



**SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL
BOARD OF DIRECTORS MEETING
September 21, 2016 7:30 am**

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

1. Call to Order
Ron Motil, President
2. Approval of Minutes of August 17, 2016
3. Public Comment on Pending Agenda Items
4. Program Status Report
Chuck Etwert, Chief Supervisor
5. Budget Update and Approval of Disbursements
Chuck Etwert, Chief Supervisor
6. Design and Construction Update
Jay Martin, Amec Foster Wheeler
7. Change Order BP #3
Amec Foster Wheeler Environment & Infrastructure
Chuck Etwert, Chief Supervisor
8. Amec Foster Wheeler Work Order Amendments
Amec Foster Wheeler Environment & Infrastructure
Chuck Etwert, Chief Supervisor
9. Amec Foster Wheeler Work Order #16
Prairie Du Pont/Fish Lake Authorized Level Field Investigation and Design Phase I
Amec Foster Wheeler Environment & Infrastructure
Chuck Etwert, Chief Supervisor
10. Update from Corps of Engineers
Tracey Kelsey, U.S. Army Corps of Engineers

AGENDA

11. Public Comment

Executive Session - Litigation

12. Other Business

13. Adjournment

Next Meeting: October 19, 2016

MINUTES

SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL BOARD OF DIRECTORS MEETING

August 17, 2016

The regular meeting of the Board of Directors was held at the Metro-East Park and Recreation District Office, 104 United Drive, Collinsville, Illinois at 7:30 a.m. on Wednesday August 17, 2016.

Members in Attendance

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

Members Absent

Tom Long, Madison County Flood Prevention District

Others in Attendance

Alan Dunstan, Madison County Board Chair
Mark Kern, St. Clair County Board Chair
Terry Liefer, Monroe County Board Chair
Chuck Etwert, SW Illinois FPD Council
Rich Conner, Levee Issues Alliance
Randy Cook, Amec Foster Wheeler Environment & Infrastructure
Mike Feldmann, U.S. Army Corps of Engineers
Walter Greathouse, Metro-East Sanitary District
Gary Hoelscher, Millennia Professional Services
David Human, Husch Blackwell LLP
Charles Juneau, Juneau Associates Inc.
Ron Kaempfe, Operators Local 520
Steve Kochan, Wood River Levee & Drainage District
Jay Martin, Amec Foster Wheeler Environment & Infrastructure
Jack Norman, Southern Illinois Groundwater Advisory Council
David Oates, Oates Associates
Jon Omvig, Amec Foster Wheeler Environment & Infrastructure
Rhonda Sauget, Leadership Council

Matt Vielhaber, U.S. Army Corps of Engineers
Julie Ziino, U.S. Army Corps of Engineers

Call to order

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

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

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

A quorum was present.

Approval of Minutes of July 20, 2016

A motion was made by John Hamm, seconded by Bruce Brinkman, to approve the minutes of the Board meeting held on July 20, 2016. Mr. Conrad called the roll and the following votes were made on the motion:

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

The motion was approved.

Public Comment on Pending Agenda Items

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

Program Status Report

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

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

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

However, as we all know we had significant rainfall earlier this week. We need to reach an elevation of 10.0, and as of this morning we were at 14.75 and no forecasts have been issued since last week. The delay of installation continues to have an effect on the completion times of the bid packages involved. In addition, some expenditures originally projected for FY 2016 have been moved into FY 2017, which he indicated would be discussed in the annual budget presentation.

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

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

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

As mentioned last month, on August 9th and 10th, FEMA held Open House events regarding the FEMA 2016 County Floodplain Work Maps for St. Clair and Monroe Counties. These events, similar to the events held in Madison County in late June, focused on work maps and the interior drainage and floodplain in Counties.

Today's meeting is the "annual meeting" of the Council where the Board adopts a budget and annual report for submittal to the county boards for approval, and where officers are elected for the coming fiscal year.

The Board was provided a copy of Amec Foster Wheeler's Monthly Progress Report for August.

Mr. Parks arrived during the presentation.

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

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

The motion was approved unanimously.

Budget Update and Approval of Disbursements

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

Mr. Etwert noted that the financial statement for July 2016 prepared by our fiscal agent, CliftonLarsonAllen was included in the materials sent for the meeting. The report included an accounting of revenues and expenditures for the month ending July 31, 2016, as compared to the fiscal year budget.

Accrued expenditures for the current fiscal year beginning on October 1, 2015 are \$40,904,167 while revenues amounted to \$10,040,339 resulting in a deficit of \$30,863,828. A total of approximately \$27,531,855 is held by the counties in their respective FPD sales tax funds and is available for the Council's use on the project.

Monthly sales tax receipts for May 2016 (the latest month reported by the Illinois Department of Revenue) were down 1.36% from last year. Total receipts for the year are up 1.06% from last year, which was our highest year.

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

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

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

A motion was made by Mr. Parks, seconded by Mr. Brinkman, to accept the budget report and approve the disbursements for July 2016. Mr. Conrad called the roll and the following votes were made on the motion:

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

The motion was approved unanimously.

Design and Construction Update

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

Construction Status

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

- Pipe Replacement – Awaiting manageable river/groundwater levels.

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

- As-Built and closeout documentation complete.

Bid Package 3 – Wood River Seepage Improvements

- Blanket Drains and Seepage Berms – Complete
- Railroad Embankment Fill 2 – 65% Complete.
- Punch List work in Lower Wood River ongoing.

Bid Package 4 – MESD Seepage Improvements (Conoco Phillips)

- Clay Cap - 80% Complete.
- Pipe Replacement – Awaiting manageable river/groundwater levels.

Bid Package 5 – MESD Seepage Improvements

- Clay Cap – In progress. Stripping topsoil and prepping borrow site.
- Pipe Replacement – Awaiting manageable river/groundwater levels.

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

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

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

- Site Restoration – In progress.

Construction Photos

Bid Package 3 – Wood River – Blanket Drain #4 Complete

Bid Package 3 – Wood River – Blanket Drain #4 IL-143 Patch

Bid Package 3 – Wood River –Seepage Berm #1 Catch Basins and Piping

Bid Package 5 – MESD – Stripping Rip Rap & Topsoil at Clay Cap

Bid Package 7B – Wood River – Paving MCT Trail

Bid Package 7B – Wood River – Finishing MCT Trail

Bid Package 7B – Wood River – Site Restoration

He next discussed the FEMA Certification packages.

FEMA Certification Update

Upper Wood River

- Continue to work with the USACE on package details

Wood River East & West Forks

- Certification package nearly complete

Lower Wood River

- Deep cut-off wall

MESD

- Pending completion of Bid Packages 2B, 4, & 5.
- 10.5' diameter sewer rehabilitation is designed.
Package submitted to USACE on 7/12/2016
Working on Easement Acquisition
Awaiting any response from USACE before bidding
- Construction Completion delayed by river levels

Prairie du Pont & Fish Lake

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

Lastly, he discussed the status of the Authorized Level (500-Year) Design.

Authorized Level (500-Year) Design

Wood River – Bid Packages 8, 9, and 10

- Have submitted 35% for Bid Package 8 to the Corps for review (8/8/16). BP 9 and 10 require additional borings, on hold pending USACE funding.

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

- BP11 & 14 – drilling nearing complete, awaiting laboratory results to complete well designs
- BP 12 & 13 – drilling on hold; will remobilize upon access approval from TRRA.
- Corps continues to provide additional boring locations as re-evaluation is completed.

PdP/FL – Bid Package 15

- Authorized Level Design Report for most of the levee is on the agenda for today.
- Corps will finalize remaining areas when funds are available.

Mr. Bergkoetter arrived during the presentation.

There was a brief discussion regarding the delay of construction, estimated to be at least six months, due to the river not receding as fast as desired. No one would have thought a year ago, when the Council approved the installation of the concrete pipe, that eleven months later none of the pipe would have been installed due to high river levels. It was indicated that the contractors are ready to immediately begin installation of the concrete pipe once the acceptable water table elevation is achieved.

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

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

The motion was approved unanimously.

FY 2017 Flood Prevention District Council Budget

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

He explained, by law, the Council's budget must be adopted by August 31 of each year for the fiscal year beginning October 1. The budget must be submitted to the county boards for approval after which they have 30 days to act on it. A draft budget was presented to the Board of Directors at the July meeting. Accompanying the draft budget was a two year expenditure chart which provided an additional breakdown of expected design and construction costs.

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

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

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

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

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

The recommended FY 2017 budget is shown in Table 1.

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

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

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

Key assumptions are:

1. All 100-Year Level project construction will be completed by March 31, 2017 and FEMA certification will be achieved by late summer or fall of 2017.
2. The level of Council staffing does not change in FY 2017, and general and administrative costs continue to remain a very small portion of the project expenditures (less than 1%). Staff resources continue to be supplemented by the significant use of consulting and professional services.
3. In accordance with the bond indenture, all sales tax receipts are intercepted by the Trustee and any surpluses after payment of debt service and Council administrative costs will be transferred back to the county FPD funds for use in future project financing. These transfers are shown as expenditures in the budget.
4. A 10% construction cost contingency is included for all remaining construction on all projects currently being built or to be built.

5. Sales tax revenue is estimated to increase by 1.00% over last year, our highest level of receipts. Our current increase level thru July of this year is 1.06%. Interest income is based on information received from our financial advisor
6. Funding for Corps of Engineers' oversight on FPD design and construction has been included. These funds will satisfy the Corps of Engineers' five percent cash requirement on future projects constructed by the Corps.
7. The Council will continue to work with levee districts in establishing funding sources, where and if needed, for the maintenance and operations of the 100-Year improvements being built.
8. With the sale of additional revenue bonds in FY 2016, current Authorized Level funding is anticipated to be about \$86 million.
9. County FPD sales tax funds will be used for the 500-Year Authorized Level Projects, after all of the Council's funds have been utilized.

Tables 2 & 3 have been revised to reflect the shifting of the \$1.5 million from FY2016 to FY2017.

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

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

Table 4, remains the same, reflecting anticipated Authorized Level funding is approximately \$86 million.

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

Mr. Etwert requested approval of the proposed FY2017 annual budget and authorization to submit the approved budget to the Boards of St. Clair, Madison, and Monroe Counties.

There was a brief discussion on the movement of the \$1.5 million from the FY2016 budget to the FY2017 budget.

Mr. Motil asked for a motion to approve the FY 2017 Flood Prevention District Council Budget, as presented, and authorize the Chief Supervisor to submit the approved FY2017 budget to the Boards of St. Clair, Madison, and Monroe Counties. A motion was made by Mr. Parks, with a second by Mr. Bergkoetter to approve the FY 2017 Flood Prevention District Council Budget, as presented, and authorize the Chief Supervisor to submit the approved FY2017 budget to the Boards of St. Clair, Madison, and Monroe Counties. Mr. Conrad called the roll and the following votes were made on the motion:

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

The motion was approved.

FY2016 Flood Prevention District Council Annual Report

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

Mr. Etwert explained by law, the Council must submit an Annual Report to each county board describing activities for the past year. We generally submit this report with our annual request for approval of our budget.

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

With the Council's approval he will submit the Annual Report to the Counties.

Mr. Motil asked for a motion to accept the Annual Report and authorize the Chief Supervisor to submit the FY 2016 Flood Prevention District Council Annual Report to the Boards of St. Clair, Madison, and Monroe Counties. A motion was made by Mr. Bergkoetter with a second by Dr. Moore to accept the Annual Report and authorize the Chief Supervisor to submit the FY 2016 Flood Prevention District Council Annual Report to the Boards of St. Clair, Madison, and Monroe Counties. . Mr. Conrad called the roll and the following votes were made on the motion:

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

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

The motion was approved.

Agreement with Ameren Illinois for BP #5A

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

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

A copy of the Ameren Illinois invoice for \$52,689.94 to perform the necessary work was provided in the agenda package to the Board.

He requested authorization to enter into an agreement with Ameren Illinois for the installation of two new poles and the redo of hardware on the existing poles for the proper clearance for a road relocation at a cost not to exceed \$52,689.94

Mr. Motil asked for a motion to authorize the Chief Supervisor to enter into an agreement with Ameren Illinois for BP #5A for the installation of two new poles and the redo of hardware on the existing poles for the proper clearance for a road relocation at a cost not to exceed \$52,689.94. A motion was made by Mr. Hamm with a second by Dr. Moore to authorize the Chief Supervisor to enter into an agreement with Ameren Illinois for BP #5A for the installation of two new poles and the redo of hardware on the existing poles for the proper clearance for a road relocation at a cost not to exceed \$52,689.94. Mr. Conrad called the roll and the following votes were made on the motion:

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

The motion was approved.

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

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

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

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

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

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

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

During construction the contractor was required to determine the depths of several pipelines that cross over a short span of the levee system in order to ensure that placement of clay material will not damage the lines. After investigation, some lines were found to be very shallow, some with approximately 1 foot of cover overtop the pipelines. As a result, the contractor will be required to perform hand compaction over this section of the clay cap, so as not to damage the pipelines. Additionally, the contractor has costs associated with re-opening the clay borrow pit as a result of the delay caused by the pipeline locations and coordination with the Corps of Engineers and the utility companies. This change order covers the cost to perform this hand compaction work and re-open the borrow pit. A change order in the amount of \$108,620.00 is recommended.

