



SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL  
BOARD OF DIRECTORS MEETING  
July 15, 2015 7:30 am

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

1. Call to Order  
*John Conrad, President*
2. Approval of Minutes of June 17, 2015
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 Environment & Infrastructure*
7. Draft FY2016 Flood Prevention District Budget  
*Chuck Etwert, Chief Supervisor*
8. Change Orders – BP #6  
*Amec Foster Wheeler Environment & Infrastructure*  
*Chuck Etwert, Chief Supervisor*
9. Amec Foster Wheeler Work Order #13  
Wood River Authorized Level Field Investigation and Design  
*Amec Foster Wheeler Environment & Infrastructure*  
*Chuck Etwert, Chief Supervisor*
10. Update from Corps of Engineers  
*Mike Feldmann, U.S. Army Corps of Engineers*
11. Public Comment

AGENDA

12. Executive Session - Litigation
13. Other Business
14. Adjournment

**Next Meeting: August 19, 2015**

## MINUTES

### SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL BOARD OF DIRECTORS MEETING

June 17, 2015

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 June 17, 2015.

#### Members in Attendance

John Conrad, President (Chair, Monroe County Flood Prevention District)  
James Pennekamp, Vice President (Chair, Madison County Flood Prevention District)  
Dan Maher, Secretary/Treasurer (Chair, St. Clair County Flood Prevention District)  
Alvin Parks, Jr., St. Clair County Flood Prevention District  
Tom Long, Madison County Flood Prevention District  
Bruce Brinkman, Monroe County Flood Prevention District  
Ronald Polka, Monroe County Flood Prevention District

#### Members Absent

Paul Bergkoetter, St. Clair County Flood Prevention District  
Ron Motil, Madison County Flood Prevention District

#### Others in Attendance

Alan Dunstan, Madison County Board Chair  
Terry Liefer, Monroe County Board Chair  
Mark Kern, St. Clair County Board Chair  
Chuck Etwert, SW Illinois FPD Council  
Rich Conner, Levee Issues Alliance  
Mike Feldmann, U.S. Army Corps of Engineers  
Walter Greathouse, Metro-East Sanitary District  
Scott Harding, SCI Engineering  
Gary Hoelscher, Millennia Professional Services  
David Human, Husch Blackwell LLP  
Phil Johnson, Phil Johnson Realtor  
Charles Juneau, Juneau Associates  
Ronald S. Kaempfe, IUOE Local 520  
Tracey Kelsey, U.S. Army Corps of Engineers  
Steve Kochan, Wood River Levee & Drainage District  
Ellen Krohne, Leadership Council SW Illinois  
Rick Mauch, SCI Engineering  
Jay Martin, Amec Foster Wheeler Environment & Infrastructure  
Jack Norman, Southern Illinois Groundwater Advisory Council  
David Oates, Oates Associates  
Jon Omgig, Amec Foster Wheeler Environment & Infrastructure  
Joe Parente, Madison County  
Matt Rice, Congressman Bost

Ken Slavens Husch Blackwell LLP  
Dale Stewart, Southwestern Illinois Building Trades Council  
Jeff White, Columbia Capital

**Call to order**

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

**Approval of Minutes of May 20, 2015**

A motion was made by Dan Maher, seconded by Jim Pennekamp, to approve the minutes of the Board meeting held on May 20, 2015. Mr. Maher 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
- Mr. Maher – Aye
- Mr. Motil – absent
- Mr. Parks – absent
- Mr. Pennekamp – Aye

The motion was approved.

Mr. Conrad mentioned that member Paul Bergkoetter was at home and unable to attend today’s meeting due to flood fighting.

**Public Comment on Pending Agenda Items**

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

**Program Status Report**

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

Mr. Etwert indicated that the easements required from Union Pacific have been obtained, completing the acquisition of all permanent easements required for the 100-Year Protection Level Projects. The process of obtaining some temporary easement extensions where construction has taken longer than originally anticipated is also nearing completion.

Approximately 73% of the \$47.1 million of construction, involved in the eight current construction bid packages (not including BP 7B), has been completed thru May. With 1.9 million dollars’ worth of construction completed in May, the total amount of construction completed is now \$34.5 million. There has been high river conditions for the last three weeks which has slowed construction.

He indicated that there were two change orders, involving Bid Package #6 on the agenda, which Amec Foster Wheeler would be explaining later in the meeting.

Next he indicated that he and Amec Foster Wheeler continue to meet with the Corps of Engineers regarding the process of the Council moving ahead with 500-year level of protection projects and ensuring that work the Council does is eligible for future Work In-Kind Credit.

A pre-construction meeting was held with representatives of TREVIICOS on Monday June 15th.

He indicated that Mr. Jeff White of Columbia Capital Management was at the meeting to discuss the bond financing resolution which was indicated on the schedule he presented at last month's meeting.

Next he referred to an e-mail he sent the Board the previous week, in which Senator Durbin's office indicated that the Corps' St. Louis District would be accepting bids with a PLA, without a PLA, or both with any bid which includes a PLA receiving favorable weighting or "added credit" in the decision process.

At the time the agenda package was sent out he hadn't received any additional information. However, last night he received a letter from Anne Kierig of Senator Durbin's office, which was given to each Board member at the meeting. The Senator's office thought the letter would be coming from the Corps headquarters, but the Army delivered the message to the District and Colonel Mitchell wrote the letter.

The letter indicated that the Corps under the Federal Acquisition Regulation (FAR) had no basis to mandate the use of Project Labor Agreements (PLAs), but would employ a "best value tradeoff selection on the Metro East projects" and draft "evaluation criteria that will give weight to proposals that include PLAs".

It was the consensus of the Board to hold all decisions on necessary sponsor cost share funds until the "evaluation criteria" and the "selection process" the Corps intends to utilize are developed and brought forward.

Mr. Etwert indicated that there would be an executive session on litigation at the end of the meeting.

The Board was provided copies of the Amec Foster Wheeler's Monthly Progress Report for June.

A motion was made by Mr. Pennekamp, seconded by Mr. Polka to accept the Program Status Report for June 2015. Mr. Maher 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  
Mr. Maher - Aye  
Mr. Motil - absent  
Mr. Parks - absent  
Mr. Pennekamp - Aye

The motion was approved unanimously.

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

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

Mr. Etwert noted that financial statement for May 2015 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 May 31, 2015, as compared to the fiscal year budget.

Accrued expenditures for the current fiscal year beginning on October 1, 2014 are \$32,476,838 while revenues amounted to \$7,715,586 resulting in a deficit of \$24,674,907. A total of approximately \$23,245,987 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 March 2015 (the latest month reported by the Illinois Department of Revenue) were down by 1.05% from the previous year. In general, receipts are up 1.38% from last year, which was our highest year.

The report included bank transactions for May 2015. Total disbursements for the month were \$3,405,435.22. The largest payments were to Keller Construction for BP #3 and BP #5, Lane Construction for BP #6, Kamadulski Excavating & Grading Co. for BP #7A, Korte & Luitjohan Contractors for BP #2B, Haier Plumbing for BP #4, Union Pacific for easements, 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 May 2015 Bank Transaction Schedule prepared by CliftonLarsonAllen.

Mr. Etwert recommended that the Board accept the budget report and disbursements for May 2015.

A motion was made by Mr. Brinkman seconded by Mr. Pennekamp, to accept the budget report and approve the disbursements for May 2015. Mr. Maher 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  
Mr. Maher – Aye  
Mr. Motil – absent  
Mr. Parks – absent  
Mr. Pennekamp – Aye

The motion was approved unanimously.

## **Design and Construction Update**

Mr. Conrad called on Jay Martin, Amec Foster Wheeler's program manager, to provide a report. Mr. Martin used a slide presentation to illustrate his remarks. His presentation, including a few site photos, focused on the status of each bid package as follows:

## **Construction Status**

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

- The planned construction portion of this project is nearly complete.
- Retainage will not be fully released until establishment of turf
- Amec Foster Wheeler preparing documents for USACE

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

- Work on this site will not begin until 15 October 15 in order to comply with 33 U.S.C. 408 (Section 408 alteration permit).
- NTP was issued on 05 March 15.
- The contractor is working on submittals.

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

- Critical Delay: High river levels restricting excavation/drilling for 3+ weeks
- Union Pacific RR land acquisition complete. Contractor issued NTP and is now in the process of acquiring permits
- Design revisions to Blanket Drain 4 and Random Fill Area 1 pending. Construction costs impacts will be submitted when available
- Piezometer installation delayed – 43 of 51 piezometers complete
- Relief well drilling delayed - 10 of 85 RWs have been completed.
- Pilot hole drilling delayed at IL RT3 and Hawthorne
- Blanket Drain 2 – 20% Complete
- Blanket Drain 7 – 50% Complete
- Weir 4 – 30% Complete
- Blanket Drain 3, Blanket Drain 5, and Indian Creek substantially complete. Punch list work being completed

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

- Relief well drilling complete.
- Relief well collector system has failed deflection results in the 24 inch piping. Amec reviewing.
- Pump Station installation in progress and approximately 95% complete
- Clay Cap and Random Fill work will begin June/July

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

- Relief well drilling complete.
- Relief well collector systems has failed deflection results in portions of the piping. Amec reviewing.
- Clay Cap and Random Fill work will begin July
- Sluice Gate rehabilitation at MoPAC scheduled for completion in August 2015

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

- Relief well drilling complete
- Piezometer installation continues – 15 of 16 PZs complete.
- Relief well collector system – 85% Complete
- Seepage Berms – 90% Complete
- Clay Caps – 90% Complete

**Bid Package 7A – Wood River Upper (Shallow) Cutoff Wall**

- This project is substantially complete. Retainage has not been fully released
- Contractor is completing remaining punch list items

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

- TREVIICOS received Notice-to-Proceed June 9, 2015
- Pre-Construction Meeting scheduled for June 15, 2015.
- Anticipate June 1, 2015 Notice-to-Proceed.
- Mobilization Mid July 2015
- Cutoff Wall Scheduled to be complete by end of 2015
- Remaining work to be complete May 1,2016

**Construction Photos**

**Bid Package 3 – Wood River – Weir 4 in Progress**

**Bid Package 3 – Wood River – Blanket Drain 2 In Progress**

**Bid Package 4 – MESD at Conoco Phillips – Site 09 Random Fill over Force Mains**

**Bid Package 6 – Prairie Du Pont/Fish Lake – Clay Cap Nearing Completion**

**Bid Package 6 – Prairie Du Pont/Fish Lake – RW Collector System Backfill**

Mr. Conrad asked for a motion to accept Mr. Martin’s progress report. A motion was made by Mr. Long with a second by Mr. Brinkman to accept the Amec Foster Wheeler progress report. Mr. Maher 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
- Mr. Maher – Aye
- Mr. Motil – absent
- Mr. Parks – absent
- Mr. Pennekamp – Aye

The motion was approved unanimously.

**Change Orders - BP #6**

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



He explained that board approval is required on all change orders if the total of all change orders on a project exceed ten percent of a project’s original cost, which is the case for Bid Package 6.

Mr. Omvig provided the following explanation for the two change orders on the agenda.

**Bid Package 06 – Change Order 22**

**RCP at Pulcher’s Driveway \$2,066.10**

Raise the RCP and two Flared End Sections at Pulcher’s Driveway to a flat elevation of 405.00 to ensure drainage from the swale on the north end of his driveway to the south.

**Bid Package 06 – Change Order 11 Modification**

**Increase in Relief Well Quantities \$81,005.79**

Bid package 6 included Pilot Hole Drilling as a contractor responsibility and Relief Well Design was completed after the Pilot Holes were drilled. This change order is to accommodate the actual quantity adjustments for relief well construction and for additional pump testing for RW-18X and RW-200X.

<b>Summary of Relief Well Quantity Adjustments</b>			
	<b>Type “D” 8 inch</b>	<b>Type “D” 10 inch</b>	<b>Type “T” 10 inch</b>
<b>Net Increase</b>	<b>33.5</b>	<b>2</b>	<b>79.6</b>
<b>Contract Amount</b>	<b>1648.5</b>	<b>151.5</b>	<b>933.5</b>
<b>Percent adjustment</b>	<b>2.03%</b>	<b>1.32%</b>	<b>8.53%</b>

Mr. Etwert requested that the Chief Supervisor be authorized to approve BP #6 - Change Order 22 – RCP at Pulcher’s Driveway for \$2,066.10, and Change Order 11 Modification - Increase in Relief Well Quantities for \$81,005.79; for a total not to exceed \$83,071.89.

Mr. Conrad asked for a motion to accept the recommendation on the change orders. A motion was made by Mr. Long with a second by Mr. Maher to authorize the Chief Supervisor to approve BP #6 - Change Order 22 – RCP at Pulcher’s Driveway for \$2,066.10, and Change Order 11 Modification - Increase in Relief Well Quantities for \$81,005.79; for a total not to exceed \$83,071.89.

Mr. Maher 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
- Mr. Maher – Aye

Mr. Motil – absent  
Mr. Parks – absent  
Mr. Pennekamp – Aye

The motion was approved unanimously.

### **Acceptance of Wood River Authorized Level Project Summary Report**

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

He explained, 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 Wood River Levee System. This was included in the agenda packet and a Project Cost Estimate was provided this morning.

Summary Reports and Cost Estimates for the Metro East Sanitary District Levee and the Prairie Du Pont/Fish Lake Levee will be developed and presented at a later date under separate covers.

The segmenting of the reports is due to progress of the Integral Determination Reports (IDR) that the Corps is preparing and the complexity of the remaining improvements in each levee district.

The Corp provided AMEC a list of decision segments (330 foot lengths) where they had evaluated deficiencies in the levee. AMEC reviewed the segments and based on constructability, land acquisition, land use, and costs, AMEC identified those projects that were most reasonable to go forward with.

The Corps is currently reviewing those decision segments where the Council's 100-Year Projects are being constructed to determine if there are any positive impacts on the 500-Year Level.

The Corps has an estimated \$52 million of work identified in the draft Wood River IDR, with \$12.9 million worth of work eligible for work-in-kind credit. The Council does have some cash contributions which need to be verified.

The intent is that the Council would do work-in-kind, take advantage of previous cash contributions, and then the Corps could do other improvements down the road. The work-in-kind limit amount is key, since any work that Council does up to the \$12.9 million is work-in-kind eligible. Any amount over, can still be funded by the Council, but it would be considered a non sponsor type improvement and be subject to a 408 review. The Corps would not be reviewing the project as an element of the Authorized Level, but only to determine if it was injurious to the existing levee system. The time consuming 408 review procedure should be avoided, if possible.

AMEC's recommendation is that the Council proceed with subsurface investigations and design activities for relief wells, seepage berms, fill, and pump stations. The Corps would be left with the Deep Cutoff Wall and the extension of the Shallow Cutoff Wall, both of those projects are more specialty types of projects.

The work has been broken down into three distinct bid packages to provide the Council with flexibility. If the Corps would obtain sufficient funding in the future and it would make financial sense, the Council would have the option to take work-in-kind credit for the BP 7B Project.

The schedule provided was based on approval of the AMEC recommendation and AMEC coming back to the Council in July with a detailed cost estimate for design and field investigation and move forward with field investigation in late July or early August. However, the Corps has informed us that a drilling program plan is required and the estimated approval process takes an estimated twelve weeks. Therefore, to save time, it is requested that today, consideration be given to using available funding from the Authorize Level Planning Work Order, to develop a drilling program plan, which would provide a four week head start.

There is a risk moving forward, but it is felt to be minimal. Until the finally approval of the IDR is received, there is no guarantee of work-in-kind credit towards the USACE Authorized Level Project. Risk decreases substantially after the IDR approval, and the risk of not receiving work-in-kind credit is eliminated after the revised Project Partnership Agreement (PPA) is approved, which will take approximately a year to complete after the approval of the IDR. The risk is being managed by drilling only on reaches that are not being reevaluated by USACE at this time.

Next, Mr. Omvig discussed the Project Cost Estimate document which is based on conceptual plans. The Amec Foster Wheeler's cost estimate is significantly higher at approximately \$26 million while the Corps estimate, based on their LRR level of analysis, is roughly \$10.5 million. Amec Foster Wheeler included conveyance systems to pump stations, land/easement/rights of way acquisition, wetland mitigation, cultural/archeological impacts, hazardous waste removal, and contingencies of ten to twenty percent on certain cost line items to their estimate.

Mr. Martin summarized the approach that Amec Foster Wheeler was proposing and requested permission to go ahead and work on the exploration plan and prepare a cost estimate to do the design for the construction of the elements presented today and bring that design work order to the Board next month. This would confirm the Board's intent to work on the Authorized Level improvements.

Mr. Omvig then referred to the flow charts in the back of the Wood River Authorized Level Project Summary Report which identifies responsibilities. He stressed the effort taking place between Mr. Etwert, Amec Foster Wheeler and the Corps to develop how the process will actually work, in order, to comply with the Corps Authorized Level Plan.

Mr. Conrad asked for a motion to accept the Wood River Authorized Level Project Summary Report and Project Cost Estimate. A motion was made by Mr. Maher, seconded by Mr. Pennekamp, to accept the Wood River Authorized Level Project Summary Report and Project Cost Estimate. Mr. Maher 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  
Mr. Maher – Aye  
Mr. Motil – absent  
Mr. Parks – absent  
Mr. Pennekamp – Aye

The motion was approved unanimously.

There was a brief discussion concerning the utilization of available funds from the Authorized Level of Protection Planning and Analysis Work Order to develop the drilling program plan for the Wood River projects as required by the Corps, and therefore, eventually allowing drilling to begin four weeks earlier.

Mr. Conrad asked for a motion to revise the Amec Foster Wheeler Work Order 12 - USACE Authorized Level of Protection Planning and Analysis, to include the development of a drilling program plan for the Wood River projects at no additional cost. A motion was made by Mr. Polka, seconded by Mr. Pennekamp, to revise the Amec Foster Wheeler Work Order 12 - USACE Authorized Level of Protection Planning and Analysis, to include the development of a drilling program plan for the Wood River projects at no additional cost. Mr. Maher 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  
Mr. Maher – Aye  
Mr. Motil – absent  
Mr. Parks – absent  
Mr. Pennekamp – Aye

The motion was approved unanimously

### **Bond Sale Resolution**

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

Mr. Etwert indicated, as mentioned in the Program Status Report, that Mr. Jeff White of Columbia Capital Management was in attendance to present a proposed Bond Sale Resolution (a copy was included in the agenda package) for the Board's consideration

Mr. White presented the Bond Sale Resolution which formalizes the Board's discussions over the last few meetings and allows Columbia Capital to proceed in earnest towards a bond issue to provide funding for 500-Year Level improvements.

This starts the process rolling and allows for a request for proposals for underwriting services to be issued, discussions with rating agencies, and coordination with the Southwestern Illinois Development Authority (SWIDA).

He indicated the schedule would be for him to be back in August with a request to approve an underwriting team and then either October or November to officially approve the bond sale.

Today's action simply authorizes the bond issuance process to begin.

Mr. Conrad asked for a motion to approve the Bond Sale Resolution presented by Columbia Capital. A motion was made by Mr. Pennekamp with a second by Mr. Long to approve the Bond Sale Resolution presented by Columbia Capital.

Mr. Maher 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
- Mr. Maher – Aye
- Mr. Motil – absent
- Mr. Parks – absent
- Mr. Pennekamp – Aye

The motion was approved unanimously.

### **Corps of Engineers Update**

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

Ms. Kelsey then used a PowerPoint® presentation to provide an update on the project status of the Metro East Projects as follows:

She first discussed the Corps work with Amec Foster Wheeler and the Council on the development of an implementation plan, initially for Wood River. She then provided an overview of the remaining Design Deficiency Work in the Wood River Levee System, including the construction of the upper cutoff wall, remaining portion of the lower cutoff wall, relief wells, pump stations, and seepage berm.

Next she discussed the East St. Louis Levee System Design Deficiency Work and gave a high level look at the work that remains which includes seepage berms, relief wells, and cutoff walls. She noted that the Chain of Rocks area is complete and provides the Authorized Level of protection.

Design Deficiency Work in Prairie Du Pont/Fish Lake Levee System was identified next with the majority of the remaining work being seepage berms and relief wells.

She then mentioned the additional information (Col. Mitchell's letter of June 16, 2015), which has come forth, regarding the use of a PLA in construction contracts, and reminded everyone that the Corps has the Upper Wood River Shallow Cutoff Wall package ready to go forward. This would require a non-federal cost share of approximately one million dollars.

There was a brief discussion regarding remaining available Corps funds to do the Wood River projects discussed earlier in the meeting, if the Shallow Cutoff Wall was constructed. She indicated carry over funds would be reduced, but there would be funds remaining.

She discussed the rising river conditions and the opening of the Corps emergency operations center on Thursday June 18th. Teams will be readying to flood fight when necessary. The Corps also has implemented the interim operations plan of risk reduction measures along the Mel Price area.

She briefly discussed the IDR approval process and indicated that the Wood River and East St. Louis IDRs are ready to go forward for review but cannot be submitted to Division until the implementation guidelines for WRRDA Section 1018 (enacted June 2014) are issued. Guidelines were originally estimated to be issued by June 2015, however, at this time there is no expected date of issuance.

There was a discussion regarding Col. Mitchel's recent letter and how long it might take to draft the evaluation criteria that would give weight to proposals that include PLAs. It was indicated that details have to be worked out on the internal side, but it was thought that the criteria would be developed in the coming weeks. It was noted, to insure the integrity of the contractor solicitation system, some information might be prevented from being shared.

There was a brief discussion concerning a master river plan meeting scheduled to be held in Quincy, Illinois the following week. The Corps indicated that was another District but they would get back with information.

Mr. Parks arrived during the presentation.

A motion was made by Mr. Pennekamp with a second by Mr. Brinkman to receive the Corps report. Mr. Maher 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  
Mr. Maher - Aye  
Mr. Motil - absent  
Mr. Parks - Aye  
Mr. Pennekamp - Aye

The motion was approved unanimously.

### **Public Comment**

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

Mr. Conrad asked to convene an executive session to address litigation.

Mr. Long made a motion at 8:20 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. Maher. Mr. Etwert indicated that all Board members and County Chairs should be present, along with David Human, Ken Slavens, Jon Omvig, Jay Martin, and Joe Parente. Mr. Maher 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  
Mr. Maher - Aye  
Mr. Motil – absent  
Mr. Parks – Aye  
Mr. Pennekamp – Aye

The motion was approved unanimously.

Mr. Long made a motion to adjourn the executive session at 8:35 am and to go back into public session. Mr. Maher seconded the motion. Mr. Maher 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  
Mr. Maher – Aye  
Mr. Motil – absent  
Mr. Parks – Aye  
Mr. Pennekamp – Aye

Mr. Conrad called the meeting to order.

### **Other Business**

There was no other business.

### **Adjournment**

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

Respectfully submitted,

Dan Maher,  
Secretary/Treasurer, Board of Directors





DEPARTMENT OF THE ARMY  
ST. LOUIS DISTRICT, CORPS OF ENGINEERS  
1222 SPRUCE STREET  
ST. LOUIS MO63103-2833

JUN 16 2015

Programs and Project Management Division  
Project Development Branch

Mr. Charles Ewert  
Chief Supervisor of Construction and the Works  
Southwestern Illinois Flood Prevention District Council  
104 United Drive  
Collinsville, Illinois 62234

Dear Mr. Ewert:

As expressed in prior correspondence, the U.S. Army Corps of Engineers (USACE) continues to work collaboratively with non-federal partners to address the need to restore the Metro East levee systems to the authorized level of protection and reduce flooding risk to the local community.

USACE has recently determined that under criteria established under the Federal Acquisition Regulation (FAR), there is no basis to mandate the use of Project Labor Agreements (PLAs) for the Metro East Levee projects. However, PLAs may nonetheless contribute to project cost savings and efficiency. In an effort to move the Metro East Levee projects forward, and to provide industry the maximum flexibility to propose competitive bids, USACE will revise the solicitation for construction on these projects to accommodate those proposals that include PLAs where such proposals can demonstrate economy and efficiency. To this end, the Army will utilize a different contracting strategy to facilitate the consideration of PLAs in the Metro East levee projects. As opposed to a Lowest Price, Technically Acceptable (LPTA) evaluation in which proposals are evaluated by technical criteria and cost, the Army will employ a best value tradeoff selection on these projects. Our intent is to draft evaluation criteria that will give weight to proposals that include PLAs with demonstrated ability to achieve economy and efficiency to the government. Under this approach, proposals that include PLAs and demonstrate that they produce labor management stability and cost effectiveness will have the opportunity to receive evaluation credit.

This approach is consistent with the Government's prior determination that mandating the use of PLAs is not warranted under FAR based criteria in this project. Vendor proposals that do not include PLAs will still be considered appropriately.

My priority continues to be focused on reducing the flood risk by restoring the Metro East Levees so they can consistently operate as they were originally authorized. The district is presented a unique opportunity to renew our joint partnership and take actions toward reducing flood risk for the Metro East Levee communities. However, we cannot move

forward with these projects without the sponsor's cost share portion. Given this revised approach, I request that you provide the necessary sponsor cost share funds to construct this feature of work.

Sincerely,

A handwritten signature in black ink, appearing to read "Anthony P. Mitchell". The signature is fluid and cursive, with a large initial "A" and "M".

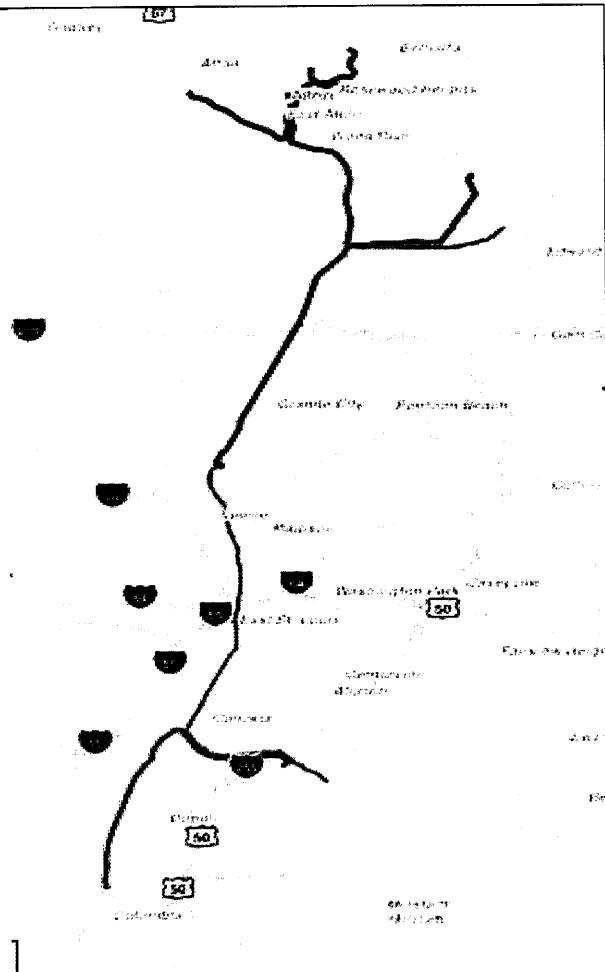
Anthony P. Mitchell  
Colonel, U.S. Army  
District Commander



## Progress Report June 17, 2015

### Southwestern Illinois Levee Systems

By Jay Martin



## Construction Status



- ▶ Bid Package 2B – WR/MESD/PdP Pump Stations
  - ▶ The planned construction portion of this project is nearly complete. Retainage will not be fully released until establishment of turf
  - ▶ Amec Foster Wheeler preparing documents for USACE.
  
