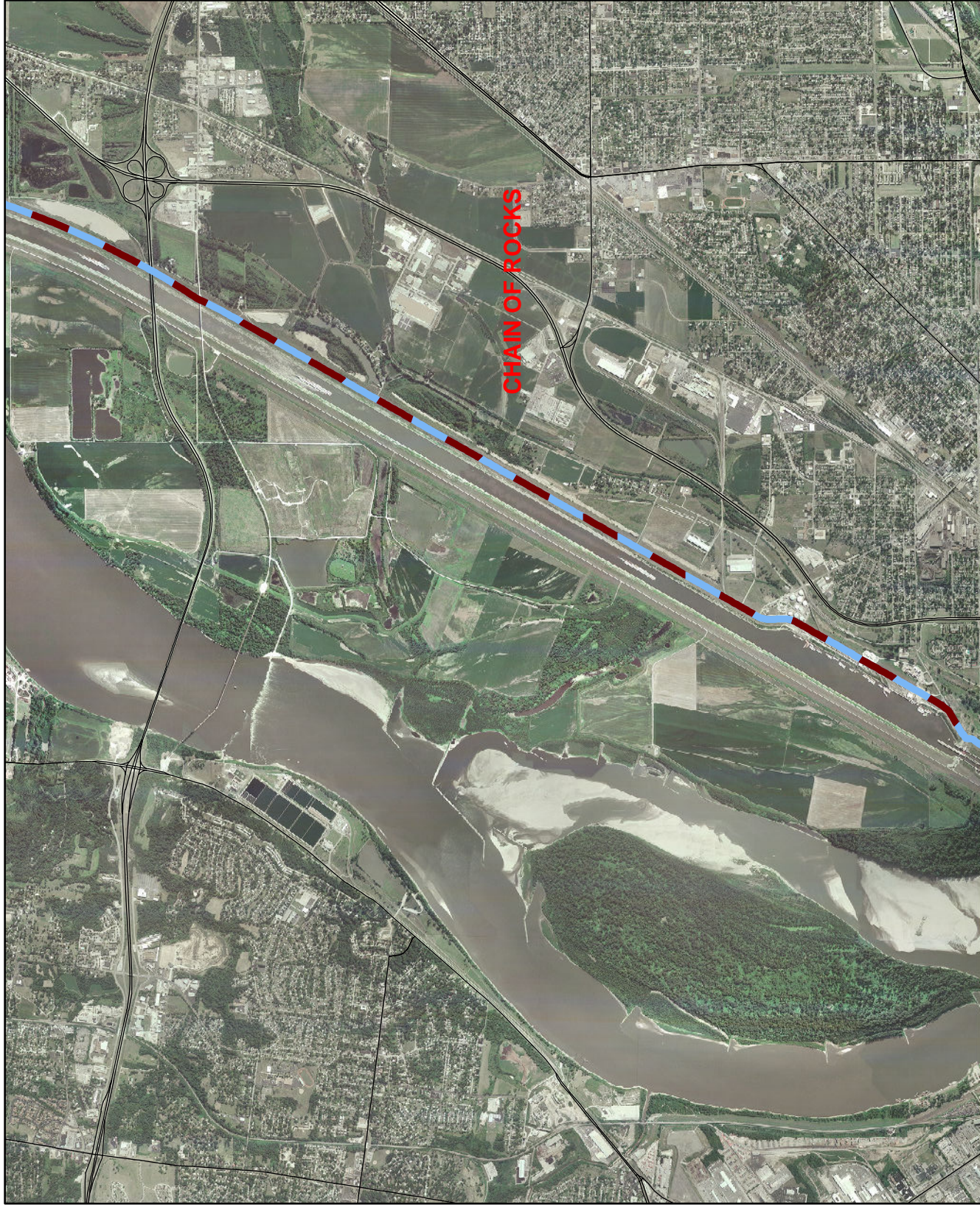


15933 CLAYTON ROAD, SUITE 215  
BALLWIN, MO 63011



FEMA CERTIFICATION DESIGN - 100% SOLUTIONS

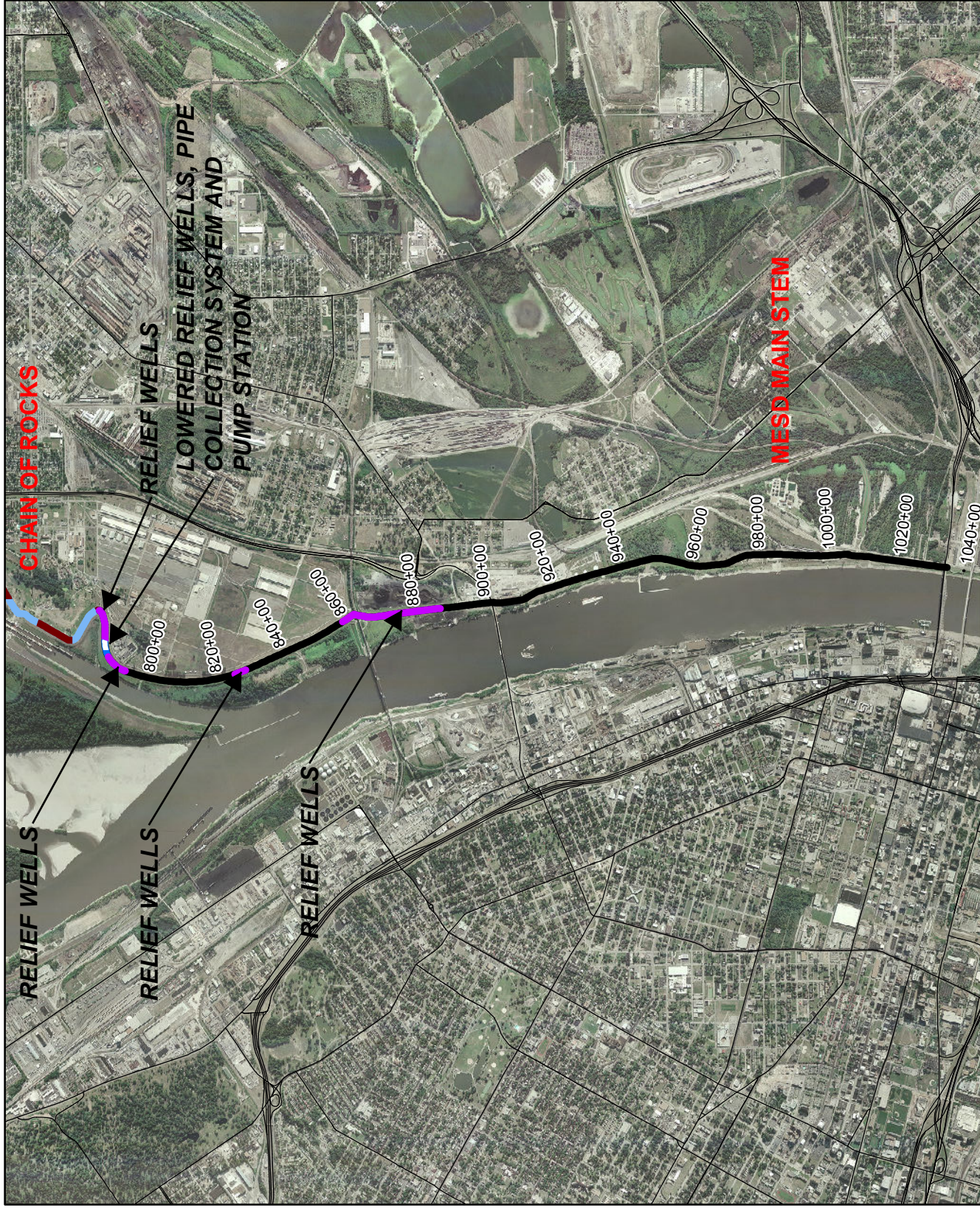
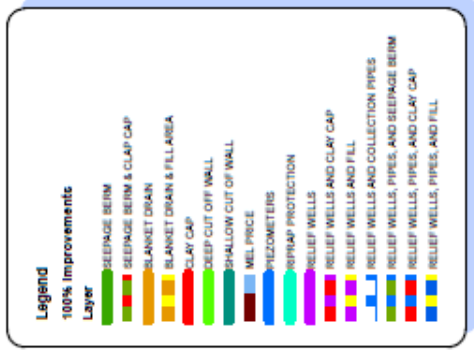
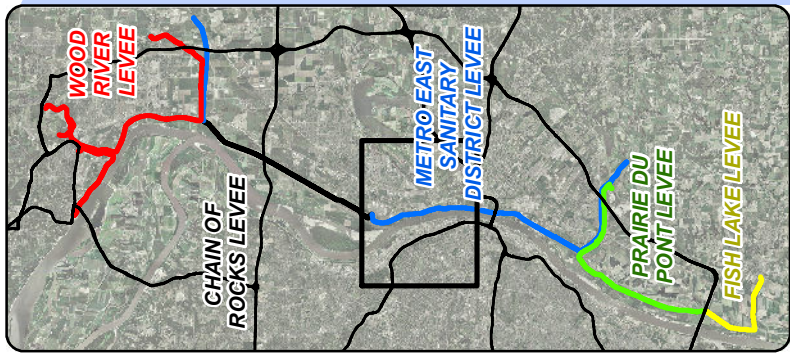
WOOD RIVER (WR) & METRO EAST SANITARY DISTRICT (MESSD) LEVEES



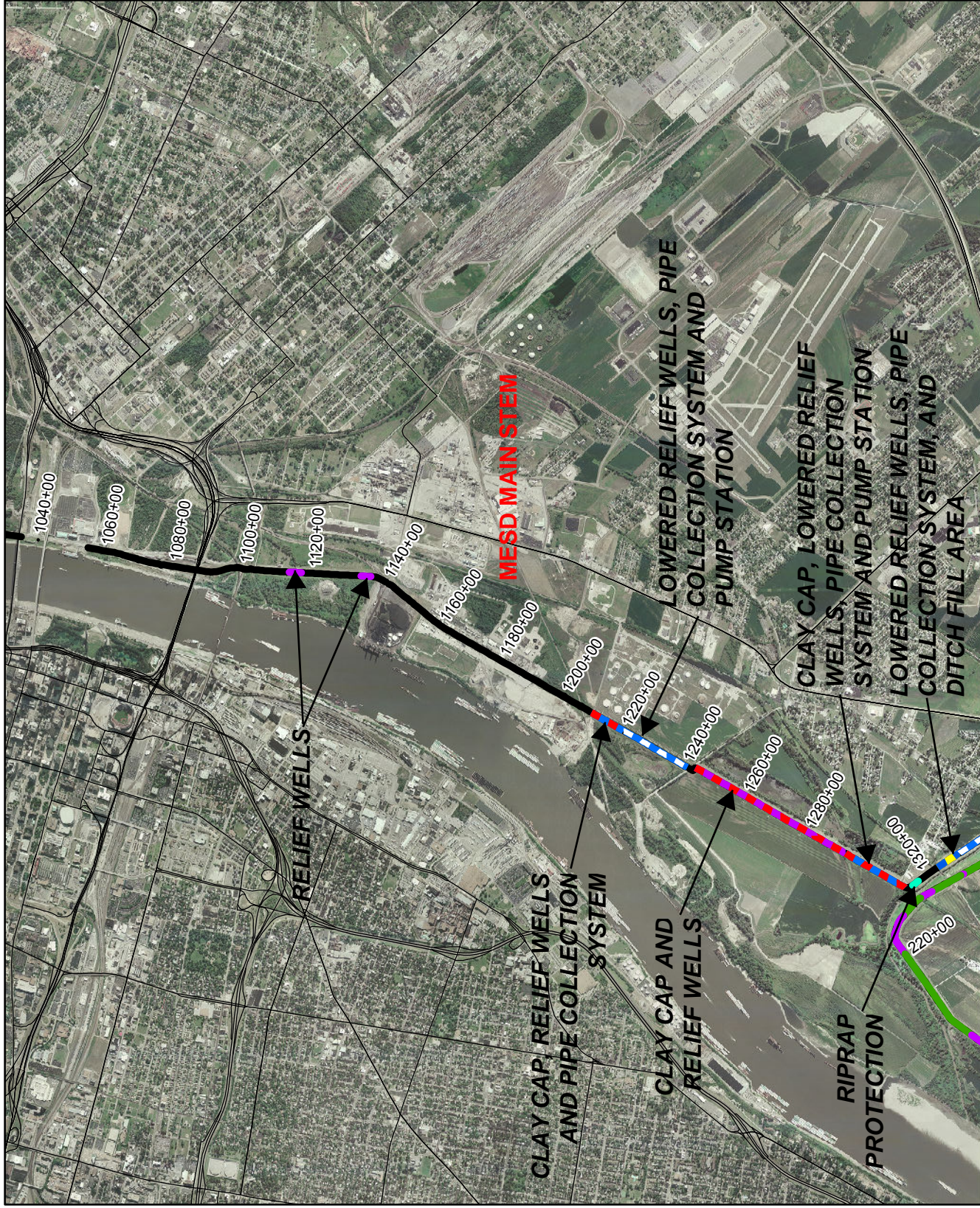
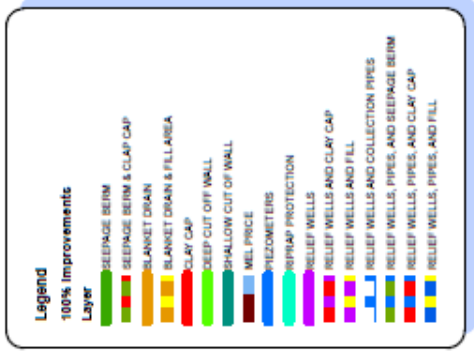
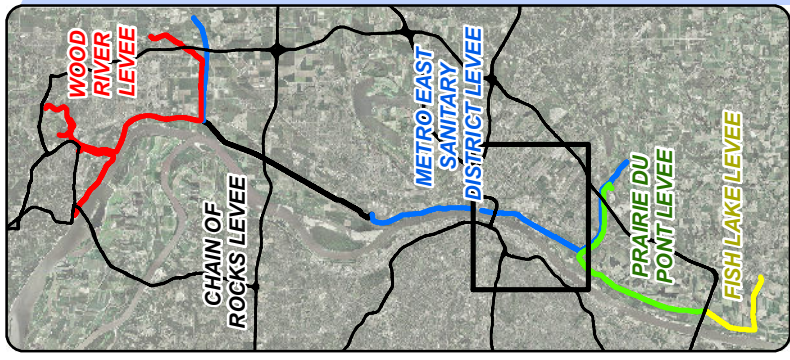
**Legend**

**100% Improvements**

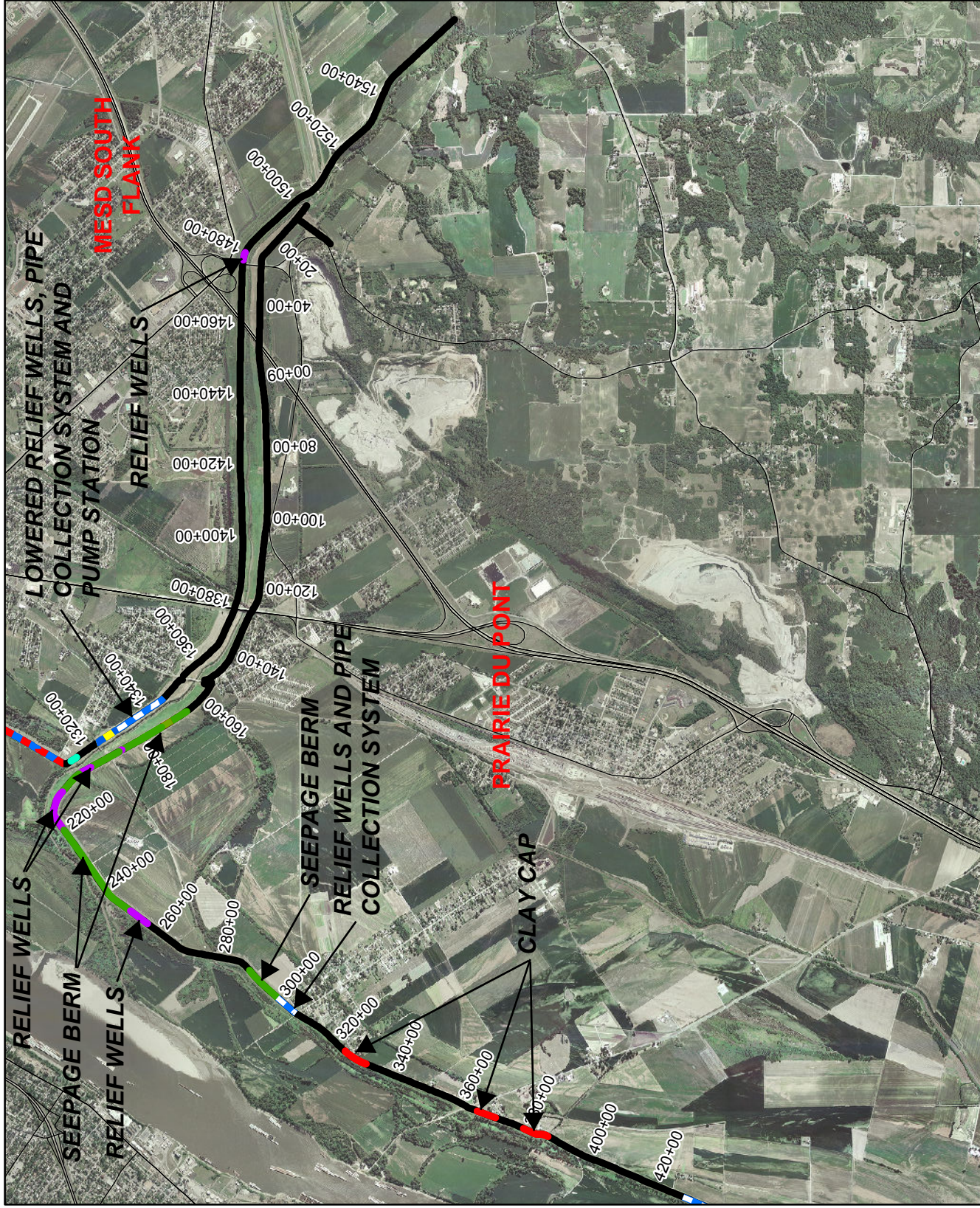
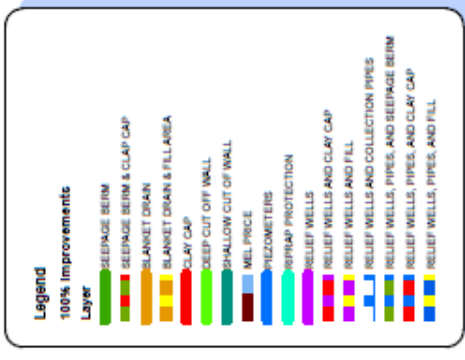
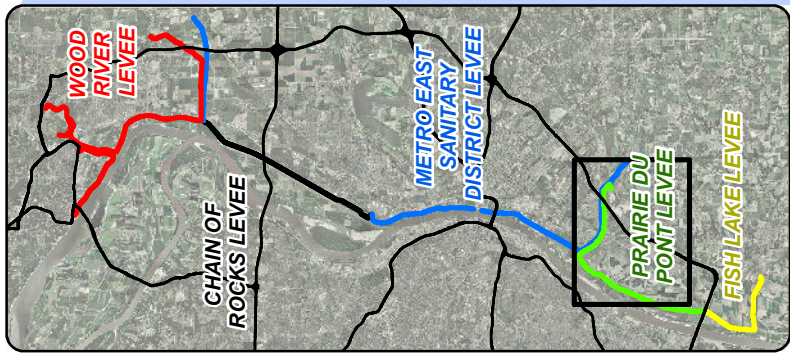
Layer	Improvement Type
Green	SEEPAGE BEHM & CLAY CAP
Yellow	SEEPAGE BEHM
Orange	BLANKET DRAIN
Red	BLANKET DRAIN & FILL AREA
Light Blue	CLAY CAP
Dark Blue	DEEP CUT OFF WALL
Light Green	SHALLOW CUT OFF WALL
Dark Green	WEL PRICE
Light Purple	PIEZOMETERS
Light Cyan	SEEPAGE PROTECTION
Light Yellow	RELIEF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