There was a brief discussion regarding the ownership of the pipelines.

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

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

Mr. Cook also provided the Board, as requested last month, the following list of potential upcoming change orders that may be presented to the Board in the future. The list summarizes change orders that are being negotiated, being finalized, awaiting additional information from the contractor, or awaiting completion of a construction item.

Pending Change Orders:

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

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

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

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

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

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

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

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

Mr. Motil requested a motion to authorize the Chief Supervisor to approve the requested change Orders for BP #2C - Random Fill Material Overage with Haier Plumbing at a cost not to exceed \$26,670.00; BP #3 – Credit Relief Well Quantity Adjustments with Keller Construction for a credit of (\$138,005.38); BP #4 – Clay Cap Bridge with Haier Plumbing at a cost not to exceed \$108,620.00; and BP #5 – Credit Relief Well Quantity Adjustment with Keller Construction for a credit of (\$207,274.33) for a total credit of (\$209,989.71).

A motion was made by Mr. Hamm, with a second by Mr. Parks to authorize the Chief Supervisor to approve the requested change orders for BP #2C - Random Fill Material Overage with Haier Plumbing at a cost not to exceed \$26,670.00; BP #3 – Credit Relief Well Quantity Adjustments with Keller Construction for a credit of (\$138,005.38); BP #4 – Clay Cap Bridge

with Haier Plumbing at a cost not to exceed \$108,620.00; and BP #5 – Credit Relief Well Quantity Adjustment with Keller Construction for a credit of (\$207,274.33) for a total credit of (\$209,989.71). Mr. Conrad called the roll and the following votes were made on the motion:

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

The motion was approved.

Mr. Hamm requested that list of pending change orders be placed on file.

Mr. Motil requested a motion to place pending change orders for BP #3 - Random Fill Material Overage with Keller Construction (Cost Unknown); BP #5 – Casing Pipe Support Deletion with Keller Construction (\$534.00); BP #5 Hybrid Clay Cap Topsoil with Keller Construction (Cost Unknown); and BP #6 – Seepage Berm Quantity with Lane Construction (~\$200,000.00) on file. A motion was made by Mr. Hamm, with a second by Mr. Parks to place pending change orders for BP #3 - Random Fill Material Overage with Keller Construction (Cost Unknown); BP #5 – Casing Pipe Support Deletion with Keller Construction (\$534.00); BP #5 Hybrid Clay Cap Topsoil with Keller Construction (Cost Unknown); and BP #6 – Seepage Berm Quantity with Lane Construction (~\$200,000.00) on file. Mr. Conrad called the roll and the following votes were made on the motion:

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

The motion was approved.

Acceptance of Prairie Du Pont/Fish Lake Authorized Level Project Summary Report Phase I

Mr. Motil asked Mr. Cook 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 Phase I of the Authorized Projects in the Prairie Du Pont/Fish Lake Levee System. This was included in the agenda packet and a Project Cost Estimate was provided this morning.

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

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

Phase I covers approximately sixty to seventy percent of the work anticipated in the Prairie Du Pont/ Fish Lake Levee System.

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

Phase I involves twenty-three USACE decision segments (330 foot lengths) and consists of sixteen new seepage berms and thirty-eight relief wells. Subsurface investigations will be performed to confirm the exact number of berms and wells needed.

The preliminary construction cost estimate to complete the work is about \$24,000,000.

If the Council accepts the report today, Amec Foster Wheeler will come back next month with a Work Order for Field Investigation and Design.

Unlike in Wood River and MESD, where multiple bid packages were recommended, in order, to provide flexibility to avoid exceeding the 35% Work In-Kind Credit limit, there is only one bid package proposed for Prairie Du Pont/Fish Lake. With one hundred percent Council funding there is no limit on the amount of the bid package. In addition, a single bid package will provide the benefit of economy of scale, especially when it comes to the amount of seepage berm material needed.

The number of Bid Packages in Phase II will be determined at a later date.

Mr. Etwert confirmed that acceptance of the Prairie Du Pont/Fish Lake Authorized Level Project Summary Report and Cost Estimates was in line with the Board's Resolution Expressing the

Official Intent to Restore the Federally Authorized Level of the Mississippi Flood River Protection in the Metro-East and the FPD's intent of building the most cost effective and highest priority projects throughout the Counties of Madison, Monroe, and St. Clair.

Mr. Motil asked for a motion to accept the Amec Foster Wheeler Prairie Du Pont/Fish Lake Authorized Level Project Summary Report Phase I and Project Cost Estimate dated August 12, 2016. A motion was made by Mr. Polka, seconded by Mr. Parks, to accept the Amec Foster Wheeler Prairie Du Pont/Fish Lake Authorized Level Project Summary Report Phase I and Project Cost Estimate dated August 12, 2016. Mr. Conrad called the roll and the following votes were made on the motion:

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

The motion was approved.

Corps of Engineers Update

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

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

USACE UPDATE

Mel Price

- Relief Well Construction complete. Including punch list items.

Wood River NFIP Certification

- Wood River Upper LSER – FEMA submittal pending final receipt of O&M manuals and as-built drawings.

East St. Louis (MESD)

- Responding to MVD comments on PPA WIK amendment
- Review of 408 submittal for design of interim solution for 10.5' gravity drain continues
- Pilot project underway to develop an Emergency Action Plan (EAP), including inundation maps. Plan will serve as a guideline to effectively prepare and respond to a flood event
- Continue coordinated efforts on bid package 14 Berms P & S completion

Wood River

- Reviews continue of deep cutoff wall Phase 2 design
- Wood River Shallow Cutoff Wall Phase 2
Contract award June 30, 2016
NTP issued July 20, 2016
Partnering Meeting held August 10, 2016
- Responding to MVD comments on PPA WIK amendment
- Continue coordinated efforts on bid package 8, Relief Wells/Pump Station P&S completion

Prairie Du Pont/Fish Lake

- Submitted request for reprogrammed funds
- Planned activities include
Complete LRR re-analysis of final solution
Update total project costs
Coordination with FPD on WIK efforts

The FPD will be eligible to get WIK credit in Prairie Du Pont/Fish Lake, however, because of the project's low benefit cost ratio it is very doubtful that the Corps will get federal funds for the project allowing the credit could be utilized.

There was a brief discussion concerning the coordination of the design and construction of the Authorized Level Projects between the FPD, Amec Foster Wheeler, and the Corps of Engineers.

Mr. Etwert expressed that everyone was working together. The Authorized Level is controlled by the Corps and the FPD wants to make sure it obtains as much Work In-Kind Credit as possible. It was felt that if the Corps was able to obtain future funding in FY18 and future years that the Authorized Level could possibly be obtained by 2024. If the Corps doesn't obtain funding, then projects will be delayed and costs will rise. Based on current estimates, the FPD has enough funds to provide the 35% share in Wood River and MESD and the 100% cost in Prairie Du Pont/Fish Lake.

Mr. Feldmann indicated that the technical requirements of the project are the easiest to solve, its finding the funds to perform that is difficult.

There was a brief discussion regarding the importance of achieving the Authorized Level.

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

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

The motion was approved unanimously.

Public Comment

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

Election of Officers for 2016-2017

Mr. Motil explained under the Council's bylaws, Board officers (President, Vice-President, and Secretary-Treasurer) serve one year terms, must each be from a different County Flood Prevention District and are elected at the Council's Annual Meeting. The positions have been rotated among the three County Flood Prevention Districts in the past. All Board members are eligible to serve as officers.

A motion was made by Mr. Hamm with a second by Dr. Moore to keep all officers in their current positions for FY2017.

President: Ron Motil
Vice-President: Paul Bergkoetter
Secretary/Treasurer: John Conrad

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

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

The motion was approved unanimously and the FY2017 officers were elected.

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

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

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

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

Dr. Moore made a motion to adjourn the executive session and reconvene the public session at 8:40 am. Mr. Bergkoetter seconded the motion. Mr. Conrad called the roll and the following votes were made on the motion:

Mr. Polka - Aye

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

Mr. Motil called the meeting to order.

Other Business

There was no other business.

Adjournment

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

Respectfully submitted,

John Conrad,
Secretary/Treasurer, Board of Directors



Progress Report August 17, 2016

Southwestern Illinois Levee Systems

By Jay Martin



Construction Status



- ▶ Bid Package 2B – WR/MESD/PdP Pump Stations
 - ▶ Pipe Replacement – Awaiting manageable river/groundwater levels.
- ▶ Bid Package 2C – Site 12 Pump Station Force Mains (MESD)
 - ▶ As-Built and closeout documentation complete.
- ▶ Bid Package 3 – Wood River Seepage Improvements
 - ▶ Blanket Drains and Seepage Berms – Complete
 - ▶ Railroad Embankment Fill 2 – 65% Complete.
 - ▶ Punch List work in Lower Wood River ongoing.
- ▶ Bid Package 4 – MESD Seepage Improvements (Conoco Phillips)
 - ▶ Clay Cap – 80% Complete.
 - ▶ Pipe Replacement – Awaiting manageable river/groundwater levels.

Construction Status



- ▶ Bid Package 5 – MESD Seepage Improvements
 - ▶ Clay Cap – In progress. Stripping topsoil and prepping borrow site.
 - ▶ Pipe Replacement – Awaiting manageable river/groundwater levels.
- ▶ Bid Package 6 – Prairie du Pont / Fish Lake Seepage Improvements
 - ▶ All work substantially complete. Punch List work in progress.
- ▶ Bid Package 7B – Wood River Lower (Deep) Cut-off Wall
 - ▶ Site Restoration – In progress.

Bid Package 3 – Wood River



Blanket Drain #4
Complete



Bid Package 3 – Wood River



Bid Package 3 – Wood River



Bid Package 5 – MESD



Stripping Rip
Rap & Topsoil
at Clay Cap

08/09/2016 07:23

Bid Package 7B – Wood River



Paving MCT Trail

08/09/2016 09:40

Bid Package 7B – Wood River



Bid Package 7B – Wood River



FEMA Certification Update

- ▶ Upper Wood River
 - ▶ Continue to work with the USACE on package details

- ▶ Wood River East & West Forks
 - ▶ Certification package nearly complete

- ▶ Lower Wood River
 - ▶ Deep cut-off wall

FEMA Certification Update

- ▶ MESD
 - ▶ Pending completion of Bid Packages 2B, 4, & 5.
 - ▶ 10.5' diameter sewer rehabilitation is designed.
 - ▶ Package to submitted to USACE on 7/12/2016.
 - ▶ Working on Easement Acquisition.
 - ▶ Awaiting any response from USACE before bidding.
 - ▶ Construction Completion delayed by river levels

- ▶ Prairie du Pont & Fish Lake
 - ▶ Pending completion of Bid Packages 2B & 6.
 - ▶ Construction completion 3rd Quarter 2016
 - ▶ Submit to FEMA by 4th Quarter of 2016.

Authorized Level (500-Year) Design

Wood River – Bid Packages 8, 9 and 10

- Have submitted 35% for Bid Package 8 to the Corps from review (8/8/16). BP 9 and 10 require additional borings, on hold pending USACE funding.

MESD – Bid Packages 11, 12, 13 and 14

- BP 11 & 14 - drilling nearing complete, awaiting laboratory results to complete well designs.
- BP 12 & 13 - drilling on hold; will remobilize upon access approval from TRRA.
- Corps continues to provide additional boring locations as re-evaluation is completed.

PdP/FL – Bid Package 15

- Authorized Level Design Report for most of the levee is on the agenda for today.
- Corps will finalize remaining areas when funds are available.

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Questions?