- ▶ Bid Package 2C – Site 12 Pump Station Force Mains (MESD)
  - ▶ Work on this site will not begin until October 15 to comply with 33 U.S.C 408 (Section 408 alteration permit).
  - ▶ The NTP was issued in March 5, 2015.
  - ▶ The contractor is preparing submittals



## Construction Status

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

- ▶ Critical Delay: High river levels restricting excavation/drilling for 3+ weeks
- ▶ Union Pacific RR land acquisition complete. Contractor issued NTP and is now in the process of acquiring permits
- ▶ Design revisions to Blanket Drain 4 and Random Fill Area 1 pending. Construction cost impacts will be submitted when available
- ▶ Piezometer installation delayed - 43 of 51 piezometers complete.
- ▶ Relief well drilling delayed - 10 of 85 relief wells have been completed
- ▶ Pilot hole drilling delayed at IL RT3 and Hawthorne
- ▶ Blanket Drain 2 ≈ 20% Complete
- ▶ Blanket Drain 7 ≈ 50% Complete
- ▶ Weir 4 ≈ 30% Complete
- ▶ Blanket Drain 3, Blanket Drain 5, and Indian Creek substantially complete. Punch list work being completed



## Construction Status

---

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

- ▶ Relief well drilling complete
- ▶ Relief well collector system has failed deflection results in the 24 inch piping. Amec reviewing.
- ▶ Pump Station installation in progress and approximately 95% complete.
- ▶ Clay Cap and Random Fill work will resume June/July

### ▶ Bid Package 5 – MESD Seepage Improvements

- ▶ Relief well drilling complete
- ▶ Relief well collector systems has failed deflection results in portions of the piping. Amec reviewing.
- ▶ Clay Cap and Random Fill work will begin in July
- ▶ Sluice Gate rehabilitation at MoPAC scheduled for completion in August 2015



## Construction Status

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- ▶ **Bid Package 6 – Prairie du Pont / Fish Lake Seepage Improvements**
  - ▶ Relief well drilling complete
  - ▶ Piezometer installation continues - 15 of 16 PZs complete.
  - ▶ Relief well collector system ≈ 85% Complete
  - ▶ Seepage Berms ≈ 90% Complete
  - ▶ Clay Caps ≈ 90% Complete

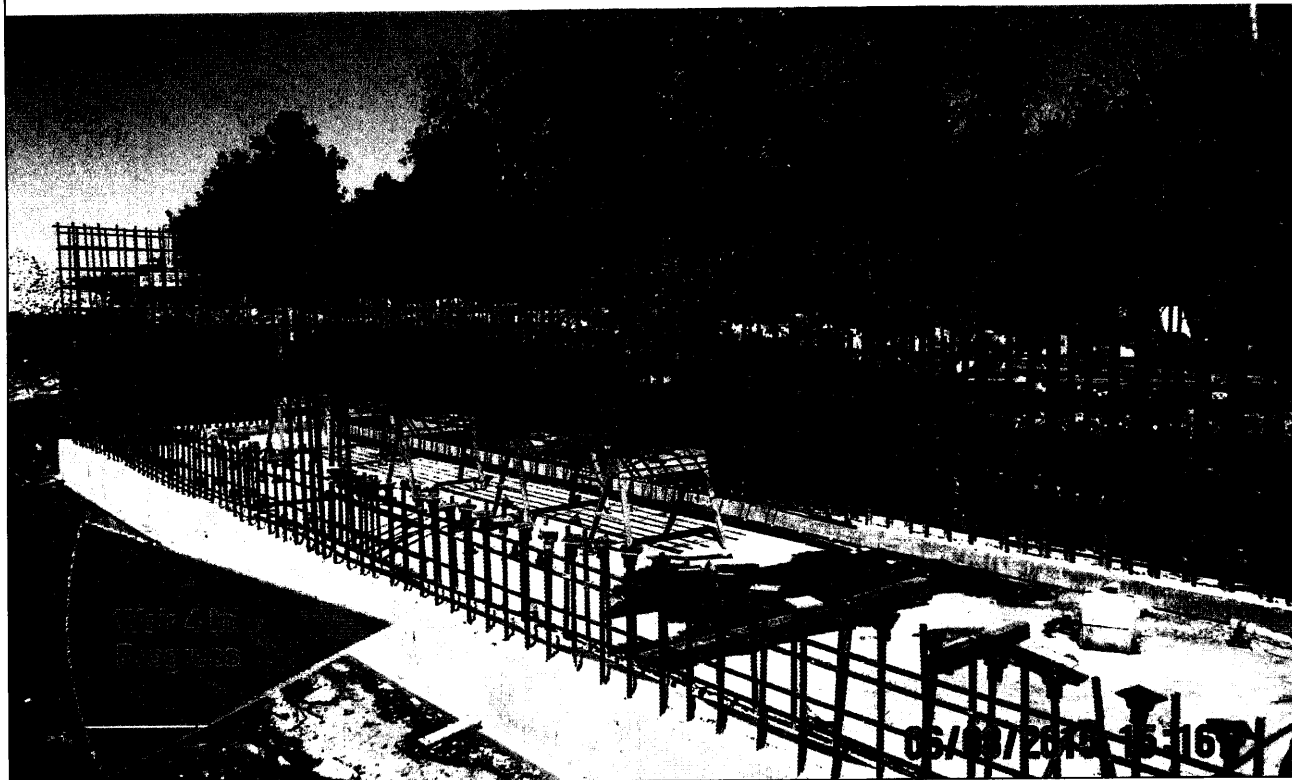


## Construction Status

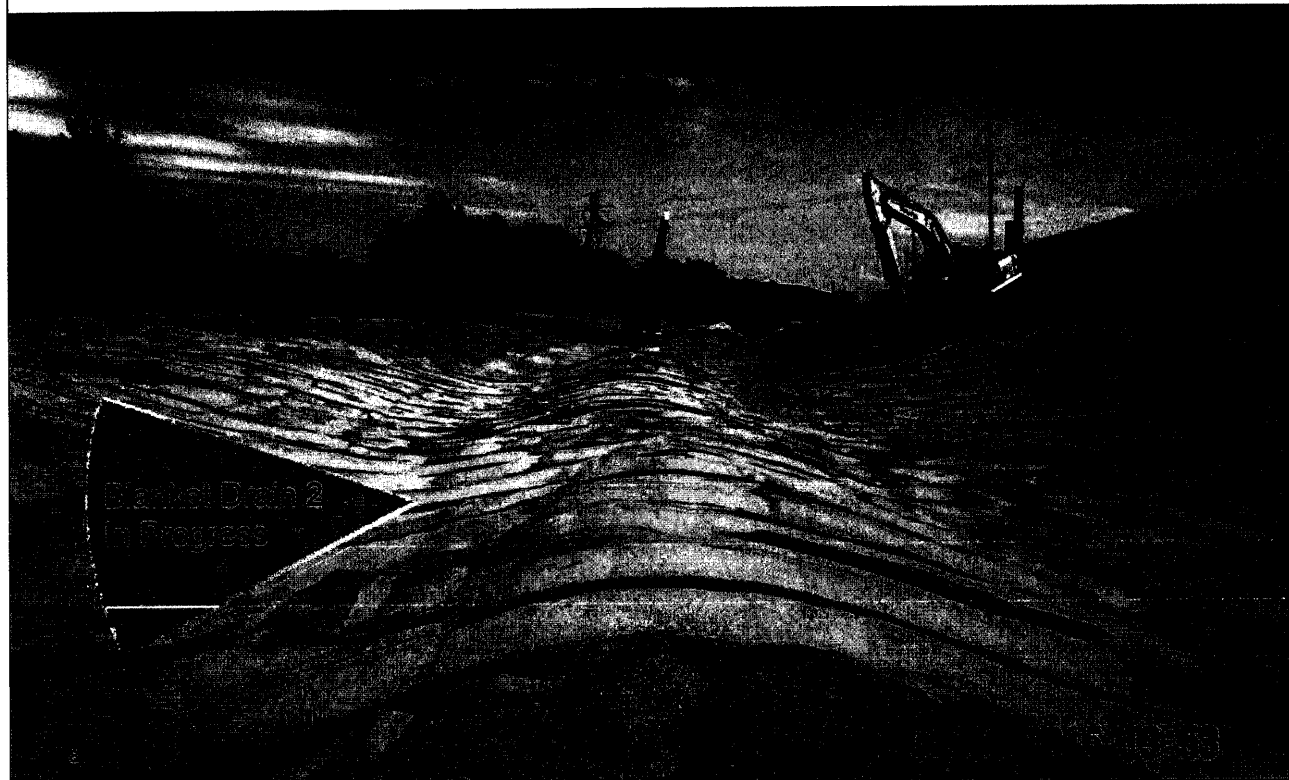
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- ▶ **Bid Package 7A – Wood River Upper (Shallow) Cutoff Wall**
  - ▶ This project is substantially complete. Retainage has not been fully released
  - ▶ Contractor is completing remaining punch list items
  
- ▶ **Bid Package 7B – Wood River Lower (Deep) Cutoff Wall**
  - ▶ TREVIICOS received Notice-to-Proceed June 9, 2015
  - ▶ Pre-Construction Meeting scheduled for June 15, 2015
  - ▶ Mobilization Mid July 2015
  - ▶ Cutoff Wall Scheduled to be complete by end of 2015
  - ▶ Remaining work to be complete May 1, 2016

# Bid Package 3 – Wood River



# Bid Package 3 – Wood River

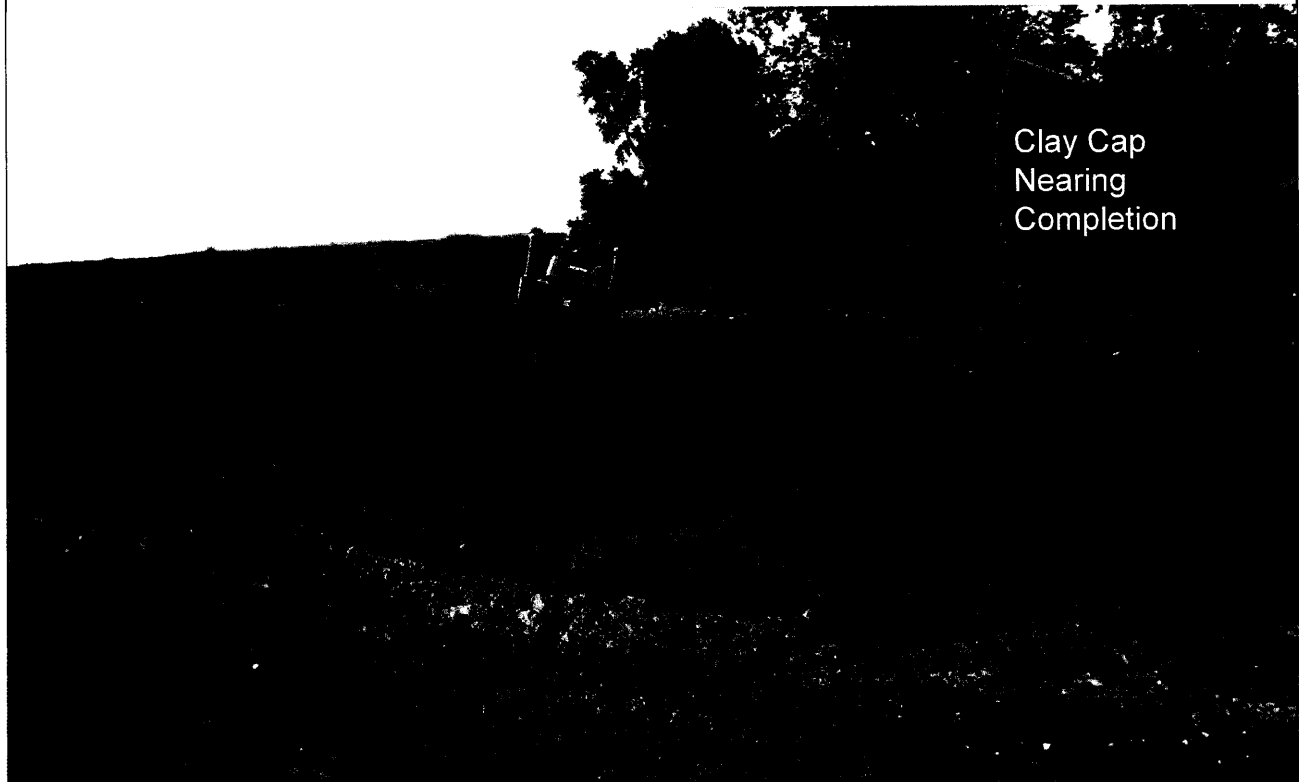


# Bid Package 4 – MESD at Conoco Phillips



Site 09  
Random Fill  
over Force  
Mains

# Bid Package 6 – Prairie du Pont / Fish Lake

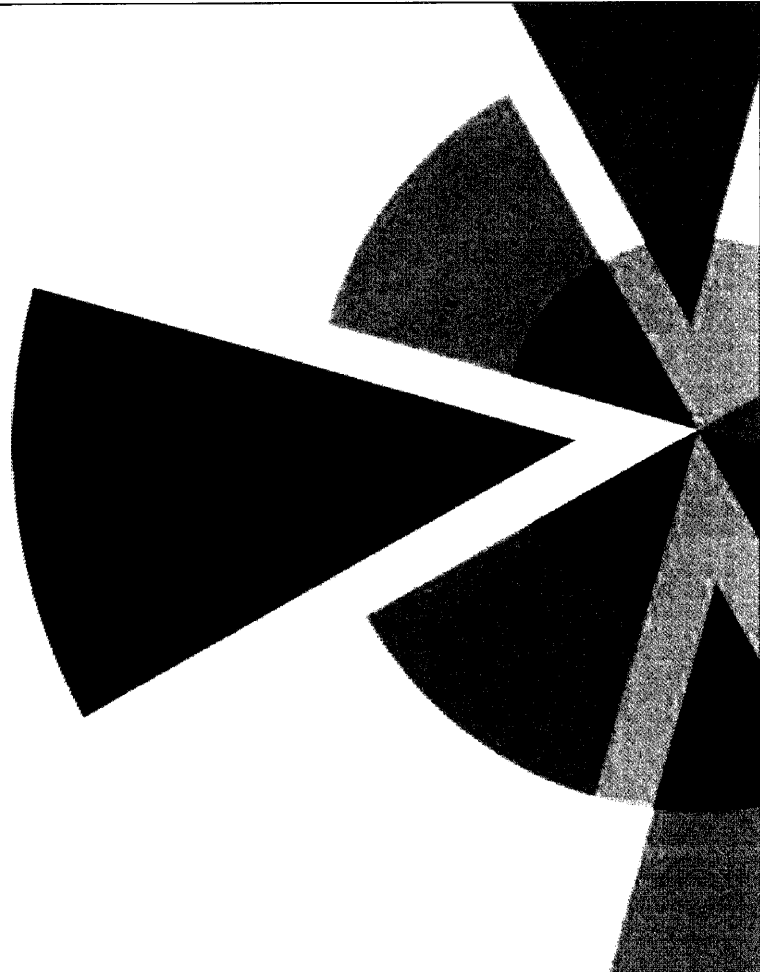


Clay Cap  
Nearing  
Completion

# Bid Package 6 – Prairie du Pont / Fish Lake



Questions?





**RESOLUTION  
OF THE  
SOUTHWESTERN ILLINOIS  
FLOOD PREVENTION DISTRICT COUNCIL**

**WHEREAS**, the Southwestern Illinois Flood Prevention District Council, an Illinois Flood Prevention District formed pursuant to 70 ILCS 750 (the "FPD"), is a governmental entity duly created and existing under the laws of the State of Illinois pursuant to an intergovernmental cooperation agreement among the Madison County Flood Prevention District, Madison County, Illinois (the "Madison County District"), the St. Clair County Flood Prevention District, St. Clair County, Illinois (the "St. Clair County District") and the Monroe County Flood Prevention District, Monroe County, Illinois (the "Monroe County District") and, collectively with the Madison County District and the St. Clair County District, the "Districts"; and

**WHEREAS**, the FPD was created to undertake the construction, financing management, design and oversight of the levee system located in Southwestern Illinois protecting the area called the American Bottom; and

**WHEREAS**, Board of Directors of the FPD (the "Board") has directed the FPD to pursue improvement of the levee system to cause as much of the levee system as possible to provide protection against flooding at a 500-year probability level (the "Project"); and

**WHEREAS**, the members of the Board (the "Directors") hereby find and determine that it is necessary, advisable and in the best interest of the Districts, the FPD and the residents and landowners of the areas protected by the FPD's levee system and the FPD desires to authorize the administration, officers, employees and agents of the FPD and the Districts to take certain actions in connection with the proposed issuance and sale of bonds or other obligations to finance the Project as herein provided;

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL, AS FOLLOWS:**

**RESOLVED**, that the administration, officers, employees and agents of the FPD and the Districts are hereby authorized and directed to proceed with developing plans and specifications for the Project and to proceed with site preparation and other similar preliminary work in connection with the Project.

**RESOLVED FURTHER**, that the administration, officers, employees and agents of the FPD are hereby authorized and directed to proceed with developing a plan of financing for the costs of the Project through the issuance by the FPD of bonds or other obligations in one or more series (the "Local Bonds") payable from a pledge of the Flood Prevention District Revenues (as hereinafter defined), such pledge on a portion of such Local Bonds to be on a parity with the pledge securing the existing bonds secured by the Flood Prevention District Revenues and such pledge on a portion of such Local Bonds to be subordinate to the pledge securing the existing bonds. Southwestern Illinois Development Authority ("SWIDA") is expected to issue its bonds (the "SWIDA Bonds") and use the proceeds thereof to purchase the Local Bonds. "Flood Prevention District Revenues" means (i) the Flood Prevention District Retailers' Occupation Tax and the Flood Prevention District Service Occupation Tax imposed by Madison County, Illinois, St. Clair County, Illinois and Monroe County, Illinois pursuant to 70 ILCS 750/25 and (ii) any other revenues of the Districts and the FPD which are permitted to be used to pay debt service on the Local Bonds.

**RESOLVED FURTHER**, the Board hereby ratifies the selection of Columbia Capital Management, LLC, as the financial advisor to the FPD in connection with the financing and the selection of Thompson Coburn LLP as bond counsel and disclosure counsel in connection with the financing. The administration, officers, employees and agents of the FPD and the Districts are hereby authorized and directed to take such further action to proceed with such financing including selection of an underwriter in connection with the sale of the SWIDA Bonds using a request for proposals process (such selection to be subject to ratification by the Board of Directors), as well as the selection and employment of other transaction team members, including rating agencies, bank trustees and such other advisors to the FPD as are necessary to effect the transaction; provided, however, the Local Bonds shall not be issued and no contract for the sale of the Local Bonds shall be entered into without further authorization by the Board of Directors.

**RESOLVED FURTHER**, that the administration, officers, employees and agents of the FPD and the Districts are hereby authorized to contract with a bond insurance company for the issuance of a bond insurance policy guaranteeing the timely payment of the principal of and interest on the SWIDA Bonds.

**RESOLVED FURTHER**, that the FPD hereby authorizes the use of a preliminary official statement and an official statement setting forth information relating to the FPD, the District, the Project, the SWIDA Bonds and the Local Bonds in connection with the sale of the SWIDA Bonds.


**RESOLVED FURTHER**, that the FPD shall, and the administration, officers, employees and agents of the FPD are hereby authorized and directed to, take such further action, and execute such other documents, certificates and instruments as may be necessary or desirable to carry out and comply with the intent of this Resolution.

**RESOLVED FURTHER**, that all actions heretofore or hereinafter taken by the Directors or the FPD and its representatives in connection with, or with respect to the matters referred to in the foregoing resolutions are hereby confirmed, ratified and approved in all respects.

**ADOPTED** by the Board of Directors this 17 day of June, 2015.

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

Attest:

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

# Wood River Authorized Level Project Summary Report

Preliminary Design Phase

Prepared for



Prepared by



**June 17, 2015**

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## 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).

The USACE requires a 35% local sponsor match of the total estimated engineering and construction costs. The Council and the Corps have executed a Memorandum of Understanding that will allow 30% of those costs to be applied through work-in-kind credits, pending the approval of an Integral Determination Report (IDR) and a revised Partnership Agreement (PPA) between the USACE and the FPD Council. Work-in-kind credits are applied when the local sponsor performs work that would otherwise be part of the Authorized Level Project. Work performed by the local sponsor that is not part of the USACE Authorized Level Project is not eligible for work-in-kind credit. To date, the only project eligible for work-in-kind credit that is part of the Southwestern Illinois Levee Certification Design projects (FEMA certification projects) is Bid Package 7B – Lower Cutoff Wall, which is the deep cutoff wall along the Lower Wood River Levee segment.

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

### Wood River Levee System

This report covers the Wood River Levee System only. Summary Reports for the Metro East Sanitary District Levee and Prairie du Pont/Fish Lake Levee will be submitted at a later date under a separate cover. All of the vulnerable reaches along the Wood River Levee System are located along the Lower Wood River Levee, except for one reach along the Upper Wood River Levee, just south of the Alton Marina and Clark Bridge; along the Upper Wood River Levee the USACE has planned to build a shallow cutoff wall, which will be an extension of the shallow cutoff wall constructed as part of the FPD Council's Bid Package 7A, which was completed in Spring, 2015. The East Fork and West Fork levees in the Wood River Levee System do not require any improvements to protect against the Authorized Level Flood Event.

### USACE Authorized Level Project Decision Segments

The USACE St. Louis District has provided Amec Foster Wheeler and the FPD Council a list of decision segments that require improvements before those segments of levee can adequately protect against the Authorized Level Flood Event. A decision segment is a length of levee, which typically has a length of 330 feet (or some multiple of 330 feet, such as 660 feet). The USACE split the entire levee into individual decision segments to analyze each segment of levee with the available subsurface (boring) information; borings were conducted generally every 330 feet along the entire Wood River Levee System. After each decision segment was evaluated for protection against underseepage, 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; the USACE Authorized Level Project does not include any blanket drains, which was an underseepage control implemented by the Amec Foster Wheeler team for protection against the 100-year FEMA flood event in the Wood River Levee System. Decisions about underseepage improvements were based on factors such as constructability, land use, and cost. Table 1 lists the decision segments provided by the USACE St. Louis District. Each decision segment was

evaluated by the USACE as part of the *Wood River Levee System Limited Reevaluation Report, Design Deficiency Corrections, Wood River Drainage and Levee District, Madison County, IL*, approved August 31, 2011 (The LRR). The USACE developed the rankings in Table 1, based on their Factor of Safety (FS) against failure at the Authorized Level Flood Event. It is important to point out that at the time the LRR was completed, none of the FPD Council's FEMA Improvements were installed; therefore, the USACE has noted which reaches have had work done by the FPD Council and Amec Foster Wheeler subsequent to the initial underseepage analysis as part of the LRR in 2011. Currently, the USACE St. Louis District is reevaluating the decision segments which have had improvements completed as part of the FPD Council's FEMA improvement projects, which the USACE designates as "AMEC Solution". Ideally, the extent of the improvements in those reaches would be reduced, or eliminated altogether, thus reducing the overall USACE Authorized Level cost estimate for engineering and construction. The USACE has indicated that they will be complete with this reevaluation in early August of 2015.

**Table 1 - Wood River Decision Segments**

<b>Table 1 - Wood River Decision Segments</b>							
<u>Abbreviations List:</u>							
AMEC: Amec Foster Wheeler / FPD Council				PS: Pump Station			
FS: Factor of Safety (higher is better, lower is more vulnerable)				RW: Relief Well(s)			
Designer Recommended Rank	FS Rank w/o AMEC	Levee Reach Station		Average FS with AMEC	Average FS w/o AMEC	USACE Recommended Plan	AMEC Solution
		From	To				
1*	2	151+50	188+50		0.43	Deep Cutoff Wall approximately 3970'	Deep Cutoff Wall and x RW
2	1	613+70	623+80	0.29	0.29	Fill in landside depression 1,010 linear feet	No New Features
3	3	133+65	151+50		0.44	14 RW @ 125' spacing Flow to existing PS	x RW - More than Corps Solution
4	4	530+50	530+50	N/A	N/A	New 20 cfs Pump Station	No New Features
5	5	551+00	556+05	0.63	0.63	8 RW at 92' to 110' spacing. Flow to New PS @ 530+50	No New Features
6	6	562+65	589+05		1.02	20 RW at 221' to 777' spacing. Flow to New PS at 530+50	Blanket Drain and Seepage Berm
7	7	123+75	127+05	1.05	1.05	3 RW @ 110' spacing. Flow to existing PS	No New Features
8	8	298+65	308+55		1.06	6 RW @ 85' to 165' spacing Flow to existing PS	x RW - More than Corps Solution
9	9	627+00	630+30	1.08	1.08	330 linear ft seepage berm 5' thick, 100' wide	No New Features

10	10	608+85	613+70	1.13	1.13	485 linear feet seepage berm 5' thick, 100' wide	No New Features
11	11	592+35	605+55		1.18	8 RW at 120' to 164' spacing. Flow to New PS at 530+50	Blanket Drain and Seepage Berm
12	12	455+50	480+15	1.24	1.24	15 RW @ 110' to 660' and New PS. Flow to New PS	No New Features
13	13	430+65	455+50	1.29	1.29	17 RW @ 83' to 165' spacing and New PS. Flow to New PS	No New Features
14	14	486+75	493+35	1.45	1.45	3 RW at 330' spacing. Flow to existing PS	No New Features

\*USACE is currently evaluating incremental benefits of the 100-yr seepage control measures on the Authorized Level Project in the area of the phase 2 cutoff wall (LWR Station 170+00 to 188+50).

## 2. Recommended Plan

### Integral Determination Report (IDR)

On May 13, 2015, the FPD Council and Amec Foster Wheeler received a draft copy of the IDR (draft dated May 12, 2015). The USACE has estimated the total cost of the project to be \$51,890,000. The draft IDR estimated the total cost of work items proposed for work-in-kind credit at \$40,033,000. Of the \$40,033,000, \$12,932,000 is the total for work-in-kind credit that the FPD Council can perform as part of the Authorized Project. In other words, the FPD Council can fund engineering and construction for \$12,932,000 and supply an additional \$2,594,500 in cash to the USACE, and the requirements for the local match to the federal project will have been met. Note that the FPD Council already has a credit with the USACE for \$2,635,000 resulting from cash contributions previously made.

The draft IDR states that the FPD Council's deep cutoff wall project (Bid Package 7B – Lower Cutoff Wall), which is currently under construction, could fulfill the \$12,932,000 work-in-kind credit. If the Council opts to use this as their in-kind match, it would effectively prohibit the FPD Council from completing any additional work within the Wood River Levee District. This is due to the fact that in-kind improvements are reviewed against the Corps Authorized Project, while improvements that are not considered in-kind improvements would be reviewed through the 408 process to determine whether the improvements are injurious to the levee. Under this option, the USACE will complete the remainder of the work along the Wood River Levee System to protect against the Authorized Level flood event. After many discussions with the FPD Council staff, it was determined that this is not the best approach for the southwestern Illinois region. By conceding the remainder of the work to USACE, the region will wait for the USACE to receive funding to complete the remainder of the work.

### Recommendation

It is recommended that the FPD Council proceed with subsurface investigations and design activities for all relief wells, seepage berms, fill, and pump stations required for the USACE Authorized Level Project and postpone the decision to take work-in-kind credit for the deep cutoff wall project. Should federal funding become available in the near future, the FPD Council could utilize the work-in-kind credit at that time. The USACE estimated the total cost for engineering and construction of these improvements to be \$10,294,900. By the FPD Council taking on this work, it will be possible for the design and construction of those levee improvements to occur sooner than if the USACE were to perform the design and construction.

Should the FPD Council accept the recommended plan, the only work the USACE will have left to construct as part of the USACE Authorized Level Project are the shallow cutoff wall extension, and the deep cutoff wall extension; both of which require specialty contractors that will most likely be from out of state.

### Development of Bid Packages

Amec Foster Wheeler has reviewed the USACE decision segments and has determined that three construction bid packages will appropriately subdivide the decision segments. By splitting the work into three bid packages, the FPD Council has the ability to cancel any one bid package if the remaining bid package(s) approach the work-in-kind credit contribution limit of \$12,932,000. While there is nothing stopping the FPD Council from constructing improvements in excess of \$12,932,000, the USACE will require Section 408 approval for any work over and above the \$12,932,000 limit, whereas any work done as work-in-kind, as agreed upon in the final IDR, which is still in development, does not require Section 408 approval. The three bid packages have been named Bid Package 08, 09, and 10, a continuation of the numbering from Amec Foster Wheeler's Certification Design. The packages were divided by pump station, and tributary relief wells. The resultant bid packages are as follows:

- ▶ Bid Package 08 is comprised of four USACE decision segments and spans from Levee Station 123+75 to 455+50. This package includes the construction of a new pump station, between Stations 430+65 and 455+50, and 40 relief wells, 23 of which are tributary to existing a/an existing pump station(s).
- ▶ Bid Package 09 is comprised of two USACE decision segments and spans from Levee Station 493+35 to 480+15. This package includes the construction of a new pump station, between Stations 455+50 and 450+15, and 18 relief wells, 3 of which are tributary to existing a/an existing pump station(s).
- ▶ Bid Package 10 is comprised of seven USACE decision segments and spans from Levee Station 530+50 to 630+30. This package includes the construction of a new pump station, at Station 530+50, and 36 tributary relief wells. This package is the only one to also include seepage berm and fill areas. Two seepage berms, 5 feet thick and 100 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.