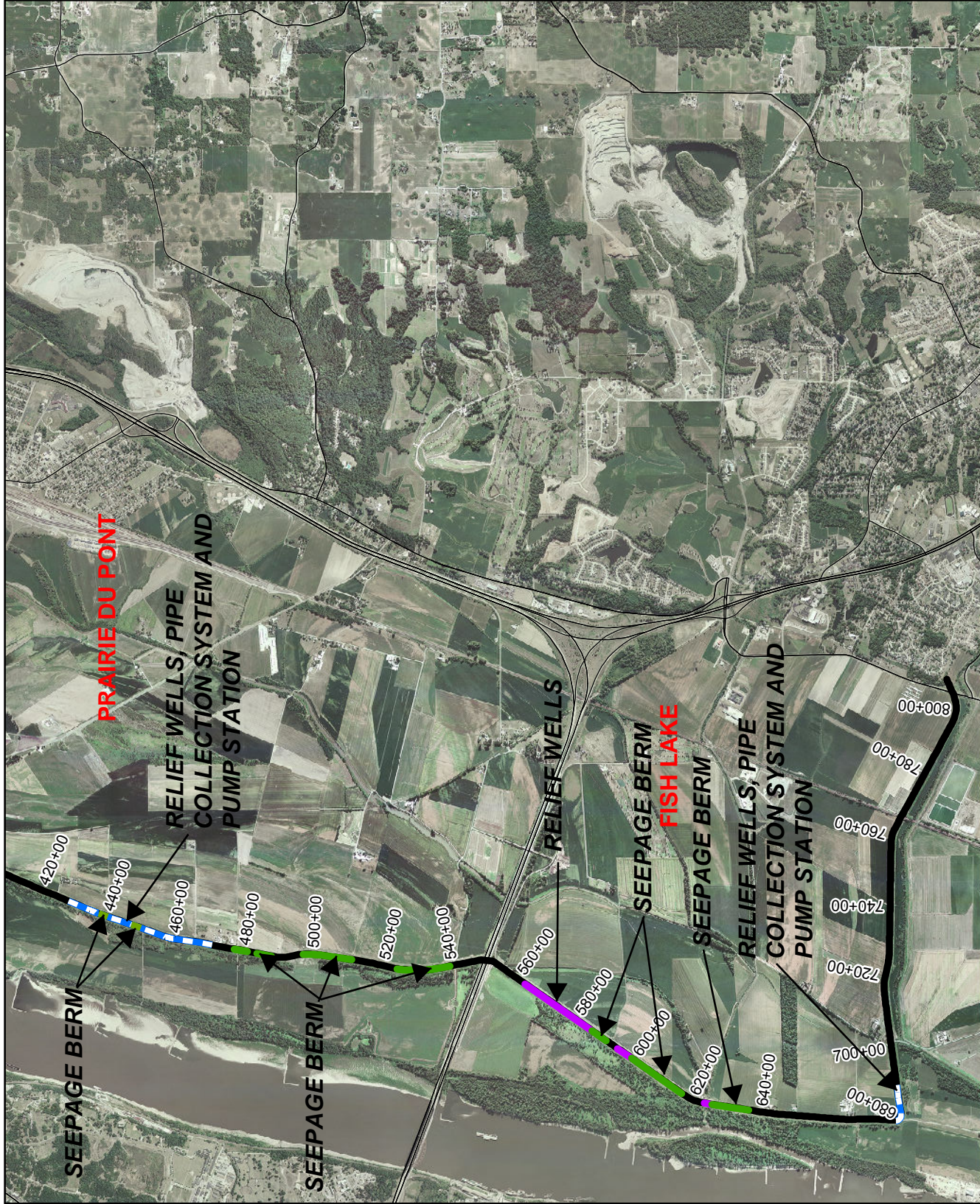
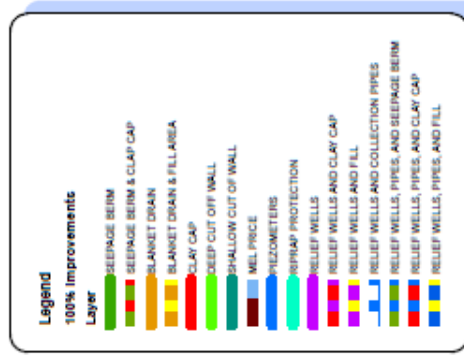
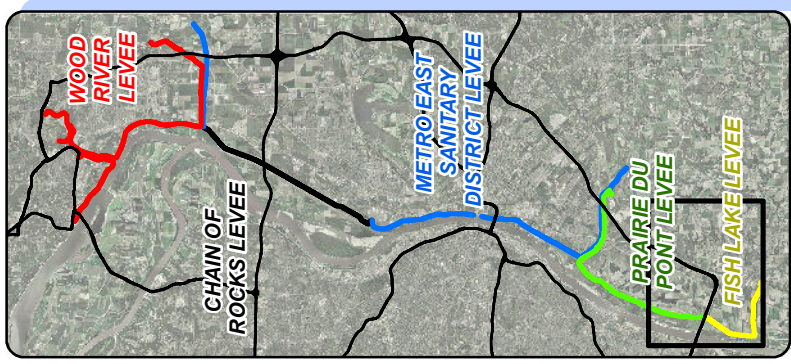


FEMA CERTIFICATION DESIGN - 100% SOLUTIONS  
 METRO EAST SANITARY DISTRICT (MESD) LEVEE



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

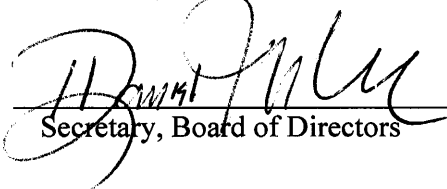
4. *Levee Districts Participation.* Seek the financial participation of each Levee District to generate additional funds to supplement FPD funding and enable additional construction; and

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**

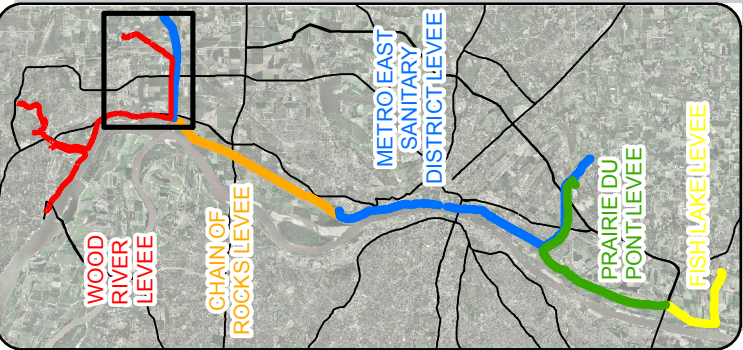
### **Proposed 500-Year Authorized Level Levee System Improvements**

#### **Wood River Levee System**

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

#### **Prairie Du Pont/Fish Lake Levee System**





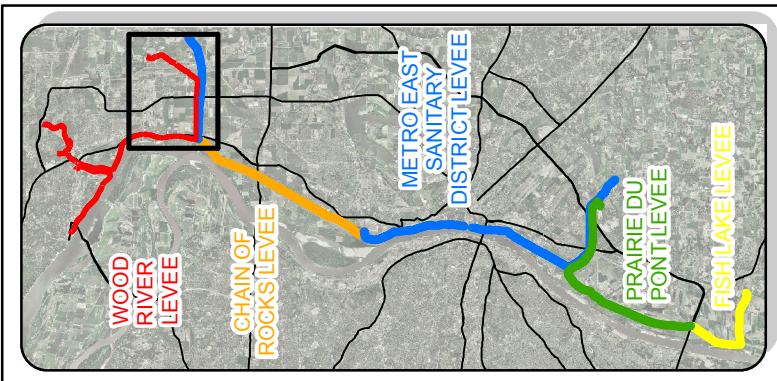
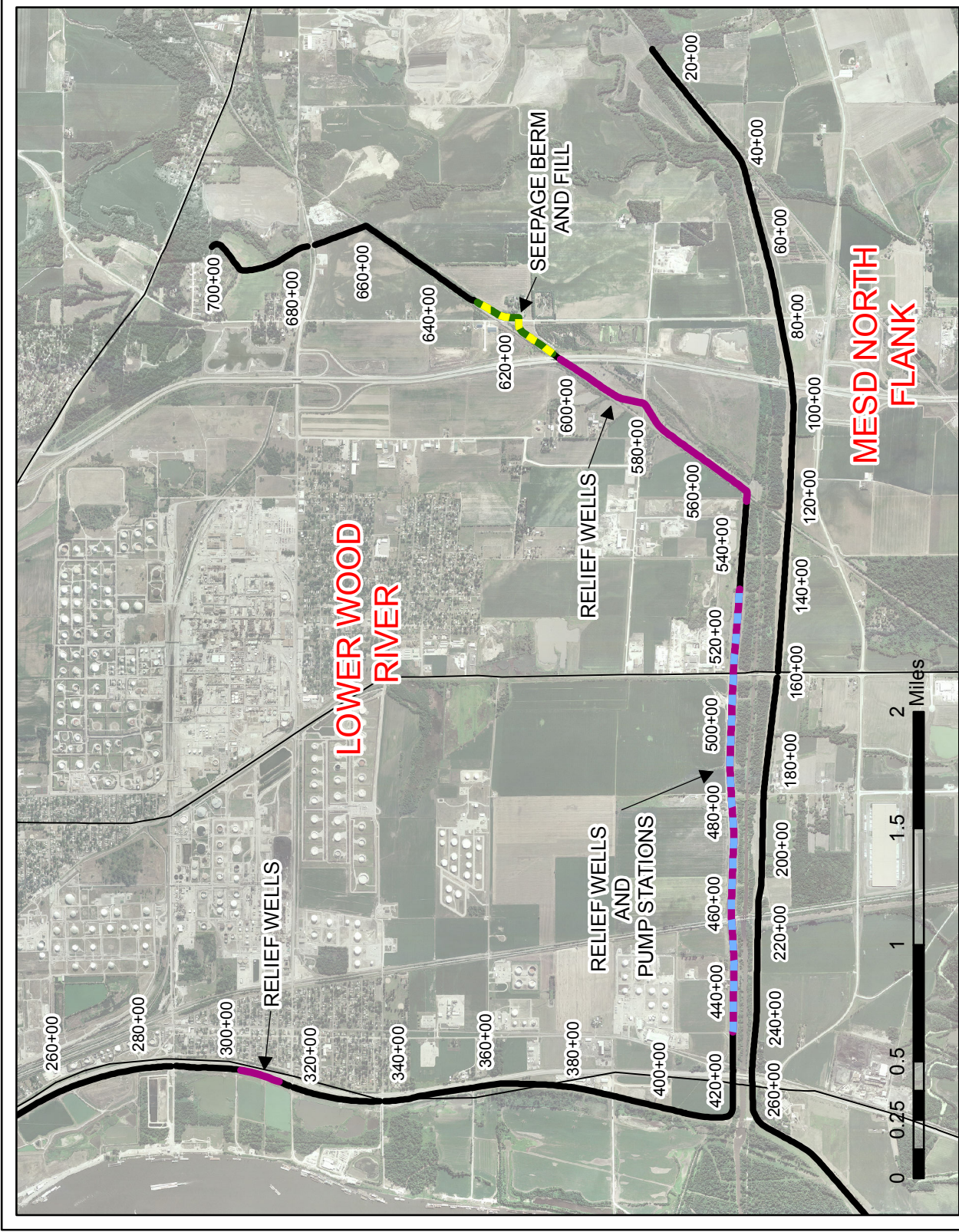
**Legend**

Layer

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



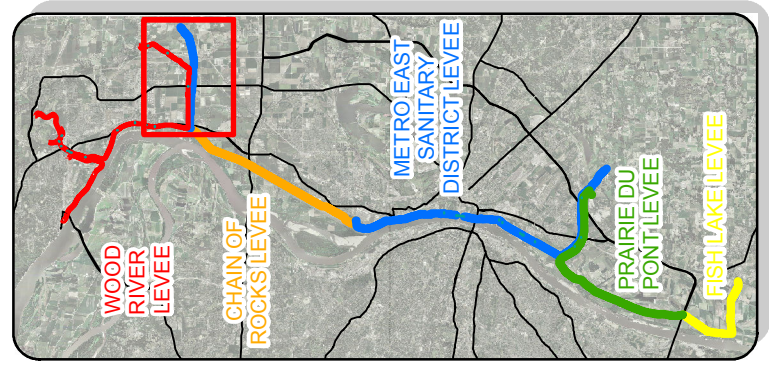
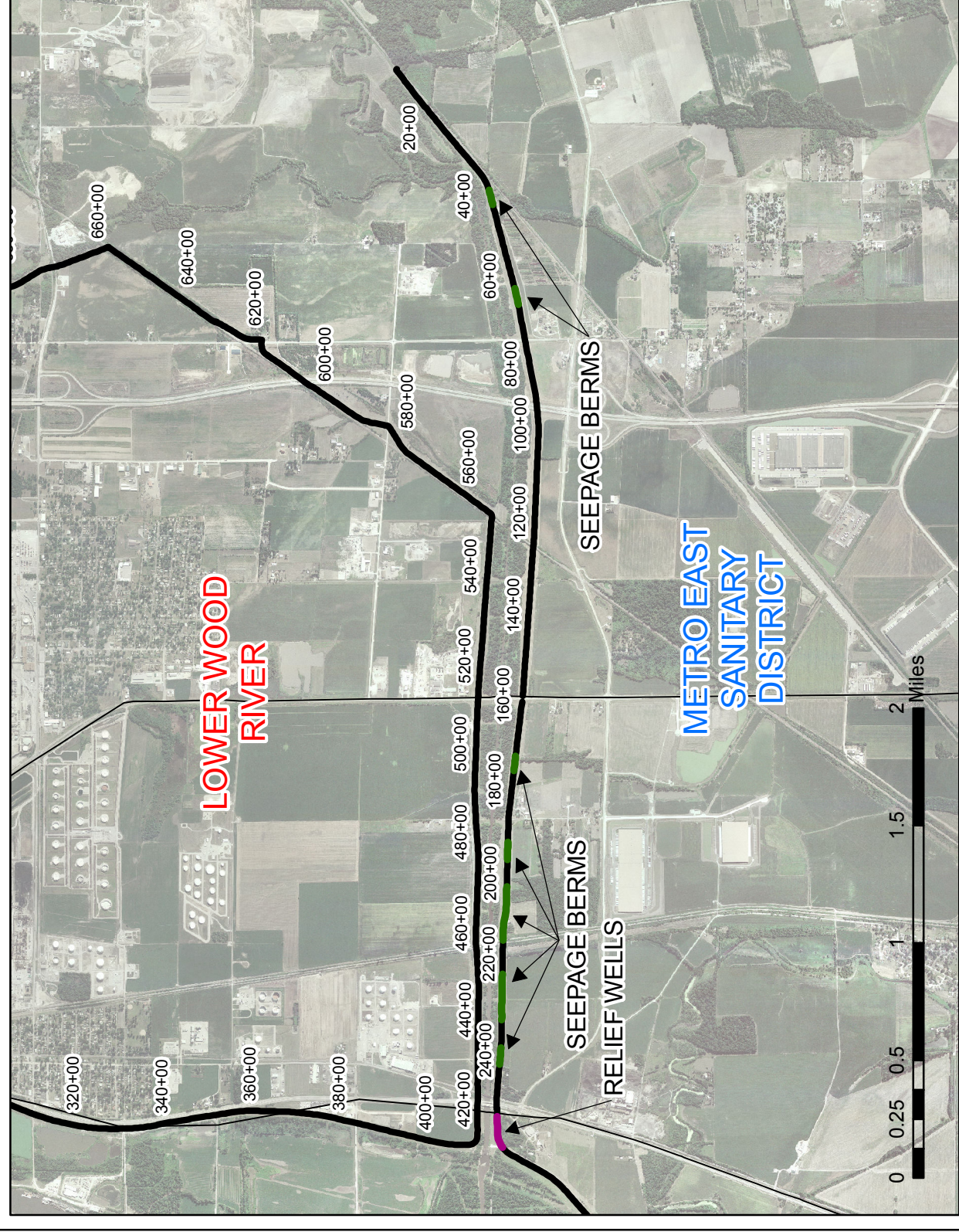
# AUTHORIZED LEVEL DESIGN WOOD RIVER LEVEE