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Table 1

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

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

Table 2
Estimated Project Expenditures 10.1.2015 -9.30.2017

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

Operations & Financing

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

Table 3

Estimated Revenues 7.1.2016 - 9.30.2017**Fund Sources**

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

Estimated Expenditures 7.1.2016 - 9.30.2017**Expenditures**

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

Net Available Funds \$58,390,135

Table 4

Current Anticipated Authorized Level Funding

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

Prairie du Pont/Fish Lake Authorized Level Project Summary Report

Phase I

Prepared for



Prepared by



August 12, 2016

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Appendix 1 – Bid Package / Design Reach Exhibits

1. General Information / Background

Authorized Level Project

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

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

Prairie du Pont / Fish Lake Levee System

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

USACE Authorized Level Project Decision Segments

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

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

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

2. Recommended Plan

Development of Bid Packages

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

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

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

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

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

Recommendation

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

Geotechnical Analyses of:

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

Subsurface investigations of:

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

Design, Permitting, and Bid Phase Services of:

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

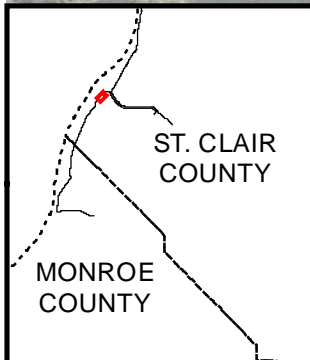
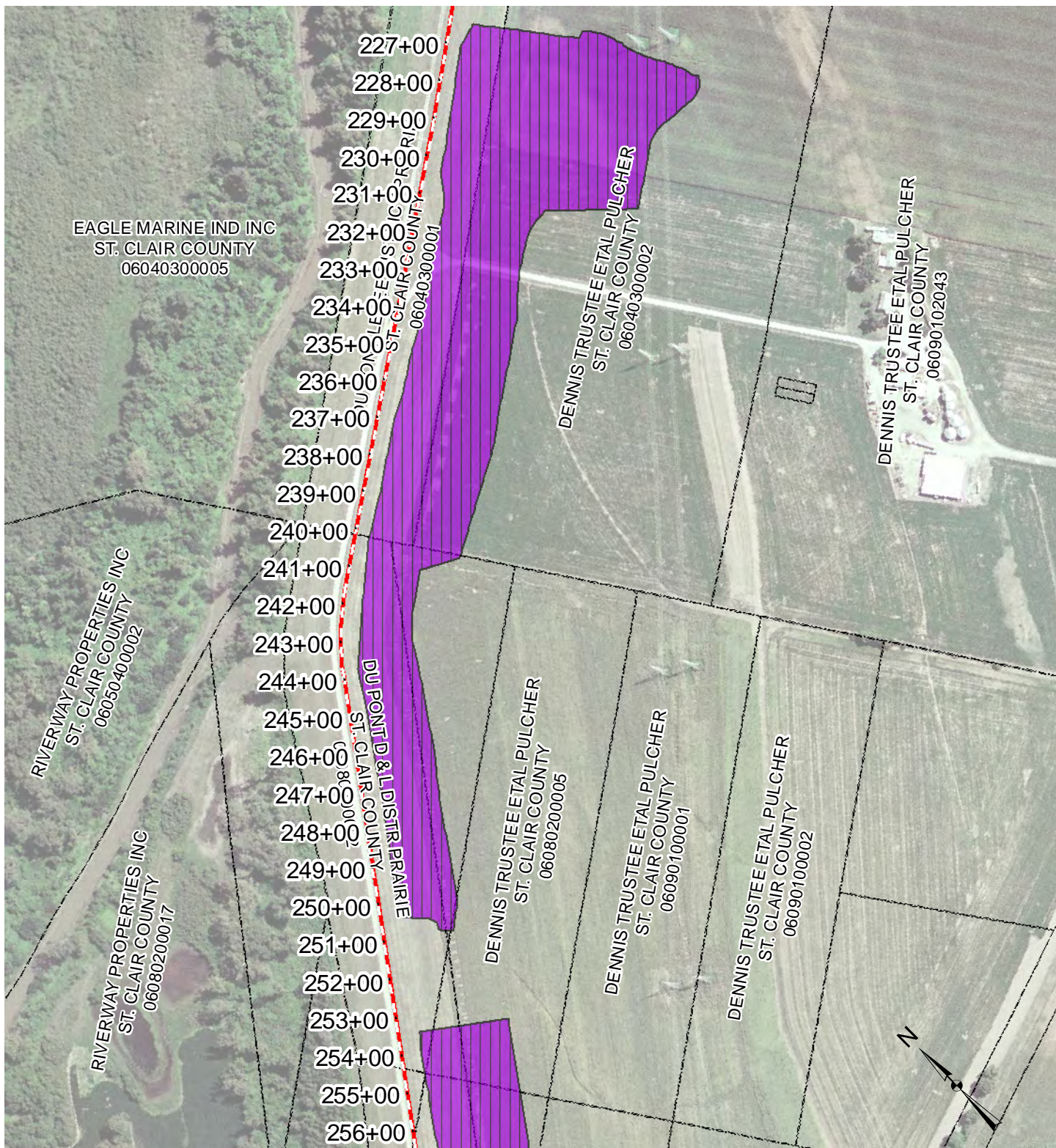
3. Schedule

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

4. Risk in Moving Forward

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

Appendix 1 – Bid Package / Design Reach Exhibits



USACE Authorized Level of Protection Planning and Analysis

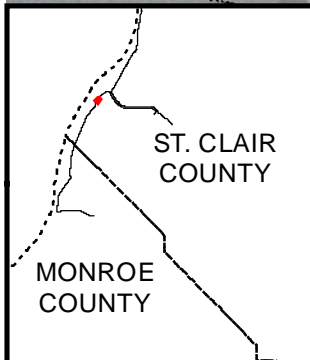
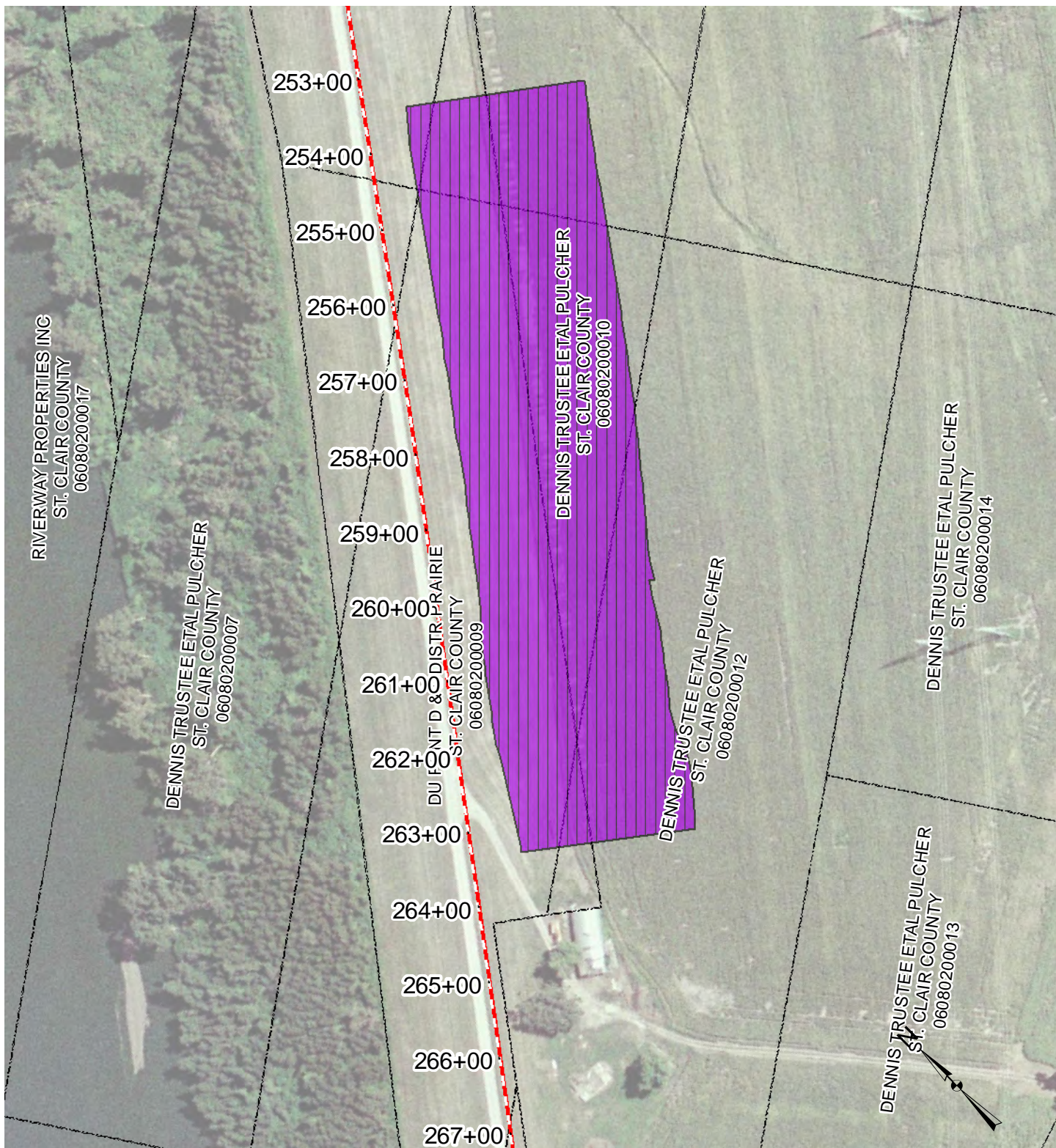
BID PACKAGE 15

PDP LEVEE SYSTEM

DESIGN STA: 227+05 TO 250+15

Legend

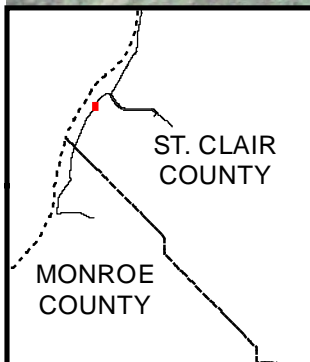
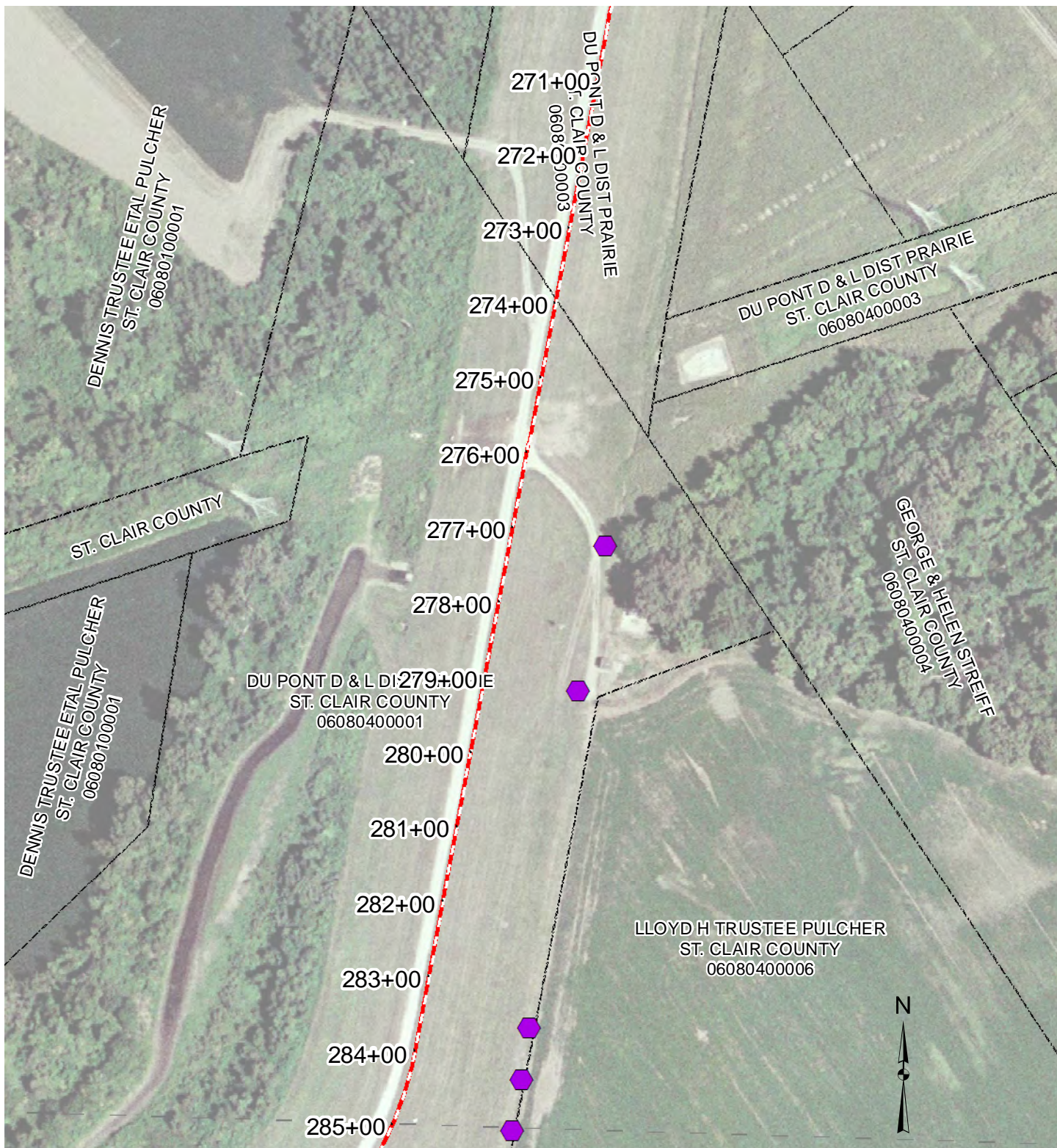
- Relief Well
- Seepage Berm



<p align="center">USACE Authorized Level of Protection Planning and Analysis</p> <p align="center">BID PACKAGE 15</p> <p align="center">PDP LEVEE SYSTEM</p> <p align="center">DESIGN STA: 253+45 TO 263+35</p>		
08/12/2016	SHEET	2 OF 23