Exhibits are appended to this report which depict the approximate location of each improvement as part of the recommended plan; see Appendix 1.

### 3. Schedule

If the recommended plan discussed herein is accepted by the FPD Council, Amec Foster Wheeler will begin to prepare an estimate to begin field work immediately. The scope, schedule, fee for preliminary field work (drilling), and conceptual engineering and coordination with USACE, will be presented at the July 2015 FPD Council board meeting, assuming all costs are received by USACE in sufficient time.

AMEC Foster Wheeler, the FPD, and the USACE St. Louis District have worked together to develop the role and responsibilities for each party in the design process. Flow charts outlining the responsibilities through the design process are included as Attachment 2.



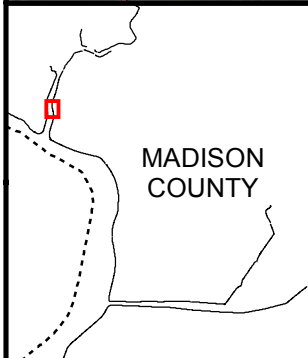
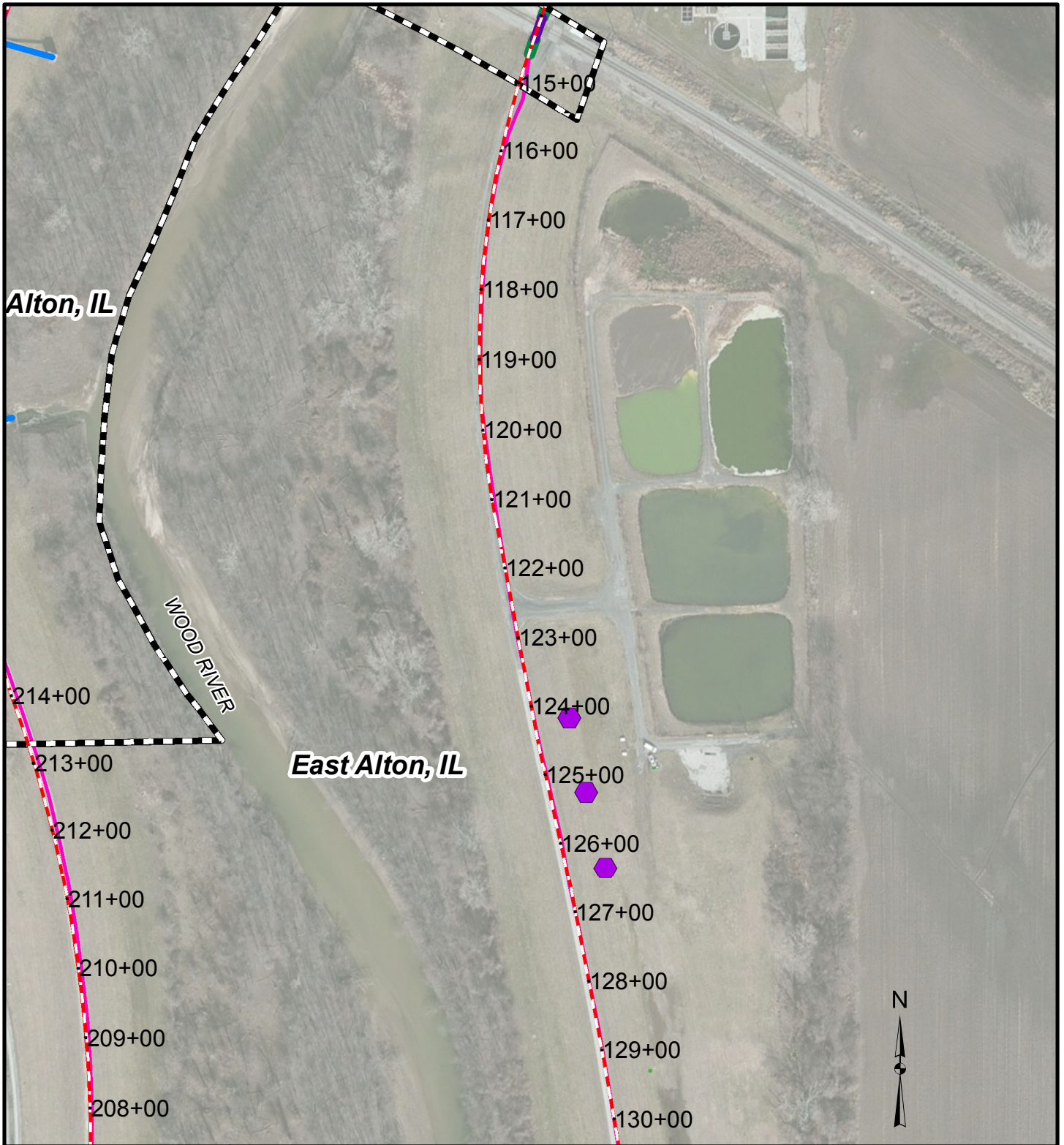
#### **4. Risk in Moving Forward**

Should the FPD Council accept this recommended plan and move forward with field investigation, conceptual engineering, and drilling of relief well pilot holes, the FPD Council should understand the risk associated in doing so. By beginning drilling prior to August 2015, the FPD Council runs the risk of drilling relief well pilot holes that might be eliminated as a result of the USACE's reevaluation of the FEMA improvements with respect to the USACE Authorized Level Project. This risk can be managed in such a way that all drilling occurs on reaches that are not being reevaluated by USACE at this time.

There is also risk associated with moving forward with these activities without an approved IDR and revised PPA. Risk decreases substantially after IDR approval, and risk of not receiving work-in-kind credit is eliminated after the revised PPA is approved. It is anticipated that a final IDR will be signed in September, 2015, and the amended PPA approximately 1 year later (September, 2016).

At this time, there is no indication that the IDR or PPA will not be approved, although the schedule for approval is a 'best estimate' by the USACE St. Louis District. Approval of the IDR is contingent on implementation guidance regarding the Water Resource Development Act of 2014 (WRDA 2014); the Federal Government has yet to hand down this guidance, and therefore, the IDR and subsequent PPA will be stalled until such time that the WRDA 2014 implementation guidance is received.

## Appendix 1 – Bid Package / Design Reach Exhibits








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

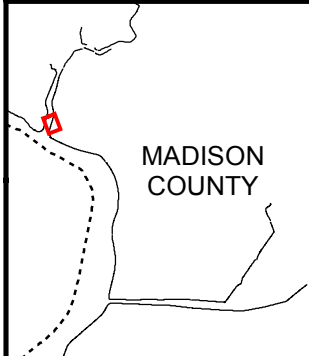
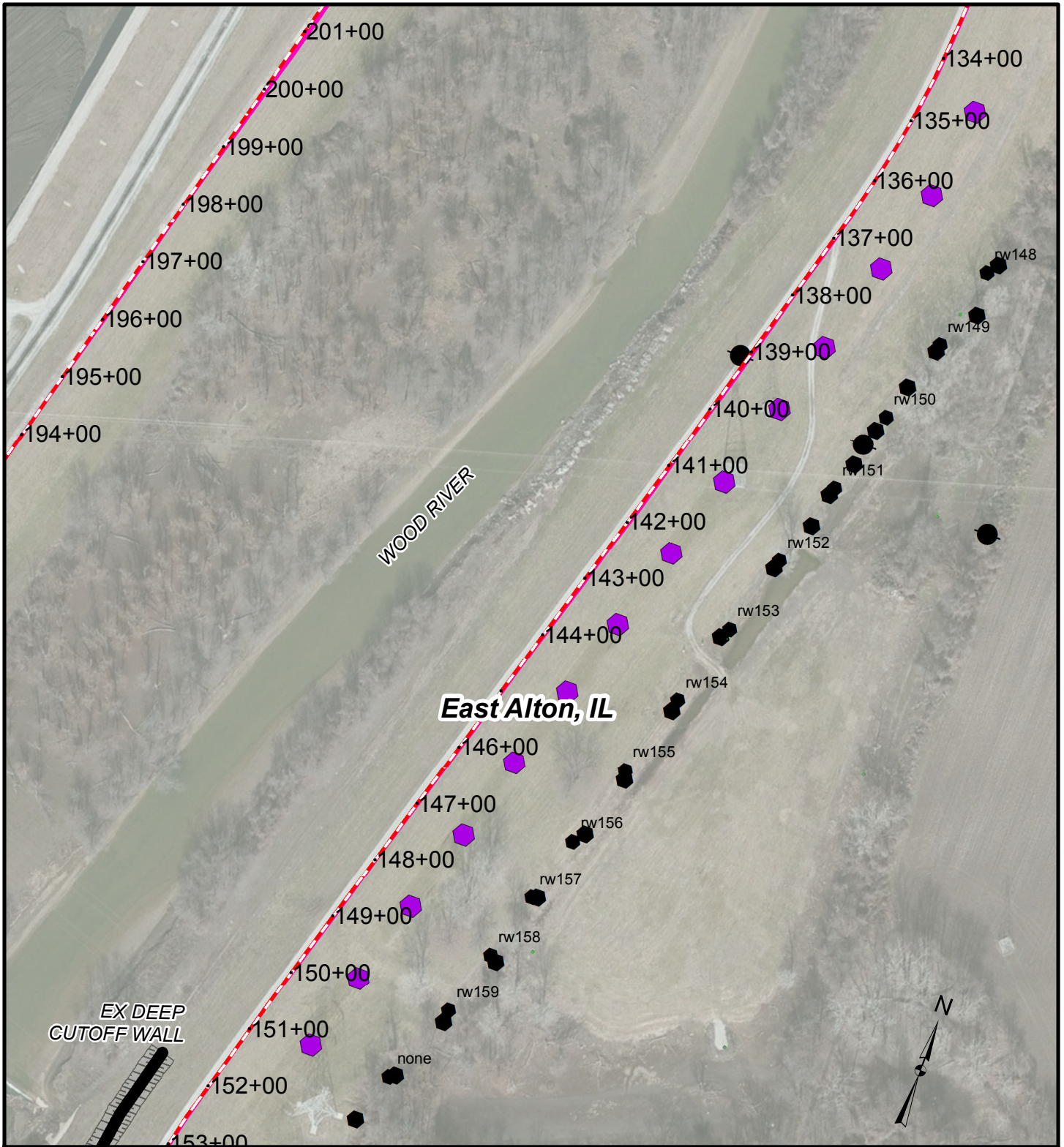
**BID PACKAGE 08**

**WOOD RIVER LEVEE SYSTEM**

DESIGN STA: 123+75 TO 127+05

**Legend**

-  New Pump Station
-  New Seepage Berm
-  New Fill Area
-  New Relief Well
-  Municipality Boundary



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

**BID PACKAGE 08**

**WOOD RIVER LEVEE SYSTEM**

DESIGN STA: 133+65 TO 151+50

06/16/2015 SHEET 2 OF 13

Legend	
	New Pump Station
	New Seepage Berm
	New Fill Area
	New Relief Well
	Municipality Boundary

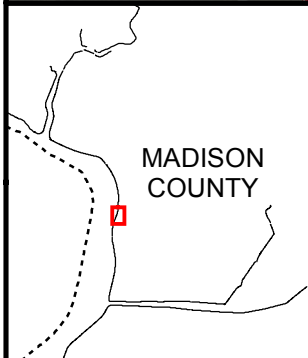


**Hartford, IL**

N OLD ST LOUIS AVE

EX HAWTHORNE  
PUMP STATION

W HAWTHORNE ST



MADISON  
COUNTY

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

**BID PACKAGE 08**






**WOOD RIVER LEVEE SYSTEM**

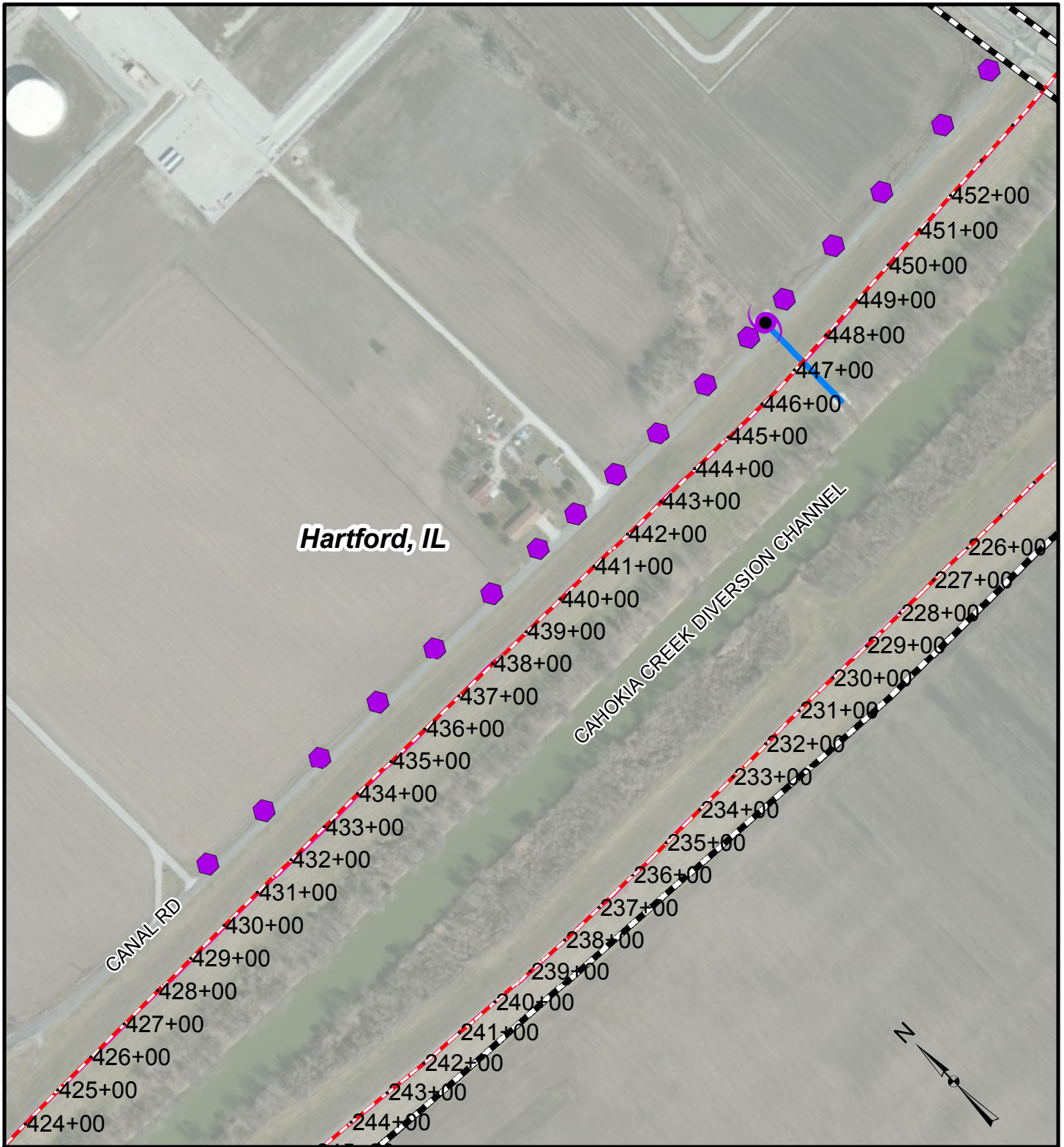
DESIGN STA: 298+65 TO 308+55

06/16/2015

SHEET 3 OF 13

**Legend**

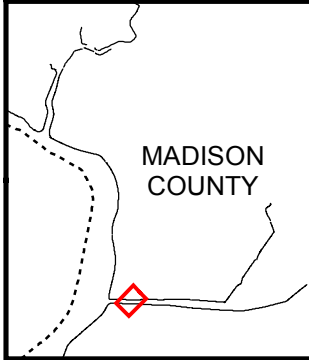
-  New Pump Station
-  New Seepage Berm
-  New Fill Area
-  New Relief Well
-  Municipality Boundary



**Hartford, IL**

CANAL RD

CAHOKIA CREEK DIVERSION CHANNEL



MADISON COUNTY






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

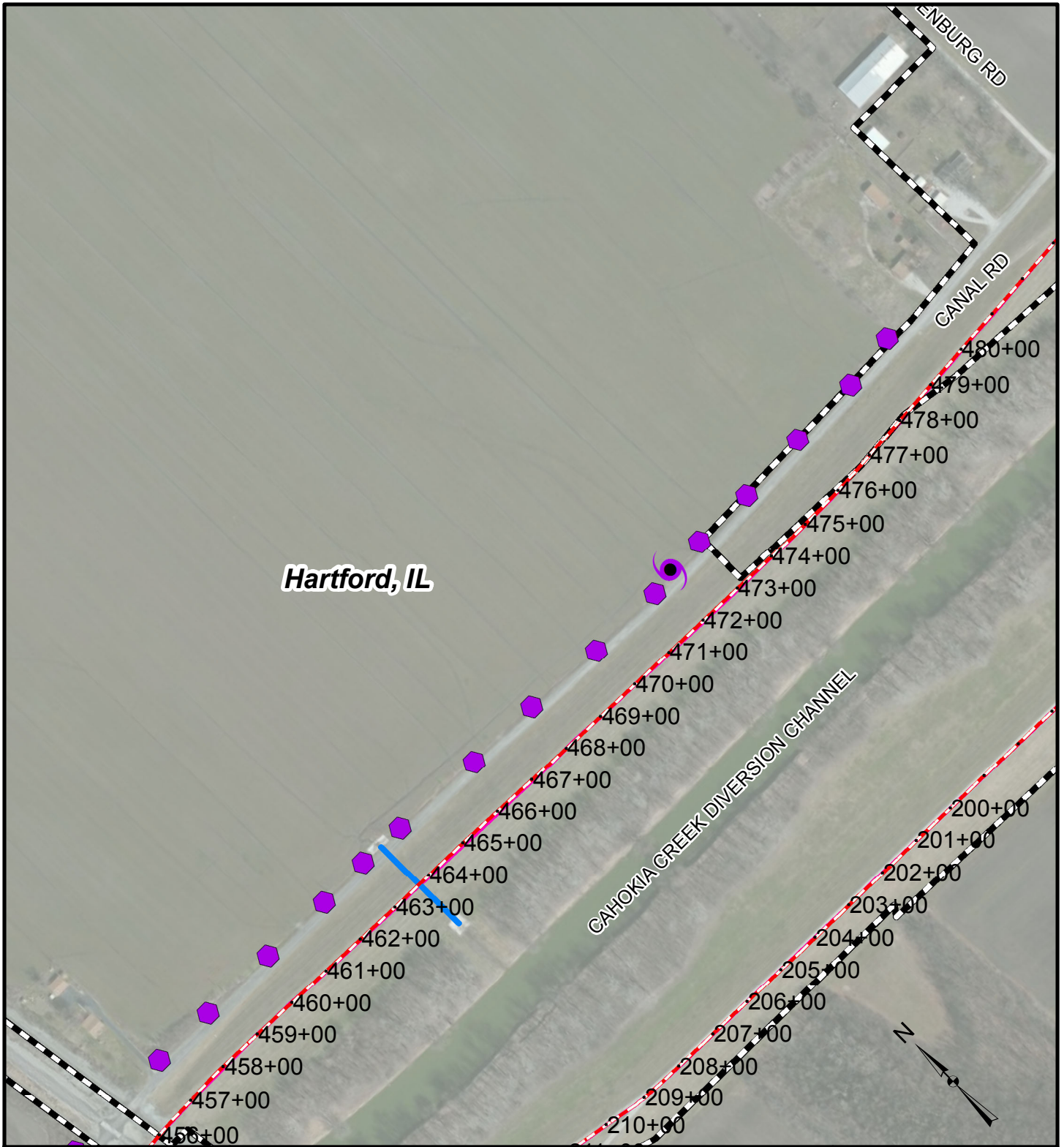
**BID PACKAGE 08**

**WOOD RIVER LEVEE SYSTEM**

DESIGN STA: 430+65 TO 455+50

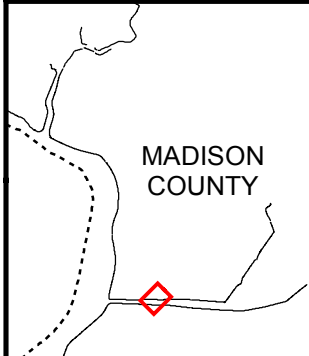
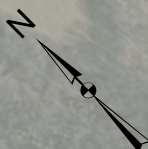
**Legend**

-  New Pump Station
-  New Seepage Berm
-  New Fill Area
-  New Relief Well
-  Municipality Boundary



**Hartford, IL**

CAHOKIA CREEK DIVERSION CHANNEL








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

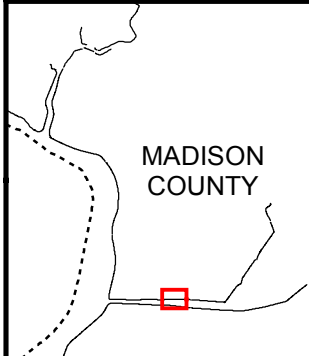
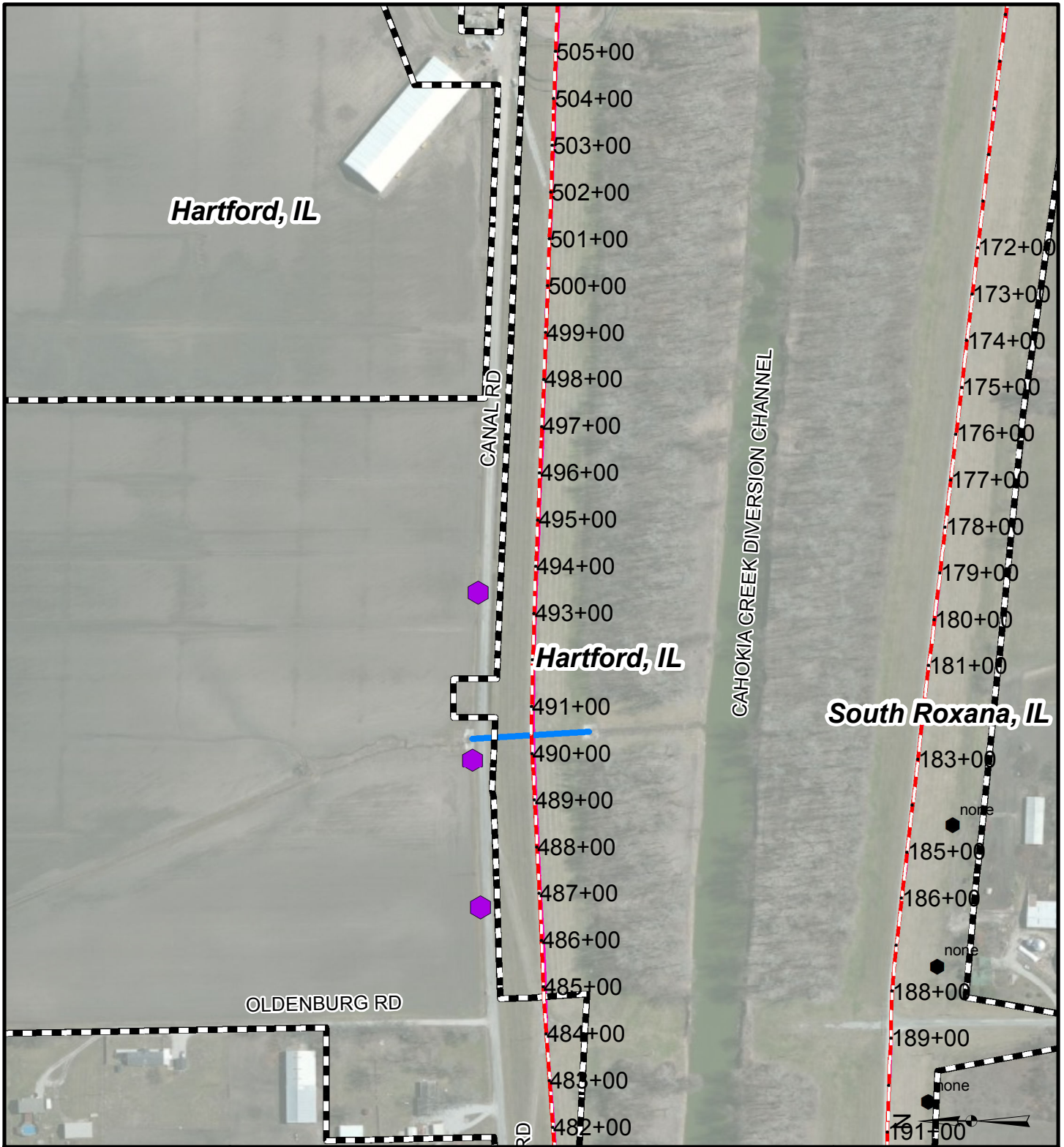
**BID PACKAGE 09**

**WOOD RIVER LEVEE SYSTEM**

DESIGN STA: 455+55 TO 480+15

**Legend**






-  New Pump Station
-  New Seepage Berm
-  New Fill Area
-  New Relief Well
-  Municipality Boundary



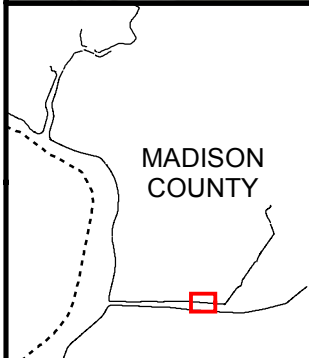
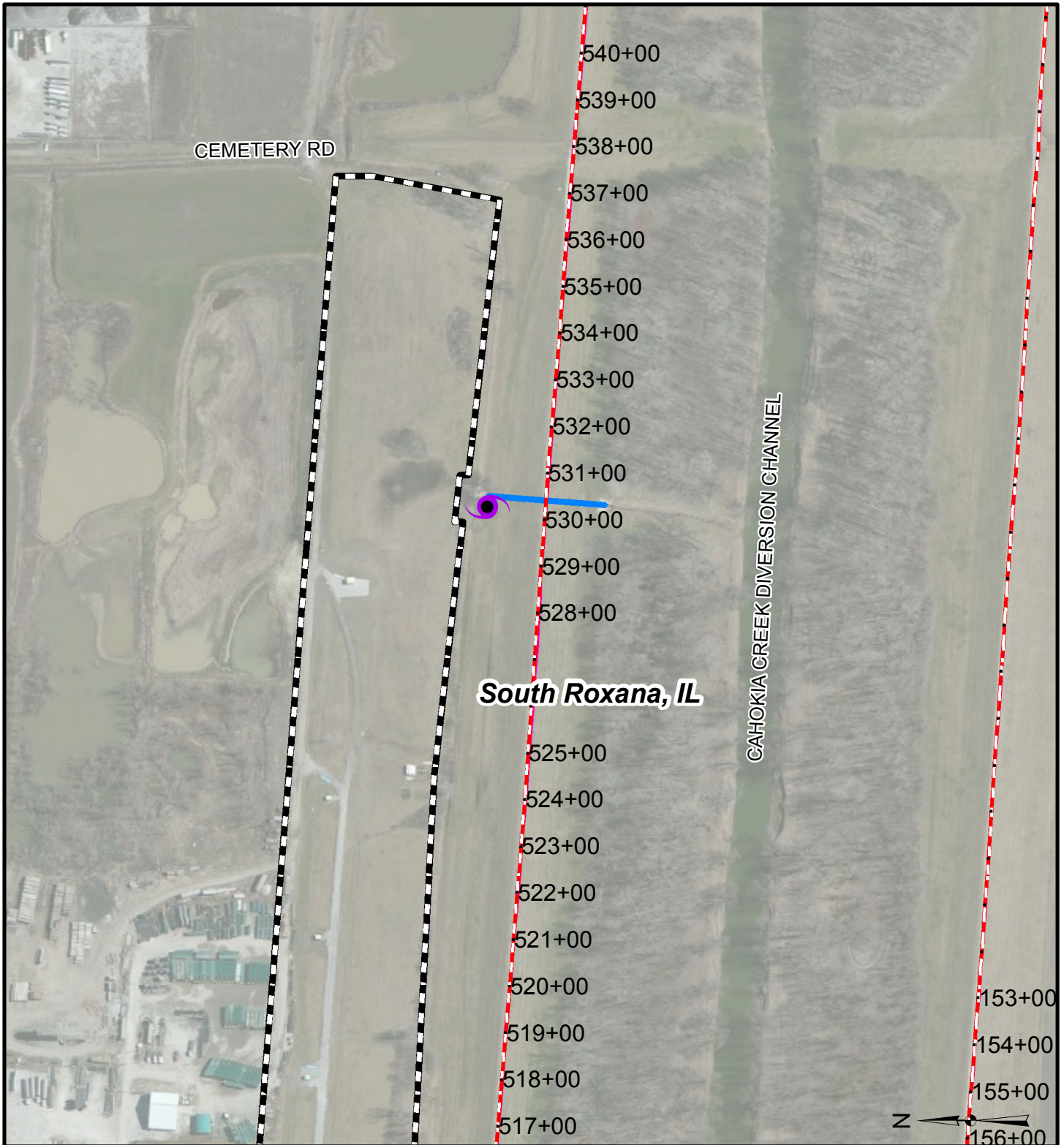
**USACE Authorized Level of Protection Planning and Analysis**  
**BID PACKAGE 09**  
**WOOD RIVER LEVEE SYSTEM**  
**DESIGN STA: 486+75 TO 493+35**