# AUTHORIZED LEVEL DESIGN

## METRO EAST SANITARY DISTRICT LEVEE

8/11/16



**Legend**

**Layer**

- █ RELIEF WELLS
- █ SEEPAGE BERM
- █ LEVEE CENTERLINE



# AUTHORIZED LEVEL DESIGN

## METRO EAST SANITARY DISTRICT LEVEE

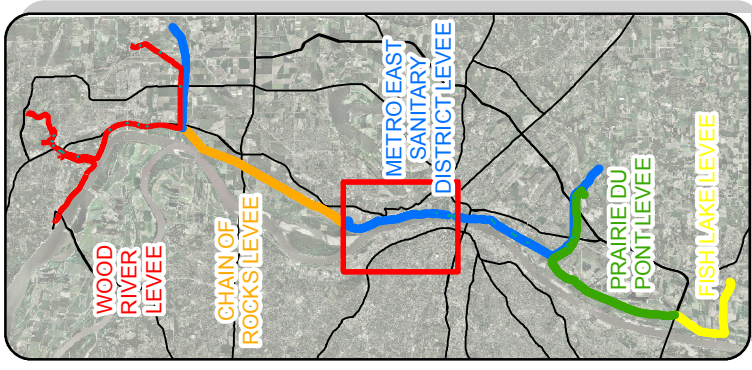
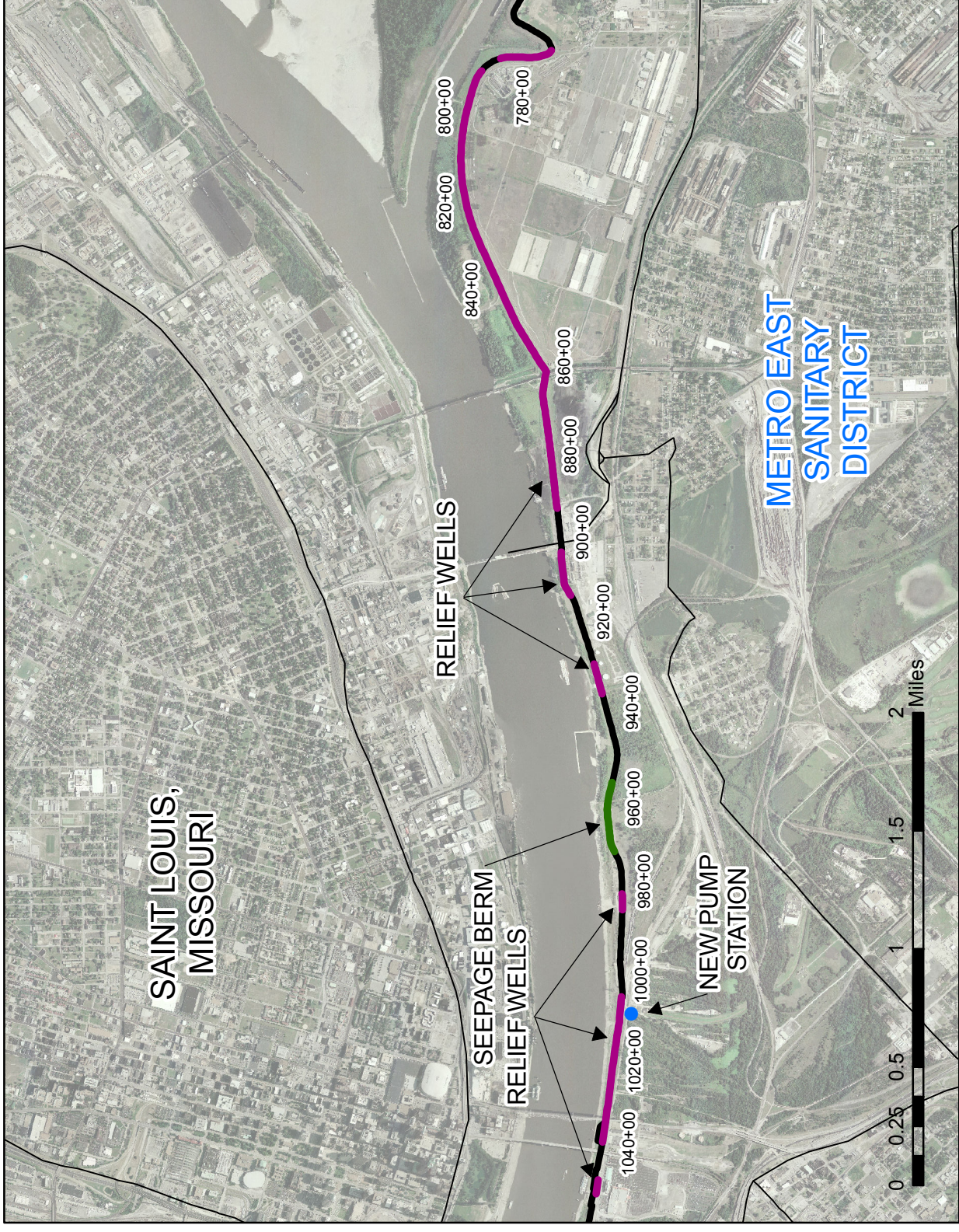
8/11/16

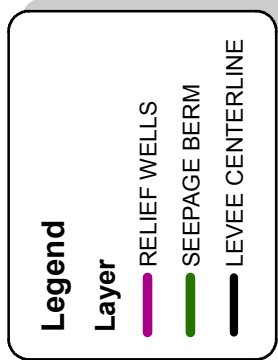
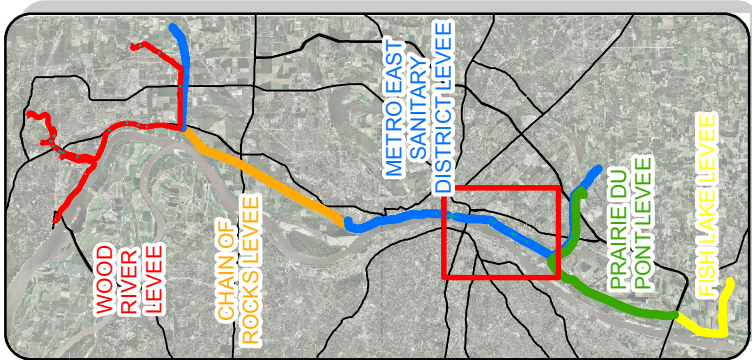
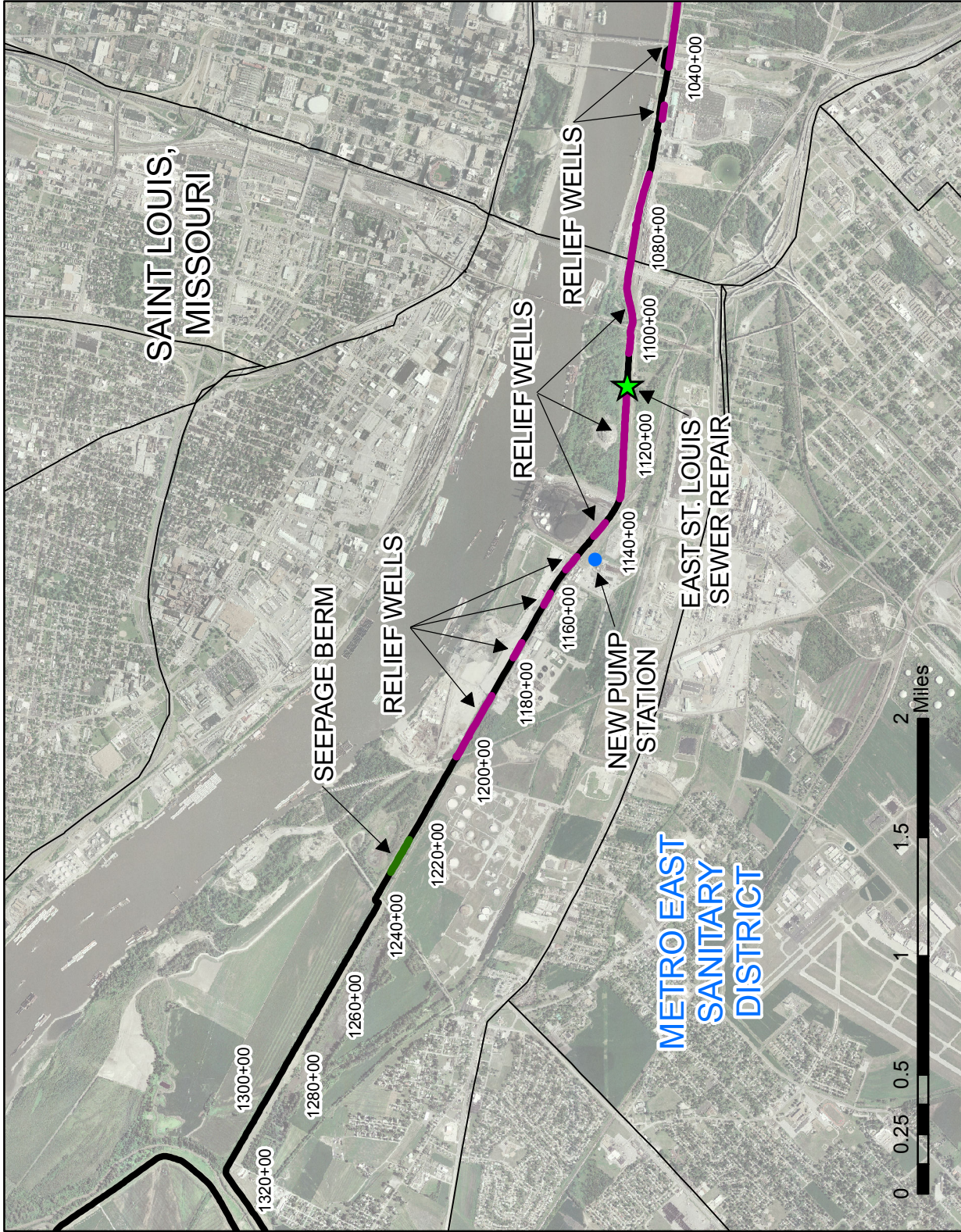


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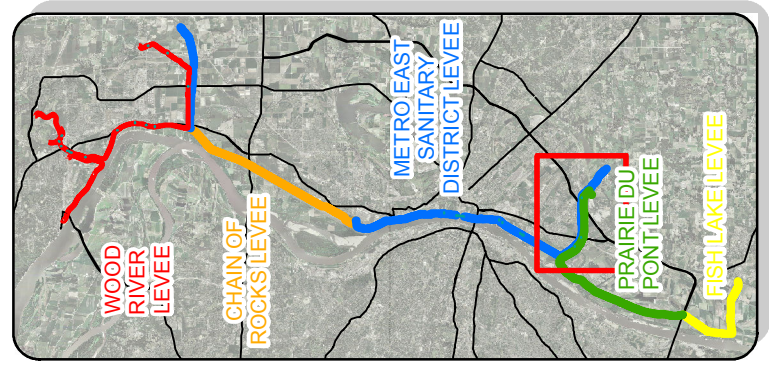
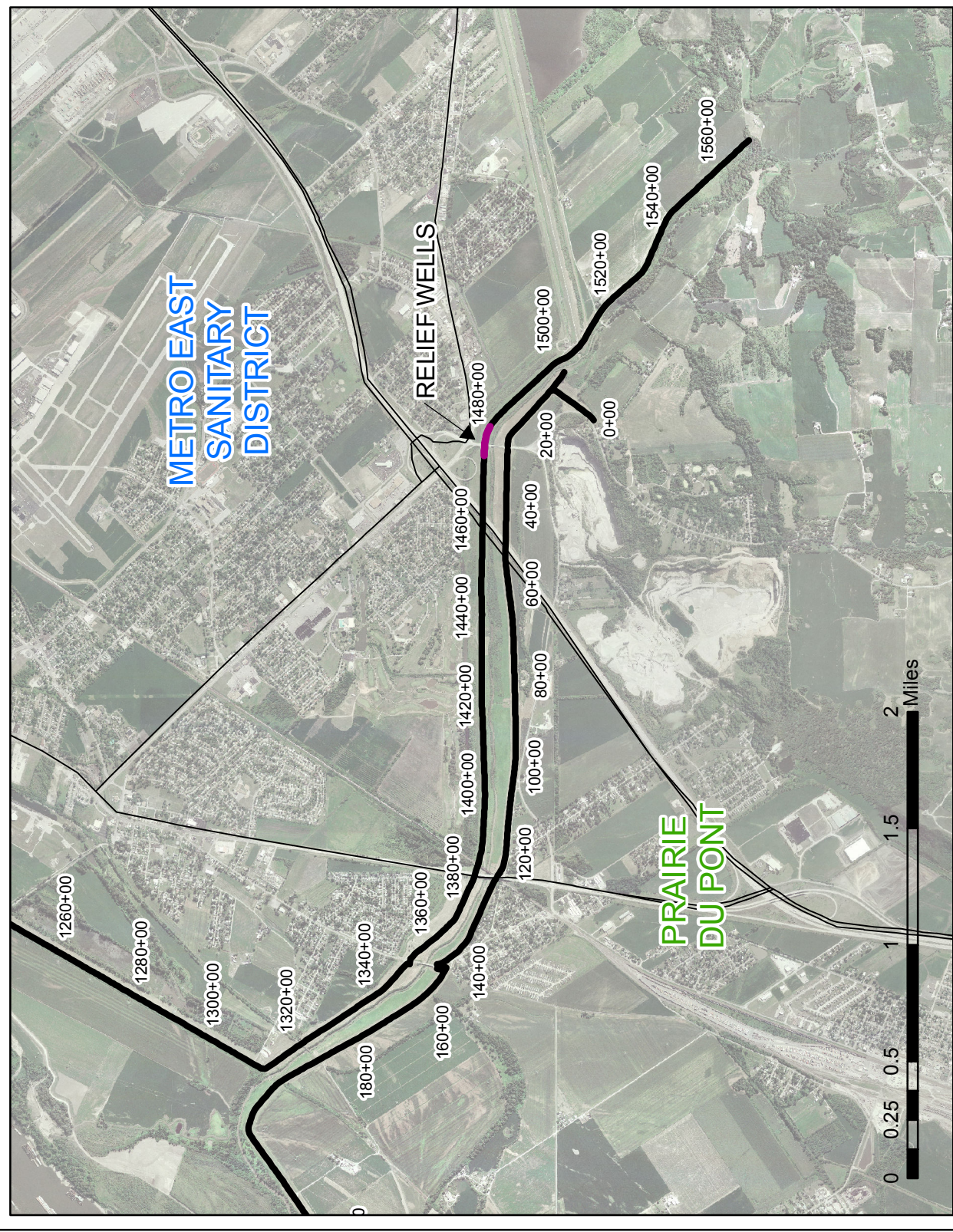
- █ RELIEF WELLS
- █ SEEPAGE BERM
- █ LEVEE CENTERLINE





# AUTHORIZED LEVEL DESIGN

## METRO EAST SANITARY DISTRICT LEVEE



**Legend**

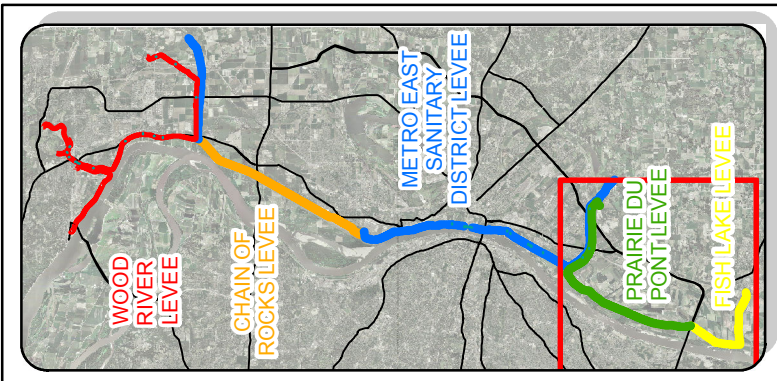
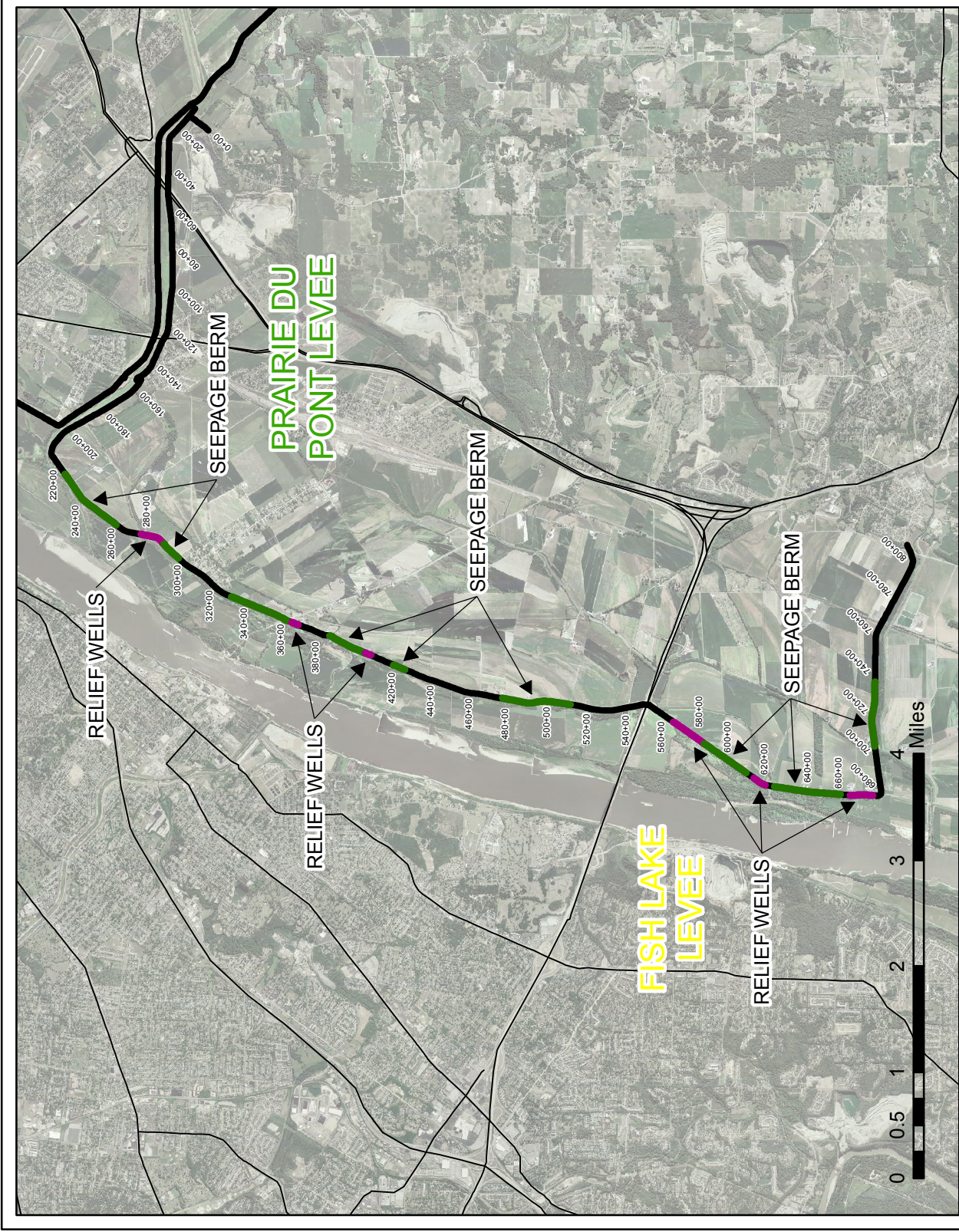
**Layer**

- █ RELIEF WELLS
- █ SEEPAGE BERM
- █ LEVEE CENTERLINE





# AUTHORIZED LEVEL DESIGN PHASE I PRAIRIE DU PONT/FISH LAKE LEVEE



**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: Approval of Agreement with Ameren Illinois for BP #5A  
Date: August 15, 2016

As part of the repair to the 126-Inch East St. Louis Sewer, construction Bid Package 5A, Ameren Illinois needs to raise their power line behind the East St. Louis pump station to facilitate a road relocation that is necessary. This work includes installing new poles, a new transformer at the East St. Louis pump station, and raising the existing conductor wires so truck traffic can pass underneath.

Ameren Illinois has submitted the attached invoice to perform the necessary work.

Recommendation: Authorize the Chief Supervisor to enter into an agreement with Ameren Illinois for the installation of two new poles and the redo of hardware on the existing poles for the proper clearance for a road relocation at a cost not to exceed \$52,689.94.



Please Return This Portion With Your Payment.