Legend

- Relief Well
- Seepage Berm



USACE Authorized Level of Protection Planning and Analysis

BID PACKAGE 15

PDP LEVEE SYSTEM

DESIGN STA: 276+55 TO 279+85

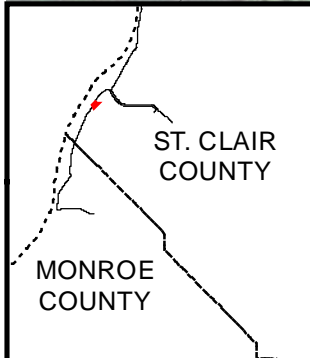
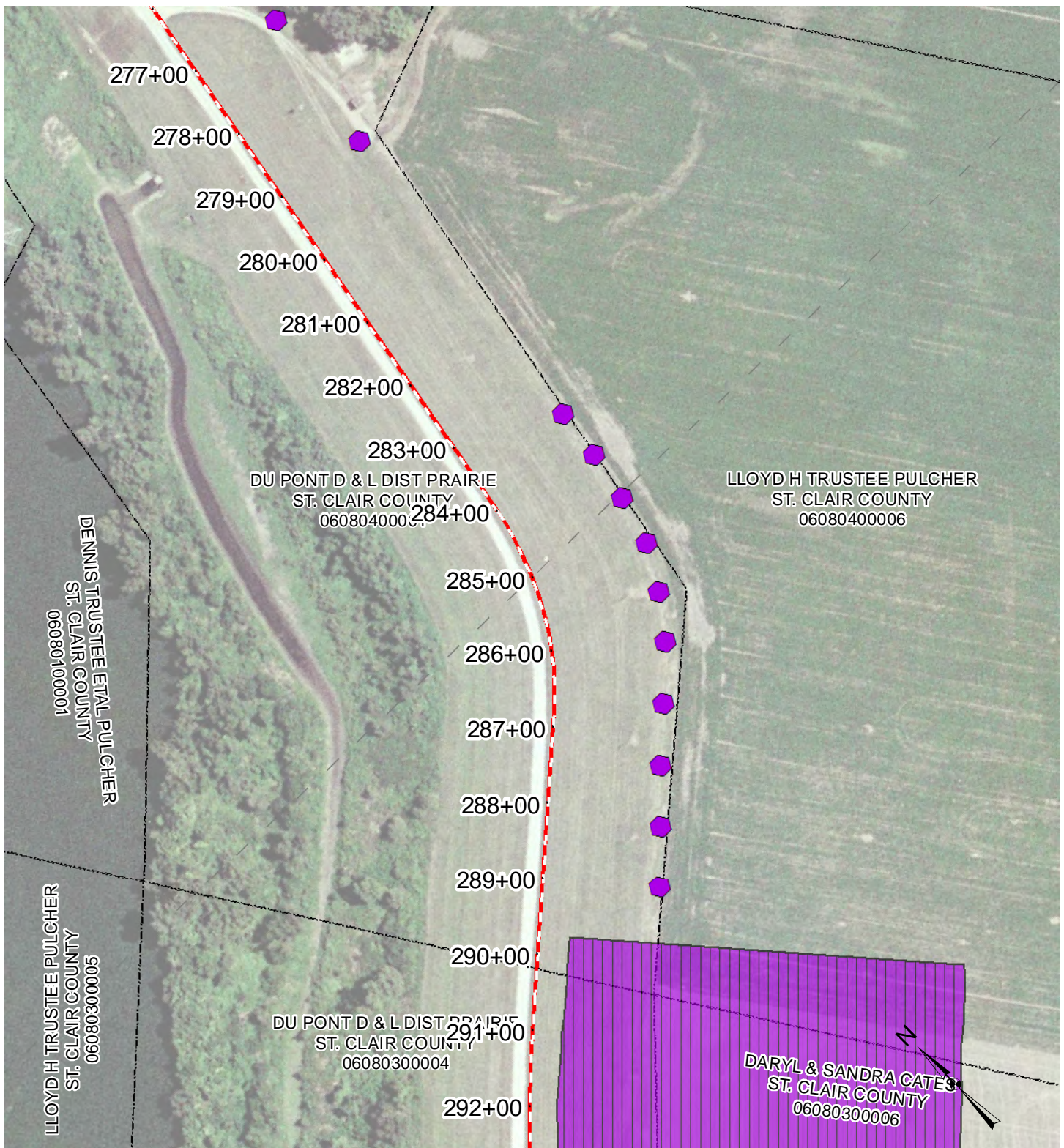
Legend

- Relief Well
- Seepage Berm

08/12/2016

SHEET

3 OF 23



USACE Authorized Level of Protection Planning and Analysis

BID PACKAGE 15

PDP LEVEE SYSTEM



DESIGN STA: 283+15 TO 289+75

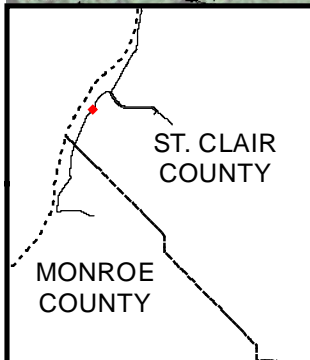
08/12/2016

SHEET

4 OF 23

Legend

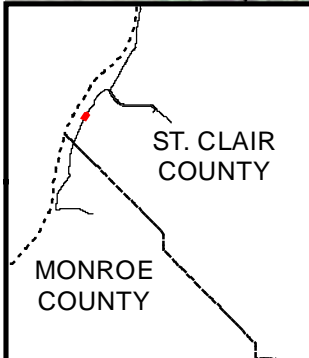
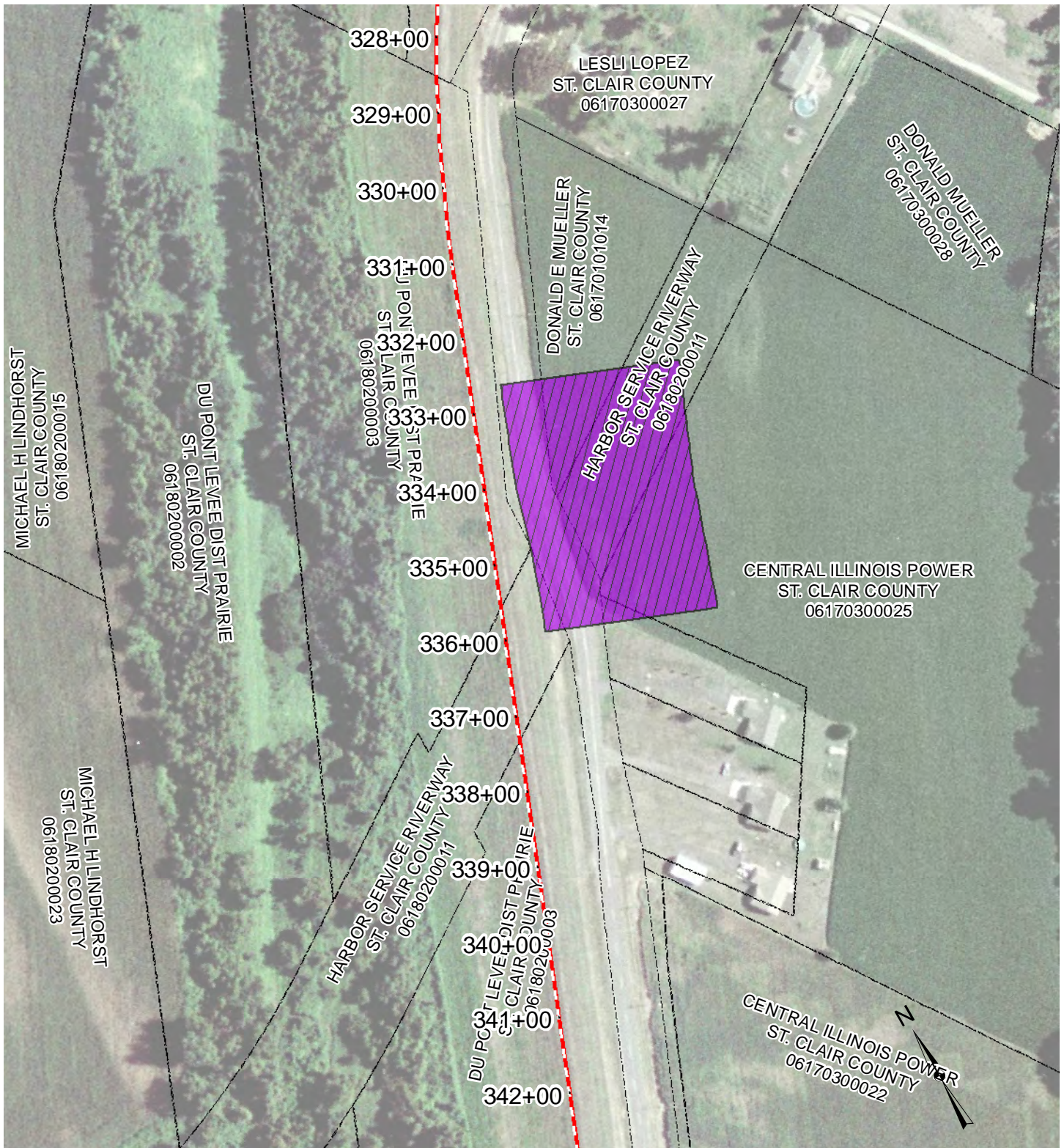
-  Relief Well
-  Seepage Berm



<p align="center">USACE Authorized Level of Protection Planning and Analysis</p> <p align="center">BID PACKAGE 15</p> <p align="center">PDP LEVEE SYSTEM</p> <p align="center">DESIGN STA: 289+75 TO 299+65</p>		
08/12/2016	SHEET	5 OF 23

Legend

- Relief Well
- Seepage Berm





USACE Authorized Level of Protection Planning and Analysis

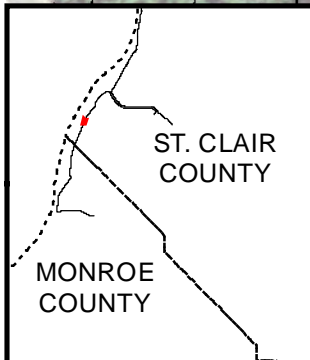
BID PACKAGE 15

PDP LEVEE SYSTEM

DESIGN STA: 332+65 TO 335+95



Legend

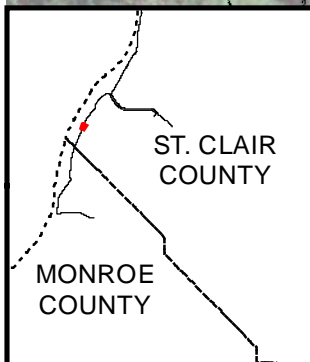
-  Relief Well
-  Seepage Berm



<p align="center">USACE Authorized Level of Protection Planning and Analysis</p> <p align="center">BID PACKAGE 15</p> <p align="center">PDP LEVEE SYSTEM</p> <p align="center">DESIGN STA: 345+85 TO 349+15</p>		
08/12/2016	SHEET	7 OF 23