06/16/2015SHEET 6 OF 13

**Legend**

-  New Pump Station
-  New Seepage Berm
-  New Fill Area
-  New Relief Well
-  Municipality Boundary

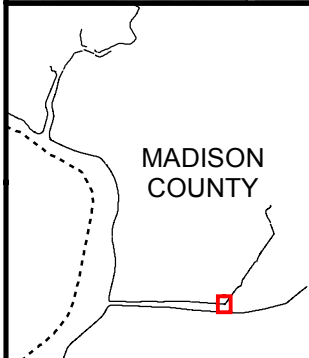
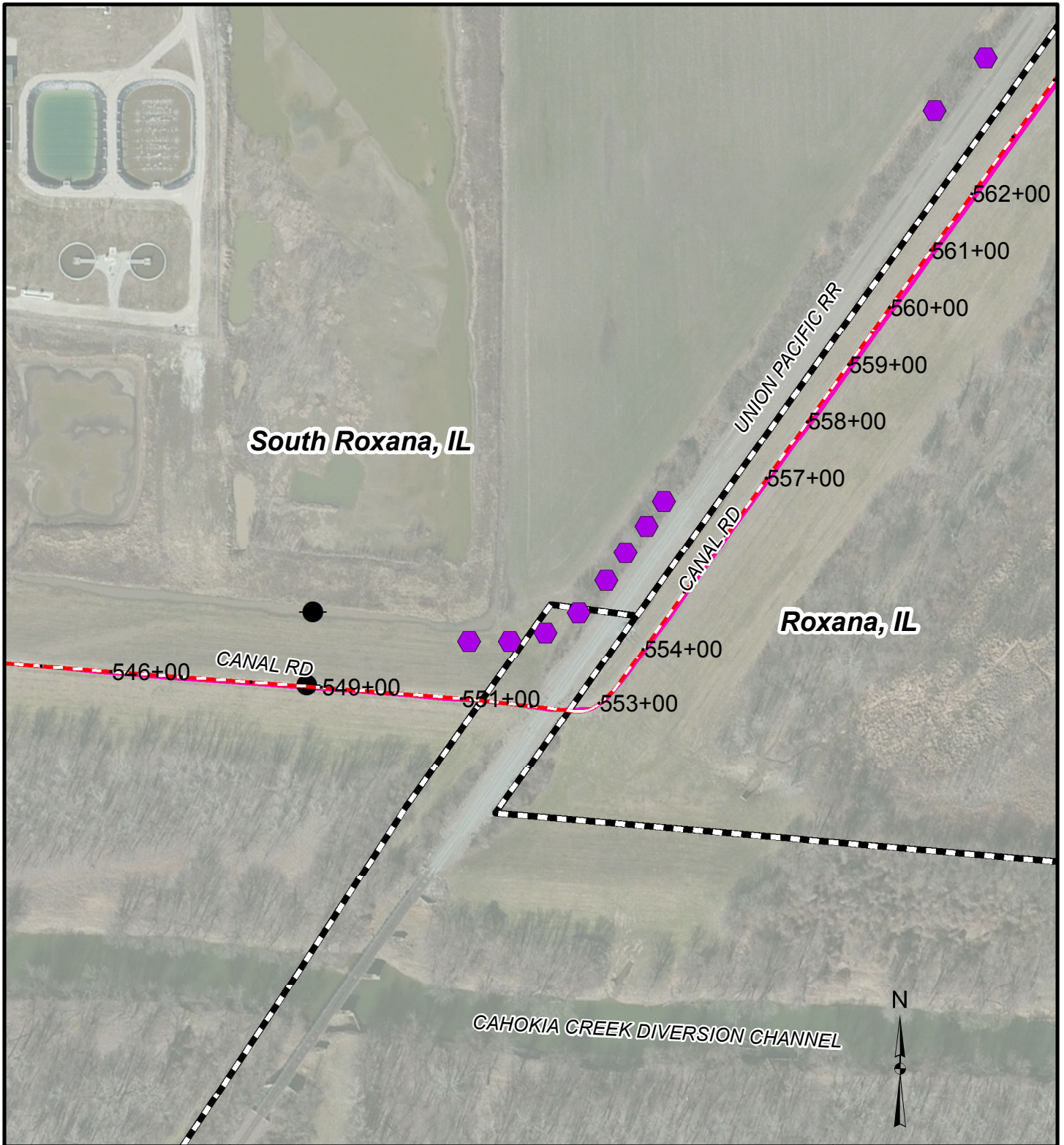




**USACE Authorized Level of Protection Planning and Analysis**  
**BID PACKAGE 10**  
**WOOD RIVER LEVEE SYSTEM**  
**DESIGN STA: 530+50 TO 530+50**

06/16/2015
SHEET 7 OF 13

Legend	
	New Pump Station
	New Seepage Berm
	New Fill Area
	New Relief Well
	Municipality Boundary



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

**BID PACKAGE 10**






**WOOD RIVER LEVEE SYSTEM**

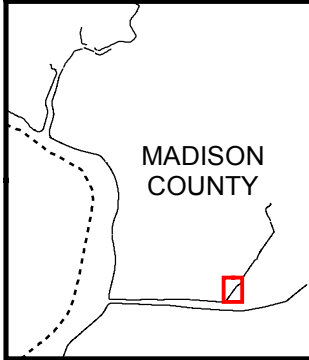
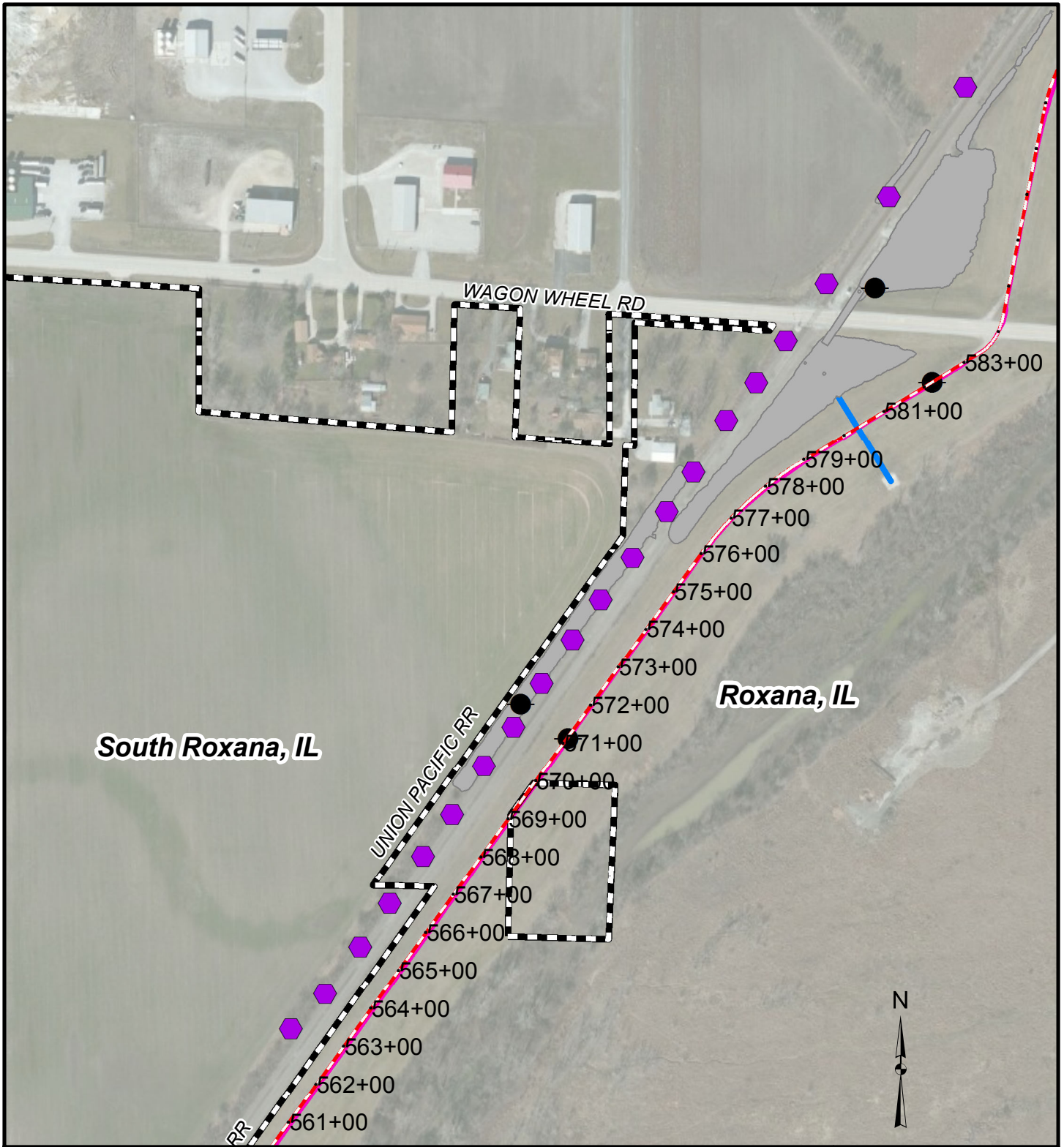
**DESIGN STA: 551+00 TO 556+05**

06/16/2015

SHEET 8 OF 13

**Legend**

-  New Pump Station
-  New Seepage Berm
-  New Fill Area
-  New Relief Well
-  Municipality Boundary



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

**BID PACKAGE 10**






**WOOD RIVER LEVEE SYSTEM**

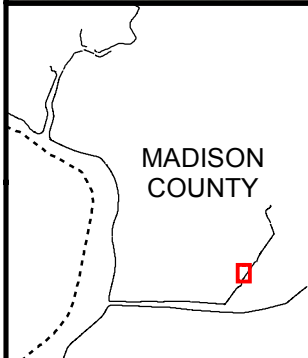
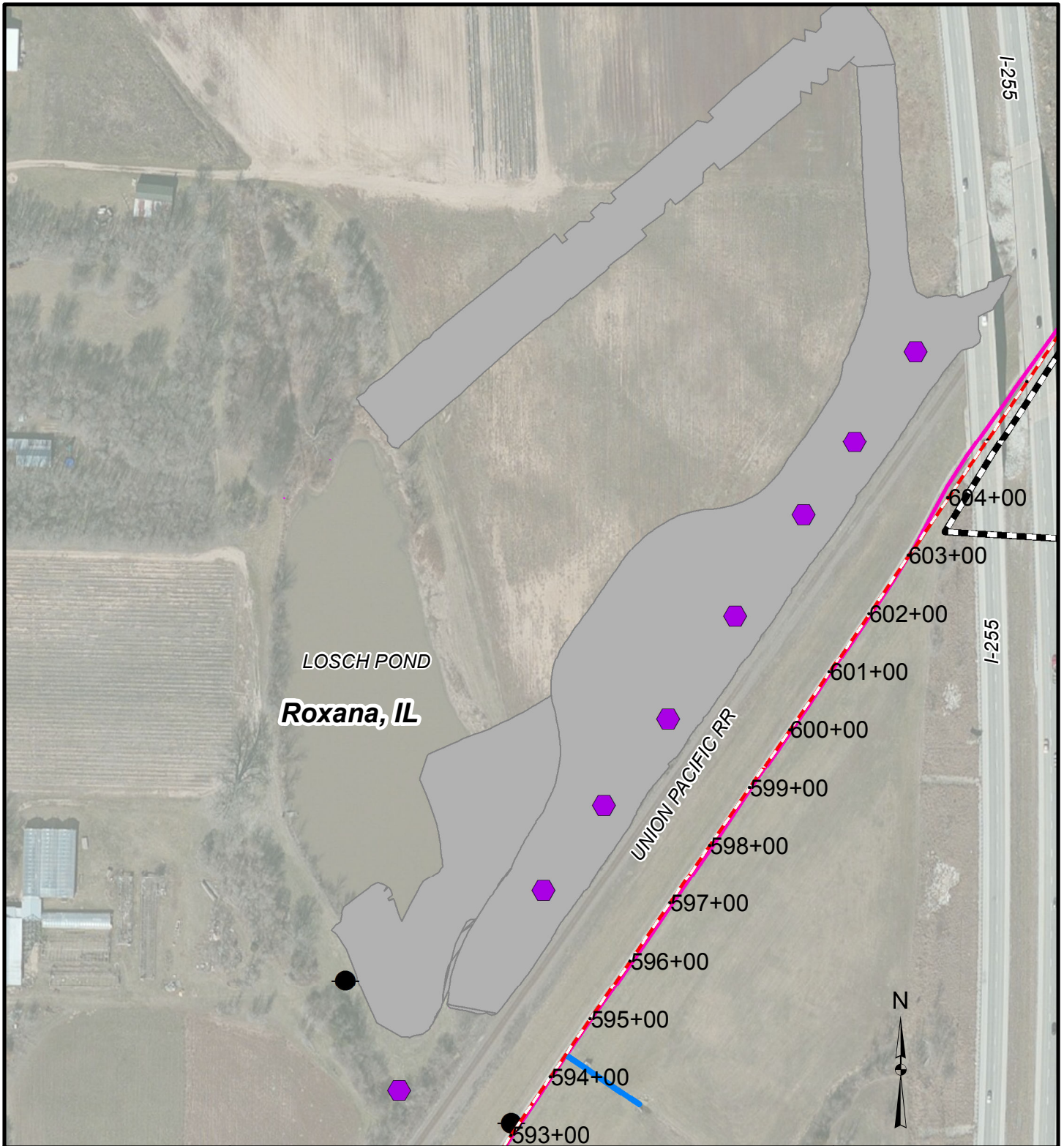
DESIGN STA: 562+65 TO 589+05

06/16/2015

SHEET 9 OF 13

**Legend**

-  New Pump Station
-  New Seepage Berm
-  New Fill Area
-  New Relief Well
-  Municipality Boundary








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

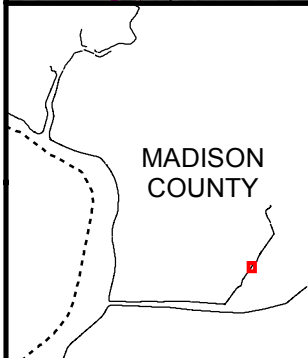
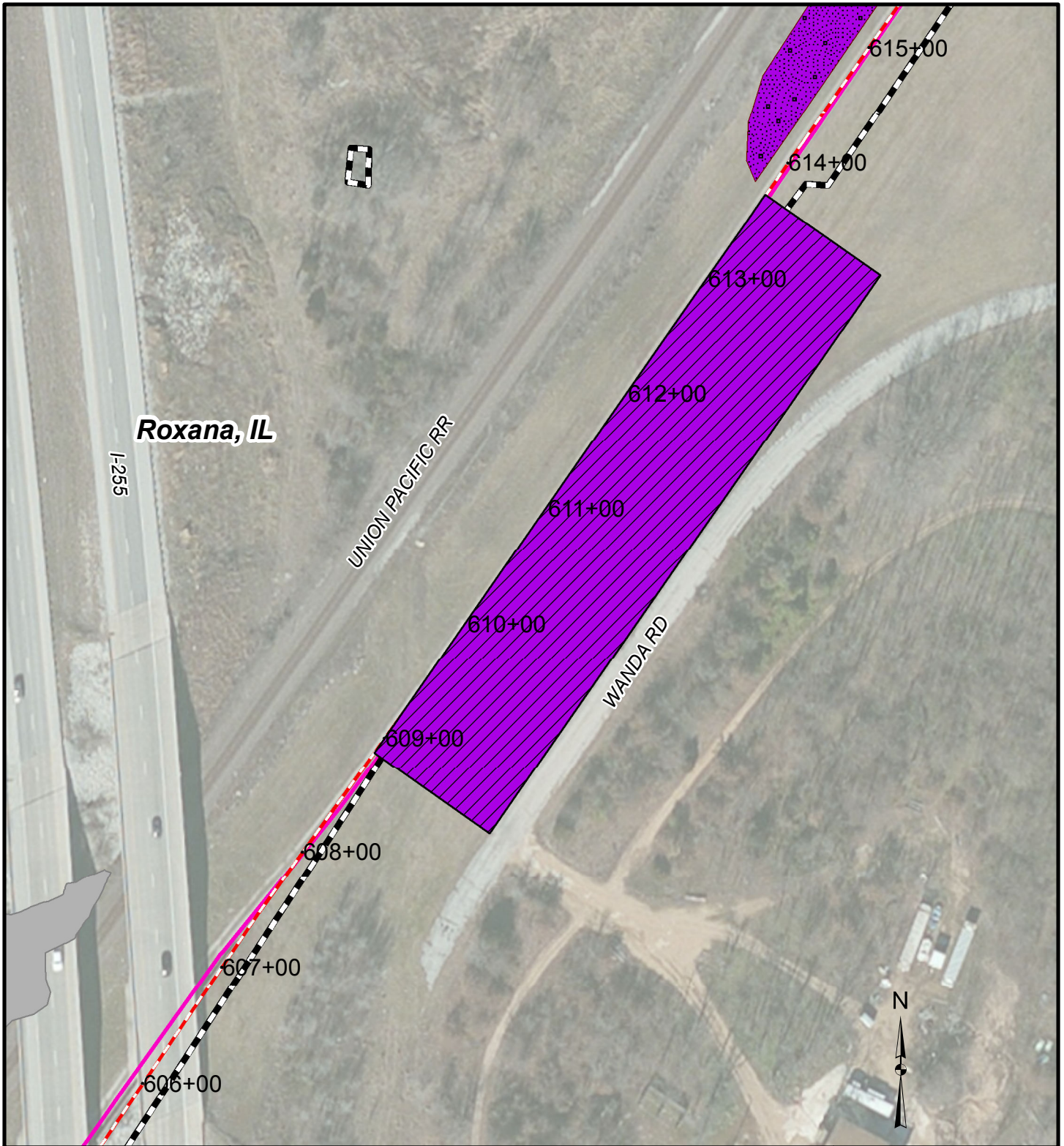
**BID PACKAGE 10**

**WOOD RIVER LEVEE SYSTEM**

DESIGN STA: 592+35 TO 605+55

**Legend**

-  New Pump Station
-  New Seepage Berm
-  New Fill Area
-  New Relief Well
-  Municipality Boundary



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

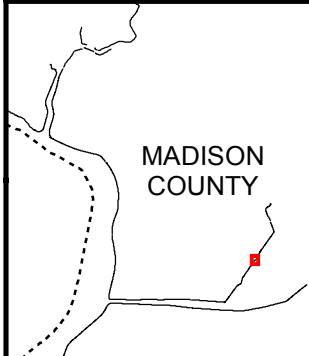
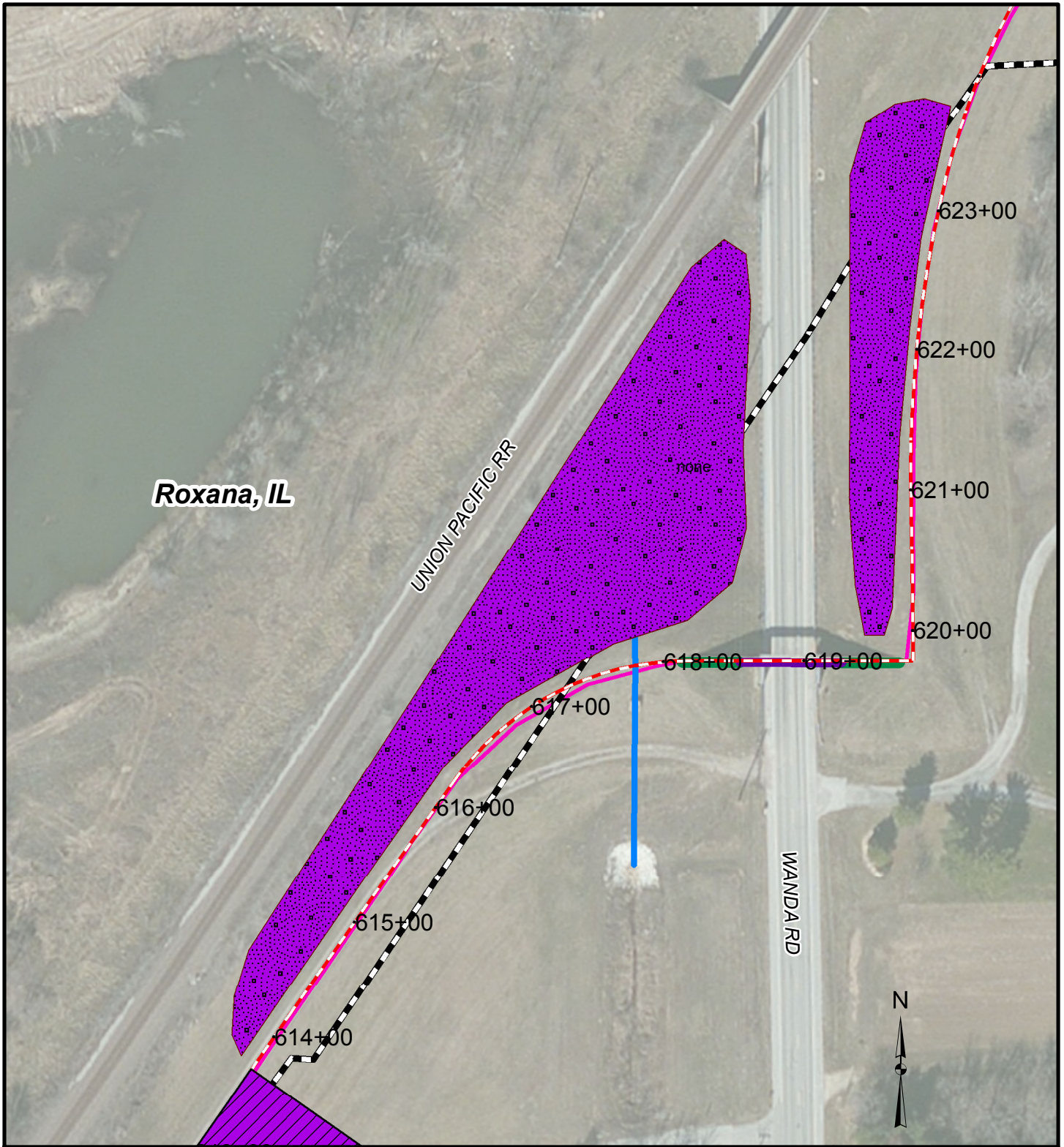
**BID PACKAGE 10**

**WOOD RIVER LEVEE SYSTEM**

DESIGN STA: 608+85 TO 613+70

06/16/2015 SHEET 11 OF 13

Legend	
	New Pump Station
	New Seepage Berm
	New Fill Area
	New Relief Well
	Municipality Boundary



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

**BID PACKAGE 10**






**WOOD RIVER LEVEE SYSTEM**

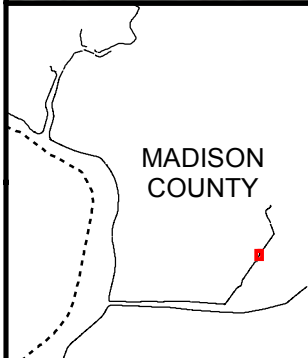
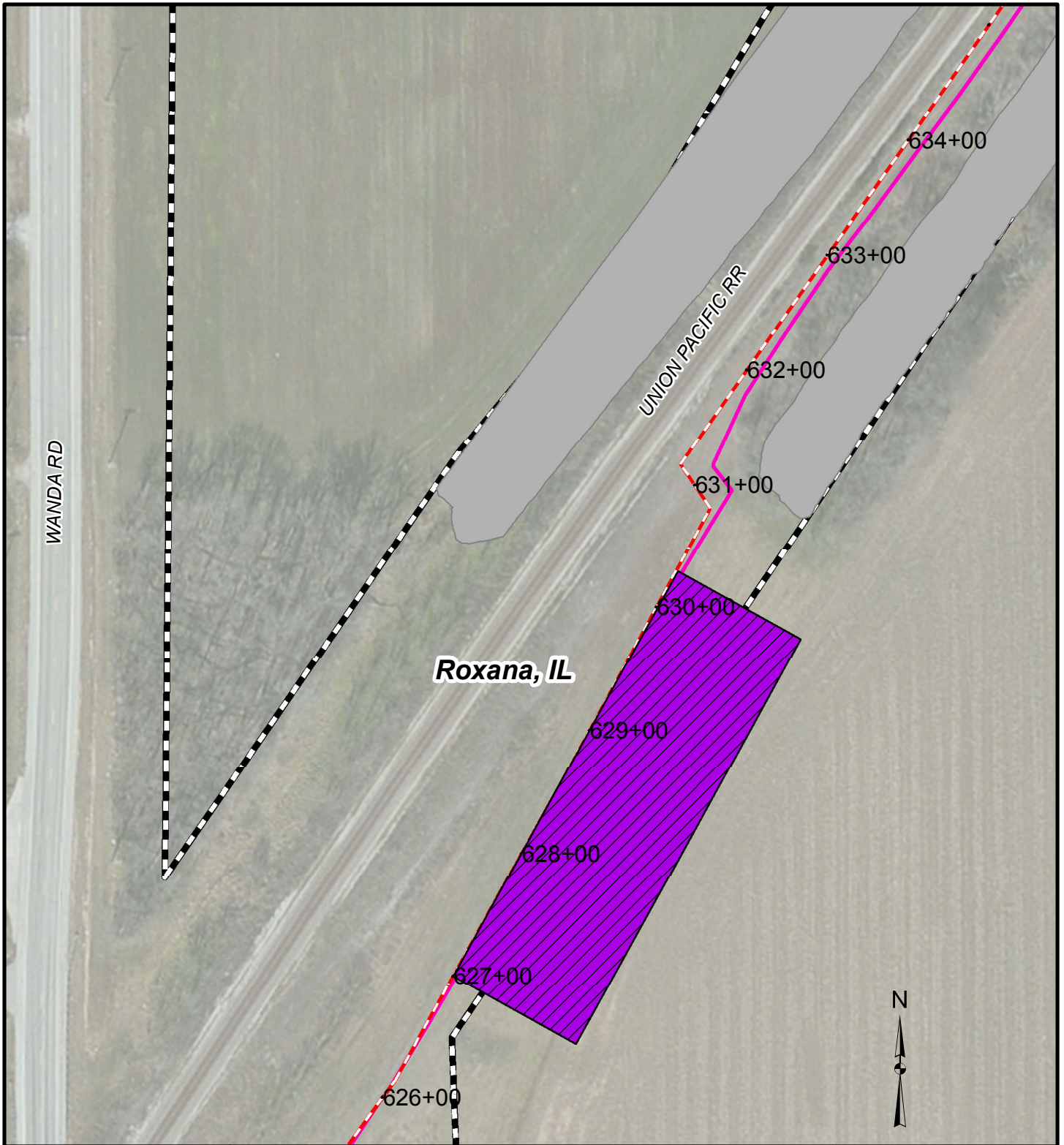
DESIGN STA: 613+70 TO 623+80

06/16/2015

SHEET 12 OF 13

**Legend**

-  New Pump Station
-  New Seepage Berm
-  New Fill Area
-  New Relief Well
-  Municipality Boundary