<b>AMOUNT DUE</b>	<b>DUE DATE</b>
\$52,689.94	Aug 17, 2016
	<b>ACCOUNT NUMBER</b>
	46430-83003

SWIFPDC  
104 UNITED DRIVE  
ATTN CHURCK ETWART  
COLLINSVILLE, IL 62234

Ameren Illinois  
P.O. Box 88034  
Chicago, IL 60680-1034

40600000 0046430830003 00000000 000052689940 000052689940

Keep This Portion For Your Records

<b>ACCOUNT NUMBER</b>	46430-83003
<b>DOJM NUMBER</b>	31ES057395
<b>CUSTOMER PO #</b>	

	<b>BILL DATE</b>	Aug 3, 2016
<b>TOTAL AMOUNT DUE BY</b>	Aug 17, 2016	\$52,689.94

<b>LOCATION</b>	2003 MISSISSIPPI AVE ROAD PR EAST SAINT LOUIS, IL
-----------------	--

**CONSTRUCTION BILLING**  
CHARGE DATE: 08/02/2016

QUANTITY	DESCRIPTION	COST/ UNIT	AMOUNT
	Reloc Primary Serv		\$52689.94
	CHARGE FOR PRIMARY RELOCATE FOR ROAD ADDITION. INSTALL 2 NEW POLES AND REDO HARDWARE ON EXISTING POLES FOR PROPER CLEARANCE. WR#31ES057395		

Current Amount Due	\$52,689.94
Prior Amount Due	\$0.00
Total Amount Due	\$52,689.94

**Speedpay** gives you the added convenience and flexibility of paying your bills by phone or electronically seven days a week, 24 hours a day. Speedpay payments show as "pending payments" on the same day the transaction is processed, and they are credited to your utility account within 48 hours. To use Speedpay, call 1.888.777.3108. A convenience fee applies.



Memo to: Board of Directors

From: Chuck Etwert

Subject: Change Orders BP #2C, BP #3, BP #4, & BP #5

Date: August 15, 2016

Per the Board's Construction Change Order Policy, any change order which causes a line item to increase by more than ten percent must be approved by the Board. Board approval is also required on all change orders if the total of all change orders on a project exceed ten percent of a project's original cost.

We have change orders on Bid Packages #2C, #3, #4, and #5, which Amec Foster Wheeler will be explaining at the meeting.

**Bid Package 2C – Random Fill Material Overage - \$26,670.00**

During construction of fill over the levee, MESD requested additional fill be placed in order to facilitate safer mowing around the recently installed force main pipes that cross over the levee. Additional fill was added at the unit price initially bid by the contractor. The additional fill totaled 889 cubic yards (CY). The original bid price was \$30/CY. A change order in the amount of \$26,670.00 is recommended.

**Bid Package 03 – Credit Relief Well Quantity Adjustments – (\$138,005.38)**

During construction, several of the relief wells were shortened as a result of field conditions. This resulted in a credit for relief well construction. Additionally, permit fees that were required by the county Health Department are included in this change order. A credit change order in the amount of \$138,005.38 is recommended.

**Bid Package 04 – Clay Cap Bridge \$108,620.00**

During construction the contractor was required to determine the depths of several pipelines that cross over a short span of the levee system in order to ensure that placement of clay material will not damage the lines. After investigation, some lines were found to be very shallow, some with approximately 1 foot of cover overtop the pipelines. As a result, the contractor will be required to perform hand compaction over this section of the clay cap, so as not to damage the pipelines. Additionally, the contractor has costs associated with re-opening the clay borrow pit as a result of the

delay caused by the pipeline locations and coordination with the Corps of Engineers and the utility companies. This change order covers the cost to perform this hand compaction work and re-open the borrow pit. A change order in the amount of \$108,620.00 is recommended.

**Bid Package 05 – Credit Relief Well Quantity Adjustments - (\$207,274.33)**

During construction, several of the relief wells were shortened as a result of field conditions. This resulted in a credit for relief well construction. A credit change order in the amount of \$207,274.33 is recommended.

Recommendation:

Authorize the Chief Supervisor to approve the requested change orders:

For BP #2C with Haier Plumbing:

Bid Package 2C – Random Fill Material Overage - \$26,670.00;

For BP #3 with Keller Construction:

Bid Package #3 – Credit Relief Well Quantity Adjustments – (\$138,005.38); for

For BP #4 with Haier Plumbing:

Bid Package 04 – Clay Cap Bridge \$108,620.00;

For BP #5 with Keller Construction:

Bid Package 05 – Credit Relief Well Quantity Adjustments (\$207,274.33);

for a total credit of **(\$209,989.71)**.

Per the Board's request of being informed of potential upcoming change orders that may be presented; the following list summarizes change orders that are being negotiated, being finalized, awaiting additional information from the contractor, or awaiting completion of a construction item:

Pending Change Orders:

**Bid Package 03 – Random Fill Material Overage (Cost unknown)**

A change order will be required to rectify the material quantity placed for random fill in bid package 3 – this will be a credit or an overage, depending on the final, as-built survey. This material is paid for per cubic yard placed. Estimated to be presented at the September or October 2016 board meeting.

**Bid Package 05 – Casing Pipe Support Deletion (\$534.00)**

The casing pipe support shown in detail 2 of Sheet CB-C542 (BP05) or CC-C542 (BP04 & 06) is not required and poses an obstruction for maintenance of the manhole. The support bracing will not allow for anyone to climb down the manhole to perform maintenance or inspections. The relief well casing pipe is cast into the relief well base slab and is supported by the manhole wash as well, giving the pipe adequate support. This credit may increase slightly; we've asked the contractor to also provide a credit for scrap value of already fabricated brackets. Estimated to be presented at the September 2016 board meeting.

**Bid Package 05 – Hybrid Clay Cap Topsoil (Cost unknown)**

A Change order may be needed to compensate for any additional topsoil that needs to be hauled in to cover a revised clay cap design. It is assumed that the material that is being excavated from the levee will be suitable for reuse as topsoil, but in the event that it is unsuitable, clean topsoil will need to be imported at a cost to the FPD Council. This is pending completion of the clay cap, and will be towards the end of the project. Estimated to be presented in 2017.

**Bid Package 6 - Seepage Berm Quantity (~\$200,000)**

The contractor has requested payment for approximately an additional \$200,000 in seepage berm material. AMEC Foster Wheeler has denied this request since 2014; however, the contractor continues to raise the issue.







Memo to: Board of Directors

From: Chuck Etwert

Subject: Prairie Du Pont/Fish Lake Authorized Level Project Summary Report Phase I  
Amec Foster Wheeler Environment & Infrastructure

Date: August 15, 2016

As part of the Council's overall plan to design the most critical and cost effective projects to restore the federally authorized level of flood protection, Amec Foster Wheeler has developed a Summary Report of the Authorized Projects in the Prairie Du Pont/Fish Lake Levee System. Phase I.

This report covers the portion of the Levee System, where the Corps of Engineers has completed their re-analysis of the levee. This includes areas where there weren't any 100-Year Level Improvements or where only seepage berms were installed.

The Corps hopes, with reprogrammed funds, to complete the identification of all remaining Prairie Du Pont/Fish Lake Authorized Level Projects by the end of the year.

The Corps of Engineers' low benefit/cost ratio for Authorized Level Projects in the Prairie Du Pont/Fish Lake System is not expected to change in the future, therefore, the projects identified will be funded one hundred percent by the Council.

Similar Summary Reports for the Wood River Levee System and the Metro East Sanitary District Levee System were presented and approved last year.

I have attached the Prairie Du Pont/Fish Lake Authorized Level Project Summary Report Phase I (Preliminary Design Phase) to this memo. Amec Foster Wheeler will discuss their recommendation, the proposed schedule, and the estimated costs at the meeting.

**Recommendation:** Accept Amec Foster Wheeler Environment & Infrastructure's Prairie Du Pont/Fish Lake Authorized Level Project Summary Report Phase I dated August 12, 2016.



# Prairie du Pont/Fish Lake Authorized Level Project Summary Report

Phase I

Prepared for



Prepared by



**August 12, 2016**

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    Authorized Level Project .....1

    Prairie du Pont / Fish Lake Levee System.....1

    USACE Authorized Level Project Decision Segments .....1

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    Development of Bid Packages.....2

    Recommendation .....3

**3. Schedule .....3**

**4. Risk in Moving Forward .....3**

Appendix 1 – Bid Package / Design Reach Exhibits

## 1. General Information / Background

### Authorized Level Project

Following the Southwestern Illinois Flood Prevention District Council's (FPD Council) design and construction of levee improvements that are required for accreditation in accordance with 44 CFR 65.10 criteria (FEMA criteria), the FPD Council desires to advance the implementation of the U.S. Army Corps of Engineers' (USACE) Authorized Level Project. The USACE Authorized Level Project further protects the region from a flood in excess of a 100-year FEMA flood event; specifically, the USACE Authorized Level project protects the many residents and businesses throughout southwestern Illinois against an approximately 500-year flood event (the actual Authorized Level Flood Event is defined as 52 feet on the Mississippi River St. Louis, Missouri gage with 2 feet of freeboard, also called the 52+2 Flood Event).

Amec Foster Wheeler was tasked with reviewing the U.S. Army Corps of Engineers' Authorized Level Project decision segments and evaluating cost effectiveness of the most vulnerable improvements of which the FPD Council could begin engineering and construction.

### Prairie du Pont / Fish Lake Levee System

This report covers only a portion of the Prairie du Pont/Fish Lake (PdP/FL) Levee System, hence it is considered Phase I. The Summary Report for the Metro East Sanitary District Levee was submitted on August 13, 2015, while the Wood River Levee Summary Report was submitted on June 17, 2015. All of the vulnerable reaches along the PdP/FL Levee System are located along the main stem (along the Mississippi River) of the levee, except for two reaches along Carr Creek on the southern flank.

### USACE Authorized Level Project Decision Segments

The USACE St. Louis District has provided Amec Foster Wheeler and the FPD Council a series of three memorandums that document proposed Authorized Level solutions. Each memo discusses specific reaches (decision segments), but it is important to note that USACE has not completed their re-analyses of the PdP/FL system. The three memos provided (dated 3/15/2016, 4/11/2016, and 6/16/2016) only analyze reaches where the FPD Council either constructed seepage berms or did not construct any improvements as part of its FEMA certification design projects. USACE did not analyze reaches in which the FPD Council constructed relief well improvements; the analyses of those reaches will be provided after USACE receives additional funding appropriation to complete the review, at which time Amec Foster Wheeler will prepare Phase II of this report. The FEMA improvements that the FPD Council undertook to the PdP/FL system are complete.

A decision segment is defined as a length of levee, typically 330 feet or some multiple thereof, that USACE isolated as a basis for analysis. Using available subsurface information, each decision segment was evaluated for protection against underseepage, and a decision was made regarding what underseepage improvements, if any, were needed to correct deficiencies of the particular segment. Underseepage improvements generally consist of seepage berms, fill, relief wells, pump stations, and cutoff walls. Decisions about underseepage improvements were based on factors such as constructability, land use, and cost.

The seepage control improvements recommended by USACE are based on reevaluations of the decision segments performed in the spring/summer of 2016, and follow the 2012 USACE Limited Reevaluation Report for PDP/Fish Lake Levee System (LRR). At the time the LRR was completed, none of the FPD Council's FEMA improvements were constructed; therefore, USACE has noted which reaches have had work done by the FPD Council subsequent to the initial underseepage analysis as part of the LRR in 2012.

## 2. Recommended Plan

### Development of Bid Packages

Amec Foster Wheeler has reviewed the USACE decision segments and recommends that one bid package for construction be developed. The quantity of seepage berm material is anticipated to be extremely large; therefore, we anticipate that contractor(s) will need to dredge the Mississippi river to cost-effectively obtain the volume of sand that will be required. With that assumption, the notion of only one single package for the berm work is appropriate so that there are not multiple contractors with multiple barges at any given time. The relief wells could, in theory, be bid as a separate package, but the relief wells are geographically intermixed with the seepage berms meaning there would be multiple contractors working in the similar areas. When multiple contractors work in the same areas there can be additional costs added to both contracts for coordination and routine items such as traffic control and haul routes can become logistically difficult; furthermore, it can be difficult to determine ownership of any restoration that needs performed to roads and other features, which is exacerbated by the fact that PdP/FL system only has a handful of roads to/from the entire levee system. Additionally, recent increases in construction costs throughout St. Louis metro area suggest that the contracting community is flush with construction work; therefore, contractors may be more selective in their bidding and less likely to bid smaller jobs, resulting in a smaller number of bidders per bid package. Likewise, the FPD Council's FEMA projects have demonstrated that the promise of a large construction job often brings out the most competitive bids from general contractors. Finally, the FPD Council has earned a positive reputation throughout the local contracting community, which also helps in obtaining good bids for construction work.

The single bid package has been named Bid Package 15, which is a continuation of the numbering from the FEMA Certification Design and other Authorized Level Construction packages along both the Wood River and MESD levee systems. The resultant bid package is as follows:

- ▶ Bid Package 15 is comprised of 23 USACE decision segments and spans from Levee Station 227+05 to 735+25. This package includes the abandonment of existing creosote impregnated wood stave relief wells, the construction of 16 new seepage berms and approximately 38 relief wells, all of which are tributary to existing pump stations.
  - Decision Segments:
    - Prairie du Pont – Station 227+05 to 250+15 – Seepage Berm
    - Prairie du Pont – Station 253+45 to 263+35 – Seepage Berm
    - Prairie du Pont – Station 276+55 to 279+85 – Relief Wells
    - Prairie du Pont – Station 283+15 to 289+75 – Relief Wells
    - Prairie du Pont – Station 289+75 to 299+65 – Seepage Berm
    - Prairie du Pont – Station 332+65 to 335+95 – Seepage Berm
    - Prairie du Pont – Station 345+85 to 349+15 – Seepage Berm
    - Prairie du Pont – Station 352+45 to 362+35 – Seepage Berm
    - Prairie du Pont – Station 365+65 to 368+95 – Relief Wells
    - Prairie du Pont – Station 385+45 to 405+25 – Seepage Berm
    - Prairie du Pont – Station 405+25 to 408+55 – Relief Wells
    - Prairie du Pont – Station 421+75 to 425+05 – Seepage Berm
    - Prairie du Pont – Station 477+85 to 487+75 – Seepage Berm
    - Prairie du Pont – Station 497+65 to 510+85 – Seepage Berm
    - Fish Lake – Station 567+35 to 584+65 – Relief Wells
    - Fish Lake – Station 584+65 to 590+05 – Seepage Berm
    - Fish Lake – Station 604+10 to 609+85 – Seepage Berm

- Fish Lake – Station 616+45 to 619+75 – Relief Wells
- Fish Lake – Station 626+35 to 639+55 – Seepage Berm
- Fish Lake – Station 652+75 to 659+35 – Seepage Berm
- Fish Lake – Station 665+95 to 672+55 – Relief Wells
- Fish Lake – Station 705+55 to 725+35 – Seepage Berm
- Fish Lake – Station 731+95 to 735+25 – Seepage Berm

Exhibits are included in Appendix 1 depicting the approximate location of each improvement as part of the recommended plan.

### Recommendation

It is recommended that the FPD Council proceed with the following work:

#### Geotechnical Analyses of:

- All relief wells required for the decision segments in this report
- All seepage berms required for the decision segments in this report

#### Subsurface investigations of:

- All relief wells required for the decision segments in this report
- All seepage berms required for the decision segments in this report

#### Design, Permitting, and Bid Phase Services of:

- All relief wells required for the decision segments in this report
- All seepage berms required for the decision segments in this report

### 3. Schedule

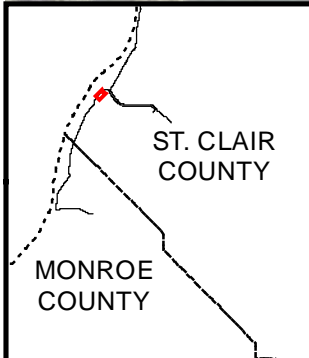
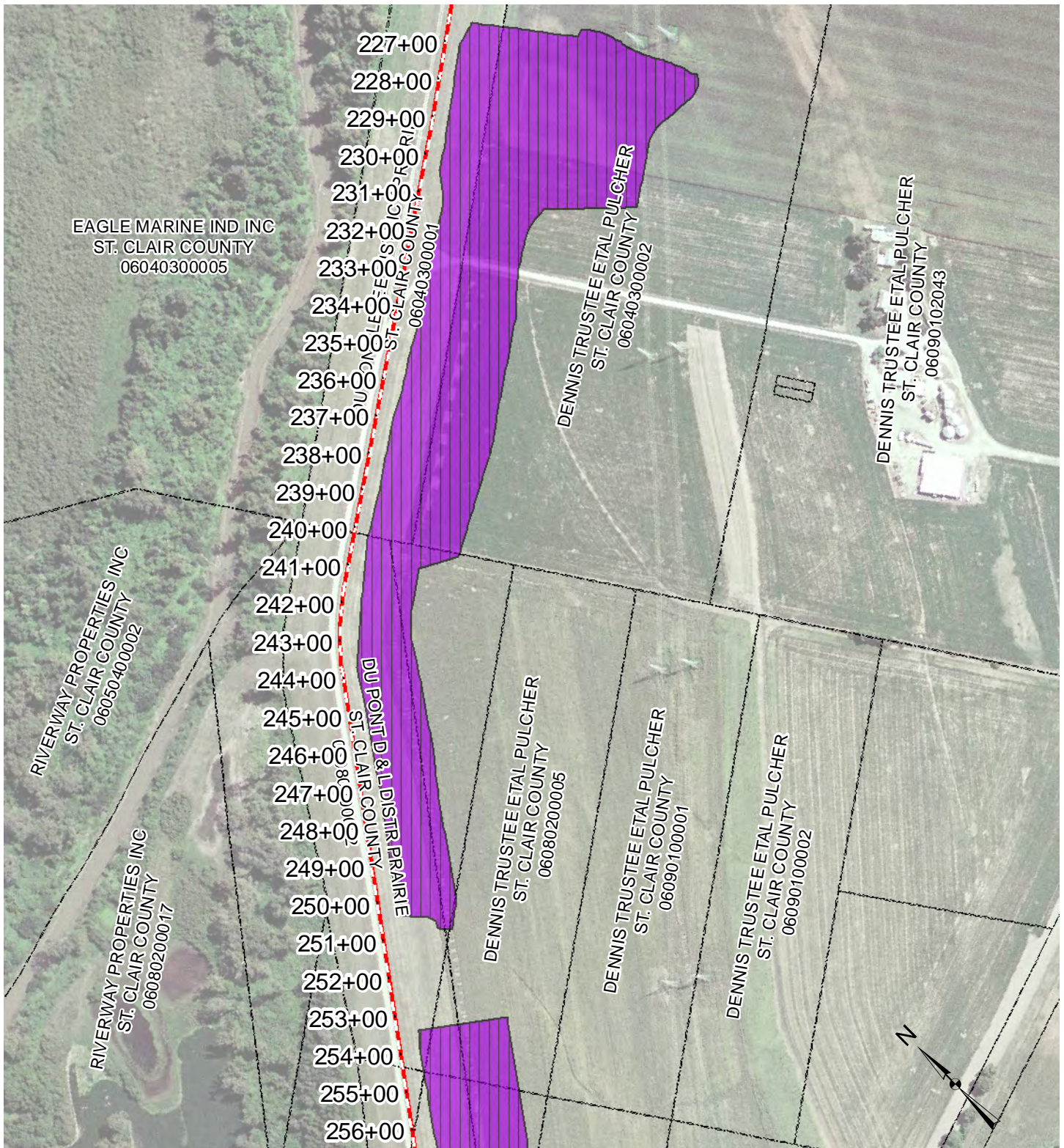
Upon Board approval of this Plan, Amec Foster Wheeler will develop a scope, schedule, and budget cost for the completion of field activities and design for the Bid Package referenced herein and commence work on a boring plan for subsurface investigations throughout PdP/FL, as USACE approval is estimated to be at least 45-60 days once the plan is submitted. If approved, the scope, schedule, and budget cost for geotechnical analyses, field work (including drilling), engineering, permitting, and bid phase services, will be presented at the September or October 2016 FPD Council board meeting.