Legend

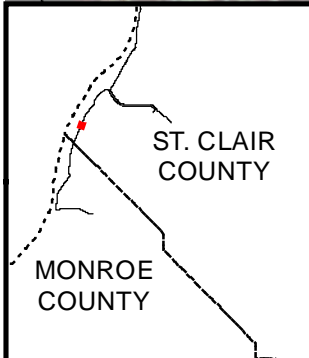
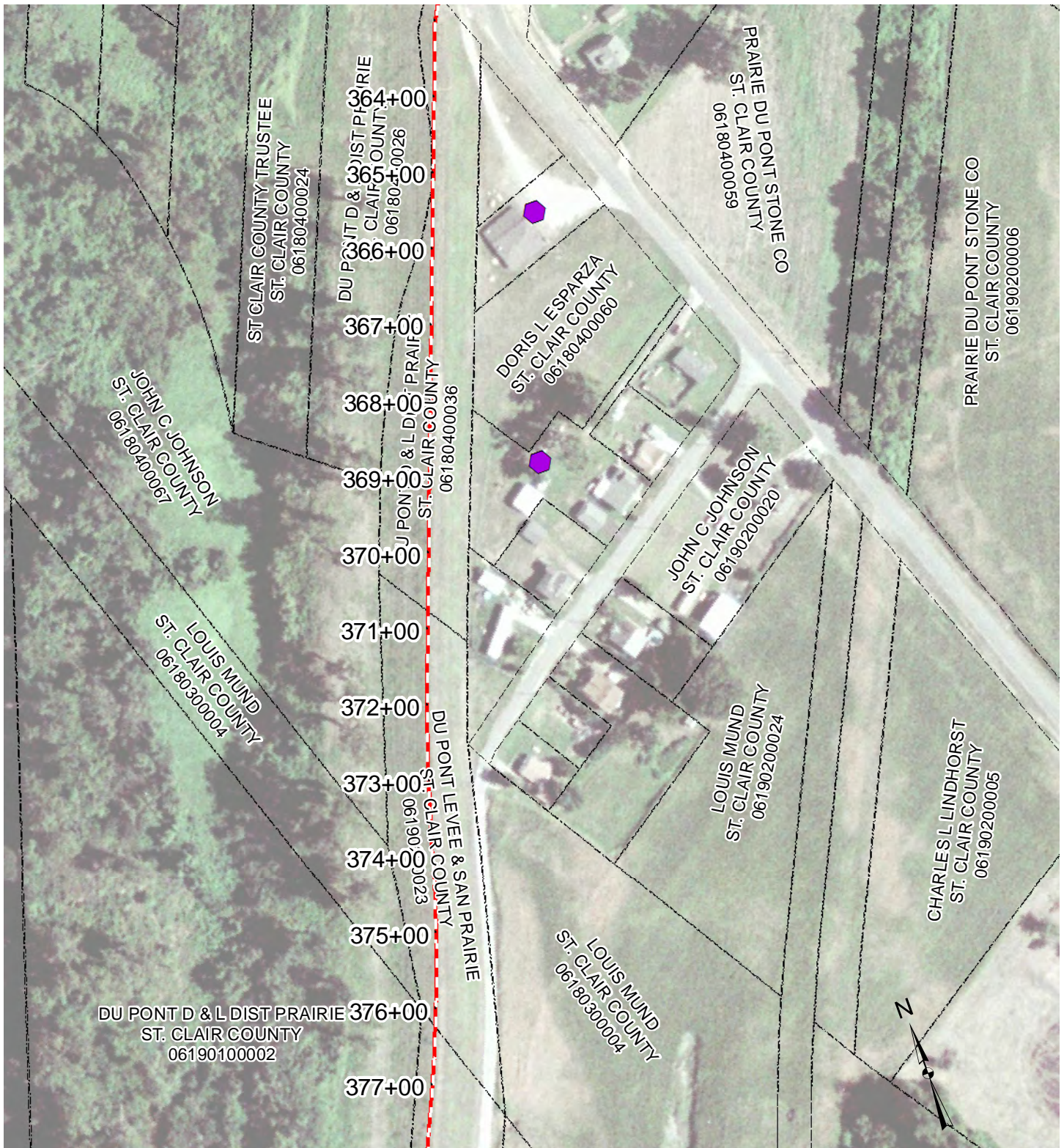
-  Relief Well
-  Seepage Berm



<p align="center">USACE Authorized Level of Protection Planning and Analysis</p> <p align="center">BID PACKAGE 15</p> <p align="center">PDP LEVEE SYSTEM</p> <p align="center">DESIGN STA: 352+45 TO 362+35</p>		
08/12/2016	SHEET	8 OF 23

Legend

- Relief Well
- Seepage Berm



USACE Authorized Level of Protection Planning and Analysis

BID PACKAGE 15

PDP LEVEE SYSTEM



DESIGN STA: 365+65 TO 368+95

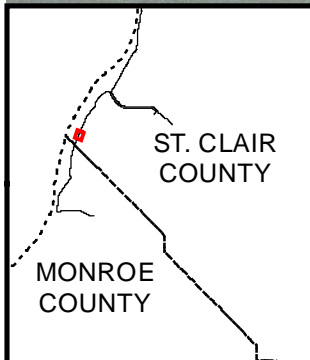
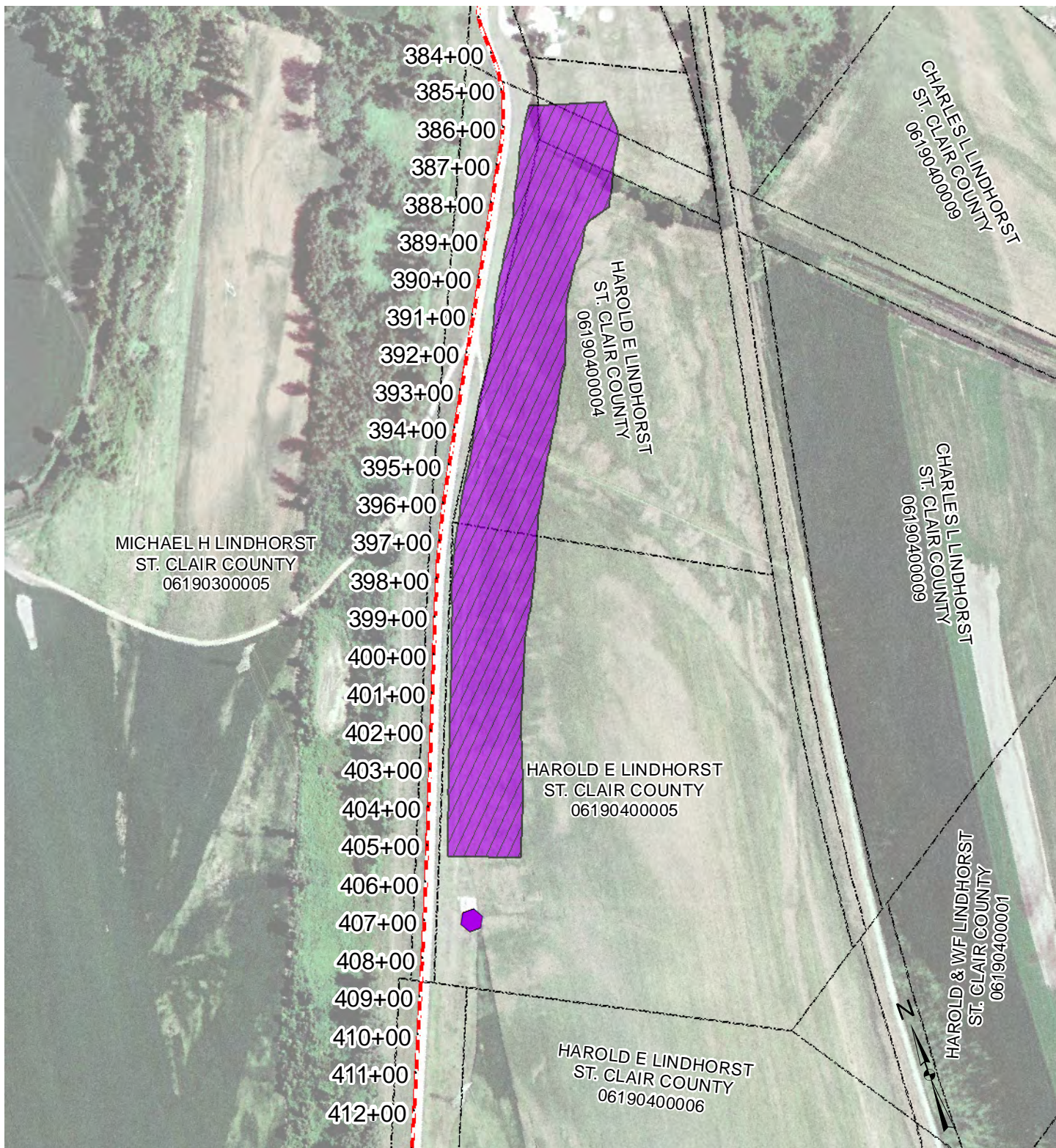
08/12/2016

SHEET

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Legend

-  Relief Well
-  Seepage Berm





USACE Authorized Level of Protection Planning and Analysis

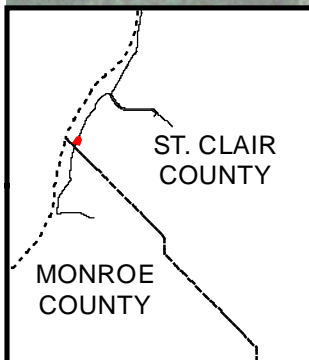
BID PACKAGE 15

PDP LEVEE SYSTEM

DESIGN STA: 385+45 TO 405+25

Legend

-  Relief Well
-  Seepage Berm



USACE Authorized Level of Protection Planning and Analysis

BID PACKAGE 15

PDP LEVEE SYSTEM



DESIGN STA: 405+25 TO 408+55

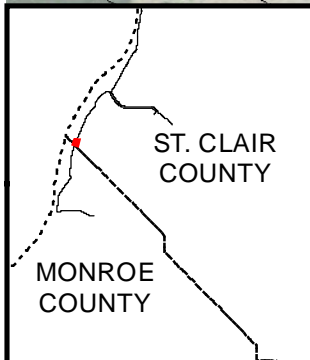
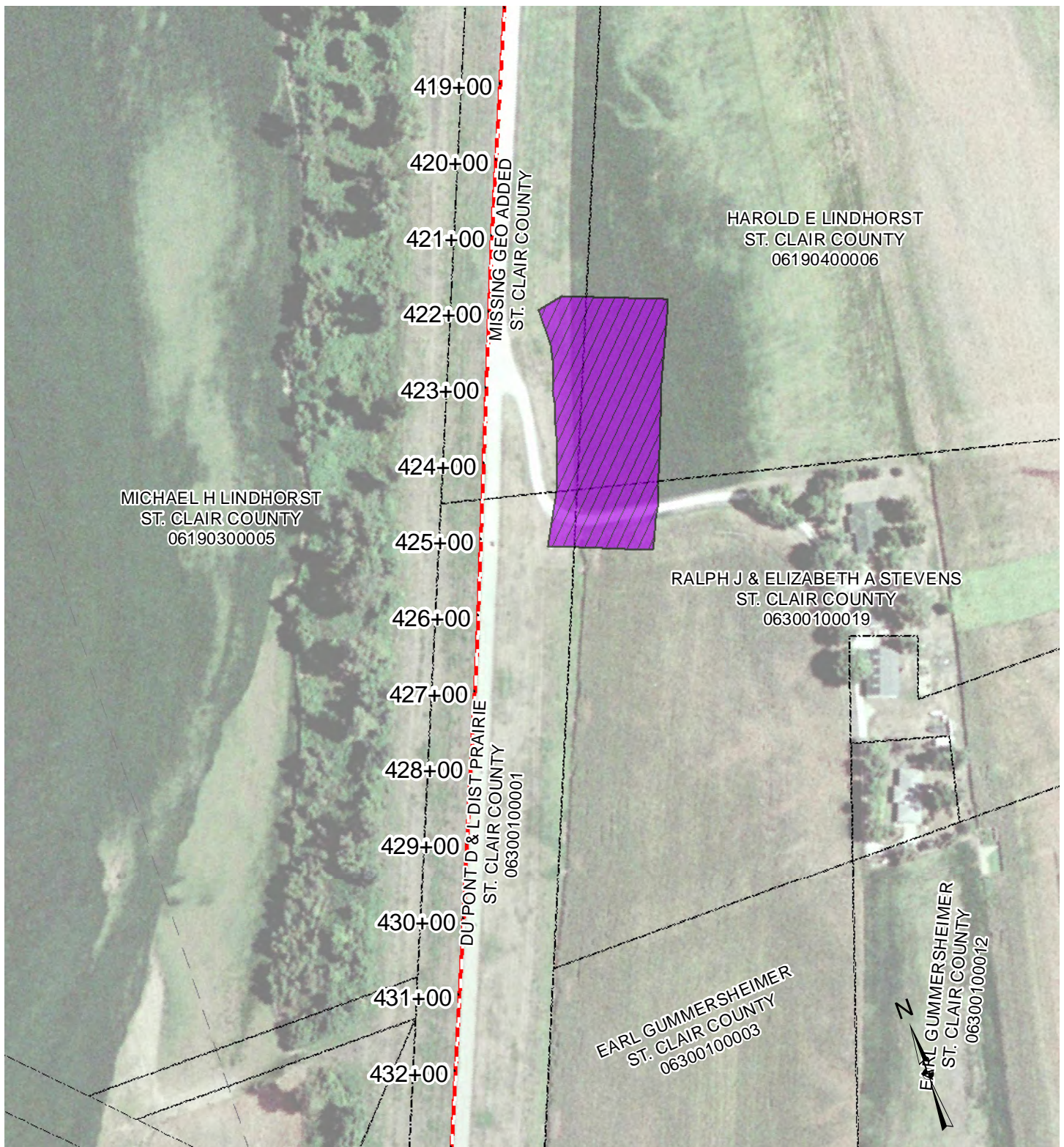
08/12/2016