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

**BID PACKAGE 10**

**WOOD RIVER LEVEE SYSTEM**

DESIGN STA: 627+00 TO 630+30

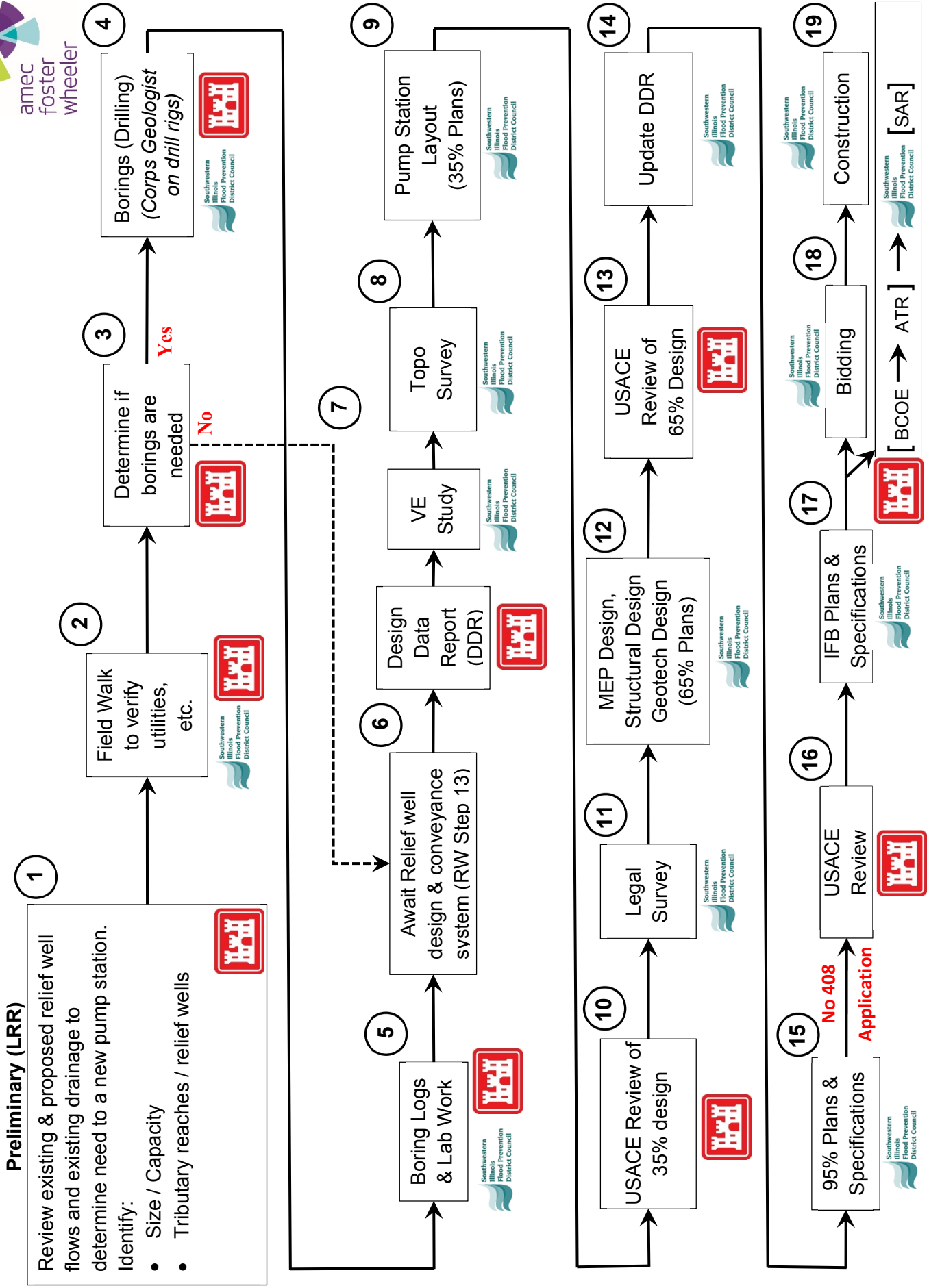
**Legend**

-  New Pump Station
-  New Seepage Berm
-  New Fill Area
-  New Relief Well
-  Municipality Boundary

## Appendix 2 – Design Process Flow Charts



# Authorized Level – Pump Station Design



# Authorized Level – Relief Well Design



## Preliminary (LRR)

Review existing sub-surface data & analyze underseepage to determine relief well solution. Identify:

- Relief well spacing per reach
- Station & Offset for each relief well
- "D" or "T" type relief well
- Discharge flow
- Discharge elevation

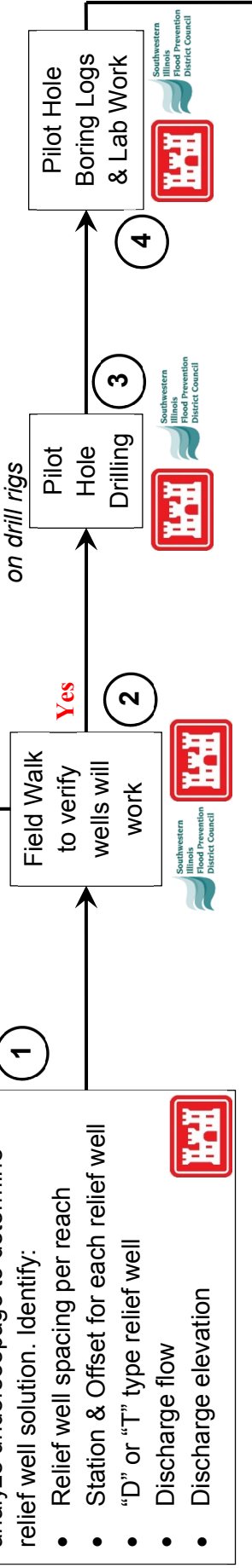
Corps Geologist on drill rigs

**No**  
Field Walk to verify wells will work

**Yes**

Pilot Hole Drilling

Boring Logs & Lab Work



Re-review well data with pilot hole data. Identify / Confirm:

- Relief well spacing per reach
- Station & Offset for each relief well
- "D" or "T" type relief well
- Discharge flow
- Discharge elevation
- Aquifer percent penetration

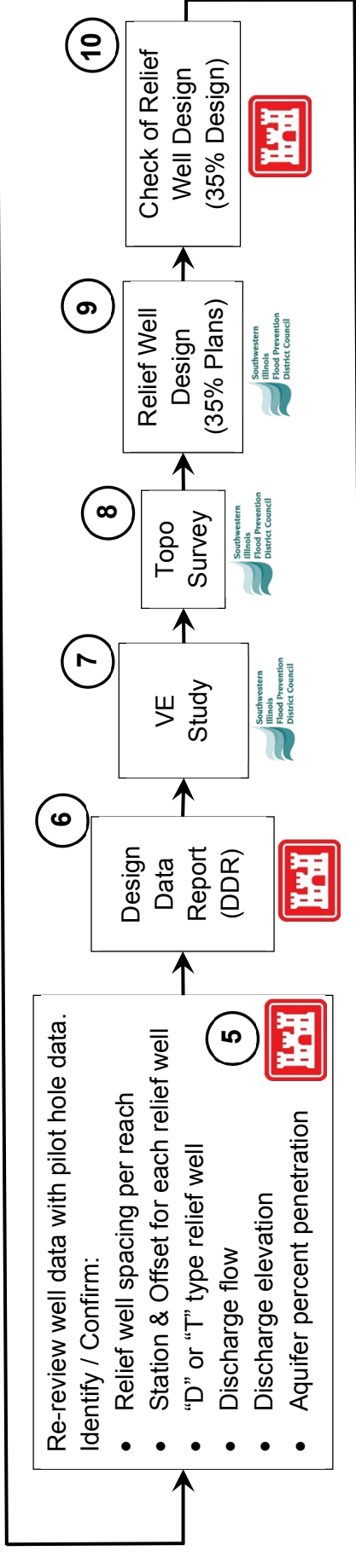
Design Data Report (DDR)

VE Study

Topo Survey

Relief Well Design (35% Plans)

Check of Relief Well Design (35% Design)



Identify Piezometer Locations

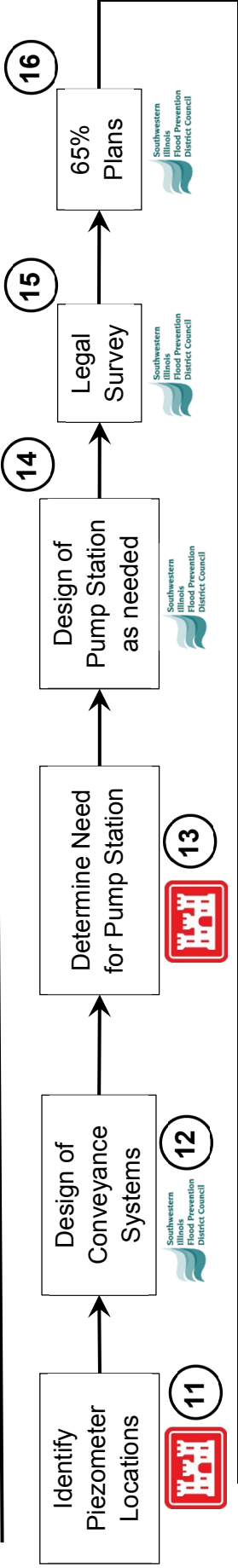
Design of Conveyance Systems

Determine Need for Pump Station

Design of Pump Station as needed

Legal Survey

65% Plans



USACE Review of 65% Design

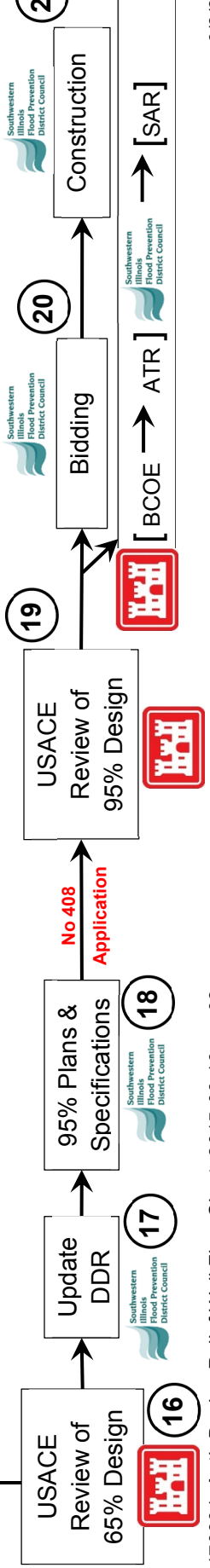
Update DDR

95% Plans & Specifications

USACE Review of 95% Design

Bidding

Construction



# Authorized Level – Seepage Berm Design



## Preliminary (LRR)

Review existing sub-surface data & analyze underseepage to determine seepage berm solution. Identify:

- Material type (semi-perv, sand, etc)
- Beginning & end of each berm
- Height at levee toe (define toe dist.)
- Design width (perp. to levee)
- Thickness at toe of berm

1

Field Walk to verify berm will work

No

Yes

2

Identify existing flood-related conflicts in berm footprint (relief wells, piezometers)

3

Determine if additional boring are needed

Yes

4

No

Corps Geologist on drill rigs

5

Borings (Drilling)

6

Boring Logs & Lab Work

7

Re-review berm design with new boring data. Identify / Confirm:

- Material type (semi-perv, sand, etc)
- Beginning & end of each berm
- Height at levee toe (define toe dist.)
- Design width (perp. to levee)
- Thickness at toe of berm

8

Design Data Report (DDR)

9

VE Study

10

Topo Survey

11

35% Plans

12

USACE Review of 35% Design

13

Identify Piezometer Locations

14

Utility Coordination

15

Re-work Drainage as Necessary

16

Interior Drainage Analysis

17

Legal Survey

18

65% Plans

19

USACE Review of 65% Design

20

Update DDR

21

95% Plans & Specifications

22

USACE Review of 95% Design

23

IFB Plans & Specifications

24

Bidding

25

Construction

[ BCOE → ATR ] → [ SAR ]



# Wood River Authorized Level Project Cost Estimate

Preliminary Design Phase

Prepared for



Prepared by



**June 17, 2015**

## 1. Cost Estimate

### Total Cost

Based primarily of previous bid line items from over a dozen local contractors, preliminary construction cost estimates have been developed for each of the recommended bid packages. For cost estimating purposes, a higher contingency of 10%-20% was applied toward cost line items that experienced higher fluctuations in the previous bid line items. These estimates are preliminary, and represent a planning level estimate. The total construction cost at this time is \$25,797,693.

The Amec Foster Wheeler estimate is inclusive of cost items that are not included in the USACE estimate. A cost of \$1,584,638 is anticipated for conveyance systems to the proposed pump stations, which is not included in the USACE estimate of \$10,294,900. Additionally, a total of \$6,793,992 is included in the Amec Foster Wheeler estimate that represents costs associated with land/easements/rights of way, wetland mitigation, any unforeseen cultural/archeological impacts, and relief wells in areas of hazardous waste were not accounted for in the USACE estimate. This total of \$6,793,992 is not included in the work-in-kind limit of \$12,932,000. The Amec Foster Wheeler estimate, less the necessary conveyance systems (\$1,584,638) and the \$6,793,992 not applied to the work-in-kind limit, results in a cost of \$17,419,063 versus the USACE estimated cost of \$10,294,900.

To date, the USACE has not provided a cost for review and oversight of the improvements included in the recommended plan. A revised version of this report will be issued when those costs become available.

### Development of Bid Packages

Amec Foster Wheeler has reviewed the USACE decision segments and has determined that three construction bid packages will appropriately subdivide the decision segments. By splitting the work into three bid packages, the FPD Council has the ability to cancel any one bid package if the remaining bid package(s) approach the work-in-kind credit contribution limit of \$12,932,000. While there is nothing stopping the FPD Council from constructing improvements in excess of \$12,932,000, the USACE will require Section 408 approval for any work over and above the \$12,932,000 limit, whereas any work done as work-in-kind, as agreed upon in the final IDR, which is still in development, does not require Section 408 approval. The three bid packages have been named Bid Package 08, 09, and 10, a continuation of the numbering from Amec Foster Wheeler's Certification Design. The packages were divided by pump station, and tributary relief wells. The resultant bid packages are as follows:

- ▶ Bid Package 08 is comprised of four USACE decision segments and spans from Levee Station 123+75 to 455+50. This package includes the construction of a new pump station, between Stations 430+65 and 455+50, and 40 relief wells, 23 of which are tributary to existing a/an existing pump station(s). *Bid Package 08 has an estimated construction cost of \$9,559,292.*
- ▶ Bid Package 09 is comprised of two USACE decision segments and spans from Levee Station 493+35 to 480+15. This package includes the construction of a new pump station, between Stations 455+50 and 450+15, and 18 relief wells, 3 of which are tributary to existing a/an existing pump station(s). *Bid Package 09 has an estimated construction cost of \$4,776,688.*
- ▶ Bid Package 10 is comprised of seven USACE decision segments and spans from Levee Station 530+50 to 630+30. This package includes the construction of a new pump station, at Station 530+50, and 36 tributary relief wells. This package is the only one to also include seepage berm and fill areas. Two seepage berms, 5 feet thick and 100 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. *Bid Package 09 has an estimated construction cost of \$11,461,714.*

## Appendix 1 – Preliminary Cost Estimate

## Wood River Quantities & Cost Summary

Item #	Cost Item	Unit	Unit Cost	Contingency	Quantity	Total
1	Clear & Grub - Light Vegetation	AC	\$ 3,840.00	20%	10	46,080
2	Cultural / Archeological (Unforeseen) Impacts Cost	LS	\$ 350,000.00	20%	1	420,000
3	Dewatering (5 to 15 feet)	LF	\$ 350.00	20%	12,700	5,334,000
4	Fill Material (Random Fill)	CY	\$ 15.00	5%	3,889	61,252
5	Manhole - Complete (48-Inch Diameter)	EA	\$ 3,500.00	5%	19	69,825
6	Manhole - Complete (60-Inch Diameter)	EA	\$ 3,750.00	5%	28	111,563
7	Mobilization (% varies)	LS	\$ 1,199,000.00	10%	1	1,318,900
8	Piezometer (Above Grade)	EA	\$ 10,000.00	5%	29	304,500
9	Piezometer (At Grade)	EA	\$ 10,000.00	5%	11	115,500
10	Pipe - 12-Inch HDPE Pipe	LF	\$ 60.00	5%	2,100	132,300
11	Pipe - 24-Inch HDPE Pipe	LF	\$ 70.00	5%	1,500	110,250
12	Pipe - 36-Inch HDPE Pipe	LF	\$ 100.00	5%	1,500	157,500
13	Pipe - 48-Inch HDPE Pipe	LF	\$ 120.00	10%	7,600	1,003,200
14	Pump Station - (REACH 430+65 TO 455+50) [10,500 GPM]	LS	\$ 1,000,000.00	20%	1	1,200,000
15	Pump Station - (REACH 455+50 TO 480+15) [11,000 GPM]	LS	\$ 1,000,000.00	20%	1	1,200,000
16	Pump Station - (REACH 530+50 TO 530+50) [9,000 GPM]	LS	\$ 950,000.00	20%	1	1,140,000
17	Relief Well - Existing - Abandon	EA	\$ 4,000.00	5%	5	21,000
18	Relief Well - New - Hazardous Waste Premium	EA	\$ 74,340.00	20%	24	2,140,992
19	Relief Well - New - Type "D"	VF	\$ 575.00	5%	2,400	1,449,000
20	Relief Well - New - Type "T"	VF	\$ 600.00	5%	7,100	4,473,000
21	ROW Acquisition - Uniform Federal Relocation Costs	AC	\$ 30,000.00	20%	72	2,574,000
22	Seeding	AC	\$ 2,000.00	20%	14	33,600
23	Seepage Berm Material	CY	\$ 20.00	20%	15,093	362,232
24	Utility Relocation - Miscellaneous Additional Relocation Costs	LS	\$ 300,000.00	20%	1	360,000
25	Wetland Mitigation	AC	\$ 35,000.00	20%	40	1,659,000
26	Sub-Total					\$ 25,797,693
27	Construction Estimate					\$ 25,797,693



## Bid Package #08

Item #	Cost Item	Unit	Unit Cost	Contingency	Quantity	Total
3	Dewatering (5 to 15 feet)	LF	\$ 350.00	20%	2,500	\$ 1,050,000
8	Piezometer (Above Grade)	EA	\$ 10,000.00	5%	9	\$ 94,500
5	Manhole - Complete (48-Inch Diameter)	EA	\$ 3,500.00	5%	7	\$ 25,725
6	Manhole - Complete (60-Inch Diameter)	EA	\$ 3,750.00	5%	2	\$ 7,875
7	Mobilization (% varies)	LS	\$ 454,000.00	10%	1	\$ 499,400
9	Piezometer (At Grade)	EA	\$ 10,000.00	5%	1	\$ 10,500
10	Pipe - 12-Inch HDPE Pipe	LF	\$ 60.00	5%	800	\$ 50,400
11	Pipe - 24-Inch HDPE Pipe	LF	\$ 70.00	5%	600	\$ 44,100
12	Pipe - 36-Inch HDPE Pipe	LF	\$ 100.00	5%	600	\$ 63,000
13	Pipe - 48-Inch HDPE Pipe	LF	\$ 120.00	10%	500	\$ 66,000
14	Pump Station - (REACH 430+65 TO 455+50) [10,500 GPM]	LS	\$ 1,000,000.00	20%	1	\$ 1,200,000
17	Relief Well - Existing - Abandon	EA	\$ 4,000.00	5%	5	\$ 21,000
18	Relief Well - New - Hazardous Waste Premium	EA	\$ 74,340.00	20%	24	\$ 2,140,992
19	Relief Well - New - Type "D"	VF	\$ 575.00	5%	2,400	\$ 1,449,000
20	Relief Well - New - Type "T"	VF	\$ 600.00	5%	1,700	\$ 1,071,000
21	ROW Acquisition - Uniform Federal Relocation Costs	AC	\$ 30,000.00	20%	20	\$ 702,000
22	Seeding	AC	\$ 2,000.00	20%	2	\$ 4,800
24	Utility Relocation - Miscellaneous Additional Relocation Costs	LS	\$ 150,000.00	20%	1	\$ 180,000
25	Wetland Mitigation	AC	\$ 35,000.00	20%	20	\$ 819,000
2	Cultural / Archeological (Unforeseen) Impacts Cost	LS	\$ 50,000.00	20%	1	\$ 60,000
26	Sub-Total					\$ 9,559,292
27	Construction Estimate					\$ 9,559,292

## Bid Package #09

Item #	Cost Item	Unit	Unit Cost	Contingency	Quantity	Total
3	Dewatering (5 to 15 feet)	LF	\$ 350.00	20%	2,700	\$ 1,134,000
8	Piezometer (Above Grade)	EA	\$ 10,000.00	5%	6	\$ 63,000
5	Manhole - Complete (48-Inch Diameter)	EA	\$ 3,500.00	5%	7	\$ 25,725
6	Manhole - Complete (60-Inch Diameter)	EA	\$ 3,750.00	5%	3	\$ 11,813
7	Mobilization (% varies)	LS	\$ 235,000.00	10%	1	\$ 258,500
9	Piezometer (At Grade)	EA	\$ 10,000.00	5%	3	\$ 31,500
10	Pipe - 12-Inch HDPE Pipe	LF	\$ 60.00	5%	800	\$ 50,400
11	Pipe - 24-Inch HDPE Pipe	LF	\$ 70.00	5%	700	\$ 51,450
12	Pipe - 36-Inch HDPE Pipe	LF	\$ 100.00	5%	700	\$ 73,500
13	Pipe - 48-Inch HDPE Pipe	LF	\$ 120.00	10%	500	\$ 66,000
15	Pump Station - (REACH 455+50 TO 480+15) [11,000 GPM]	LS	\$ 1,000,000.00	20%	1	\$ 1,200,000
20	Relief Well - New - Type "T"	VF	\$ 600.00	5%	1,800	\$ 1,134,000
21	ROW Acquisition - Uniform Federal Relocation Costs	AC	\$ 30,000.00	20%	12	\$ 432,000
22	Seeding	AC	\$ 2,000.00	20%	2	\$ 4,800
24	Utility Relocation - Miscellaneous Additional Relocation Costs	LS	\$ 50,000.00	20%	1	\$ 60,000
2	Cultural / Archeological (Unforeseen) Impacts Cost	LS	\$ 150,000.00	20%	1	\$ 180,000
26	Sub-Total					\$ 4,776,688
27	Construction Estimate					\$ 4,776,688

## Bid Package #10

Item #	Cost Item	Unit	Unit Cost	Contingency	Quantity	Total
1	Clear & Grub - Light Vegetation	AC	\$ 3,840.00	20%	10	\$ 46,080
3	Dewatering (5 to 15 feet)	LF	\$ 350.00	20%	7,500	\$ 3,150,000
4	Fill Material (Random Fill)	CY	\$ 15.00	5%	3,889	\$ 61,252
8	Piezometer (Above Grade)	EA	\$ 10,000.00	5%	14	\$ 147,000
5	Manhole - Complete (48-Inch Diameter)	EA	\$ 3,500.00	5%	5	\$ 18,375
6	Manhole - Complete (60-Inch Diameter)	EA	\$ 3,750.00	5%	23	\$ 91,875
7	Mobilization (% varies)	LS	\$ 510,000.00	10%	1	\$ 561,000
9	Piezometer (At Grade)	EA	\$ 10,000.00	5%	7	\$ 73,500
10	Pipe - 12-Inch HDPE Pipe	LF	\$ 60.00	5%	500	\$ 31,500
11	Pipe - 24-Inch HDPE Pipe	LF	\$ 70.00	5%	200	\$ 14,700
12	Pipe - 36-Inch HDPE Pipe	LF	\$ 100.00	5%	200	\$ 21,000
13	Pipe - 48-Inch HDPE Pipe	LF	\$ 120.00	10%	6,600	\$ 871,200
16	Pump Station - (REACH 530+50 TO 530+50) [9,000 GPM]	LS	\$ 950,000.00	20%	1	\$ 1,140,000
20	Relief Well - New - Type "T"	VF	\$ 600.00	5%	3,600	\$ 2,268,000
21	ROW Acquisition - Uniform Federal Relocation Costs	AC	\$ 30,000.00	20%	40	\$ 1,440,000
22	Seeding	AC	\$ 2,000.00	20%	10	\$ 24,000
23	Seepage Berm Material	CY	\$ 20.00	20%	15,093	\$ 362,232
24	Utility Relocation - Miscellaneous Additional Relocation Costs	LS	\$ 100,000.00	20%	1	\$ 120,000
25	Wetland Mitigation	AC	\$ 35,000.00	20%	20	\$ 840,000
2	Cultural / Archeological (Unforeseen) Impacts Cost	LS	\$ 150,000.00	20%	1	\$ 180,000
26	Sub-Total					\$ 11,461,714
27	Construction Estimate					\$ 11,461,714



U.S. Army Corps of Engineers  
St. Louis District  
1222 Spruce Street  
St. Louis, MO 63103-2833

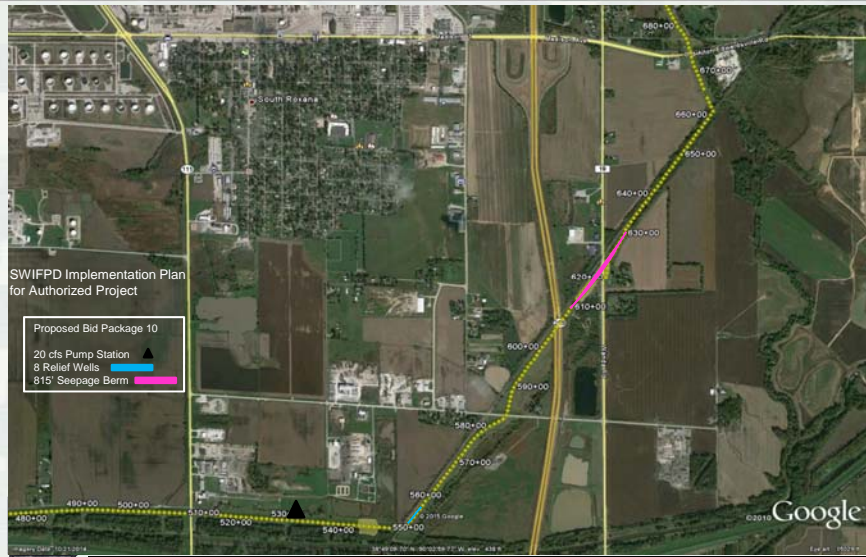
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St. Louis, MO 63103-2833