### 4. Risk in Moving Forward

Contrary to the Authorized Level plans in both the Wood River and MESD levee systems, the Authorized Level improvements in the PdP/FL system are unique to the FPD Council since there is no future federal project for the PdP/FL system at this time; therefore, any Authorized Level improvements made to the PdP/FL system will be designed and constructed by the FPD Council. The risk in moving forward with this phase of the PdP/FL Authorized Level Plan is minimal, as the FPD Council is not necessarily bound by USACE solutions or USACE schedules. However, the PdP/FL project is not fully permitted, meaning the FPD Council has the additional step of obtaining the necessary regulatory approvals for the Authorized Level improvements in PdP/FL.

## Appendix 1 – Bid Package / Design Reach Exhibits





**USACE Authorized Level of  
Protection Planning and Analysis**

**BID PACKAGE 15**

**PDP LEVEE SYSTEM**

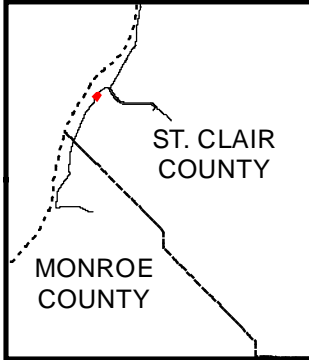
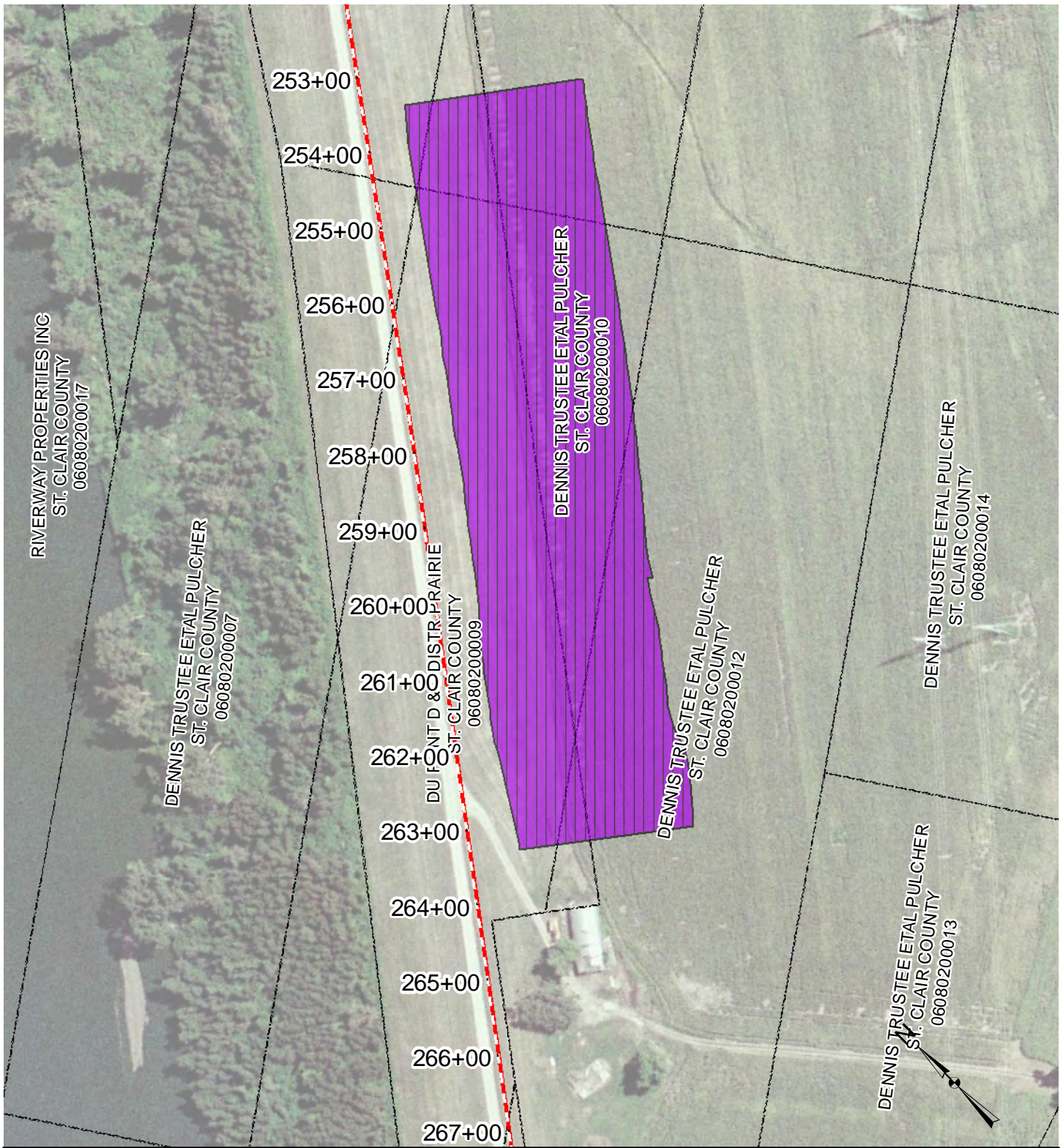
DESIGN STA: 227+05 TO 250+15

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08/12/2016 SHEET 1 OF 23

**Legend**

- Relief Well
- Seepage Berm



**USACE Authorized Level of  
Protection Planning and Analysis**

**BID PACKAGE 15**

**PDP LEVEE SYSTEM**

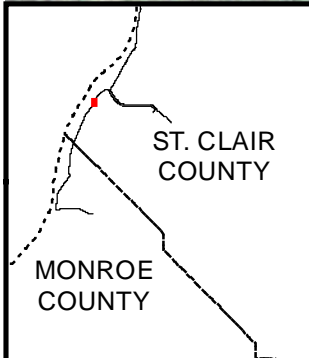
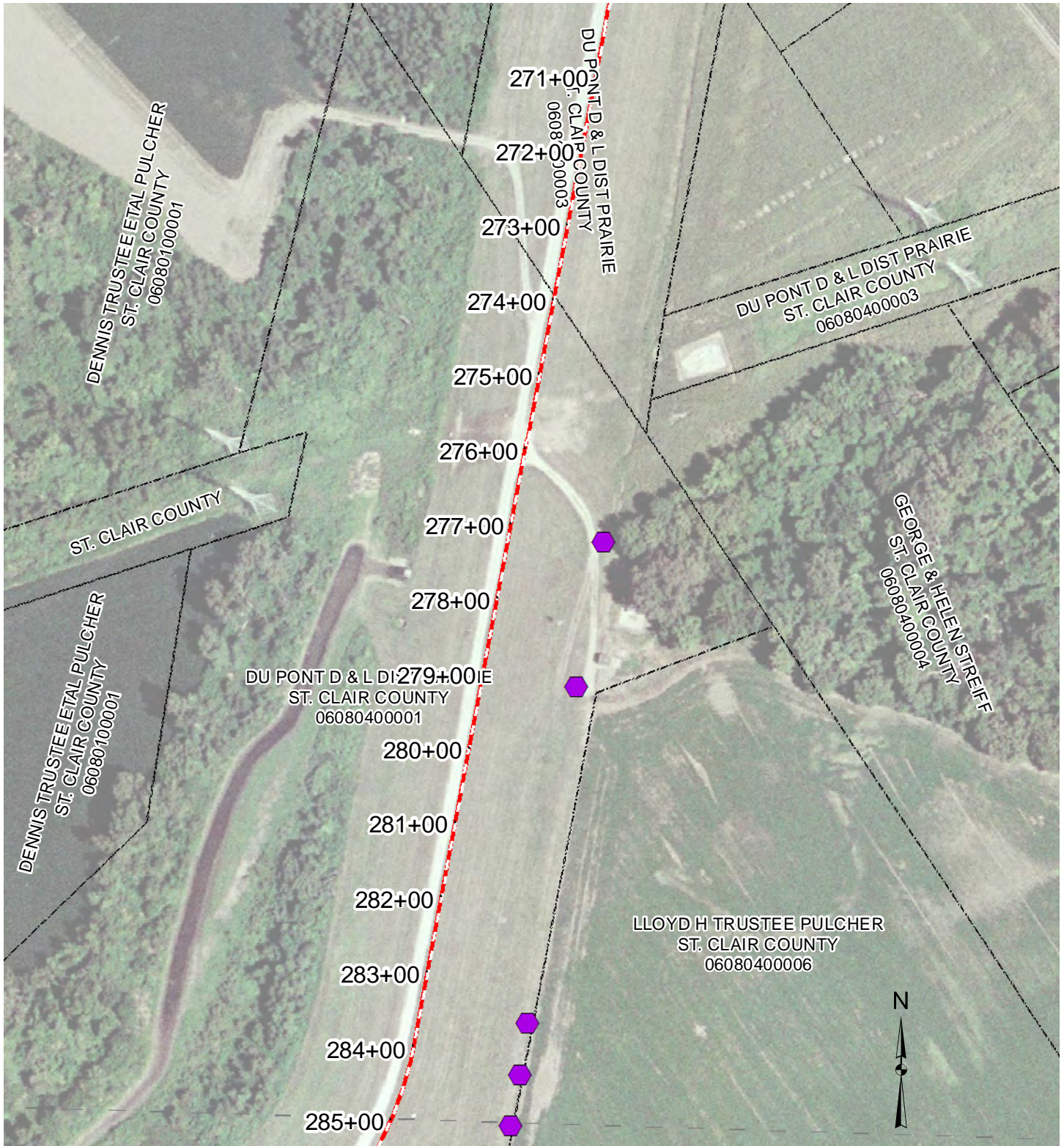
DESIGN STA: 253+45 TO 263+35

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08/12/2016 SHEET 2 OF 23

**Legend**



- Relief Well
- Seepage Berm

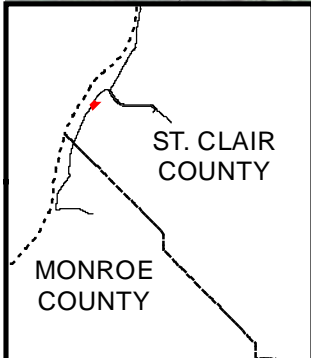
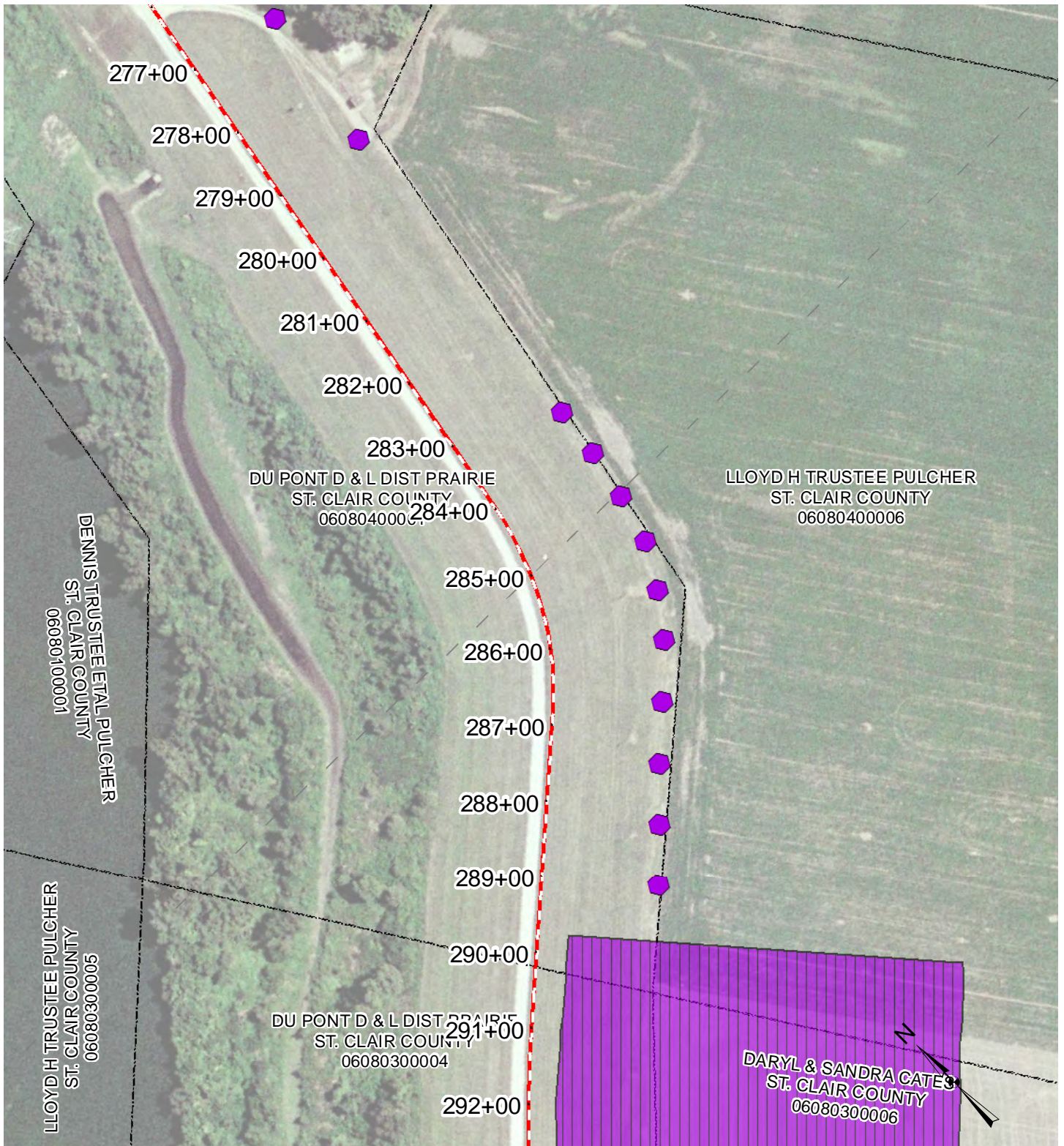


**USACE Authorized Level of Protection Planning and Analysis**  
**BID PACKAGE 15**  
**PDP LEVEE SYSTEM**  
**DESIGN STA: 276+55 TO 279+85**

08/12/2016 SHEET 3 OF 23

**Legend**

-  Relief Well
-  Seepage Berm



**USACE Authorized Level of  
Protection Planning and Analysis**

**BID PACKAGE 15**

**PDP LEVEE SYSTEM**

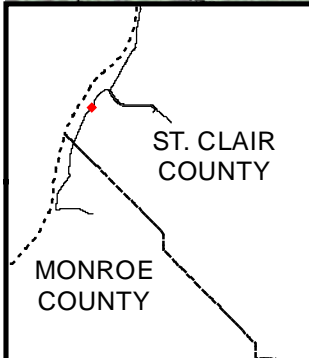
DESIGN STA: 283+15 TO 289+75

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08/12/2016 SHEET 4 OF 23

**Legend**

- Relief Well
- Seepage Berm



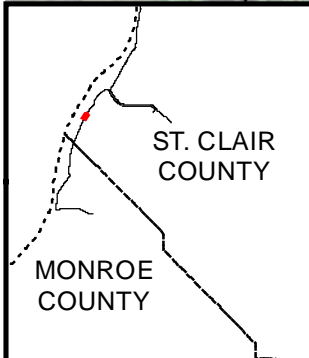
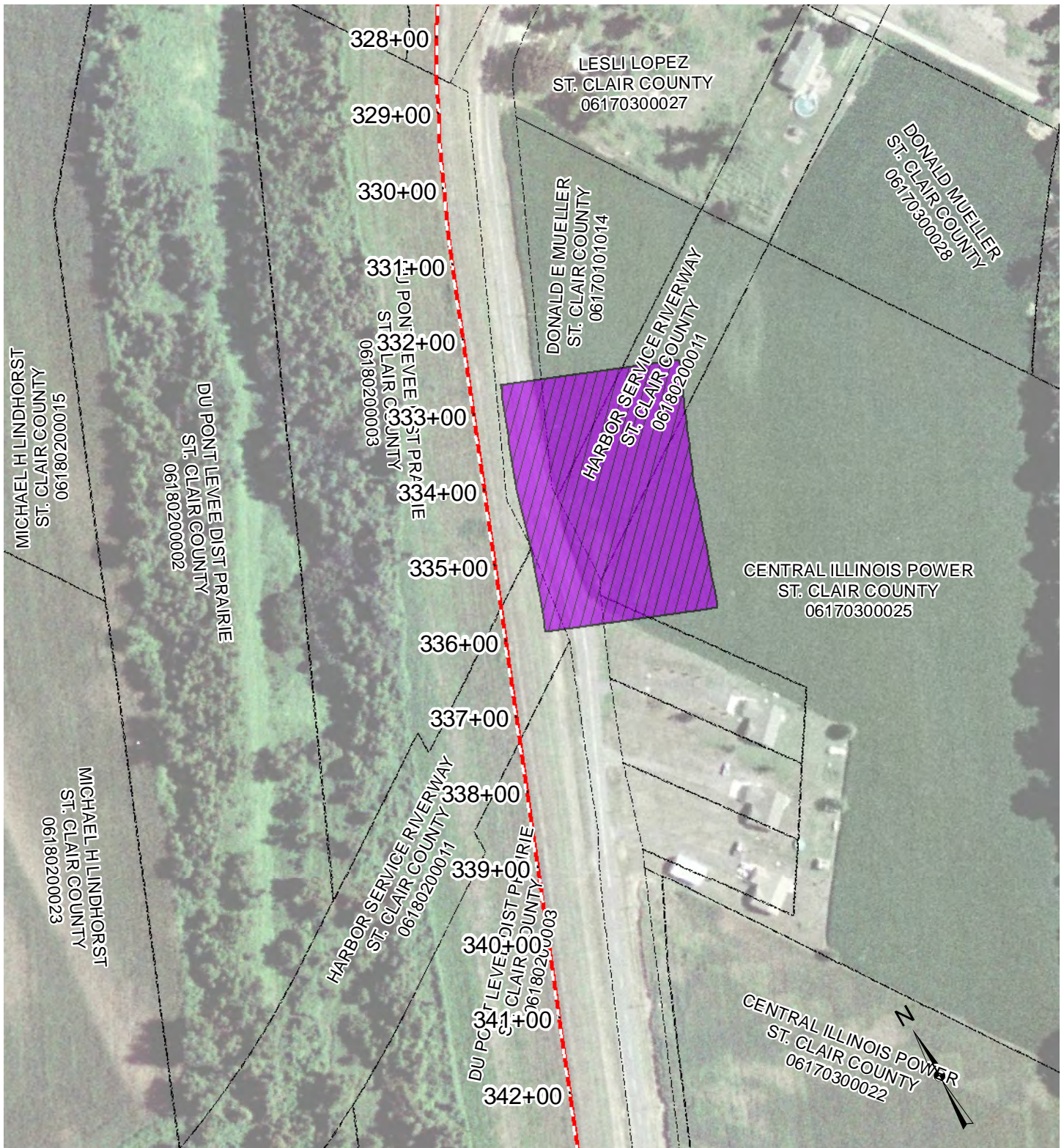
**USACE Authorized Level of Protection Planning and Analysis**  
**BID PACKAGE 15**  
**PDP LEVEE SYSTEM**  
 DESIGN STA: 289+75 TO 299+65