SHEET

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Legend

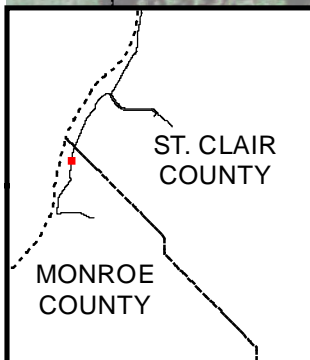
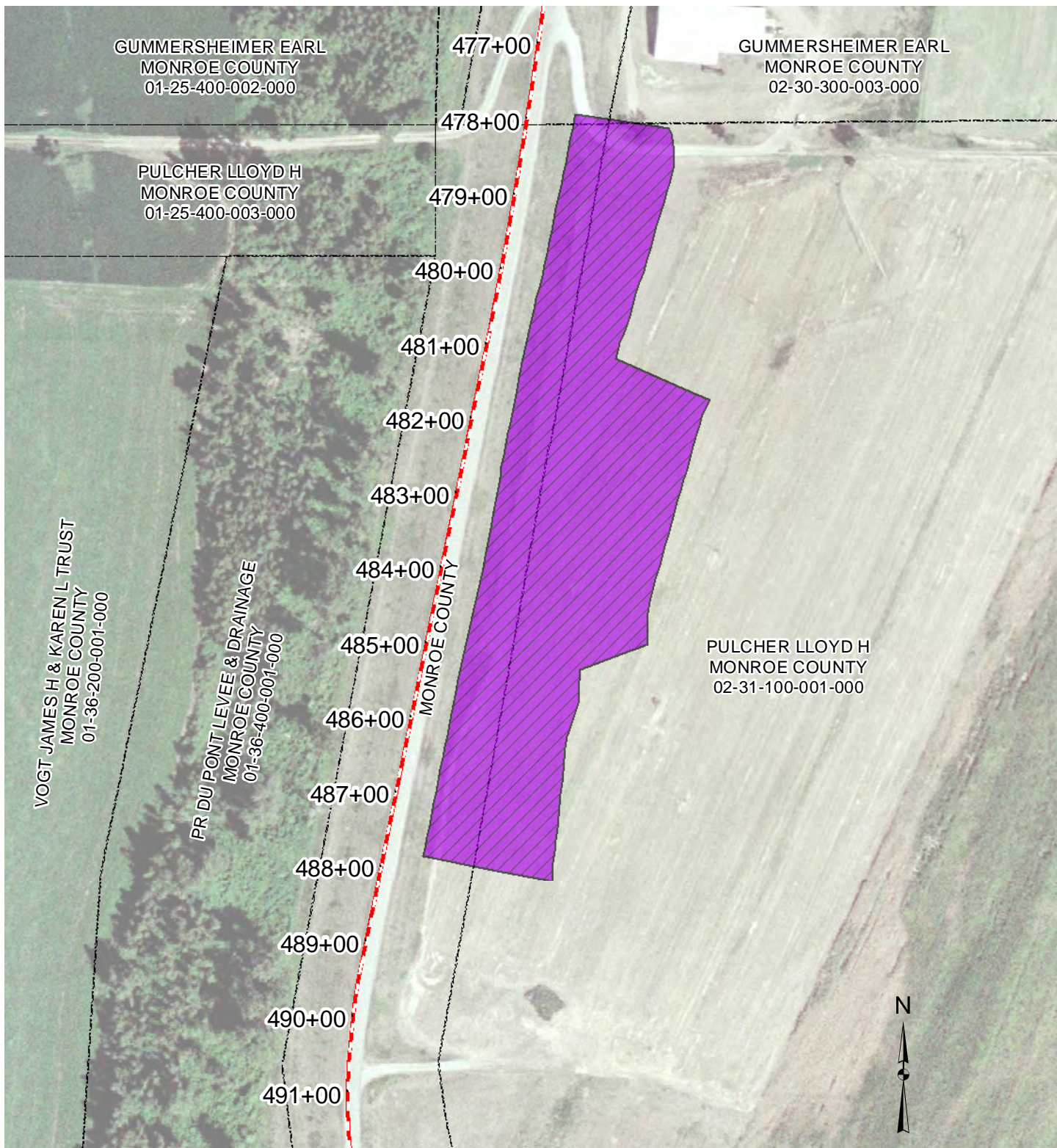
-  Relief Well
-  Seepage Berm



<p>USACE Authorized Level of Protection Planning and Analysis</p> <p>BID PACKAGE 15</p> <p>PDP LEVEE SYSTEM</p> <p>DESIGN STA: 421+75 TO 425+05</p>		
08/12/2016	SHEET	12 OF 23

Legend

- Relief Well
- Seepage Berm



USACE Authorized Level of Protection Planning and Analysis

BID PACKAGE 15

PDP LEVEE SYSTEM



DESIGN STA: 477+85 TO 487+75

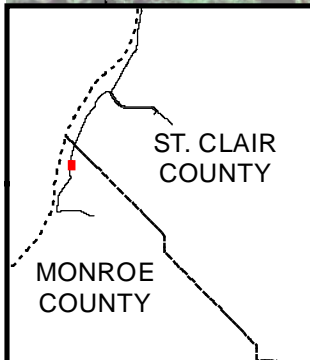
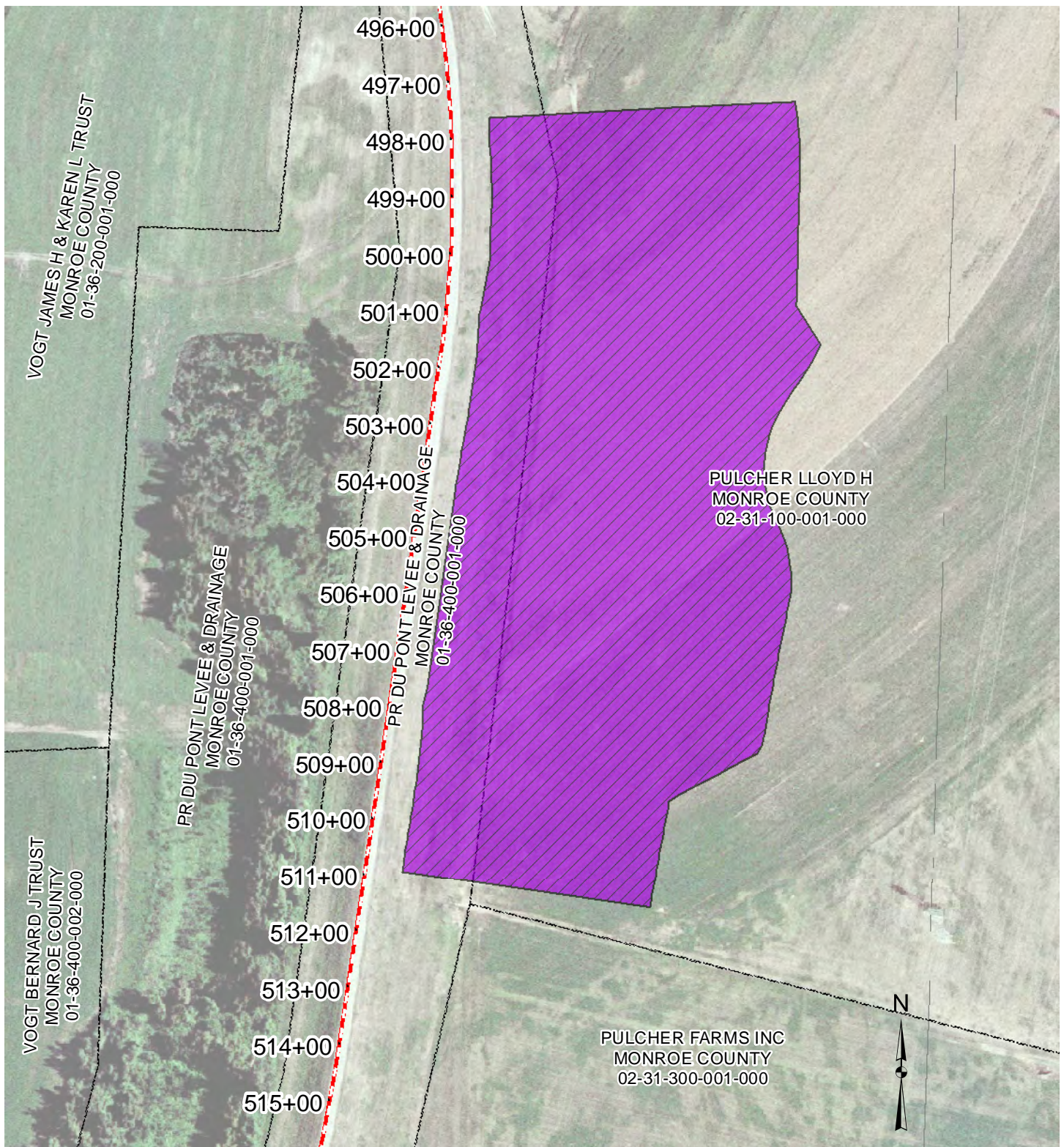
08/12/2016

SHEET

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Legend

-  Relief Well
-  Seepage Berm



USACE Authorized Level of Protection Planning and Analysis

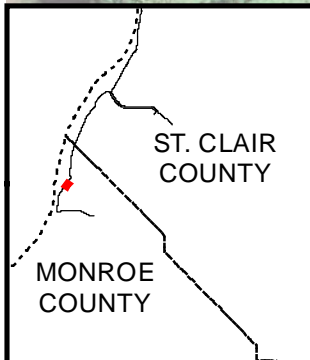
BID PACKAGE 15

PDP LEVEE SYSTEM

DESIGN STA: 497+65 TO 510+85

Legend

- Relief Well
- Seepage Berm





USACE Authorized Level of Protection Planning and Analysis

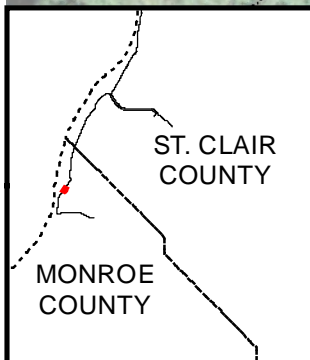
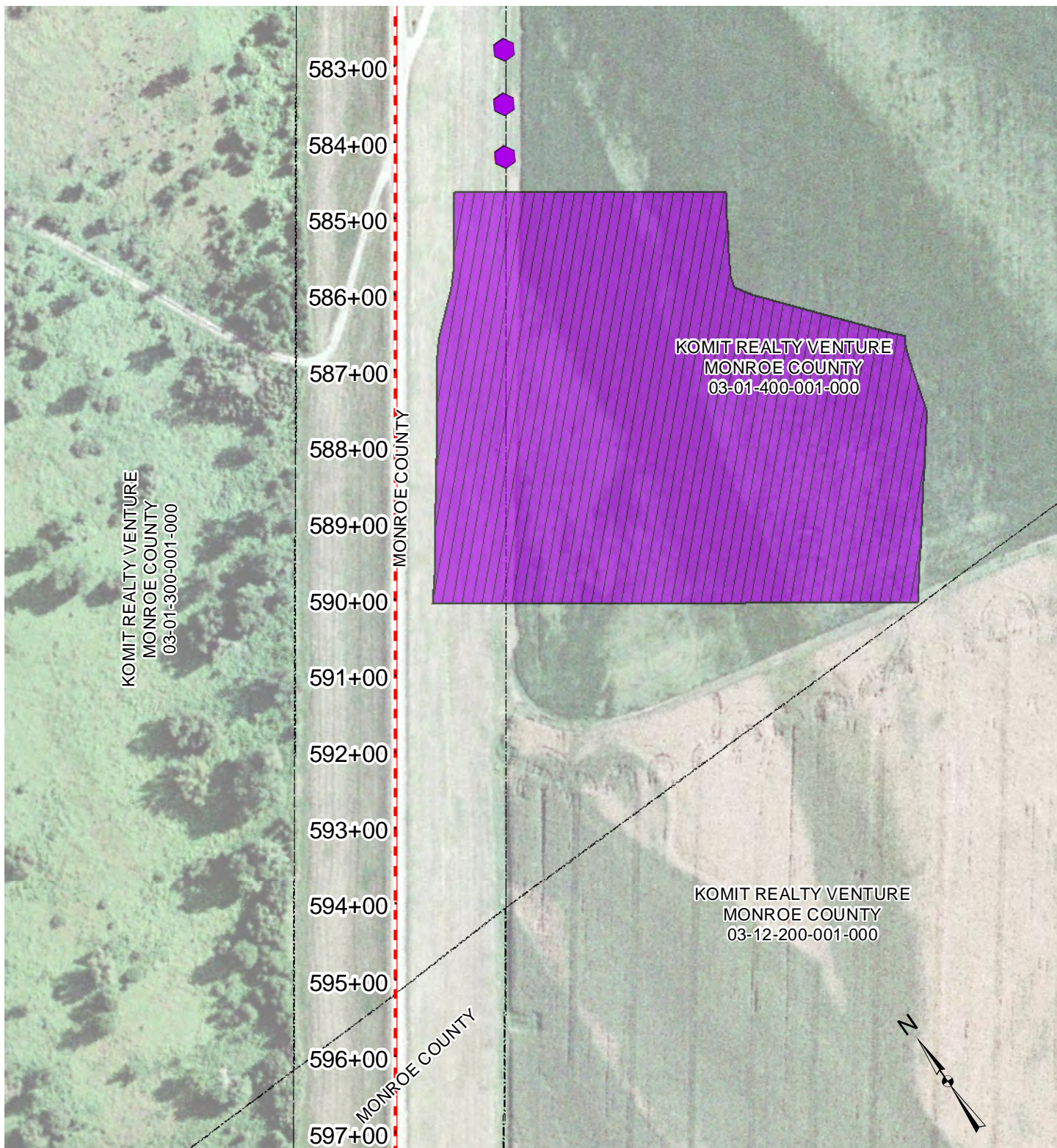
BID PACKAGE 15