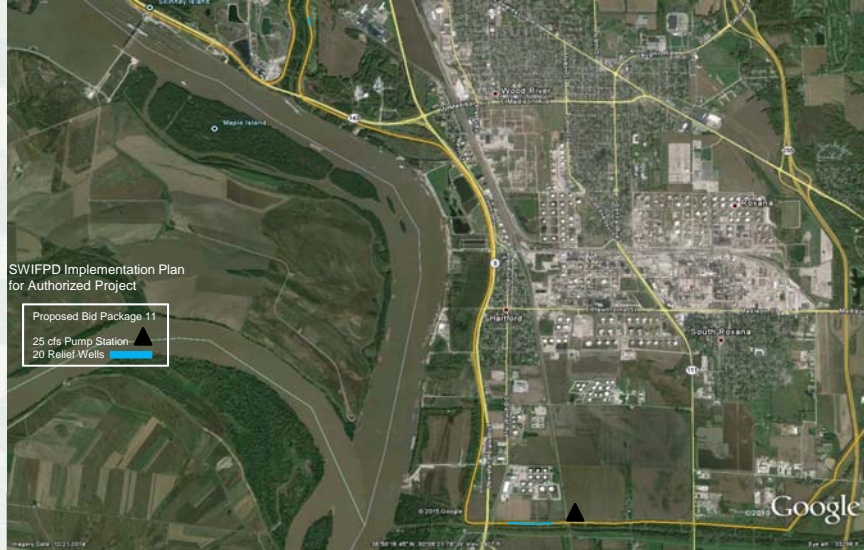
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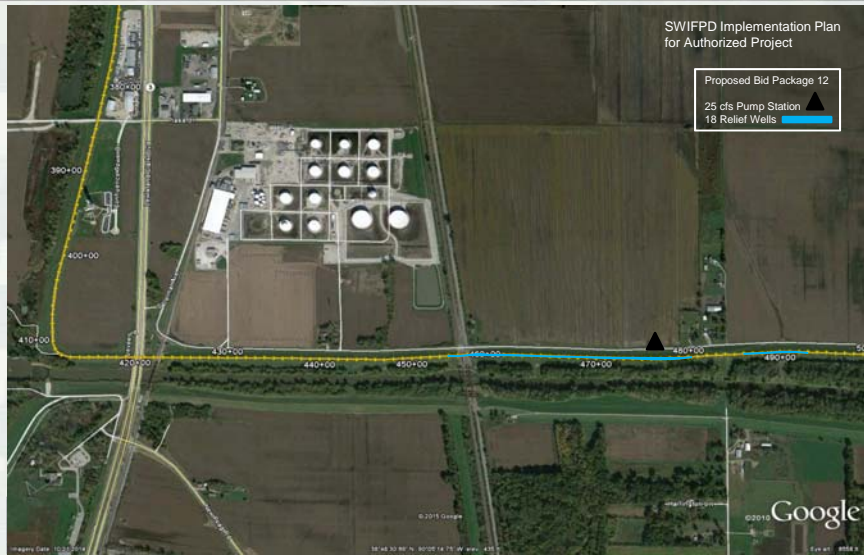
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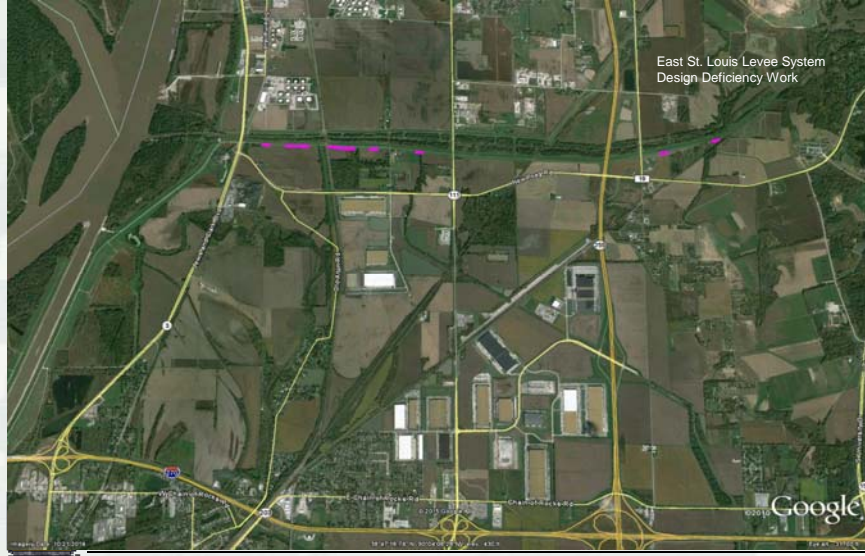
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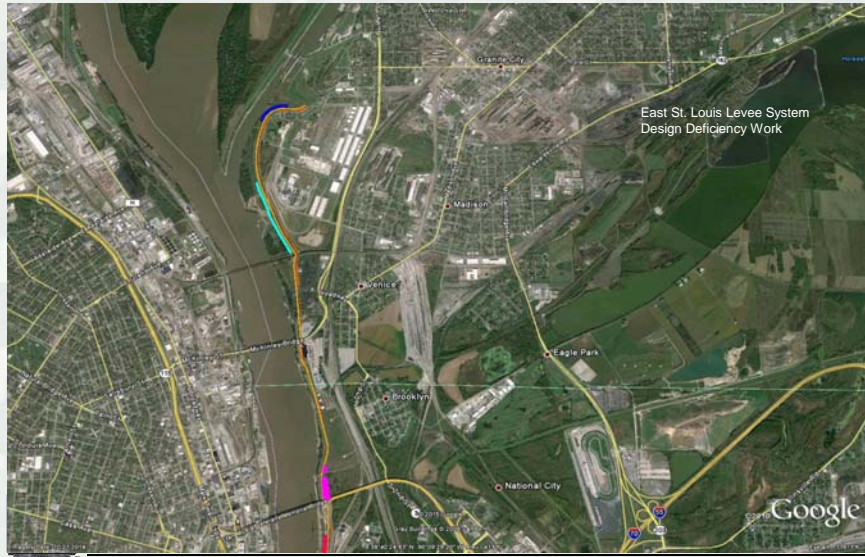
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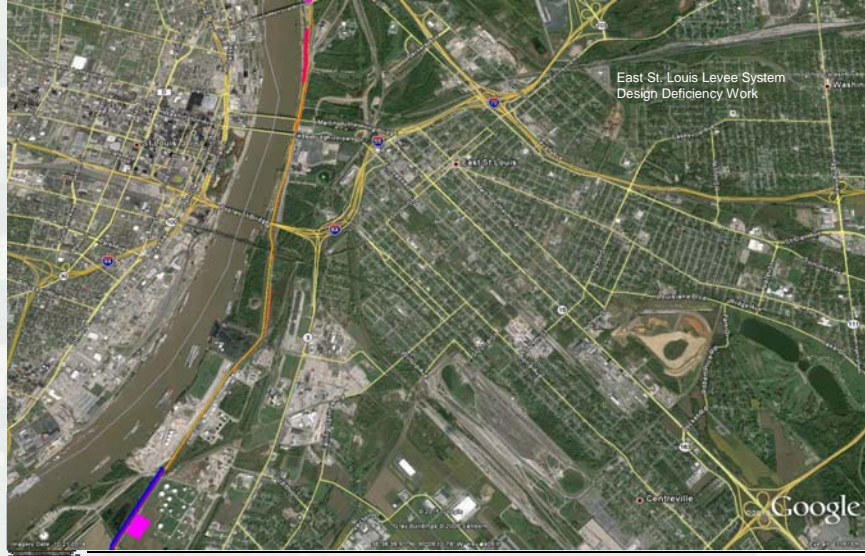
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St. Louis, MO 63103-2833

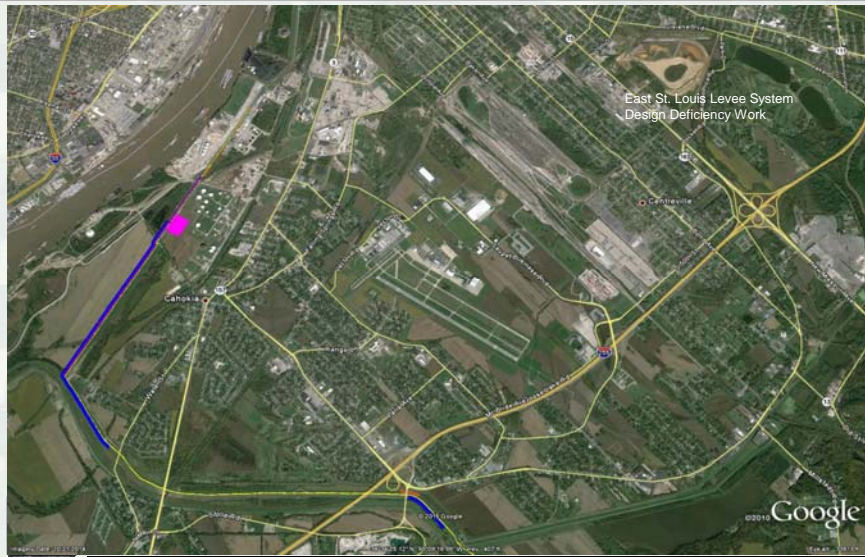
### Metro East Projects, IL



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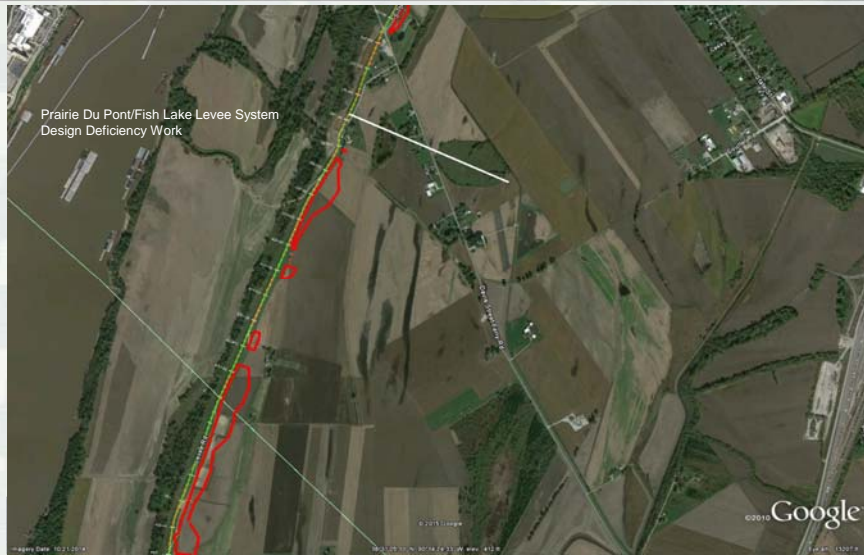
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## Metro East Projects, IL

Prairie Du Pont/Fish Lake Levee System  
Design Deficiency Work



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Memo to: Board of Directors  
From: Chuck Etwert  
Subject: Program Status Report for July 2015  
Date: July 13, 2015

Approximately 75% of the \$47.1 million of construction, involved in the eight current construction bid packages (not including BP 7B), has been completed thru June. With 1.1 million dollars' worth of construction completed in June, the total amount of construction completed is now \$35.6 million. There has now been high river conditions for the last seven weeks which has slowed construction and pushed back completion dates.

Amec Foster Wheeler will be reporting on the high water conditions and the problems that have been encountered at various locations.

We have two change orders for BP #6 on this month's agenda. They involve the emergency work required due to high river conditions and modifications to three piezometers in the Prairie Du Pont/Fish Lake Levee System. Amec Foster Wheeler will be explaining them at the meeting. There will be some flood work change orders on next month's agenda.

AMEC Foster Wheeler and I continue to meet with the Corps of Engineers regarding the process of the Council moving ahead with 500-year level of protection projects and ensuring that work the Council does is eligible for future Work In-Kind Credit.

We have been informed by the Corps (letter attached) that the Integral Determination Reports (IDRs) for Wood River and East St. Louis originally projected for approval in September, have been delayed due to WRRDA 2014 implementation guidance not being issued. Once issued, the approval process is estimated to take four months. Therefore, the earliest we can expect approval of the IDRs is probably November. The IDRs, which identify the work that will be eligible for Work-In-Kind Credit, reduce the risk of not receiving credit for work performed. All risk is eliminated after approval of the revised Project Partnership Agreements (PPAs), which take approximately a year to complete after approval of the IDRs.

Attached is our letter in response to Colonel Mitchell's letter of June 16, 2015, regarding the Corps' proposed revised solicitation procedures for the construction of Metro East Levee

projects. I indicated, we look forward to receiving additional information explaining the criteria and the process, prior to making any decision regarding sponsor cost share funding.

In addition, last Friday Senator Durbin's office sent us a copy of a letter from the Department Of The Army to the Corps of Engineers indicating that it will be working with the St. Louis District on the development of how the "extra credit" for bids with PLA will work. A copy is attached.

As is our custom, the draft budget for the coming year is presented at the July Board meeting. I have continued the past practice of also providing a project estimate of revenues and expenses thru the end of fiscal year 2016.

There will be an executive session on litigation at the end of the meeting.

I have also included in your Board packet, a copy of Amec Foster Wheeler's Monthly Progress Report for July and an article from the St. Louis Post-Dispatch regarding the Council moving ahead with the 500-Year Authorized Level projects.



REPLY TO

DEPARTMENT OF THE ARMY  
ST. LOUIS DISTRICT CORPS OF ENGINEERS  
1222 SPRUCE STREET  
ST. LOUIS, MISSOURI 63103-2833

JUL 01 2015

Programs and Project  
Management Division

Mr. Charles Etwert  
Chief Supervisor of Construction and the Works  
Southwestern Illinois Flood Prevention District Council  
104 United Drive  
Collinsville, Illinois 62234

RE: Water Resources Reform and Development Act (WRRDA) 2014 Section 1018 – Credit for In-Kind Contributions

Dear Mr. Etwert:

I am writing in regard to Section 1018 of WRRDA 2014, Credit for In-Kind Contributions. Implementation guidance is being developed for Section 1018. In an effort to maximize efficiency, the St. Louis District has moved forward and completed draft Integral Determination Reports (IDRs) for Wood River and East St. Louis that identify the work the Southwestern Illinois Flood Prevention District Council (FPD) intends to perform as In-Kind contributions.

The proposed schedule for the Assistant Secretary of the Army (Civil Works) approval of the IDRs was projected to be September, 2015, dependent on receipt of implementation guidance. Initiation of the IDR review process cannot begin until implementation guidance is complete. Upon receipt of implementation guidance, the review and approval schedule for the IDRs will be revised.

I will inform you when updates are available regarding implementation guidance. The goal is to maximize and apply WRRDA 2014 opportunities for the Metro East Levee design deficiency projects. Please do not hesitate to contact me or request the District's input as the FPD moves forward with their plan to implement the authorized project. Please contact me at 314.331.8477 or [tracey.b.kelsey@usace.army.mil](mailto:tracey.b.kelsey@usace.army.mil) if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Tracey Kelsey".

Tracey Kelsey, P.E., PMP  
Program Manager  
Programs and Project Management Division







**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)

June 24, 2015

Col. Anthony P. Mitchell  
District Commander  
U.S. Army Corps of Engineers, St. Louis District  
1222 Spruce Street  
St. Louis, MO 63103 - 2833

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Ronald Polka

Charles M. Etwert  
Chief Supervisor of  
Construction and the Works

Dear Col. Mitchell:

The Southwestern Illinois Flood Prevention District Council is in receipt of your letter of June 16, 2015 regarding the USACE's proposed revised solicitation for construction procedures for the Metro East Levee projects.

As you indicated, Project Labor Agreements can contribute to project cost savings and efficiency. This has been demonstrated continuously by the 100-year level of protection projects that the Council has built and is currently constructing.

The Council looks forward to receiving additional information explaining the "evaluation criteria that will give weight to proposals that include PLAs" and how the "best value tradeoff selection" process would work. This new contracting strategy information will be required prior to any decision regarding sponsor cost share funding.

However, in order, to carry on the efforts to reduce flood risks in the Metro East, the Council continues to work with your staff regarding the Council's upfront funding of "authorized level" projects with the intent of receiving future work-in-kind credit.

Sincerely,

Charles M. Etwert  
Chief Supervisor of Construction and the Works







**DEPARTMENT OF THE ARMY**  
OFFICE OF THE ASSISTANT SECRETARY OF THE ARMY  
ACQUISITION LOGISTICS AND TECHNOLOGY  
103 ARMY PENTAGON  
WASHINGTON, DC 20310-0103

JUL 10 2015

Mr. Stuart Hazlett  
Director of Contracting  
United States Army Corps of Engineers  
441 G Street NW  
Room 3A14  
Washington, DC 20314-1000

Dear Mr. Hazlett:

As expressed in Colonel Anthony Mitchell's letter to the Southwestern Illinois Flood Prevention District Council dated June 16, 2015, the Army is dedicated to restoring the Metro East levee systems and reducing flood risk to the local community. Headquarters Department of the Army (HQDA) fully supports the United States Army Corps of Engineers' (USACE) efforts to move the levee projects toward completion by modifying the acquisition strategy to evaluate the benefits of Project Labor Agreements (PLAs) in proposals and by drafting a solicitation to reflect that proposals will be evaluated using a best value tradeoff selection process.

As this is a complex process, HQDA will work closely with the USACE to develop both the Request for Proposal and the evaluation criteria, which may potentially give greater weight to proposals that address the benefits of PLAs with a demonstrated ability to achieve economy and efficiency. My office stands ready to provide guidance and support where appropriate throughout the entirety of the source selection process. Mr. John Sacks, who is already in communication with the USACE team, is my point of contact supporting this effort and can be reached at 703-617-0374 or [john.r.sacks.civ@mail.mil](mailto:john.r.sacks.civ@mail.mil).

I believe this collaboration between HQDA and the USACE will ensure responsible use of taxpayer dollars while positive progress is made to restore the levee systems and reduce flood risk to those living and working behind the levees.

Please do not hesitate to contact me should you have any questions or concerns.

Sincerely,

A handwritten signature in blue ink that reads "Harry P. Hallock".

Harry P. Hallock  
Deputy Assistant Secretary  
of the Army (Procurement)





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

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## **Monthly Project Progress Report July 2015**

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AMEC FOSTER WHEELER Project No. 563170001  
Period Ending Date: July 6, 2015

*Date of Issue: July 10, 2015*

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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, 618.401.7226 <a href="mailto:kevin.m.williams@amecfw.com">kevin.m.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>		
<p>The Contractors continue to conduct daily toolbox safety talks.</p> <p>Amec Foster Wheeler continues to conduct monthly safety meetings with the contractors every third Tuesday.</p>		
<b>Security</b>		
<p>No issues during this reporting period.</p>		
<b>Environment (SWPPP)</b>		
<p>An Amec Foster Wheeler environmental representative is inspecting the SWPPP efforts on a weekly basis.</p>		
<b>River Stage</b>		
<p>The USACE 408 permit dictates that excavations shall cease when the Mississippi River Stage is:</p>		
<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)
<p>The 408 permit river restrictions have ceased and critically delayed excavation, well drilling, etcetera from May 27, 2015 to the present date.</p>		

### 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
Anticipated 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

- Pump Station 1 construction contractor is complete.
- Amec Foster Wheeler preparing documents for USACE.

##### 3.1.3 Property Acquisition

- The construction portion of the project is complete.

##### 3.1.4 Levee Board Considerations

- None

##### 3.1.5 Submittals

- Contractor submittals complete.

##### 3.1.6 Change Orders

- See Change Order Log attached. The construction portion of the project is complete.

##### 3.1.7 Field Activities and Look Ahead

- The construction portion of the project is complete.

##### 3.1.8 QC/QA Activities

- The construction portion of the project is complete.

##### 3.1.9 Considerations

- The construction portion of the project is complete.

##### 3.1.10 Payment Progress

- See Contract Invoice Log attached. The project is complete and the retainage is released.

## 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	February 24, 2014
Anticipated completion date	<i>April 15, 2015 (Contract Completion Date)</i>
Final Walk Through	April 15, 2015 (not complete, continuing punch list items)
Final Acceptance	

### 3.2.2 Progress

ID	Description	Target	Actual	Comments
A	Construct Site 10 Pump Station	April 2015	99%	The construction portion of the project is complete. Close-out paperwork being processed.
B	Construct Site 16 Pump Station	April 2015	99%	The construction portion of the project is complete. Close-out paperwork being processed.
C	Construct Site 5 Pump Station	April 2015	99%	The construction portion of the project is complete. Close-out paperwork being processed.
D	Construct Site 12 Pump Station	April 2015	99%	The construction portion of the project is complete. Close-out paperwork being processed. Handrail change order remaining.
E	Construct Site 15 Pump Station	April 2015	99%	The construction portion of the project is complete. Close-out paperwork being processed.

3.2.3 Property Acquisition – All property is acquired.

3.2.4 Levee Board Considerations – None

3.2.5 Submittals

- Final project closeout submittals being reviewed by Amec.

3.2.6 Change Orders – See Change Order Log attached.

- Modification to construct guardrail at Site 12 remains.

3.2.7 Field Activities and Look Ahead

- Turf establishment is in progress (retainage held).

3.2.8 QC/QA Activities

- The construction portion of the project is complete, except for the change order.

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	
Anticipated start of field activities	
Start of field activities	
Anticipated completion date	<i>December 15, 2015 (Contract Completion Date)</i>
Final Walk Through	
Final Acceptance	

#### 3.3.2 Progress

1. The contract was executed on February 9, 2015.
2. The Notice-to-Proceed was issued on March 5, 2015
3. Contractor preparing and Amec is reviewing submittals.
4. The site work cannot begin until October 15<sup>th</sup> per the 408 permit.

#### 3.3.3 Property Acquisition

- All property is acquired.

#### 3.3.4 Levee Board Considerations

- None

#### 3.3.5 Submittals

- AMEC reviewing submittals.

#### 3.3.6 Change Orders

- None

#### 3.3.7 Field Activities and Look Ahead

- None until October 15, 2015 per 408 permit.

#### 3.3.8 QC/QA Activities

- None

#### 3.3.9 Considerations

- None

#### 3.3.10 Payment Progress

- None

### 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	Various field activities have started
Start of field activities	
Anticipated completion date	<i>This completion date is delayed due to design modifications, river, weather and RR land acquisition.</i>
Final Walk Through	
Final Acceptance	

#### 3.4.2 Progress

- The 408 permit river restrictions have ceased and critically delayed excavation, well drilling, etcetera from May 27, 2015 to present.
- Union Pacific land acquisition is in progress and NTP was issued on June 10, 2015:
  - Blanket Drain 6, Seepage Berms 1-4, and random fill areas 1 & 2 can now begin as weather and river elevation permit.
- Blanket Drain 2 - Approved by the board in late February. Keller is installing as the river and weather allow.
- Blanket Drain 4 - Critical Delay - Amec Foster Wheeler Engineering revising the scope of work.
- Piezometer installation continues (43 out of 51 installed)
- Relief Wells - Critical Delay due to high river level. The Contractor installed two relief wells this period. (10 of 85 have been installed). Contractor plans to work 7 days a week, weather dependent.
- Blanket Drain 3, Blanket Drain 5 construction and Weir 1 - Substantial Completion on May 13, 2015.
- Contractor has begun Blanket Drain 7 and weir 4 installation.

#### 3.4.3 Property Acquisition

- A partial NTP was issued March 13, 2014 and rejected by the Contractor. All land acquisition has been obtained except for the MOPAC / UP railroad parcels which encompass 6 sites. Due to recent land acquisition, an additional partial NTP was issued January 14, 2015.
- Due to the railroad land acquisition, a partial NTP was given on June 9, 2015 for the UP portion of the project.

#### 3.4.4 Levee Board Considerations

- Critical Delay: The slow progress of land acquisition has critically affected the levee certification schedule. The delayed railroad acquisition affects: Blanket Drain 6, Seepage Berms 1-4 and Random Fill areas 1&2. Revised schedule to follow.

#### 3.4.5 Submittals

- Submittal process ongoing.

#### 3.4.6 Change Orders

- Major Upcoming Change Orders:
  - Modifications to Blanket Drain 4. Contractor to provide schedule for completion once the modifications have been approved.
- See Change Order Log attached.

#### 3.4.7 Field Activities and Look Ahead

- As indicated above.

#### 3.4.8 QC/QA Activities

Testing as required.

#### 3.4.9 Considerations

- Critical Delay: Current contract completion date was not met due to land acquisition delays. Schedule to be developed.

#### 3.4.10 Payment Progress

- See Contract Invoice Log attached.

### 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
Anticipated completion date	<i>June 30, 2015 (Contract Completion Date)</i>
Final Walk Through	
Final Acceptance	

#### 3.5.2 Progress

- The 408 permit river restrictions have ceased and critically delayed excavation, well drilling, etcetera from May 27, 2015 to present.
- No clay cap earthwork has been performed due to weather.
- Site 09 pump station in progress and approximately 95% complete.
- RW collector system - The 24 inch diameter pipe did not pass the deflection or the mandrel tests. Contractor submitted RFI.

3.5.3 Property Acquisition – All property is acquired.

3.5.4 Levee Board Considerations

- None

3.5.5 Submittals – on-going

3.5.6 Change Orders

- See Change Order Log attached.

3.5.7 Field Activities and Look Ahead

- See table above

3.5.8 QC/QA Activities

- No current material testing needs.

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
Anticipated completion date	<i>September 30, 2015 (Contract Completion Date)</i>
Final Walk Through	
Final Acceptance	

#### 3.6.2 Progress

- The 408 permit river restrictions have ceased and critically delayed excavation, well drilling, etcetera from May 27, 2015 to present.
- Relief Wells and Piezometers - Relief Well and Piezometer work complete. Transducers to be installed in the Piezometers.
- Clay Cap work delayed until weather permits.
- RW collector system - Portions of the collector pipe did not pass the deflection or the mandrel tests. Contractor submitted RFI.
- Sluice Gate rehabilitation at MoPac and 408PS in progress - Submittals approved and material ordered.

#### 3.6.3 Property Acquisition

- All property is acquired.

#### 3.6.4 Levee Board Considerations

- Keller is in the process of obtaining the 210,000 cubic yard clay source.

#### 3.6.5 Submittals

- Submittal process underway.

#### 3.6.6 Change Orders

- See Change Order Log attached.

#### 3.6.7 Field Activities and Look Ahead

- See above table

#### 3.6.8 QC/QA Activities

- Juneau/SCI on site for QC testing as needed.

#### 3.6.9 Considerations

- None other than previously mentioned.

#### 3.6.10 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
Anticipated completion date	<i>September 30, 2015 (Contract Completion Date)</i>
Final Walk Through	
Final Acceptance	

#### 3.7.2 Progress

- The 408 permit river restrictions have ceased and critically delayed excavation, well drilling, etcetera from May 27, 2015 to present.
- Seepage Berms – work continues as weather allows.
- Clay Caps work continues as weather allows and is 90% complete.
- Relief Wells and Piezometers - Relief well drilling complete (67).
- 15 of 16 PZs are complete.
- Relief well collector system is 85% complete.

#### 3.7.3 Property Acquisition

- All property is acquired.

#### 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 – See table above

#### 3.7.8 QC/QA Activities - ABNA is testing material; Geotechnology performing QA testing

#### 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	<i>June 26, 2015 (contract completion date)</i>
Final Walk Through	
Final Acceptance	

#### 3.8.2 Progress

- This project is substantially complete.
- Contractor is completing remaining paperwork and as-builts.

#### 3.8.3 Property Acquisition – Not applicable

#### 3.8.4 Levee Board Considerations - None

#### 3.8.5 Submittals – on-going

#### 3.8.6 Change Orders - None

#### 3.8.7 Field Activities and Look Ahead

- Notice of Award issued September 9, 2014
- Contract Executed September 17, 2014
- Notice to Proceed issued September 22, 2014
- Work began onsite on October 6, 2014 – Site clearing, removal of asphalt pavement, etc.
- Complete work platform and lower portion of clay cap below finished grade.
- SAR Team site visit for initial wall construction, addressed comments in their report.
- Initial quality Control testing results exceeding minimum permeability requirements by two orders of magnitude.
- Geo-Solutions finished the Slurry Wall construction.
- This project is substantially complete.