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08/12/2016 SHEET 5 OF 23

**Legend**



- Relief Well
- Seepage Berm

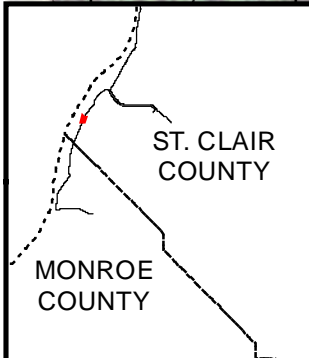
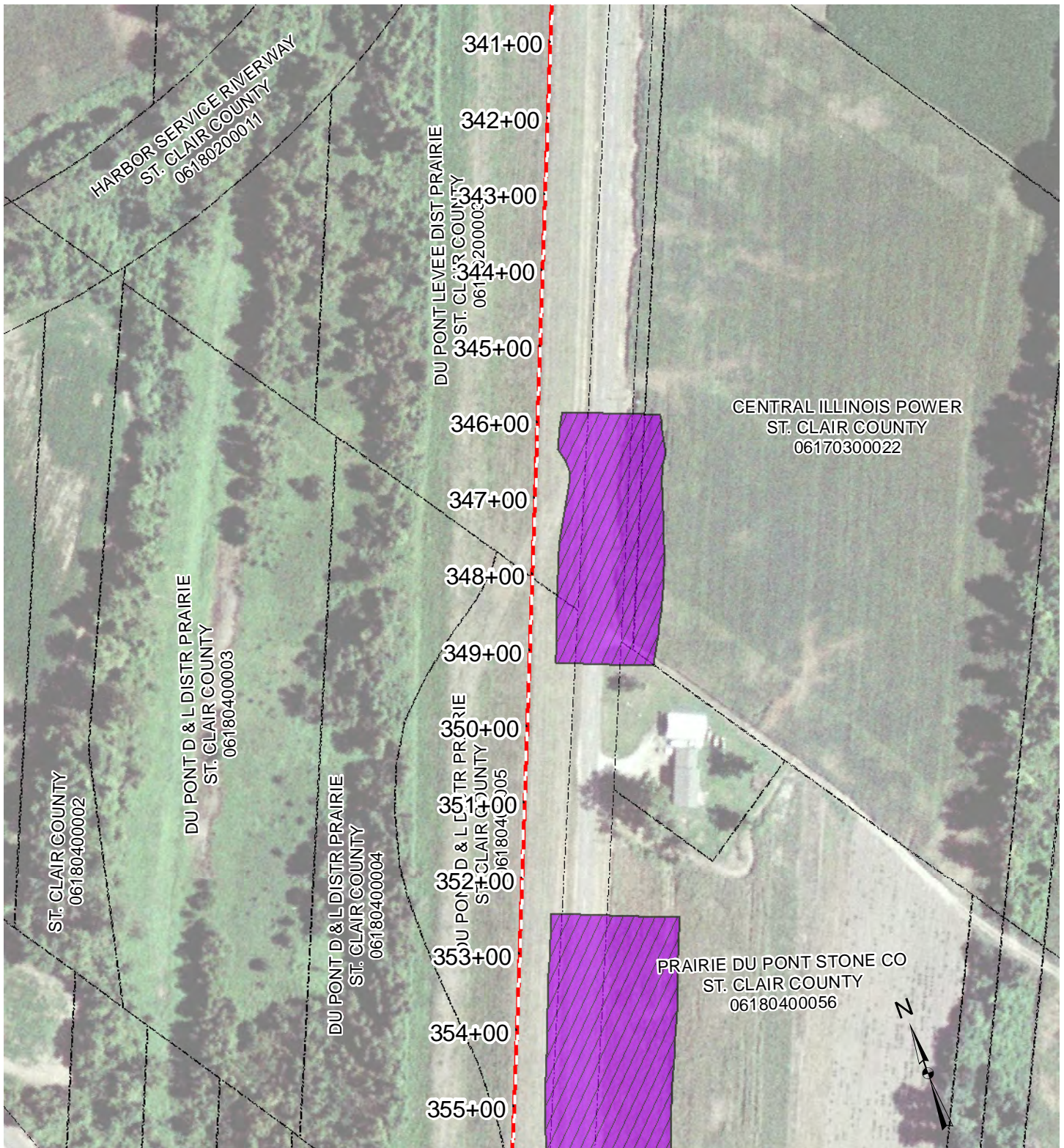


**USACE Authorized Level of Protection Planning and Analysis**  
**BID PACKAGE 15**  
**PDP LEVEE SYSTEM**  
**DESIGN STA: 332+65 TO 335+95**

08/12/2016 SHEET 6 OF 23

**Legend**

-  Relief Well
-  Seepage Berm



**USACE Authorized Level of  
Protection Planning and Analysis**

**BID PACKAGE 15**

**PDP LEVEE SYSTEM**

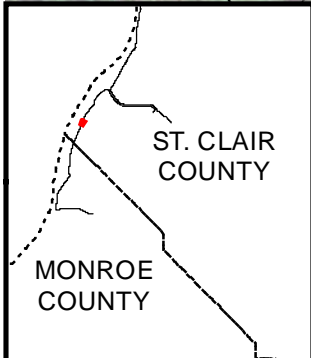
DESIGN STA: 345+85 TO 349+15

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08/12/2016 SHEET 7 OF 23

**Legend**

- Relief Well
- Seepage Berm



**USACE Authorized Level of Protection Planning and Analysis**

**BID PACKAGE 15**

**PDP LEVEE SYSTEM**

DESIGN STA: 352+45 TO 362+35

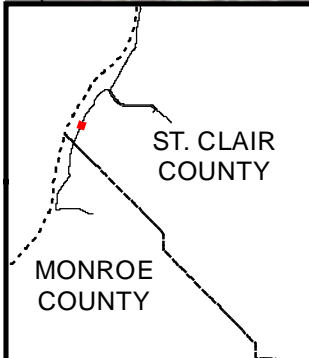
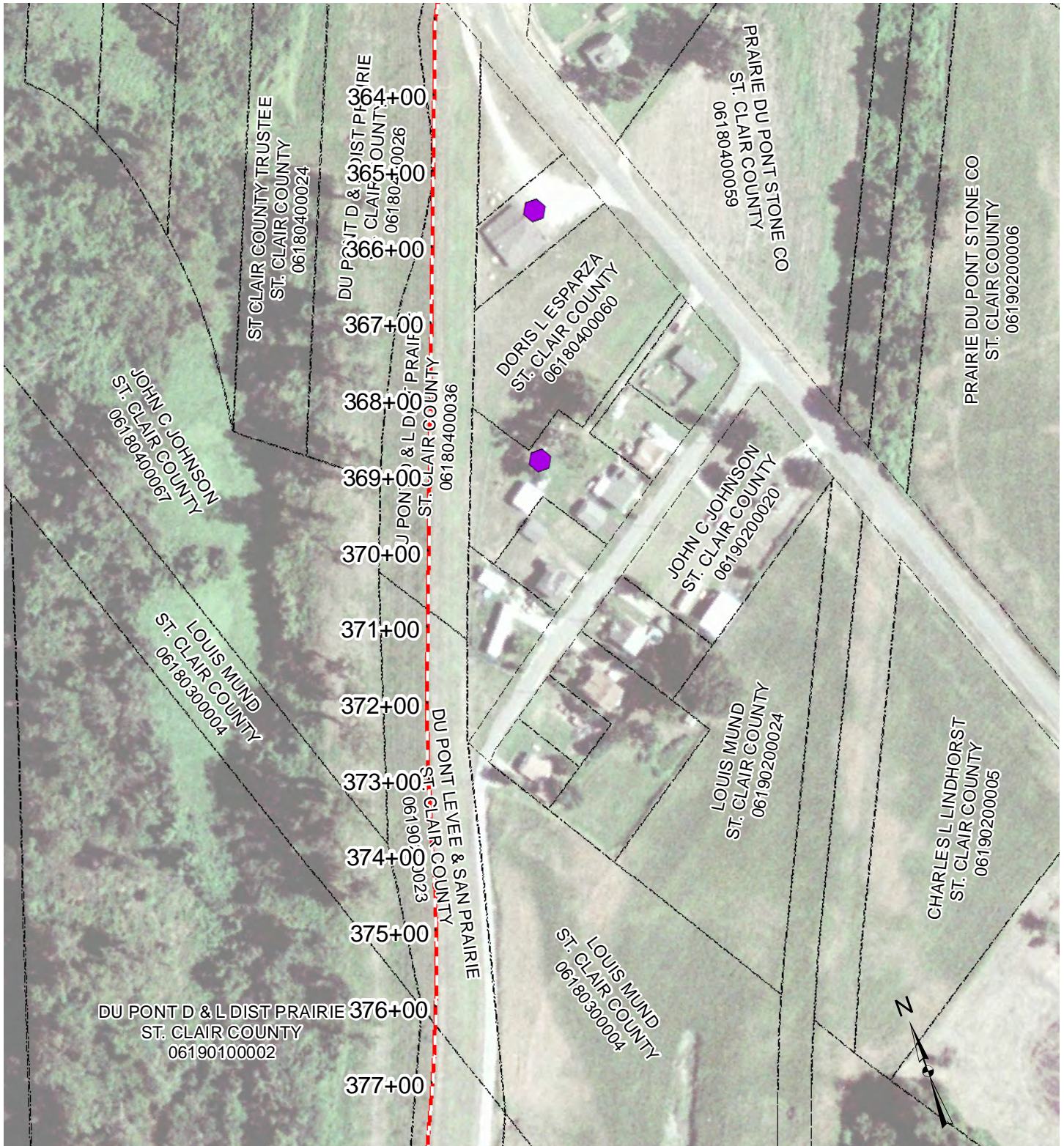
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08/12/2016 SHEET 8 OF 23

**Legend**

- Relief Well
- Seepage Berm





**USACE Authorized Level of  
Protection Planning and Analysis**

**BID PACKAGE 15**



**PDP LEVEE SYSTEM**

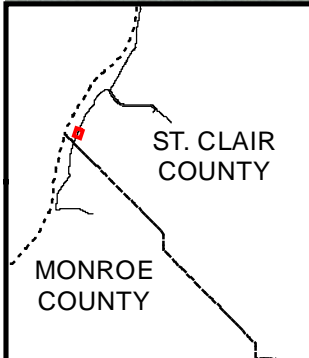
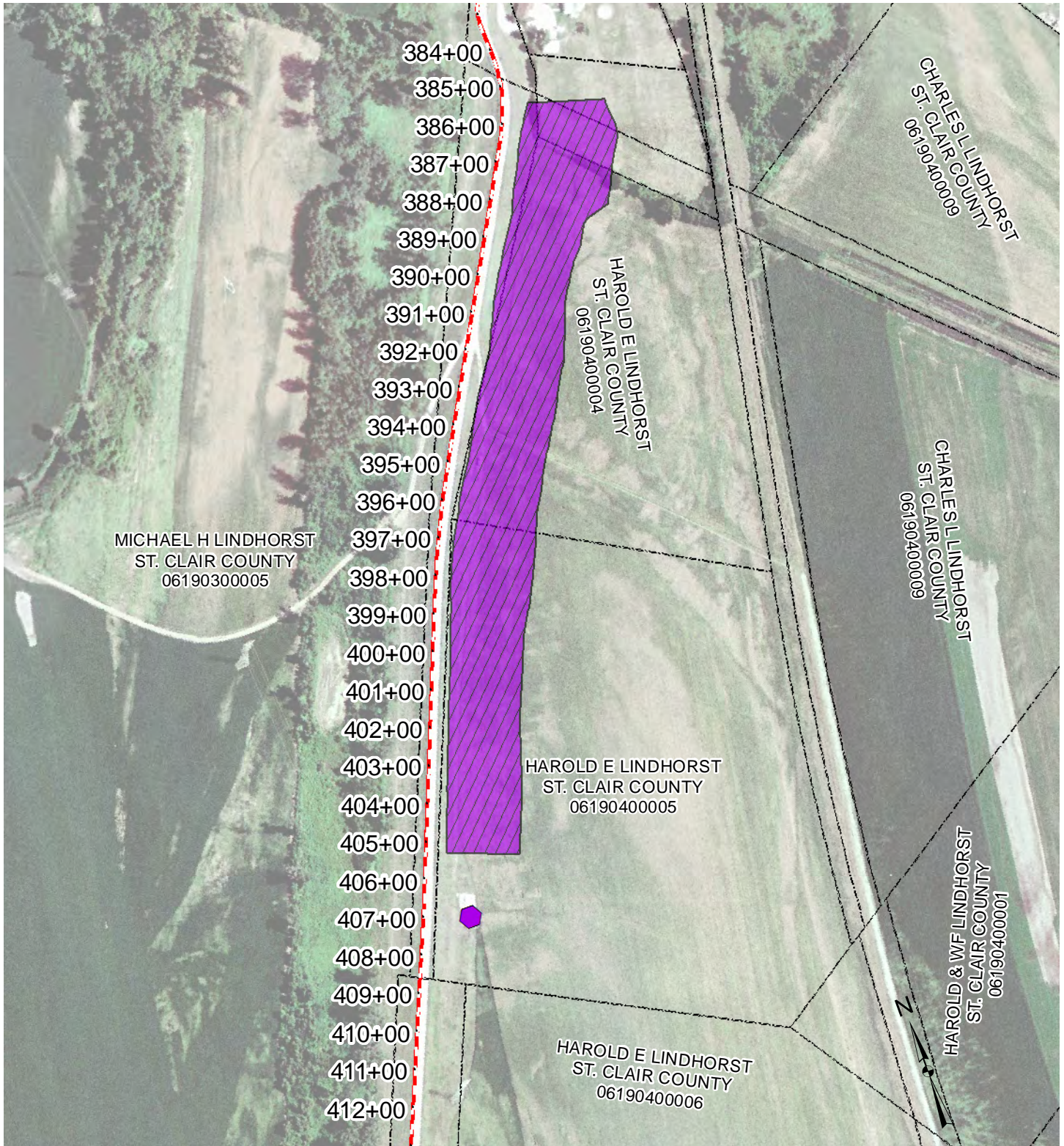
DESIGN STA: 365+65 TO 368+95

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08/12/2016 SHEET 9 OF 23

**Legend**

-  Relief Well
-  Seepage Berm





**USACE Authorized Level of Protection Planning and Analysis**

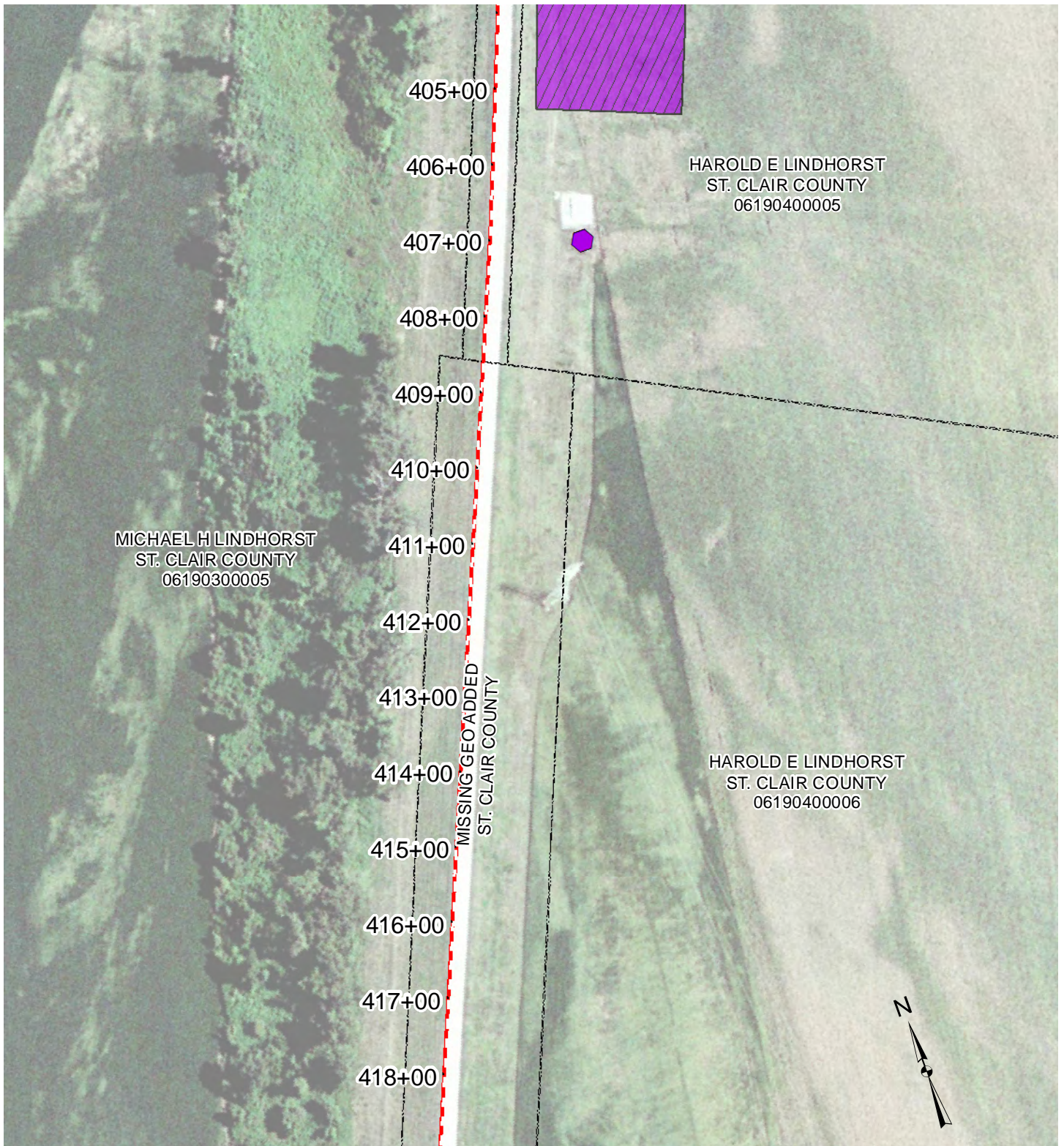
**BID PACKAGE 15**

**PDP LEVEE SYSTEM**

DESIGN STA: 385+45 TO 405+25

**Legend**

-  Relief Well
-  Seepage Berm



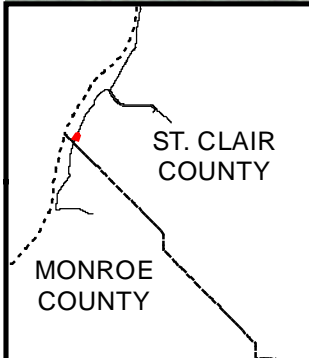
MICHAEL H LINDHORST  
ST. CLAIR COUNTY  
06190300005

HAROLD E LINDHORST  
ST. CLAIR COUNTY  
06190400005

HAROLD E LINDHORST  
ST. CLAIR COUNTY  
06190400005

MISSING GEO ADDED  
ST. CLAIR COUNTY

405+00  
406+00  
407+00  
408+00  
409+00  
410+00  
411+00  
412+00  
413+00  
414+00  
415+00  
416+00  
417+00  
418+00