PDP LEVEE SYSTEM

DESIGN STA: 567+35 TO 584+65

Legend

-  Relief Well
-  Seepage Berm



USACE Authorized Level of Protection Planning and Analysis

BID PACKAGE 15

PDP LEVEE SYSTEM



DESIGN STA: 584+65 TO 590+05

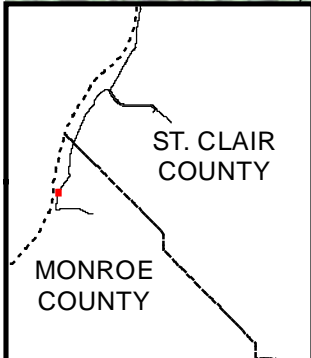
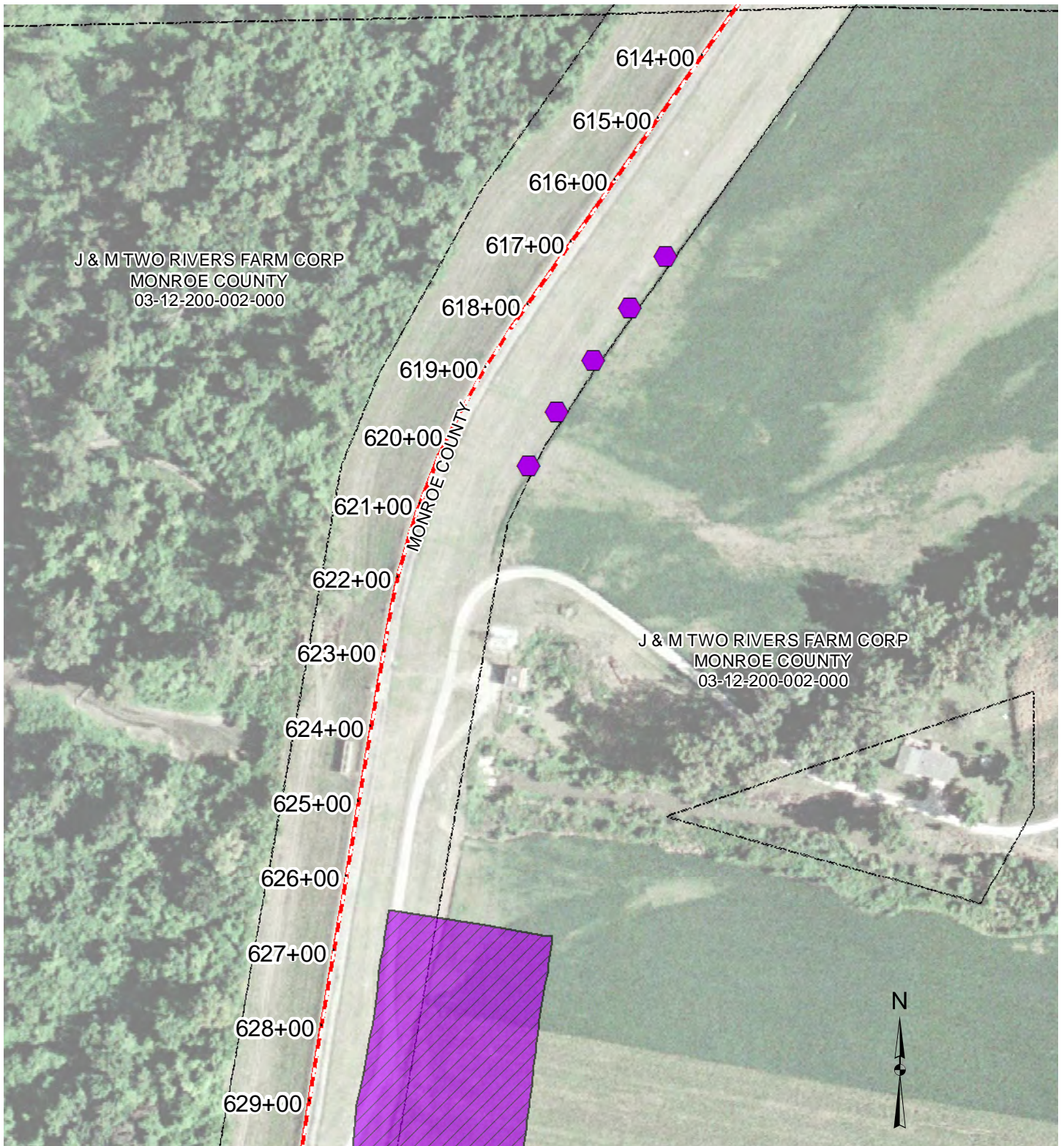
08/12/2016

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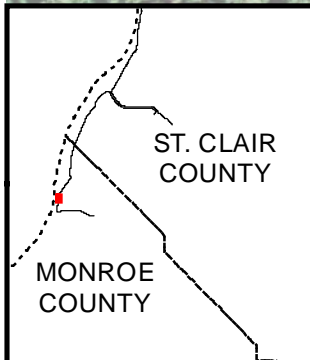
Legend

-  Relief Well
-  Seepage Berm



USACE Authorized Level of Protection Planning and Analysis		
BID PACKAGE 15		
PDP LEVEE SYSTEM		
DESIGN STA: 616+45 TO 619+75		
08/12/2016	SHEET	18 OF 23

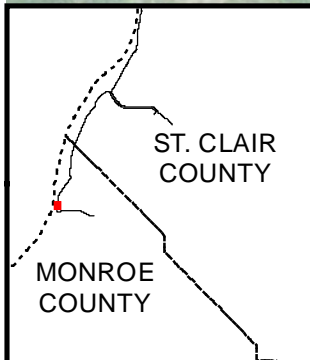
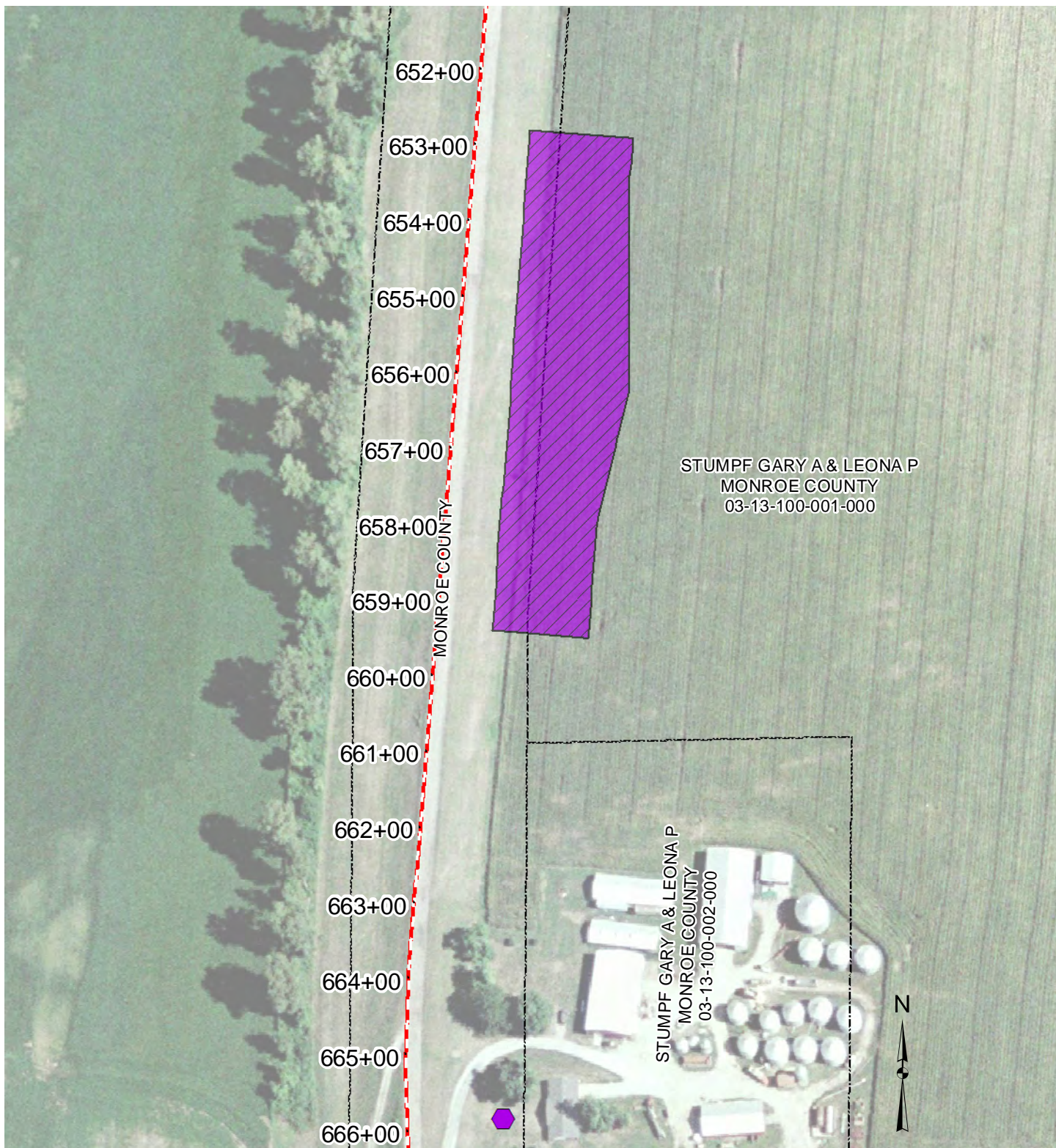
Legend	
	Relief Well
	Seepage Berm



<p align="center">USACE Authorized Level of Protection Planning and Analysis</p> <p align="center">BID PACKAGE 15</p> <p align="center">PDP LEVEE SYSTEM</p> <p align="center">DESIGN STA: 626+35 TO 639+55</p>		
08/12/2016	SHEET	19 OF 23

Legend

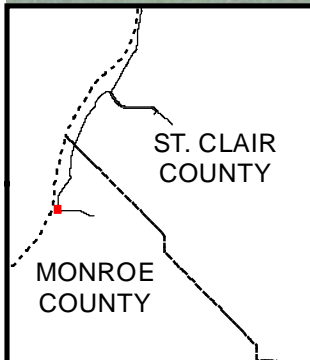
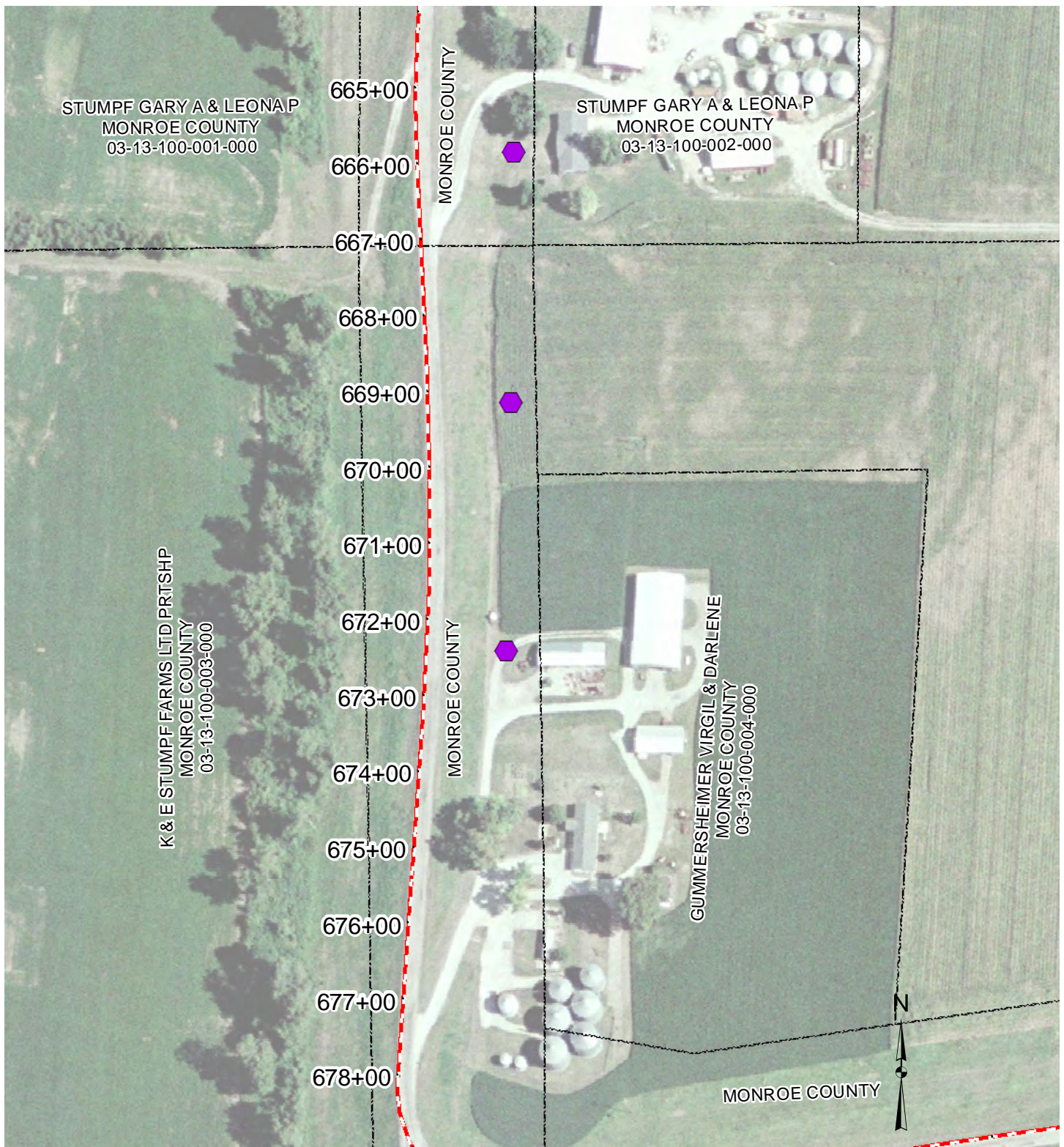
- Relief Well
- Seepage Berm