#### 3.8.8 QC/QA Activities – on-going

#### 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	
Anticipated completion date	<i>May 2016</i>
Final Walk Through	
Final Acceptance	

#### 3.9.2 Progress

- TREVIICOS received Notice-to-Proceed June 9, 2015
- Pre-Construction Meeting held June 15, 2015
- Mobilization is expected in July/August 2015
- Cutoff Wall Scheduled to be complete by December 2015
- Remaining work to be complete May 1, 2016

#### 3.9.3 Property Acquisition

#### 3.9.4 Levee Board Considerations

#### 3.9.5 Submittals – Once contract is signed.

#### 3.9.6 Change Orders - None

#### 3.9.7 Field Activities and Look Ahead

#### 3.9.8 QC/QA Activities

#### 3.9.9 Considerations

#### 3.9.10 Payment Progress - None

**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      Limatorque 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

**TITLE: CONSTRUCTION CHANGE ORDER LOG**

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

**PROJECT NUMBER:** SIFPDC-BP2A

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	Limiterque Actuator	Spec	\$2,245.00	\$0.00	2A.8	\$ 28,700.00	7.82%	0.30%	2/10/2014	Approved	Specification change due to MESD levee district negative experience with spec'd material; spec change to alleviate possible future problems and for consistency with other bid packages
2	Additional Roadway Aggregate	Field	\$7,730.00	\$0.00	2A.3	\$ 141,200.00	5.47%	1.03%	3/18/2014	Approved	Required by Monroe County
3	Building Permit	Field	\$434.00	\$0.00	2A.1	\$ 36,200.00	1.20%	0.06%	3/4/2014	Approved	Required by Monroe County
4	Contract Time Extension	Field	\$0.00	\$0.00	NA	NA	NA	0.00%	3/31/2014	Approved	Contract extended 90 days due to material fabrication delay
5	2nd Contract Time Extension	Field	\$0.00	\$0.00	NA	NA	NA	0.00%	7/24/2014	Approved	Time extension request due to abnormal weather and high river level days that impeded construction
6	3rd Contract Time Extension	Field	\$0.00	\$0.00	NA	NA	NA	0.00%	8/21/2014	Approved	Time extension request due to abnormal weather and high river level days that impeded construction
7	Additional Rock instead Pump Station and Pipe Testing T&M	Field	\$5,189.21	\$0.00	NA	NA	NA	0.69%	9/2/2014	Approved	Additional rock installed for maintenance purposes; Time and material for pipe testing needed
8	Pipe Extension on Stump Property	Field	\$34,501.32	\$0.00	NA	NA	NA	4.62%	9/29/2014	Approved	To enable property owner equipment access to property
<b>Total of Project Change Orders</b>			<b>\$50,099.53</b>	<b>\$0.00</b>						<b>Total</b>	<b>\$ 50,099.53</b>

**Original Contract Amount** \$747,500.00  
**Revised Contract Amount** \$797,599.53  
**% Change from Original Amount** 6.70%

\*Board approval required

**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  
**Total Change Order Amount:** \$156,805.92  
**Total Revised Contract Amount:** \$4,022,210.92

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

**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
<b>Total of Project Change Orders</b>										<b>Total</b>	<b>\$ 156,805.92</b>
<b>Original Contract Amount</b>			<b>Revised Contract Amount</b>			<b>% Change from Original Amount</b>					
<b>\$3,865,405.00</b>			<b>4,022,210.92</b>			<b>4.06%</b>					

Approved

\*Board approval required

## CONTRACT INVOICE LOG

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

**Project:** SWILCD  
**Construction Package:** BP2C

**Original Contract Amount:** \$281,632.00  
**Change Order #1:**  
**Change Order #2:**  
**Change Order #3:**  
**Total Change Order Amount:** \$0.00  
**Total Revised Contract Amount:** \$281,632.00

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 Retained (\$)	Amount Invoiced (\$)	Date Paid by FPD	Estimate to Complete Including Retainage (\$)



**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											
2											
3											
4											
5											
6											
7											
8											
9											
10											
<b>Total of Project Change Orders</b>			<b>\$0.00</b>	<b>\$0.00</b>						<b>Total</b>	<b>\$ -</b>
<b>Original Contract Amount</b>			<b>281,632.00</b>	<b>% Change from Original Amount</b>							
<b>\$281,632.00</b>			<b>281,632.00</b>	<b>0.00%</b>							

Approved

\*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
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	\$558,066.80	\$0.00	3.02 3.04 3.06 3.07 3.29 3.32 3.02 3.09 3.16 3.23 3.25 3.26 3.29 3.36 3.37	\$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				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.
	Relief Well Construction Obstruction Budget	Other	\$500,000.00	\$0.00	3.38 3.39	\$3,507,071.90	14.26%	4.96%	3/18/2015	Budget Approved	RW Construction Obstruction due to Cobble Layer; Board approval required; 3/18/15 Board approved budget; to process change orders as needed

**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
	Time Extension	Other								Pending	Anticipated change order to extend contract time due to land acquisition impact on construction
<b>Total of Project Change Orders</b>			<b>\$1,460,895.39</b>	<b>\$0.00</b>						<b>Total</b>	<b>\$ 1,460,895.39</b>

Original Contract Amount \$10,082,345.00  
 Revised Contract Amount 11,543,240.39  
 % Change from Original Amount 14.49%

\*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

**Original Contract Amount:** \$3,190,232.45  
**Change Order #1:** \$8,196.30 Flyght Pump & Locking Sewer Lids per MESD  
**Change Order #2:** \$949.90 Fence Polycarbonate  
**Change Order #3:** \$10,488.00 Fence Grounding per Ameren  
**Change Order #4:** \$1,533.00 2 Additional Posts in Concrete per Phillips 66 Request  
**Change Order #5:** \$2,127.35 Time and material for new fence grounding  
**Change Order #6:** \$2,402.40 Per MESD Request  
**Change Order #7:** \$0.00 Contract Time Extension  
**Change Order #8:** \$1,656.00 2" Well Point SS Pipe  
**Change Order #9:** \$54,680.20 Site 9 Electrical Changes  
**Change Order #10:** \$35,602.21 Work Stoppage due to Soil Testing  
**Change Order #11:** \$80,046.18 Relief Well Construction Obstruction due to Cobble  
**Change Order #12:** \$0.00 Contract Time Extension to June 30, 2015  
**Change Order #13:** \$8,981.67 Relief Well 141XB Re-Design  
**Change Order #14:** \$948.75 Offset Oufall Line of RW 153X  
**Total Change Order Amount:** \$207,611.96  
**Total Revised Contract Amount:** **\$3,397,844.41**

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		\$1,050,175.45

**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	Credit-Remove Vacuum Testing of Manholes	Other								pending	PCN approved to remove the requirements for ASTM C1244 Standard Test Method for Concrete Sewer
<b>Total of Project Change Orders</b>										<b>Total</b>	<b>\$ 207,611.96</b>

Original Contract Amount **\$3,190,232.45**      Revised Contract Amount **3,397,844.41**      % Change from Original Amount **6.51%**

\*Board approval required



**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 of 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

**\$479,683.48**

**Total of Project Change Orders**  
 Original Contract Amount **\$8,256,481.84**  
 Revised Contract Amount **8,736,165.32**  
 Cost to FPD **\$459,984.70**  
 Cost to Others **\$19,698.78**  
 % Change from Original Amount **5.81%**

\*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

**Total Change Order Amount:** \$2,173,137.35  
**Total Revised Contract Amount:** \$15,030,265.10

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
4	3/1/2014	3/14/2014	\$1,486,548.00	\$148,654.80	\$1,337,893.20	\$363,442.50	3/25/2014	\$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	4/22/2014	\$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	5/22/2014	\$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	6/19/2014	\$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	7/17/2014	\$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	8/19/2014	\$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	9/15/2014	\$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	10/16/2014	\$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	11/18/2014	\$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	12/18/2014	\$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	1/26/2015	\$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	2/18/2015	\$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	3/19/2015	\$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	4/16/2015	\$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	5/18/2015	\$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	6/16/2015	\$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		\$1,725,093.82

**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 quantities 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

**Total \$ 2,173,137.35**

**Total of Project Change Orders \$2,173,137.35**  
**Original Contract Amount \$12,857,127.75**  
**Revised Contract Amount \$15,030,265.10**  
**% Change from Original Amount 16.90%**

\*Board approval required

### CONTRACT INVOICE LOG

**Contractor:** Kamadulski Excavating & Grading Co., Inc.  
 4336 State Route 162  
 Granite City, IL 62040

**Project:** SWILCD                      56317001.010.001  
**Construction Package:** BP7A  
**Original Contract Amount:** \$3,076,208.70  
**Change Order #1:** \$13,850.00      Boat Access Ramp  
**Change Order #2:** \$108,897.50      Utility Conflicts  
**Change Order #3:** \$98,660.80      Excavation Levee Slope and Crown Quantity Adjustment  
**Change Order #4:** \$66,693.00      Slurry Wall Quantity Settlement  
**Change Order #5:** \$0.00              Contract Time Extension to June 26, 2015  
**Change Order #6:** \$7,500.00      Site demolition and restoration as required by City of Alton  
**Change Order #7:** \$3,540.25      Clay Cap Volume Change  
**Total Change Order Amount:** \$299,141.55  
**Total Revised Contract Amount:** **\$3,375,350.25**

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	10/31/2014	11/3/2014	\$886,675.70	\$88,667.57	\$798,008.13	\$798,008.13	<a href="#">11/18/2014</a>	\$2,292,050.57
2	11/30/2014	12/8/2014	\$1,824,863.95	\$182,486.40	\$1,642,377.55	\$844,369.42	<a href="#">12/18/2014</a>	\$1,556,578.65
3	12/31/2015	1/9/2015	\$2,520,707.13	\$126,035.37	\$2,394,671.76	\$752,294.21	<a href="#">1/26/2015</a>	\$902,945.24
4	2/28/2015	3/10/2015	\$2,587,400.13	\$129,370.02	\$2,458,030.11	\$63,358.35	<a href="#">3/19/2015</a>	\$906,279.89
5	3/31/2015	4/10/2015	\$2,727,400.13	\$136,370.02	\$2,591,030.11	\$133,000.00	<a href="#">4/16/2015</a>	\$773,279.89
6	5/4/2015	5/10/2015	\$3,278,416.10	\$163,920.82	\$3,114,495.28	\$523,465.17	<a href="#">5/18/2015</a>	\$249,814.72
7	6/5/2015	6/12/2015	\$3,371,810.00	\$67,436.20	\$3,304,373.80	\$189,878.52	<a href="#">6/16/2015</a>	\$67,436.20
7	7/8/2015	7/8/2015	\$3,375,350.25	\$0.00	\$3,375,350.25	\$70,976.45		\$0.00

**TITLE: CONSTRUCTION CHANGE ORDER LOG**

**CLIENT:** Southwestern Illinois Flood Prevention District Council  
**PROJECT:** Bid Package 7A

**PROJECT NUMBER:** SIFPDC-BP7A

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	Temporary Boat Launch Access Road	Design	\$13,850.00	\$0.00	NA	NA	NA	0.45%	10/17/2014	Approved	C-105 & C-504 Drawing revision to include a temporary boat launch road
2*	Utility Conflicts	Field	\$108,897.50	\$0.00	0016	\$225,000.00	48.40%	3.54%	11/19/2014	Approved	Electrical and telephone utility conflicts; Board approval required
3*	Excavation Levee Slope and Crown Quantity Adjustment	Other	\$98,660.80	\$0.00	0009	\$ 89,503.20	110.23%	3.21%	12/17/2014	Approved	Excavation Levee Slope and Crown Quantity Adjustment. Board approval required (see memo for detail)
4	Slurry Trench Cutoff Wall Quantity Settlement	Other	\$66,693.00	\$0.00	0010 0011	\$669,584.00	9.96%	2.17%	3/10/2015	Approved	Slurry Trench Cutoff Wall Quantity Settlement
5	Contract Time Extension to June 26, 2015	Other	\$0.00	\$0.00	0	\$ -	0.00%	0.00%	3/10/2015	Approved	Contract Time Extension to June 26, 2015 due to weather needed for clay placement
6	Site demolition and restoration as required by City of Alton	Other	\$7,500.00	\$0.00	0007	\$315,818.00	2.37%	0.24%	5/15/2015	Approved	Crack fill, seal, and stripe the entire Alton Marina Parking lot, as required by the City of Alton.
7	Clay Cap Volume Change	Field	\$3,540.25	\$0.00	0013	\$860,370.00	0.41%	0.12%	7/9/2015	Approved	Clay Cap Volume Change
<b>Total of Project Change Orders</b>			<b>\$299,141.55</b>	<b>\$0.00</b>						Approved	<b>\$ 299,141.55</b>
<b>Original Contract Amount</b>			<b>\$3,076,208.70</b>								
<b>Revised Contract Amount</b>			<b>\$3,375,350.25</b>					<b>9.72%</b>			

\*Board approval required

**CONTRACT INVOICE LOG**

**Contractor:** TREVIICOS South  
 38 Third Ave. 3rd Floor  
 Boston National Historic Park  
 Charlestown, MA 02129

**Project:** SWILCD  
**Construction Package:** BP7B (Re-Bid)

**Original Contract Amount:** \$13,991,000.00  
**Change Order #1:**  
**Change Order #2:**  
**Change Order #3:**  
**Total Change Order Amount:** \$0.00  
**Total Revised Contract Amount:** \$13,991,000.00

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 Retained (\$)	Amount Invoiced (\$)	Date Paid by FPD	Estimate to Complete Including Retainage (\$)

**TITLE: CONSTRUCTION CHANGE ORDER LOG**

**CLIENT:** Southwestern Illinois Flood Prevention District Council  
**PROJECT:** Bid Package 7B

**PROJECT NUMBER:** SIFDC-BP7B (Re-Bid)

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
<b>Total of Project Change Orders</b>			<b>\$0.00</b>	<b>\$0.00</b>						<b>Total</b>	<b>\$ -</b>

Original Contract Amount    Revised Contract Amount    % Change from Original Amount  
 \$13,991,000.00                  13,991,000.00                  0.00%

\*Board approval required



**ST. LOUIS POST-DISPATCH**

## Metro East levee district is getting a jump on upgrades



JULY 10, 2015 3:30 AM • BY JACOB BARKER

Months away from finishing projects meant to bring Metro East's river protection system back into minimum federal flood-prevention rules, levee officials don't plan to miss a beat.

They're already gearing up for a new round of projects and another bond sale before the end of the year that could finance work on

an even higher level of protection.

And they're not waiting for the U.S. Army Corps of Engineers to do it.

"What the board decided is why should we wait?" said Chuck Etwert, chief supervisor of the Southwestern Illinois Flood Prevention District Council. "Let's keep moving forward."

The levee district voted last month to work on a bond financing package that, combined with savings of some \$15 million on existing projects, could put an estimated \$80 million toward additional work.

Leaders see the additional projects as essential to protect property and lives from the volatile Mississippi River, which experts warn is flooding higher and making federal flood risk calculations less and less accurate.

The hope is the new work can be counted as a local match to any future federal funding toward projects to bring the levees back to what they were built to withstand some 70 years ago: a flood estimated to occur only once every 500 years.

Waiting for the corps to sign off on whether the levee district's projects are an acceptable local match to any federal funds for levee work and "we'd waste another year and a half," Etwert said.

Corps spokesman Mike Petersen said it's a "relatively new" development to apply in-kind work on these types of projects. But the projects are bringing down risk — every little bit of which is important to protect the "\$8 billion of investment and thousands and thousands of lives behind those levees," he said.

So the corps is doing what it can to allow the work to be counted toward federal matching requirements.

“We continue to communicate with the flood prevention district council and work with their engineers to make sure the investments they’re making pay off the way they need them to,” Petersen said.

For several years, the district has been working to get levees back into compliance with 100-year flood protection. That’s the level the Federal Emergency Management Agency deems strong enough to withstand a flood officially estimated to have a 1 percent annual chance of occurring.

A quarter-cent sales tax in Metro East funded bonds to finance the roughly \$110 million worth of work that Etwert said should be finished by the end of this year. Much of that work didn’t qualify for federal matching funds.

By next year officials hope to get approval from FEMA that the levees are again certified to withstand the 100-year flood.

Winning back the 100-year protection is seen as vital to the economy of a portion of Metro East that covers all or parts of many communities, including East St. Louis, Granite City, Alton, Cahokia, Wood River, Roxana, Sauget and Hartford.

Without 100-year accreditation, the roughly 150,000 people and 7,000 businesses would be required to purchase expensive flood insurance, stymieing economic growth in a portion of the region some say can least afford it.

Etwert and corps officials know that just settling for 100-year is not enough. But with an estimated \$270 million of work left to reach the 500-year level, which the corps has said could take nearly 30 years, plenty of work remains.

“Any work toward the 500-year is good work,” Etwert said.

Petersen, though, pointed out that no federal appropriations is available now. He said the district missed out on about \$9.5 million in federal funds toward 500-year flood work last year because it didn’t match the federal money.

There was no local match because the levee district insisted on using union labor for the work, which Petersen said the corps can’t mandate. However, the in-kind approach could resolve that issue, and Etwert said the corps may give more weight to union labor in its bidding process.

Meanwhile, flood experts warn that federal flood guidelines for 100-year and 500-year floods may be underestimating the river’s risk. A study from Washington University professor Bob Criss just last month estimated the 100-year flood height on the Mississippi River at St. Louis was underestimated by more than five feet.

The Dutch protect their infrastructure from 1,250-year river floods and U.S. standards are already underestimating risk, said Nicholas Pinter, a geology professor at Southern Illinois University Carbondale.

“A 100-year protection level is, by international standards, not a lot of protection,” Pinter said. “I think (Metro East levee district officials) are aware that what is called the 100-year protection level is optimistic.”







Memo to: Board of Directors  
From: Chuck Etwert  
Subject: Budget and Disbursement Report for June 2015  
Date: July 13, 2015

Current Budget Highlights

Attached is the financial statement for June 2015 prepared by our fiscal agent, CliftonLarsonAllen. The report includes an accounting of revenues and expenditures for the month ending June 30, 2015, as compared to our fiscal year budget.

Accrued expenditures for the current fiscal year beginning on October 1, 2014 are \$34,882,408 while revenues amounted to \$8,691,414 resulting in a deficit of \$26,190,994. A total of approximately \$23,467,977 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 2015 (the latest month reported by the Illinois Department of Revenue) were down by .51% from the previous year. In general, receipts are still up .87% from last year, which was our highest year.

Monthly Disbursements

Attached is the list of bank transactions for June 2015. Total disbursements for the month were \$2,280,946.03. The largest payments were to Keller Construction for BP #3 and BP #5, Lane Construction for BP #6, Kamadulski Excavating & Grading Co. for BP #7A, , Amec Foster Wheeler and Husch Blackwell.

Recommendation:

Accept the budget report and disbursements for June 2015.





**SOUTHWESTERN ILLINOIS FLOOD PREVENTION  
DISTRICT COUNCIL**

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

**NINE MONTHS ENDING JUNE 2015 AND 2014**







**CliftonLarsonAllen**

CliftonLarsonAllen LLP  
[www.cliftonlarsonallen.com](http://www.cliftonlarsonallen.com)

Board Members  
Southwestern Illinois Flood Prevention District Council  
Collinsville, Illinois

We have compiled the accompanying General Fund Statement of Revenues and Expenditures – Budget and Actual of Southwestern Illinois Flood Prevention District Council (the “Council”) for the nine months ended June 2015 and 2014. We have not audited or reviewed the accompanying financial statements and, accordingly, do not express an opinion or provide any assurance about whether the financial statements are in accordance with accounting principles generally accepted in the United States of America.

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America and for designing, implementing, and maintaining internal control relevant to the preparation and fair presentation of the financial statements.

Our responsibility is to conduct the compilation in accordance with Statement on Standards for Accounting and Review Services issued by the American Institute of Certified Public Accountants. The objective of a compilation is to assist management in presenting financial information in the form of financial statements without undertaking to obtain or provide assurance that there are no material modifications that should be made to the financial statements. During our compilation we did become aware of departures from accounting principles generally accepted in the United States of America that are described in the following paragraph.

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, 2015 and 2014, 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 cursive script that reads "Clifton Larson Allen LLP".

CliftonLarsonAllen LLP

St. Louis, Missouri  
July 7, 2015

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

	BUDGET		ACTUAL	VARIANCE WITH FINAL BUDGET POSITIVE (NEGATIVE)
	ORIGINAL	FINAL		
<b>REVENUES</b>				
Sales Tax Proceeds From Districts	\$ 11,195,000	\$ 11,195,000	\$ 8,435,626	\$ 2,759,374
Interest Income	60,000	60,000	255,788	(195,788)
Other Contributions	-	-	-	-
Total Revenues	<u>11,255,000</u>	<u>11,255,000</u>	<u>8,691,414</u>	<u>2,563,586</u>
<b>EXPENDITURES</b>				
Current				
Design and Construction				
Engineering Design & Construction Management	8,131,050	8,131,050	2,099,627	6,031,423
Construction	45,791,362	45,791,362	23,126,668	22,664,694
Construction and design by US ACE	-	-	-	-
Federal Cost-Share	-	-	-	-
Total Design and Construction	<u>53,922,412</u>	<u>53,922,412</u>	<u>25,226,295</u>	<u>28,696,117</u>
Professional Services				
Legal & Legislative Consulting	216,000	216,000	210,425	5,575
Diversity Program Manager	64,140	64,140	50,020	14,120
Construction Oversight	-	-	-	-
Other	-	-	-	-
Impact Analysis/Research	-	-	-	-
Financial Advisor	120,000	120,000	7,350	112,650
Bond Underwriter/Conduit Issuer	-	-	9,778	(9,778)
Total Professional Services	<u>400,140</u>	<u>400,140</u>	<u>277,573</u>	<u>122,567</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	124,630	72,450
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>2,529,521</u>	<u>1,470,479</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>34,712,778</u>	<u>29,866,403</u>
General and Administrative Costs				
Salaries, Benefits	206,000	206,000	139,754	66,246
Advertising	-	-	-	-
Bank Service Charges	1,500	1,500	1,127	373
Conference Registration	500	500	311	189
Equipment and Software	2,000	2,000	-	2,000
Fiscal Agency Services	26,500	26,500	20,900	5,600
Audit Services	15,000	15,000	-	15,000
Furniture	-	-	-	-
Meeting Expenses	1,000	1,000	-	1,000
Postage/Delivery	400	400	273	127
Printing/Photocopies	2,500	2,500	1,866	634
Professional Services	20,000	20,000	191	19,809
Publications/Subscriptions	250	250	114	136
Supplies	1,500	1,500	2,213	(713)
Telecommunications/Internet	2,500	2,500	1,748	752
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>169,630</u>	<u>118,520</u>
Total Expenditures	<u>64,867,331</u>	<u>64,867,331</u>	<u>34,882,408</u>	<u>29,984,923</u>
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES	(53,612,331)	(53,612,331)	(26,190,994)	27,421,337
OTHER FINANCING SOURCES				
Proceeds From Borrowing	-	-	-	-
NET CHANGE IN FUND BALANCE	<u>\$ (53,612,331)</u>	<u>\$ (53,612,331)</u>	<u>\$ (26,190,994)</u>	<u>\$ 27,421,337</u>

**SOUTHWESTERN ILLINOIS FLOOD PROTECTION DISTRICT COUNCIL  
GENERAL FUND  
STATEMENT OF REVENUES AND EXPENDITURES - BUDGET AND ACTUAL  
NINE MONTHS ENDED JUNE 30, 2014 (Actual)  
FISCAL YEAR ENDING SEPTEMBER 30, 2014 (Budget)**

	BUDGET		ACTUAL	VARIANCE WITH
	ORIGINAL	FINAL		FINAL BUDGET
				POSITIVE (NEGATIVE)
<b>REVENUES</b>				
Sales Tax Proceeds From Districts	\$ 11,237,000	\$ 11,237,000	\$ 8,218,007	\$ 3,018,993
Interest Income	650,000	650,000	755,803	(105,803)
Other Contributions	-	-	100,000	(100,000)
Total Revenues	<u>11,887,000</u>	<u>11,887,000</u>	<u>9,073,810</u>	<u>2,813,190</u>
<b>EXPENDITURES</b>				
Current				
Design and Construction				
Engineering Design & Construction Management	4,000,000	4,000,000	1,829,475	2,170,525
Construction	60,000,000	60,000,000	12,150,099	47,849,901
Construction and design by US ACE	1,000,000	1,000,000	2,477,634	(1,477,634)
Federal Cost-Share	-	-	-	-
Total Design and Construction	<u>65,000,000</u>	<u>65,000,000</u>	<u>16,457,208</u>	<u>48,542,792</u>
Professional Services				
Legal & Legislative Consulting	210,000	210,000	84,212	125,788
Construction Oversight	210,000	210,000	151,650	58,350
Other	-	-	-	-
Impact Analysis/Research	-	-	2,856	(2,856)
Financial Advisor	40,000	40,000	12,837	27,163
Bond Underwriter/Conduit Issuer	100,000	100,000	-	100,000
Total Professional Services	<u>560,000</u>	<u>560,000</u>	<u>251,555</u>	<u>308,445</u>
Refund of Surplus Funds to County FPD Accounts				
Madison County	2,270,400	2,270,400	1,458,865	811,535
Monroe County	220,800	220,800	145,179	75,621
St. Clair County	2,308,800	2,308,800	1,463,595	845,205
Total Refund of Surplus Funds to County	<u>4,800,000</u>	<u>4,800,000</u>	<u>3,067,639</u>	<u>1,732,361</u>
Debt Service				
Principal and Interest	7,107,440	7,107,440	7,102,339	5,101
Federal Interest Subsidy	(910,140)	(910,140)	(422,305)	(487,835)
Total Debt Service	<u>6,197,300</u>	<u>6,197,300</u>	<u>6,680,034</u>	<u>(482,734)</u>
Total Operating Expenses	<u>76,557,300</u>	<u>76,557,300</u>	<u>26,456,436</u>	<u>50,100,864</u>
General and Administrative Costs				
Salaries, Benefits	192,331	192,331	156,208	36,123
Advertising	-	-	-	-
Bank Service Charges	600	600	1,079	(479)
Conference Registration	500	500	372	128
Equipment and Software	4,000	4,000	1,768	2,232
Fiscal Agency Services	23,000	23,000	33,550	(10,550)
Furniture	-	-	-	-
Meeting Expenses	1,000	1,000	28	972
Postage/Delivery	400	400	218	182
Printing/Photocopies	2,500	2,500	1,745	755
Professional Services	20,000	20,000	8,663	11,337
Publications/Subscriptions	250	250	2,125	(1,875)
Supplies	1,500	1,500	1,622	(122)
Telecommunications/Internet	2,000	2,000	2,097	(97)
Travel	15,000	15,000	2,317	12,683
Insurance	1,000	1,000	981	19
Total General & Administrative Costs	<u>264,081</u>	<u>264,081</u>	<u>212,773</u>	<u>51,308</u>
Total Expenditures	<u>76,821,381</u>	<u>76,821,381</u>	<u>26,669,209</u>	<u>50,152,172</u>
<b>EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES</b>				
	(64,934,381)	(64,934,381)	(17,595,399)	47,338,982
<b>OTHER FINANCING SOURCES</b>				
Proceeds From Borrowing	10,000,000	10,000,000	-	10,000,000
<b>NET CHANGE IN FUND BALANCE</b>	<u>\$ (54,934,381)</u>	<u>\$ (54,934,381)</u>	<u>\$ (17,595,399)</u>	<u>\$ 37,338,982</u>

# Flood Prevention District Sales Tax Trends 2009-2015

<b>2009</b>												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	587067	\$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%	





**SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL  
SUPPLEMENTARY SUPPORTING SCHEDULE  
BANK TRANSACTIONS  
June 30, 2015**

Beginning Bank Balance June 1		\$	375,936.63
Receipts			
UMB	06/12/2015 Funds Transfer/Construction		2,204,732.22
UMB	06/12/2015 Funds Transfer/Admin		45,071.83
The Bank of Edwardsville	06/30/2015 May Interest		97.81
			<b>2,249,901.86</b>
Disbursements			
ABNA	06/02/2015 Design & Construction		4,371.80
Smith Dawson & Andrews	06/02/2015 Professional Services		5,000.00
Wood River Drainage and Levee District	06/02/2015 Construction Insurance		3,299.00
BuyOnLine	06/04/2015 Office Supplies		50.82
Endica	06/04/2015 Postage		50.00
Microsoft Office	06/07/2015 Subscription		0.99
CliftonLarsonAllen LLP	06/09/2015 Fiscal Agent		2,100.00
Columbia Capital	06/09/2015 Financial Advisor		600.00
Amec Foster Wheeler Environment & Infrast	06/12/2015 Design & Construction		258,600.63
Marks & Associates	06/12/2015 Professional Services		3,590.00
The Bank-Service Fees	06/12/2015 Wire Fee		10.00
The Bank-Service Fees	06/12/2015 Wire Fee		10.00
Phillip L. Johnson	06/15/2015 Construction		22,650.00
Keller Construcion Inc	06/16/2015 Construction		591,686.15
The Lane Construction Corporation	06/16/2015 Construction		602,458.77
AT & T	06/17/2015 Telephone		91.90
CDW Government	06/18/2015 Office Supplies		255.41
Keller Construcion Inc	06/18/2015 Construction		484,246.37
Kamadulski Excavating & Grading CO, Inc	06/18/2015 Construction		189,878.52
Columbia Capital	06/18/2015 Financial Advisor		825.00
Cost Less Copy Center	06/18/2015 Board Meeting Materials		252.00
Juneau Associates	06/18/2015 Design & Construction		2,664.05
East-West Gateway Council of Governments	06/18/2015 Supervisor Mgt Services		16,737.95
The Bank-Service Fees	06/18/2015 Wire Fee		15.00
The Bank-Service Fees	06/18/2015 Wire Fee		15.00
The Bank-Service Fees	06/18/2015 Wire Fee		15.00
The Bank-Service Fees	06/18/2015 Wire Fee		15.00
ABNA	06/22/2015 Design & Construction		2,250.15
Husch Blackwell	06/25/2015 Legal & Legsilative		10,587.15
Husch Blackwell	06/25/2015 Legal & Legsilative		5,280.33
Husch Blackwell	06/25/2015 Construction Legal		55,390.05
ABNA	06/25/2015 Design & Construction		14,930.95
Dorgan, McPike & Assoc, LTD	06/25/2015 Legal & Legsilative		3,000.00
The Bank-Service Fees	06/30/2015 Bank Service Fee		18.04
			<b>2,280,946.03</b>
		\$	<b>344,892.46</b>





Memo to: Board of Directors  
From: Chuck Etwert  
Subject: FY 2016 Annual Budget  
Date: July 13, 2015

As is our custom, the Board first reviews the draft budget for the coming fiscal year at our 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.

With 58% of construction of the project completed at the end of June, the FY2016 budget focuses on the completion of all construction needed to achieve FEMA accreditation. Unfortunately, during FY2015 we experienced delays due to the obtainment of necessary easements, high river conditions and a contract termination on the Wood River Deep Cutoff Wall Project. This has pushed the accreditation schedule back a year.