**USACE Authorized Level of Protection Planning and Analysis**

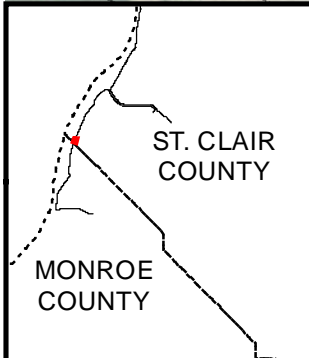
**BID PACKAGE 15**

**PDP LEVEE SYSTEM**

DESIGN STA: 405+25 TO 408+55

**Legend**

-  Relief Well
-  Seepage Berm



**USACE Authorized Level of  
Protection Planning and Analysis**

**BID PACKAGE 15**

**PDP LEVEE SYSTEM**

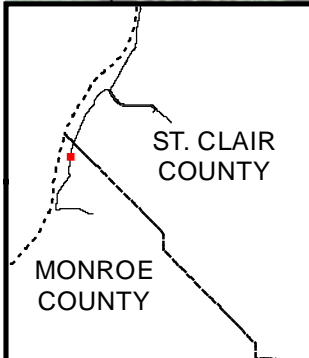
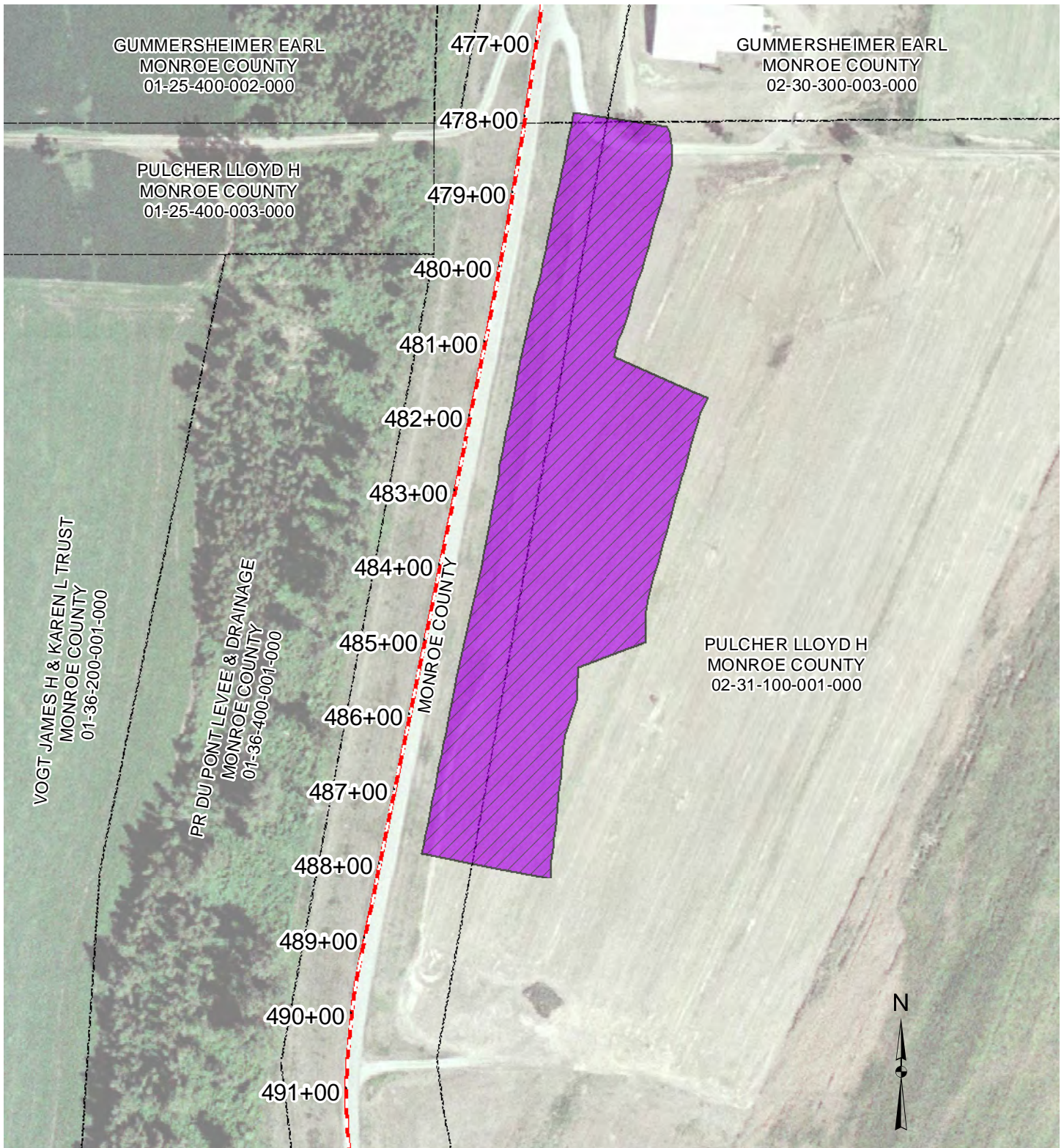
DESIGN STA: 421+75 TO 425+05

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08/12/2016 SHEET 12 OF 23

**Legend**



- Relief Well
- Seepage Berm

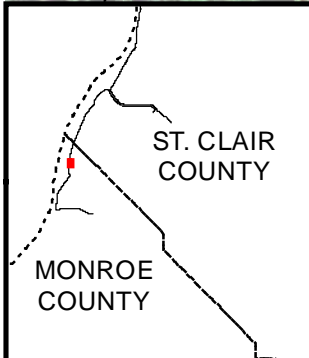
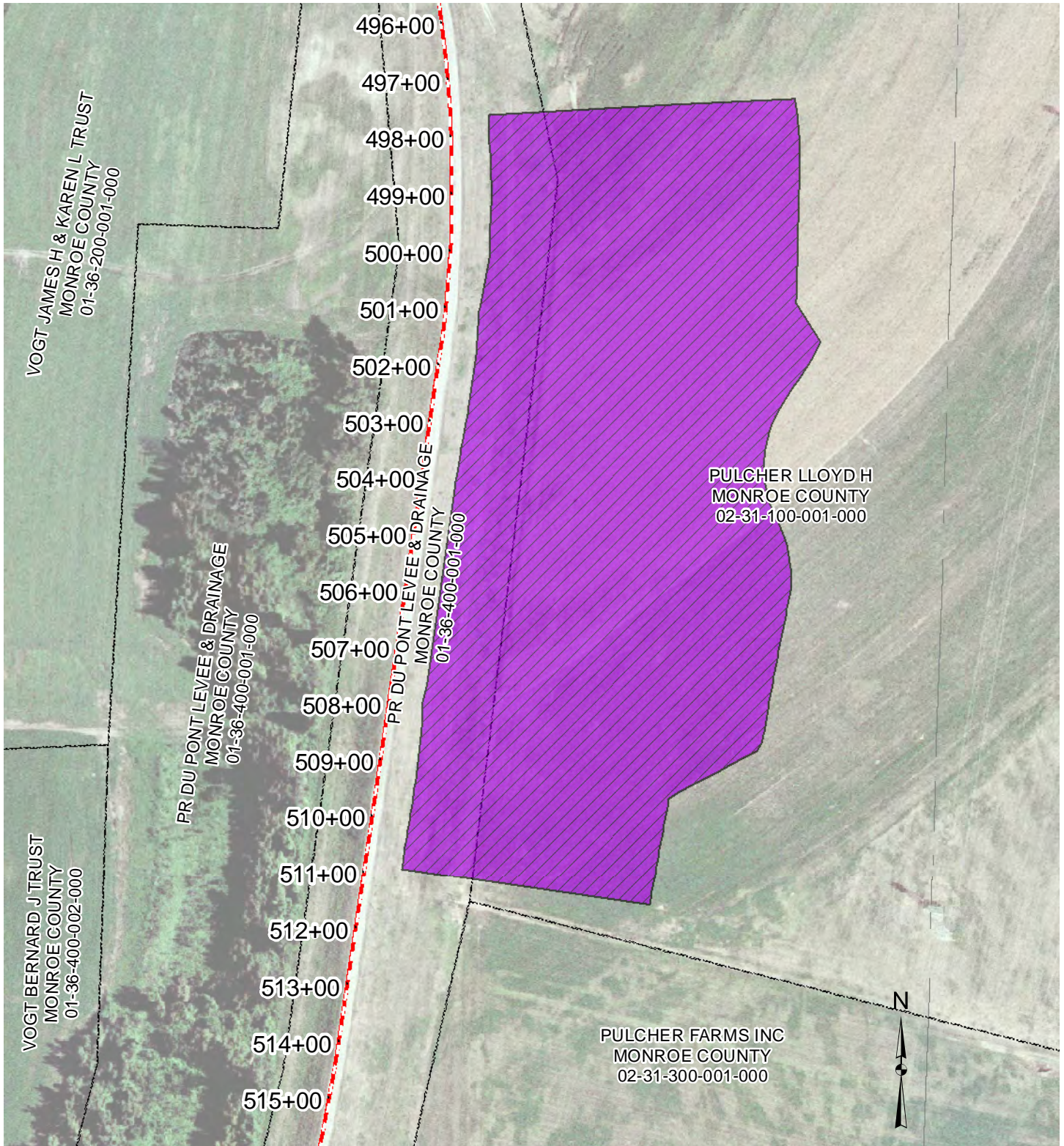


**USACE Authorized Level of Protection Planning and Analysis**  
**BID PACKAGE 15**  
**PDP LEVEE SYSTEM**  
 DESIGN STA: 477+85 TO 487+75

08/12/2016                      SHEET                      13 OF 23

**Legend**

-  Relief Well
-  Seepage Berm



**USACE Authorized Level of Protection Planning and Analysis**

**BID PACKAGE 15**



**PDP LEVEE SYSTEM**

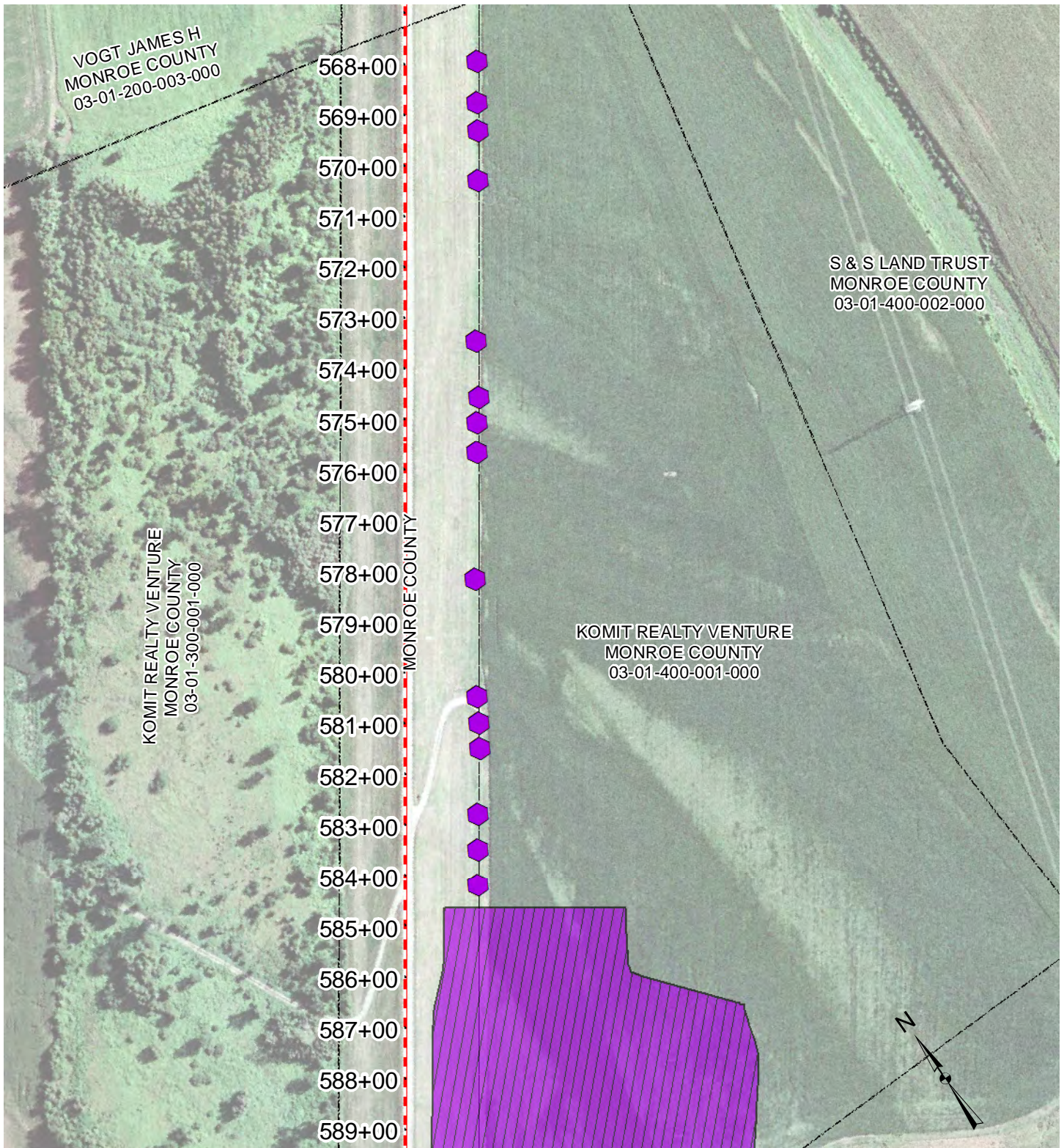
DESIGN STA: 497+65 TO 510+85

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08/12/2016 SHEET 14 OF 23

**Legend**

-  Relief Well
-  Seepage Berm



VOGT JAMES H  
MONROE COUNTY  
03-01-200-003-000

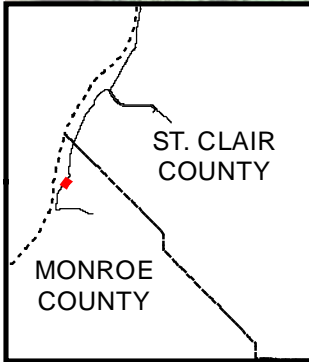
S & S LAND TRUST  
MONROE COUNTY  
03-01-400-002-000

KOMIT REALTY VENTURE  
MONROE COUNTY  
03-01-300-001-000

KOMIT REALTY VENTURE  
MONROE COUNTY  
03-01-400-001-000

568+00  
569+00  
570+00  
571+00  
572+00  
573+00  
574+00  
575+00  
576+00  
577+00  
578+00  
579+00  
580+00  
581+00  
582+00  
583+00  
584+00  
585+00  
586+00  
587+00  
588+00  
589+00

MONROE COUNTY





**USACE Authorized Level of Protection Planning and Analysis**

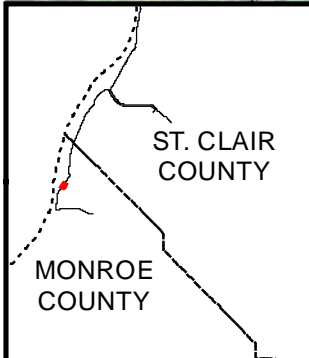
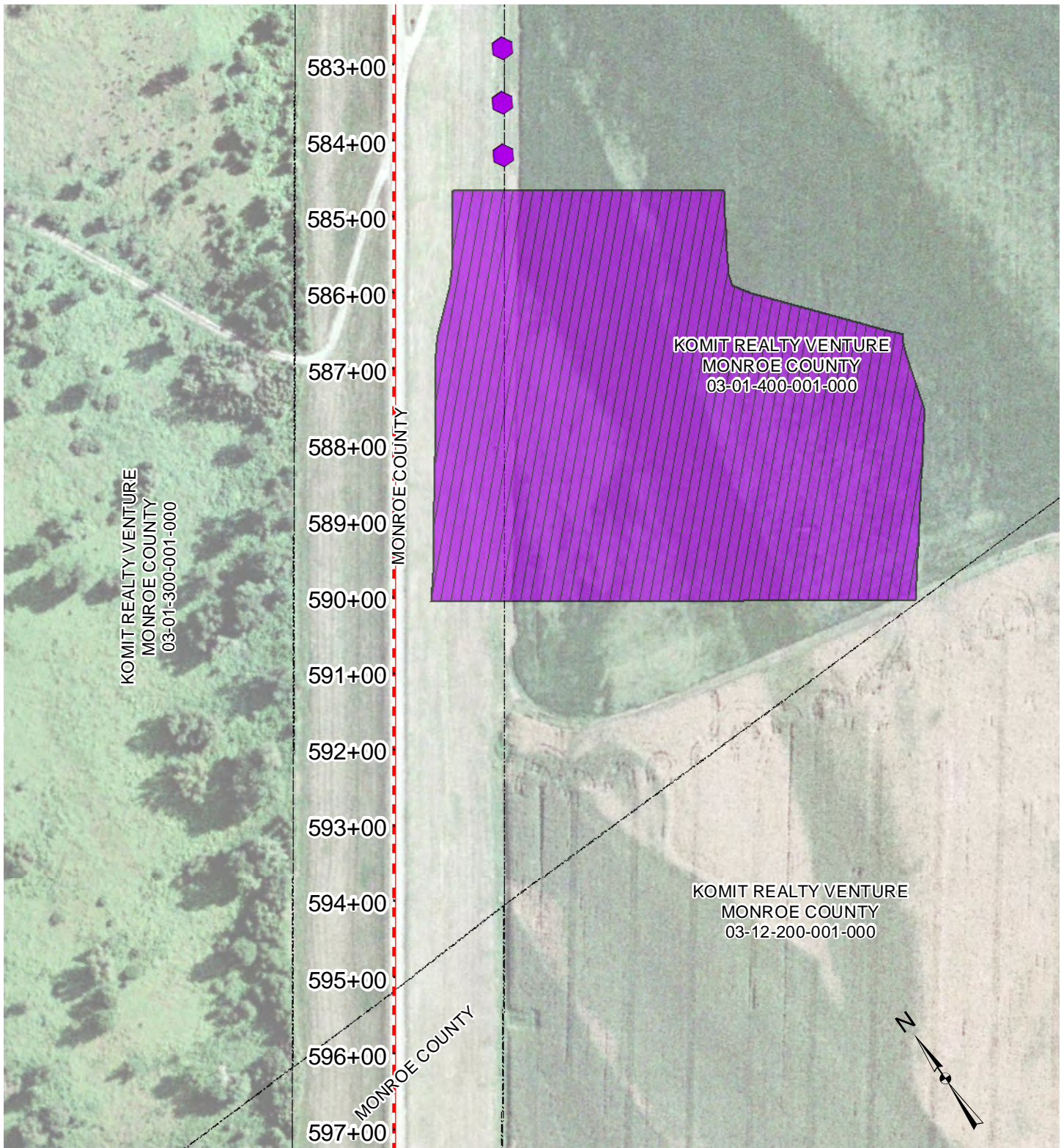
**BID PACKAGE 15**