We will enter FY2016 with five of the current nine contract packages complete, and two more being completed by the end of the calendar year. This will leave only BP #3, which was delayed due to easement obtainment, and BP #7B, the Wood River Deep Cutoff Wall Project to be completed. BP #3 should be completed by February and BP #7B should have the cutoff wall portion complete by the end of the year and grading and turf restoration completed by May 2016.

Certification Packages, as outlined in the Amec Foster Wheeler Work Order #12, will be submitted as each levee system is completed. Amec Foster Wheeler will submit each certification package approximately four months after completion of construction, with FEMA accreditation anticipated in another four months.

I have put together a cash flow budget, in addition to our regular proposed budget, which will take us through fiscal year 2016 and includes all costs for the completion of the 100-Year Projects and initial costs for the 500-Year Authorized Level Projects. This cash flow budget provides an additional breakdown of expected design and construction costs. It has been revised from a calendar year basis to a fiscal year basis and reflects expected revenues and expenditures for the fiscal years 2015 and 2016. I have continued the past practice of making conservative revenue and expenditure assumptions. Key assumptions are:

1. Project construction will be complete by May 31, 2016 and FEMA certification will be achieved by December 31, 2016.
2. A 10% construction cost contingency is included for all remaining construction on all projects still being built.
3. Sales tax revenue is estimated to increase by 1.00% over last year, our highest level of receipts. This is our current increase level thru June of this year.
4. Cash flow is based on current available revenue and does not include additional debt financing for the 500-Year Authorized Level Projects.
5. The Council will assist levee districts in establishing funding sources, where and if needed, for the maintenance and operations of the 100-Year improvements being built.
6. County FPD sales tax accounts will be used for the 500-Year Authorized Level Projects.
7. The Council's general and administrative expenses remain the same.

The results of the budget analysis are shown in the following tables.

Table 1 shows estimated project costs for design, construction and Council operations.

Table 2 shows estimates of revenues available to the project. At the start of this calendar year \$50.6 million raised from the Series 2010 bonds remained available. As stated earlier, minimum growth is assumed in the sales tax revenues in 2016 based on receipts thru June of this year. Interest income is based on information received from our financial advisor.

Table 3 compares expenses to revenues. The table illustrates that \$14 million of funds in the County FPD sales tax accounts or the new proposed bond issue will have to be utilized to balance the budget.

Table 4 illustrates that even after expenditures of \$12.9 million on the Authorized Level Projects in FY2015 and FY2016, there would be a balance of \$9.4 million remaining for future 500-Year Authorized Level Projects.

The projected surplus of funds from the completion of the 100-Year Level Projects is \$22.3 million. The accumulation is higher than identified a year ago, due to construction delays, reduced contingencies, and an additional nine months of sales tax revenues (previous cash flow report terminated on at the end of calendar year 2015) which offset change orders and the rebid of BP 7B.

These tables illustrates that the Council will meet our goal of achieving FEMA certification with the revenue available from the dedicated FPD sales tax. Easements, high river stages, and

construction delays have push accreditation back but we are well on our way to achieving accreditation by the end of 2016.



Table 1

*Estimated Project Expenditures 10.1.2014 -9.30.2016*

Design & Construction			TOTAL 2
	FY 2015	FY 2016	YEAR COST
<b>Engineering Design</b>			
<i>W. O. #1 Program Mgmt.</i>	\$245,000	\$300,000	\$545,000
<i>W. O. #3 Preconstruction Activities</i>	\$107,000	\$45,000	\$152,000
<i>W. O. #5 COR Investigation</i>	\$1,241	\$80,000	\$81,241
<i>W. O. #7 Final Design</i>	\$23,665	\$0	\$23,665
<i>W. O. #9 Wood River Cutoff Walls</i>	\$208,596	\$100,000	\$308,596
<i>W. O. #11 FEMA Certification Services</i>	\$75,000	\$250,000	\$325,000
<i>W. O. #12 Authorized Level Planning Services</i>	\$71,100	\$198,900	\$270,000
<b>Additional Authorized Level Work Orders</b>			
<i>Wood River Field Activities BP #8, BP #9, &amp; BP #10</i>	\$22,500	\$520,000	\$542,500
<i>Wood River Design BP #8, BP #9, &amp; BP #10</i>	\$0	\$1,521,000	\$1,521,000
<i>MESD Field Activities</i>	\$21,000	\$4,800,000	\$4,821,000
<i>MESD Design</i>	\$0	\$725,000	\$725,000
<i>Prairie Du Pont/Fish Lake Field Activities</i>	\$21,000	\$2,400,000	\$2,421,000
<i>Prairie Du Pont/Fish Lake Design</i>	\$0	\$650,000	\$650,000
<i>Corps of Engineers Authorized Level Costs</i>	\$0	\$1,392,340	\$1,392,340
<b>Construction Management.</b>			
<i>W. O. #8 Construction Management BP #1 - #6</i>	\$1,828,000	\$450,000	\$2,278,000
<i>W. O. #10 Construction Management BP #7A &amp; #7B</i>	\$387,000	\$1,275,000	\$1,662,000
<i>QC/Materials Testing</i>	\$375,000	\$625,000	\$1,000,000
<b>TOTAL ENGINEERING DESIGN &amp; CONSTRUCT. MGMT.</b>	\$3,386,102	\$15,332,240	\$18,718,342
<b>Construction</b>			
<i>Bid Package #2a</i>	\$76,377		\$76,377
<i>Bid Package #2b</i>	\$1,337,988		\$1,337,988
<i>Bid Package #2c</i>		\$281,632	\$281,632
<i>Bid Package #3</i>	\$5,752,690	\$5,452,091	\$11,204,781
<i>Bid Package #4</i>	\$3,104,767		\$3,104,767
<i>Bid Package #5</i>	\$5,104,420	\$1,784,604	\$6,889,024
<i>Bid Package #6</i>	\$8,546,726	\$1,035,056	\$9,581,782
<i>Bid Package #7A</i>	\$3,375,350		\$3,375,350
<i>Bid Package #7B</i>	\$2,886,673	\$11,104,327	\$13,991,000
<i>Contingency (10% of Remaining Construction)</i>	\$765,426	\$1,965,771	\$2,731,197
<i>Utilities</i>	\$14,775	\$0	\$14,775
<i>Property Acquisition 100-Year Projects</i>	\$803,000		\$803,000
<i>Property Acquisition Authorized Level - Wood River</i>		\$400,000	\$400,000
<i>Wetland Mitigation</i>	\$27,970	\$27,970	\$55,940
<i>HazMat Mitigation</i>	\$400,000	\$1,600,000	\$2,000,000
<i>Legal</i>	\$313,729	\$580,000	\$893,729
<b>TOTAL CONSTRUCTION</b>	\$32,509,891	\$24,231,451	\$56,741,342
<b>TOTAL DESIGN &amp; CONSTRUCTION</b>	\$35,895,993	\$39,563,691	\$75,459,684
<b>Operations &amp; Financing</b>			
<i>General &amp; Administrative</i>	\$244,471	\$270,500	\$514,971
<i>Debt Service</i>	\$7,101,239	\$7,103,089	\$14,204,328
<i>Interest Rate Subsidy</i>	(\$843,700)	(\$843,700)	(\$1,687,400)
<i>Professional Services</i>			
<i>Legal</i>	\$182,325	\$295,000	\$477,325
<i>Legislative</i>	\$96,000	\$96,000	\$192,000
<i>Financial Advisor</i>	\$44,725	\$83,200	\$127,925
<i>Diversity Program Mgr.</i>	\$64,380	\$25,130	\$89,510
<i>Bond Trustee</i>	\$9,778	\$10,000	\$19,778
<b>TOTAL OPERATIONS</b>	\$6,899,218	\$7,039,219	\$13,938,437
<b>TOTAL EXPENSES</b>	\$42,795,211	\$46,602,910	\$89,398,121

Table 2

*Estimated Revenue 10.1.2014 – 9.30.2016*

<b>Fund Sources</b>	<b>FY2015</b>	<b>FY2016</b>	<b>TOTAL</b>
<i>Sales Tax Revenue</i>	\$11,384,692	\$11,500,000	\$22,884,692
<i>Interest Income</i>	\$270,000	\$75,000	\$345,000
<i>Cash on hand (9/30/14)</i>	\$1,546,104		\$1,546,104
<i>Bond Funds Balance (9/30/14)</i>	\$50,585,265		\$50,585,265
<b>TOTAL FUNDS AVAILABLE</b>	\$63,786,061	\$11,575,000	\$75,361,061

Table 3

*Surplus/Deficit FY2015-FY2016*

<b>Fund Sources</b>	<b>FY2015</b>	<b>FY2016</b>	<b>TOTAL</b>
<i>Revenue</i>	\$63,786,061	\$11,575,000	\$75,361,061
<i>Expenses</i>	\$42,795,211	\$46,602,910	\$89,398,121
<b>Surplus/Deficit</b>	\$20,990,850	(\$35,027,910)	<b>(\$14,037,060)</b>

Table 4

*Estimated Revenue Available from County FPD Sales Tax Funds*

<i>County FPD Tax Bal. (as of 6/30/15)</i>	\$23,467,977
<i>Less Deficit</i>	<b>(\$14,037,060)</b>
<b>Estimated Remaining Revenue From 100-Year Projects Available for Future Authorized Level Projects</b>	<b>\$9,430,917</b>
<b>Estimated Expenditures on Authorized Level Projects in FY2015 &amp; FY2016</b>	<b>\$12,817,840</b>
<b>Actual Estimated Surplus Funds From 100-Year Projects</b>	<b>\$22,248,757</b>

A draft FY2015 budget is shown in Table 5.

The construction of the project did not progress as fast as expected in the FY2015. After completing \$16.6 million of construction FY2014, it appears that \$32.5 million will be completed in FY 2015, leaving a balance of \$24.2 million to be completed in FY2016. However, construction of all of the 100-Year Projects will be completed in FY2016. Administrative expenditures, which are a relatively small portion of our costs, remain virtually unchanged for the next year.

In general, expenditures for next year's budget are based on completion of the 100 year level of protection projects, and the start of the 500-Year Authorized Level Projects.

Key assumptions are:

1. Project construction will be completed by May 31, 2016 and FEMA certification will be achieved by December 31, 2016.
2. The level of Council staffing does not change in FY2016, and general and administrative costs remain a very small portion of the project expenditures (less than 1%). Staff resources are supplemented however, by the continued 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 still being built.
5. Sales tax revenue is estimated to increase by 1.00% over last year, our highest level of receipts. This is our current increase level thru June of this year.
6. Additional debt financing of \$65,000,000 (current estimate) for the 500-Year Authorized Level Projects is included in this year's budget.
7. The Council will assist levee districts in establishing funding sources, where and if needed, for the maintenance and operations of the 100-Year improvements being built.
8. County FPD sales tax accounts will be used for the 500-Year Authorized Level Projects.

It should be noted that the Corps' Estimate of Authorized Level Costs (Wood River only) was received late last week and is still being reviewed. However, costs projected by the Corps appear to be high when compared to the projected AMEC Foster Wheeler Work Order #13 costs. At

this time, no funds for Corps Authorized Level costs involving MESD or Prairie Du Pont/Fish Lake have been included.

After considering any comments or suggestions over the next month, a final FY2016 budget will be presented at the August Board meeting for adoption and forwarding to the county boards for their approval.



Table 5  
**SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL**  
**PROPOSED BUDGET**  
**OCTOBER 1, 2015 THRU SEPTEMBER 30, 2016**

	AUDITED EXPENDITURES		PROJECTED EXPENDITURES		PROPOSED BUDGET	
	OCTOBER 1, 2013 THRU SEPTEMBER 30, 2014		OCTOBER 1, 2014 THRU SEPTEMBER 30, 2015		OCTOBER 1, 2015 THRU SEPTEMBER 30, 2016	
<b>REVENUES</b>						
Sales Tax Proceeds From Districts	\$	11,242,506	\$	11,379,933	\$	11,500,000
Interest Income		670,341		270,788		75,000
Other Contributions		-		-		-
Total Revenues		11,912,847	\$	11,650,721	\$	11,575,000
<b>EXPENDITURES</b>						
Design and Construction						
Engineering Design & Construction Management		5,931,237		3,386,102		13,939,900
Construction		16,631,933	\$	32,509,891		24,231,451
USACE Authorized Level Costs		2,477,634	\$	-		1,392,340
Total Design and Construction		25,040,804		35,895,993		39,563,691
Professional Services						
Legal & Legislative Consulting		148,005		278,325		391,000
Diversity Program Manager		189,875		64,380		25,130
Construction Oversight		13,505		-		-
Other		2,150		-		-
Financial Advisor		26,026		44,725		83,200
Bond Trustee Fee		3,816		9,778		10,000
Total Professional Services		383,377	\$	397,208	\$	509,330
Refund of Surplus Funds to County FPD Accounts						
Total Refund of Surplus Funds to County		5,739,485	\$	4,221,521	\$	4,000,000
Debt Service						
Principal and Interest		7,086,037		7,101,239		7,103,089
Federal Interest Subsidy		(844,610)		(843,700)		(843,700)
Total Debt Service		6,241,427	\$	6,257,539	\$	6,259,389
Total Design & Construction Expenses		37,405,093	\$	46,772,261	\$	50,332,410
General and Administrative Costs						
Salaries, Benefits		202,740		190,754		196,500
Advertising		-		-		-
Bank Service Charges		1,514		1,502		1,500
Annual IL Lobbyist Registration		372		311		350
Equipment and Software		-		-		2,000
Fiscal Agency Services		25,300		27,200		29,000
Audit Services		14,100		14,100		15,000
Meeting Expenses		28		-		1,000
Postage/Delivery		314		363		400
Printing/Photocopies		2,518		2,488		2,500
Professional Services		8,663		191		10,000
Publications/Subscriptions		718		117		250
Supplies		2,903		2,956		3,000
Telecommunications/Internet		2,622		2,956		3,000
Travel		2,548		565		5,000
Insurance		982		968		1,000
Total General & Administrative Costs		265,322	\$	244,471		270,500
Total Expenditures		37,670,415	\$	47,016,732		50,602,910
<b>EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES</b>						
		(25,757,568)	\$	(35,366,011)	\$	(39,027,910)
<b>OTHER FINANCING SOURCES</b>						
Proceeds From Borrowing		-	\$	-	\$	65,000,000
<b>NET CHANGE IN FUND BALANCE</b>						
	\$	(25,757,568)	\$	(35,366,011)	\$	25,972,090





Memo to: Board of Directors  
 From: Chuck Ewert  
 Subject: Change Orders BP #06  
 Date: July 13, 2015

As mentioned in the progress report, Amec Foster Wheeler will be explaining be two change orders on BP #6 – Emergency T & M Work – Flood Event June 2015 and Modifications to PDP/FL Piezometers 204L, 537L, and 679L.

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, which currently applies to Bid Package 06.

**Bid Package 06 – Emergency T&M Work - Flood Event June 2015 - \$9,115.83**

Emergency action work in preparation for high river elevations on the Prairie Du Pont and Fish Lake Levee System. All work completed was on a T&M basis:



SWILFPDC  
 BP 06 LEVEE IMPROVEMENTS  
 PROJECT # 563170001

Emergency T&M Work - Flood Event June 2015

TYPE OF WORK COMPLETED ON T&M BASIS

Work associated with emergency action in preparation for high river elevations at direction by AMEC FW.

EMPLOYEE	TRADE	6/18/15		6/20/15		6/26/15		TOTAL STRAIGHT TIME	TOTAL OVER TIME	RATE	INSUR RATE	PAYROLL RATE
		STRAIGHT TIME	OVER TIME	STRAIGHT TIME	OVER TIME	STRAIGHT TIME	OVER TIME					
Lane Supervision	O	4.00	0.00	0.00	4.00	2.00	0.00	6.00	4.00	30.00	300.00	360.00
Operator Foreman	O	8.00	0.00	0.00	4.00	4.00	0.00	12.00	4.00	38.70	619.20	696.60
Laborer	L	8.00	0.00	0.00	4.00	8.00	0.00	16.00	4.00	29.90	598.00	657.80
								0.00	0.00		0.00	0.00
								0.00	0.00		0.00	0.00
								0.00	0.00		0.00	0.00
											1,517.20	1,714.40
								HOURS	RATE	TOTAL		
								30.00	19.92	597.60		
								16.00	29.45	471.20		
								*LABOR PENSION AND WELFARE FUNDS-				
								*OPERATOR PENSION & WELFARE FUND-				
								SUBTOTAL LABOR				2,783.20
								PLUS 15%				417.48
								SUBTOTAL LABOR				3,200.68
								*PLUS : WORKMENS COMP	8.25 %	1,714.40	141.44	
								*FEDERAL UNEMPLOYMENT TAX	0.12 %	1,714.40	2.06	
								*STATE UNEMPLOYMENT TAX	12.85 %	1,714.40	220.30	
								*FICA / MEDICARE TAX	7.65 %	1,714.40	131.15	
								TOTAL PAYROLL ADDITIVES		494.95		
								PLUS 15%		74.24		
								TOTAL LABOR =				3,769.87

EQUIPMENT EXPENSES	UNIT	6/18/15	6/20/15	6/26/15	TOTAL	RATES	TOTAL
		QUAN	QUAN	QUAN			
330 EXCAVATOR		2.00	4.00		6.00	121.01	726.06
3" WATER PUMP		4.00			4.00	15.00	60.00
D6 DOZER		4.00			4.00	99.60	398.40
JOHN BOAT				2.00	2.00	25.00	50.00
BOBCAT		2.00			2.00	35.00	70.00
JOB TRUCK AND TRAILER				4.00	4.00	23.00	92.00
JOB TRUCK (DODGE 2500)			2.00		2.00	20.00	40.00
SUPERVISOR PICKUP		4	4.00	2.00	10.00	20.00	200.00
							1,636.46
						+15%=	245.47
TOTAL EQUIPMENT =							3,518.39

MATERIAL	UNIT	6/18/15	6/20/15	6/26/15	TOTAL	COST	TOTAL
		QUAN	QUAN	QUAN			
FLOWABLE FILL	CY		2.00		2.00	134.00	268.00
12" SDR 35 PIPE (LESS 50% SALVAGE)	LF	40			40.00	8.06	322.40
10" RISER PIPE (LESS 50% SALVAGE)	LF			10	10.00	51.50	515.00
							1,105.40
						+15%=	165.81
TOTAL MATERIAL =							1,271.21
TOTAL LABOR=							3,769.87
TOTAL EQUIPMENT=							3,518.39
TOTAL MATERIAL=							1,271.21
SUBTOTAL BILL=							8,559.47
LANE M/U 5%							427.97
PLUS 1.5% BOND							128.39
TOTAL BILL =							9,115.83

**Bid Package 06 – Modifications to PDP/FL Piezometers 204L, 537L, and 679L - \$29,097.93**

**LANE**

Description	Added Qty	Unit Price	Total
Piezometer	2	\$8,310.00	\$16,620.00
Abandon Piezometer	3	\$1,440.00	\$4,320.00
Piezometer Modifications	3	\$594.00	\$1,782.00

Mobilization and demobilization costs for bringing drill rig from off site:

Mob Costs = \$2,900.00

Demob costs = \$1,700.00

Lane Markup and Bond (6.5%) = \$1,775.93

TOTAL = \$29,097.93

Recommendation: Authorize the Chief Supervisor to approve BP06 requested change order for the Emergency T&M Work for the June 2015 Flood Event for \$9,115.83 and Modifications to PDP/FL Piezometers 204L, 537L, and 679L for \$29,097.93; for a total not to exceed **\$38,213.76**.





Memo to: Board of Directors  
From: Chuck Etwert  
Subject: Amec Foster Wheeler Work Order 13  
Wood River Authorized Level Field Investigation and Design  
Date: July 13, 2015

As discussed during the Wood River Authorized Level Project Summary Report at last month's meeting, Amec Foster Wheeler proposes the development of three bid packages for the Wood River Levee System.

At the meeting, they will present their Work Order for the Wood River Authorized Level Field Investigation and Design, which will include complete Construction Documents and associated Design Services in support of the design and construction of levee improvements throughout the Lower Wood River Levee system.

Services include:

- Land Surveys
- Assisting USACE with Underseepage Analysis
- Seepage Berm/Clay Cap/ Fill Solutions
- Relief Well Solutions (New & Rehabilitated)
- General Civil Improvements (New Pump Stations, Conveyance Systems, Roads)
- Stakeholder Coordination
- Bid Phase Services

A detailed scope of work and cost estimate for the Wood River Authorized Level Field Investigation and Design is attached to this memo.

**Recommendation:** Authorize the Chief Supervisor to execute Work Order 13 with Amec Foster Wheeler Environment & Infrastructure Inc. for the Wood River Authorized Level Field Investigation and Design, as shown in the attachment, in the amount of \$2,462,000.







**WORK ORDER NO: MSA01-WO13**

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

**July 15, 2015,**

By and Between

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler)

and

**Southwestern Illinois Flood Prevention District Council (CLIENT)**

CLIENT Office: 104 United Drive Amec Foster Wheeler Project No: 563170001  
Collinsville, IL 62234

CLIENT Contact: Charles Etwert Work Order Type: (Check One)

Amec Foster Wheeler Office: 15933 Clayton Road Time and Materials (rates attached) X  
Suite 215 Fixed Price \_\_\_\_\_

Ballwin, MO 63011

Amec Foster wheeler Contact: Jon Omvig CLIENT Reference No: n/a

1. SCOPE OF WORK: See Attachment A (incorporated herein by reference)

2. LOCATION/CLIENT FACILITY INVOLVED: Lower Wood River Levee

3. PERIOD OF PERFORMANCE: July 15, 2015 through December 31, 2017

4. AUTHORIZED FUNDING: \$2,462,000

5. SPECIAL PROVISIONS: n/a

**Southwestern Illinois Flood Prevention District Council**

**Amec Foster Wheeler Environment & Infrastructure, Inc.**

By: \_\_\_\_\_

By: \_\_\_\_\_

Name: Charles Etwert

Name: Jon Omvig

Title: Chief Supervisor of Construction and the Works

Title: St. Louis Office Manager

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Address: 104 United Drive  
Collinsville, IL 62234

Address: 15933 Clayton Road, Suite 215  
Ballwin, MO 63011

**Attachment A  
Scope of Work**

**WORK ORDER NO: MSA01-WO13**

Services to be provided by Amec Foster Wheeler under this Work Order include complete Construction Documents and associated Design Services in support of the design and construction of levee improvements throughout the Lower Wood River Levee system to protect against the Authorized Level Flood Event, as defined by the Corps of Engineers. Services to be provided by Amec Foster Wheeler under this Work Order include:

## 1. **LAND SURVEYS**

- 1.1. Prepare land-based topographic surveys to locate limits of physical features, ground elevations and improvements to supplement aerial photos and Lidar survey data.
- 1.2. Prepare boundary surveys for those properties that will require fee simple ROW acquisition, to include:
  - obtain a title commitment (in anticipation of the purchase of title insurance)
  - prepare a property boundary survey meeting the minimum standards of an “Urban Class Boundary Survey” or ALTA/ASCM land title survey
- 1.3. Prepare strip map surveys for those properties that will require an easement for ROW acquisition, to include:
  - obtain an informational title commitment (no title insurance)
  - prepare a property boundary survey meeting the minimum standards of an “Urban Class Boundary Survey” or ALTA/ASCM land title survey
- 1.4. Prepare permanent easement and temporary construction easement (TCE) acquisition documents, to include:
  - recordable exhibit
  - legal description
  - permanent easement language
  - TCE language
  - calculate area to be acquired

2. **ASSIST USACE WITH UNDERSEEPAGE ANALYSIS**

- 2.1. Support The U.S. Army Corps of Engineers St. Louis District with information needed for underseepage analysis. Much work has been completed by Amec Foster Wheeler, on behalf of the FPD Council, in Lower Wood River; Amec Foster Wheeler will use its expertise, experience, and data to ensure the St. Louis District is basing their underseepage solutions for the Authorized Level Flood Event on not only Corps-obtained data and analyses, but also on FPD Council-obtained data.

### 3. **SEEPAGE BERM / CLAY CAP / FILL SOLUTIONS**

- 3.1. The design solutions proposed by the St. Louis District will be reviewed in conjunction with the other underseepage solutions planned and the through-seepage alternative solutions will be evaluated to provide a constructible and efficient approach
- 3.2. Prepare utility relocation construction documents for non-utility company relocated utilities, to include:
  - construction drawings
  - specifications
  - construction cost estimate
- 3.3. Coordinate utility relocations for utility company relocated utilities, to include:
  - coordinate conflict resolution
  - coordinate schedule
  - coordinate relocation cost
- 3.4. Prepare complete seepage berm / clay cap / gravel ditch fill construction drawings, to include:
  - limits of existing right-of-way
  - limits of new right-of-way
  - limits of temporary construction easements
  - limits of wetlands and limits of assumed wetland disturbance
  - aerial photo background
  - topographic information (existing contours and utilities)
  - length, width, depth and location of seepage berms
  - length, height and location of clay blankets
  - length and location of gravel ditch fill
  - appurtenant ditching, road relocation, etc.
- 3.5. Prepare complete seepage berm / clay cap / fill specifications.
- 3.6. Prepare a construction cost estimate.
- 3.7. Prepare Hydrologic and Hydraulic (H&H) modeling for interior drainage impacts associated with design improvements for submittal to regulatory agencies as needed.
- 3.8. All designs will be in accordance with USACE practices and procedures to ensure Work-in-kind credit is obtained.

4. **RELIEF WELL SOLUTIONS (NEW & REHABILITATED)**
- 4.1. GEOTECHNICAL ANALYSIS AND DESIGN
- 4.2. Confirm re-use or abandonment of existing Relief Wells with the St. Louis District.
- 4.3. Prepare complete utility relocation construction documents, to include:
  - construction drawings
  - specifications
  - construction cost estimate
- 4.4. Prepare complete utility relocation construction documents for non-utility company relocated utilities, to include:
  - construction drawings
  - specifications
  - construction cost estimate
- 4.5. Coordinate utility relocations for utility company relocated utilities, to include:
  - coordinate conflict resolution
  - coordinate schedule
  - coordinate relocation cost
- 4.6. Prepare complete relief well construction drawings, to include:
  - limits of existing right-of-way
  - limits of new right-of-way
  - limits of temporary construction easements
  - limits of wetlands and limits of assumed wetland disturbance
  - aerial photo background
  - topographic information (existing contours and utilities)
  - existing relief wells to be abandoned
  - existing relief wells to be rehabilitated
  - existing relief wells to be rehabilitated and converted from D type to T type
  - new D type and new T type relief wells
  - appurtenant relief well discharge ditching, conveyance, storage, etc.
- 4.7. Prepare specification for abandonment of unneeded or deficient relief wells.
- 4.8. Prepare specification for installation of new relief wells.
- 4.9. Prepare a construction cost estimate.
- 4.10. All designs will be in accordance with USACE practices and procedures to ensure Work-in-kind credit is obtained.

5. **GENERAL CIVIL IMPROVEMENTS (NEW PUMP STATIONS, CONVEYANCE SYSTEMS, ROADS)**

- 5.1. Complete full design of 3 pump stations, including geotechnical analysis, mechanical design, electrical design, plumbing design, structural design, and general civil design.
- 5.2. All designs will be in accordance with USACE practices and procedures to ensure Work-in-kind credit is obtained.
- 5.3. Coordinate with pump station appurtenances suppliers to design 3 new pump stations.
- 5.4. Prepare complete civil construction drawings, to include:
  - limits of existing right-of-way
  - limits of new right-of-way
  - limits of temporary construction easements
  - limits of wetlands and limits of assumed wetland disturbance
  - aerial photo background
  - topographic information (existing contours and utilities)
  - new pump stations
  - gravity drain rehabilitation
  - appurtenant ditching, road relocation, etc.
- 5.5. Prepare complete specifications.
- 5.6. Prepare a construction cost estimate.

6. **STAKEHOLDER COORDINATION**

- 6.1. Meet with the Council as needed to present and discuss design progress.
- 6.2. Attend public meetings as needed to present design progress.
- 6.3. Attend meetings as needed with Wood River Drainage District to discuss design solutions.
- 6.4. Attend coordination meetings with the USACE as needed.



7. **BID PHASE SERVICES**

7.1. Provide bid procurement services for each bid package, to include:

- Advertisement
- Pre-Bid Meeting
- Respond to question regarding the clarity or intent of the contract documents.
- Prepare and issue addenda.
- Receive and open bids in public forum

7.2. Coordinate with construction management team to review bids and recommend contractor selection for each bid package.