**PDP LEVEE SYSTEM**

DESIGN STA: 567+35 TO 584+65

**Legend**

-  Relief Well
-  Seepage Berm



**USACE Authorized Level of  
Protection Planning and Analysis**

**BID PACKAGE 15**



**PDP LEVEE SYSTEM**

DESIGN STA: 584+65 TO 590+05

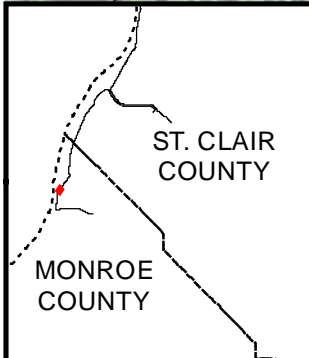
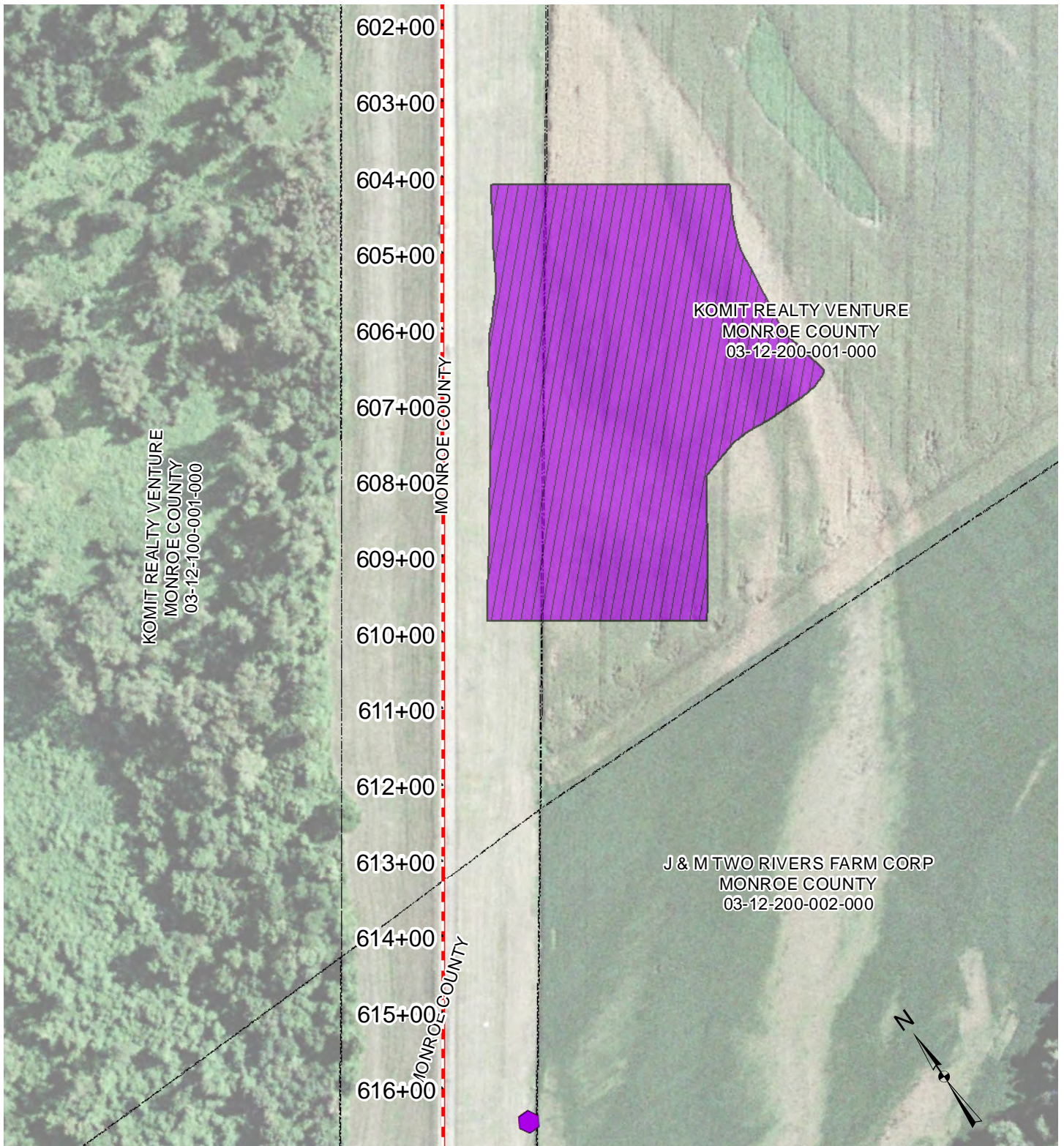
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08/12/2016 SHEET 16 OF 23

**Legend**

-  Relief Well
-  Seepage Berm





**USACE Authorized Level of  
Protection Planning and Analysis**

**BID PACKAGE 15**

**PDP LEVEE SYSTEM**

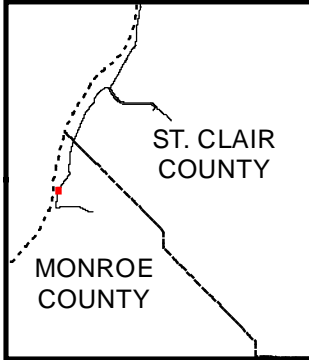
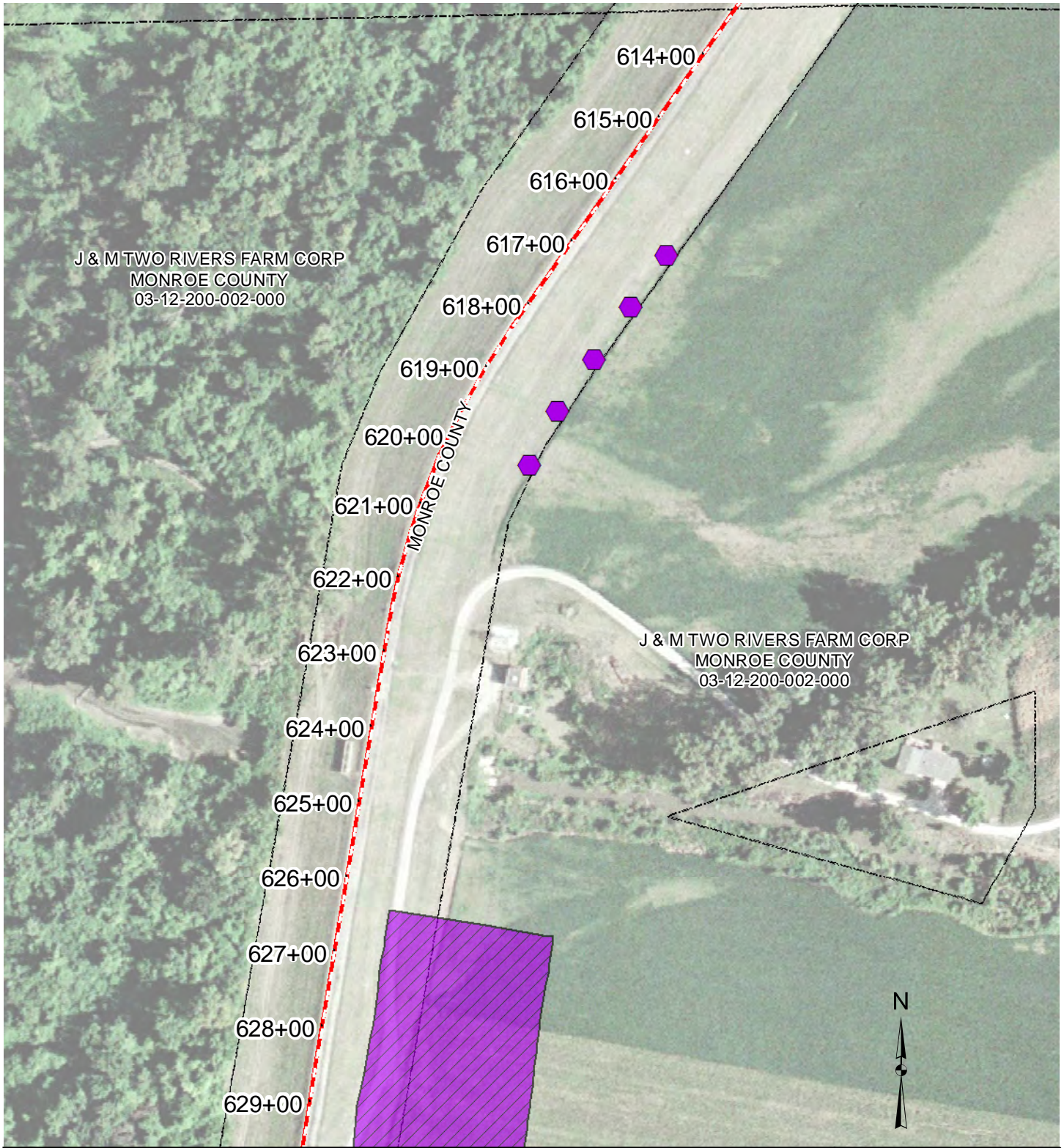
DESIGN STA: 604+10 TO 609+85

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08/12/2016 SHEET 17 OF 23

**Legend**

- Relief Well
- Seepage Berm



**USACE Authorized Level of  
Protection Planning and Analysis**

**BID PACKAGE 15**



**PDP LEVEE SYSTEM**

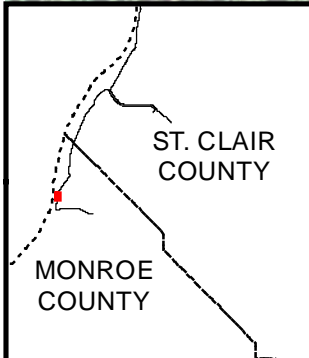
DESIGN STA: 616+45 TO 619+75

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08/12/2016 SHEET 18 OF 23

**Legend**

-  Relief Well
-  Seepage Berm



**USACE Authorized Level of  
Protection Planning and Analysis**

**BID PACKAGE 15**

**PDP LEVEE SYSTEM**

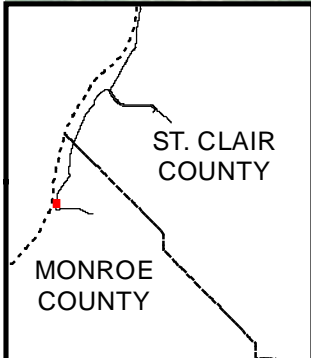
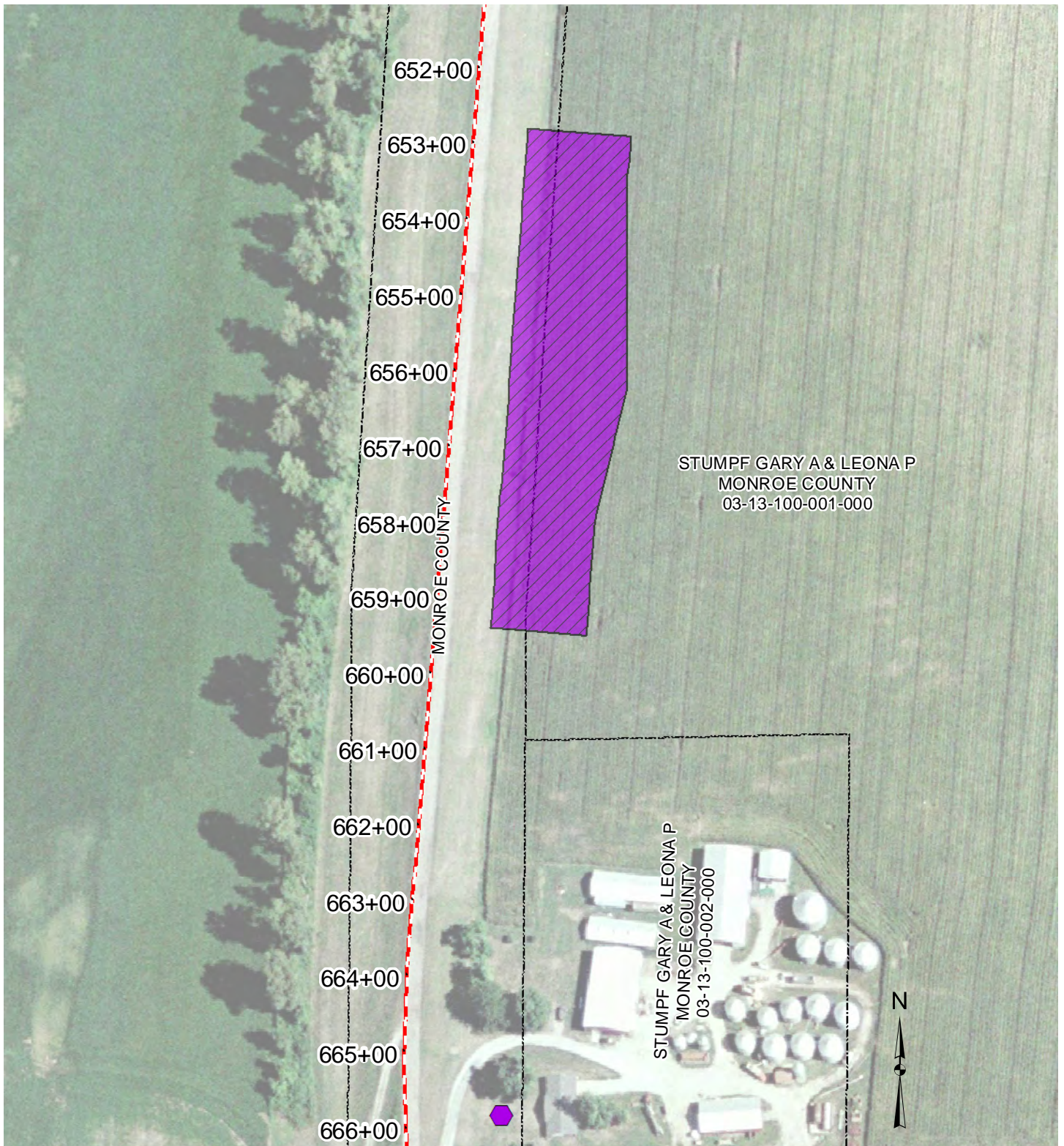
DESIGN STA: 626+35 TO 639+55

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08/12/2016 SHEET 19 OF 23

**Legend**

- Relief Well
- Seepage Berm



**USACE Authorized Level of Protection Planning and Analysis**

**BID PACKAGE 15**



**PDP LEVEE SYSTEM**

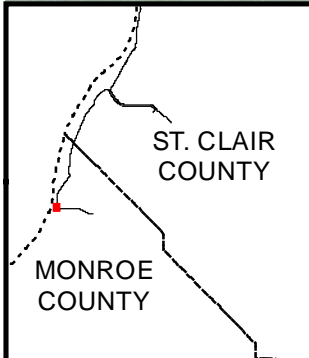
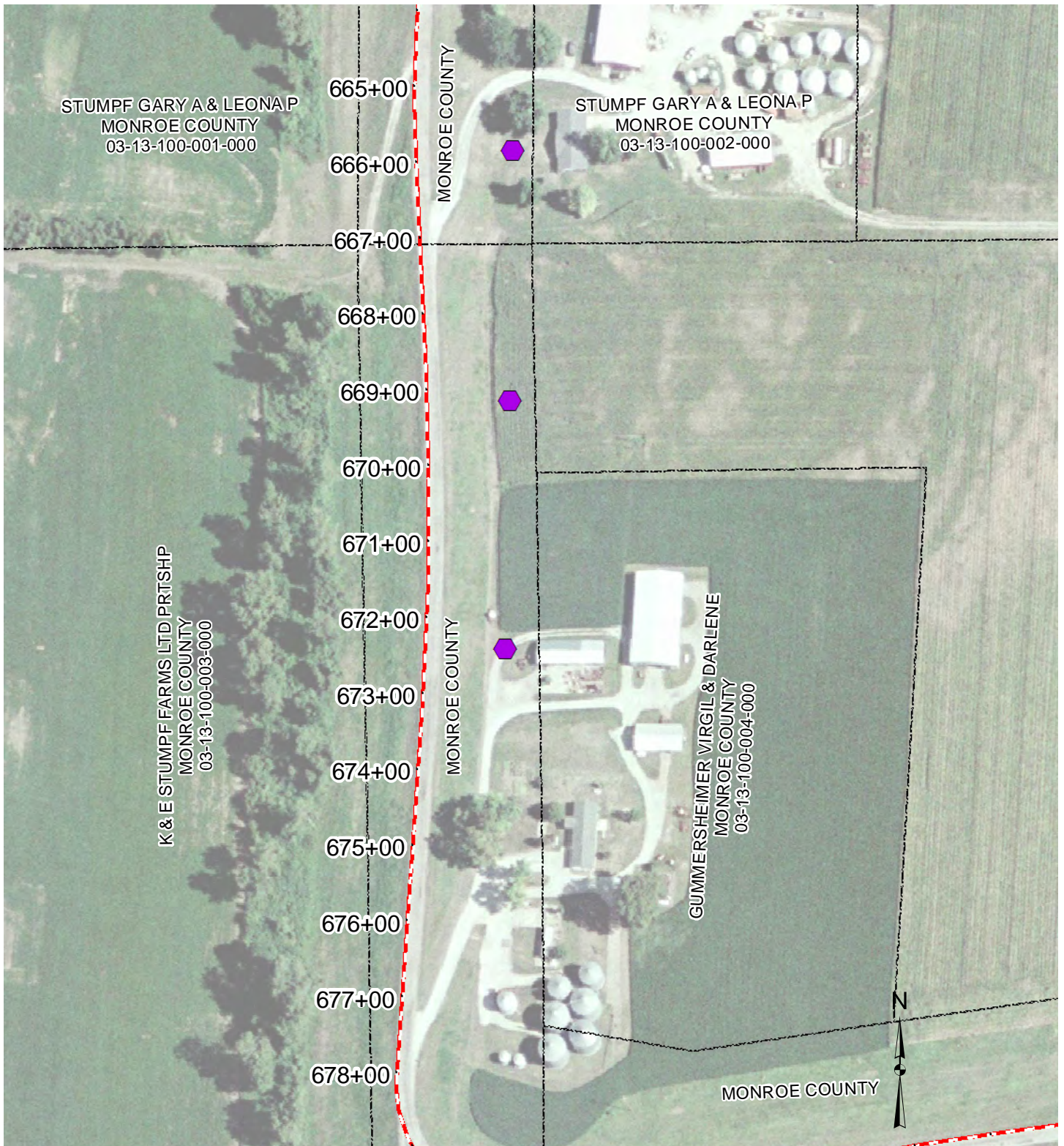
DESIGN STA: 652+75 TO 659+35

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08/12/2016 SHEET 20 OF 23

**Legend**

-  Relief Well
-  Seepage Berm





**USACE Authorized Level of Protection Planning and Analysis**

**BID PACKAGE 15**

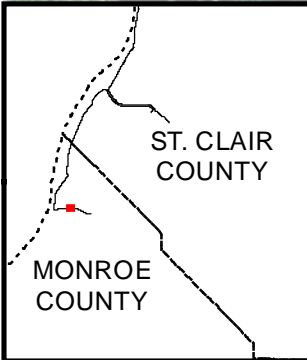
**PDP LEVEE SYSTEM**

DESIGN STA: 665+95 TO 672+55

**Legend**

-  Relief Well
-  Seepage Berm





**USACE Authorized Level of  
Protection Planning and Analysis**

**BID PACKAGE 15**

**PDP LEVEE SYSTEM**

DESIGN STA: 731+95 TO 735+25



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08/12/2016

SHEET

23 OF 23

**Legend**

-  Relief Well
-  Seepage Berm







Memo to: Board of Directors  
From: Chuck Etwert  
Subject: Election of Officers for 2016-2017  
Date: August 15, 2016

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. The positions have been rotated among the three County Flood Prevention Districts in the past. All Board members are eligible to serve as officers.

The election of officers will take place on August 17, 2016 at the Council's regular Board meeting.