<p align="center">USACE Authorized Level of Protection Planning and Analysis</p> <p align="center">BID PACKAGE 15</p> <p align="center">PDP LEVEE SYSTEM</p> <p align="center">DESIGN STA: 652+75 TO 659+35</p>		
08/12/2016	SHEET	20 OF 23



Legend

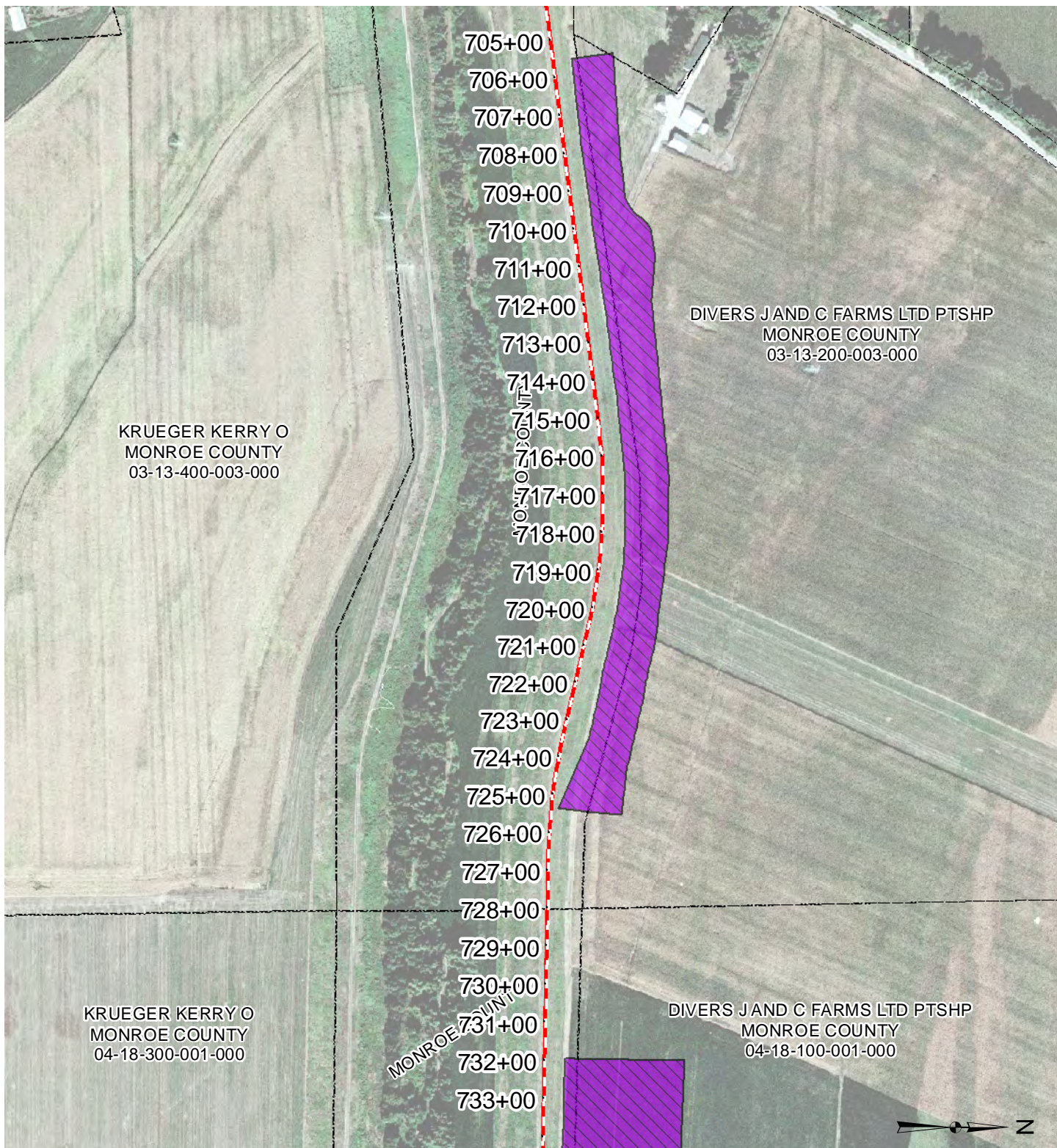
- Relief Well
- Seepage Berm



<p align="center">USACE Authorized Level of Protection Planning and Analysis</p> <p align="center">BID PACKAGE 15</p> <p align="center">PDP LEVEE SYSTEM</p> <p align="center">DESIGN STA: 665+95 TO 672+55</p>		
08/12/2016	SHEET	21 OF 23

Legend

-  Relief Well
-  Seepage Berm



USACE Authorized Level of Protection Planning and Analysis

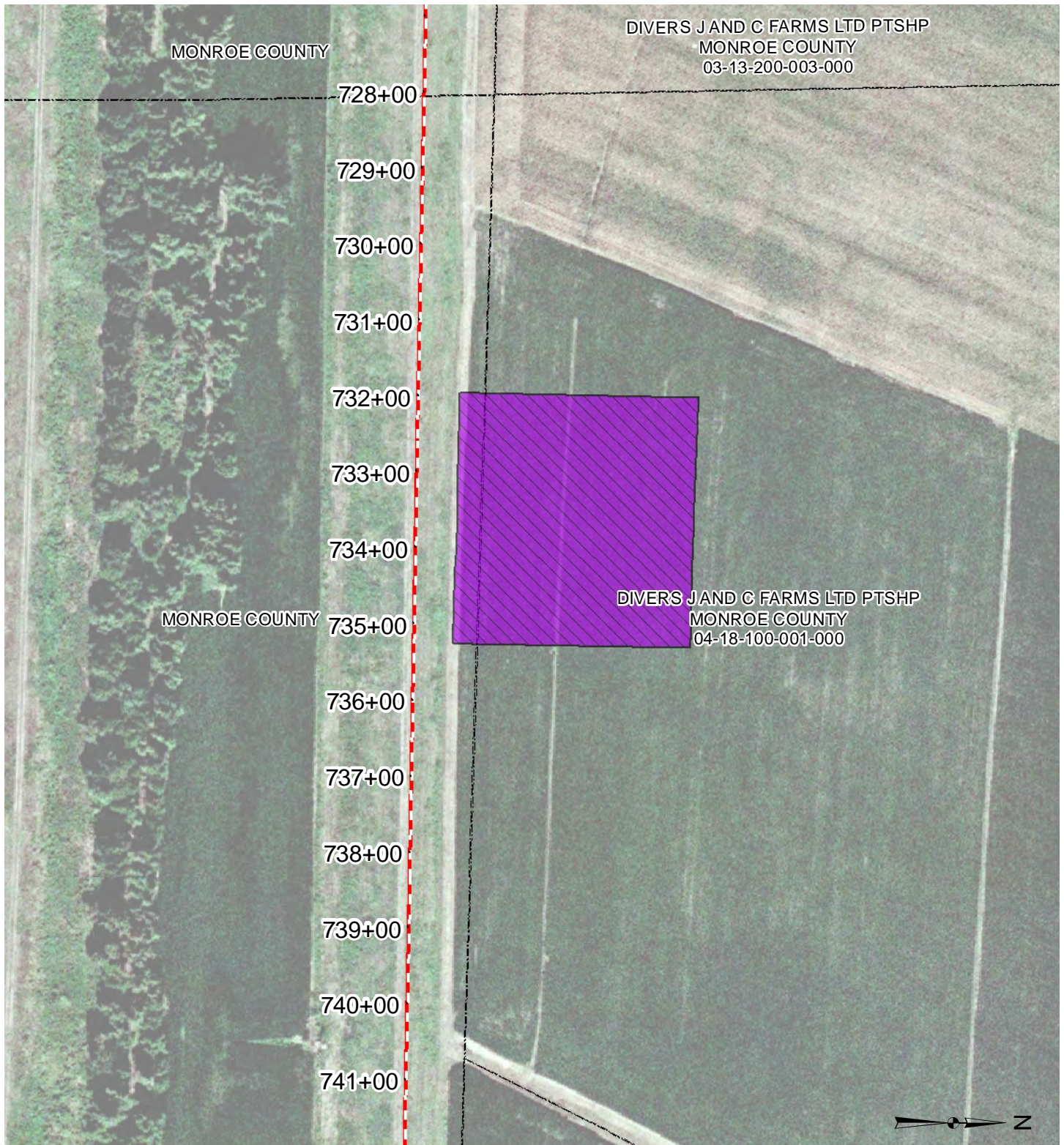
BID PACKAGE 15

PDP LEVEE SYSTEM

DESIGN STA: 705+55 TO 725+35

Legend

- Relief Well
- Seepage Berm





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

BID PACKAGE 15

PDP LEVEE SYSTEM

DESIGN STA: 731+95 TO 735+25

Legend

-  Relief Well
-  Seepage Berm

Prairie du Pont/Fish Lake Authorized Level Project Cost Estimate

Preliminary Design Phase

Prepared for



Prepared by



August 12, 2016

1. Cost Estimate

Total Cost

Based primarily on previous bid line items from over a dozen local contractors, a preliminary construction cost estimate has been developed for Phase I of the Prairie du Pont / Fish Lake Authorized Level Design Project. For cost estimating purposes, a contingency of 20% was applied towards all line items. These estimates are preliminary, and represent a planning level estimate. The total construction cost at this time is \$24,111,070.

Development of Bid Packages

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

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

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

- Prairie du Pont – Station 477+85 to 487+75 – Seepage Berm
- Prairie du Pont – Station 497+65 to 510+85 – Seepage Berm
- Fish Lake – Station 567+35 to 584+65 – Relief Wells
- Fish Lake – Station 584+65 to 590+05 – Seepage Berm
- Fish Lake – Station 604+10 to 609+85 – Seepage Berm
- Fish Lake – Station 616+45 to 619+75 – Relief Wells
- Fish Lake – Station 626+35 to 639+55 – Seepage Berm
- Fish Lake – Station 652+75 to 659+35 – Seepage Berm
- Fish Lake – Station 665+95 to 672+55 – Relief Wells
- Fish Lake – Station 705+55 to 725+35 – Seepage Berm
- Fish Lake – Station 731+95 to 735+25 – Seepage Berm

Appendix 1 – Preliminary Cost Estimate

**Southwestern Illinois Levee
Authorized Level Design
Prairie du Pont / Fish Lake - Bid Package 15**

<u>NO.</u>	<u>DESCRIPTION</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Quantity</u>	<u>Total</u>
1	Dewatering	LS	\$ -	-	\$ -
2	Erosion & Sediment Control	LS	\$ 300,000.00	1	\$ 300,000
4	Mobilization	LS	\$ 585,300.00	1	\$ 585,300
5	Modify Piezometer - Raise to Grade	EA	\$ 4,210.00	2	\$ 8,420
7	Pvmt - Roads & Trails - Remove & Replace	SY	\$ 75.00	3,889	\$ 291,667
8	Relief Well - Existing - Abandon	EA	\$ 3,200.00	23	\$ 73,600
9	Relief Well - New - Type "D"	VF	\$ 750.00	3,800	\$ 2,850,000
10	Seeding, Mulching and Site Restoration	LS	\$ 300,000.00	1	\$ 300,000
11	Seepage Berm Material	CY	\$ 20.00	754,179	\$ 15,083,571
12	Utility Relocation	LS	\$ 600,000.00	1	\$ 600,000
12	Subtotal:				\$ 20,092,558
13	Contengency (20%):				\$ 4,018,512
14	Estimated Construction Cost:				\$ 24,111,070

USACE UPDATE

- Mel Price
 - Relief Well Construction complete, including punch list items.
- Wood River NFIP Certification
 - Wood River Upper LSER - FEMA submittal pending final receipt of O&M manuals and as built drawings. Scheduling meeting with Amec to review O&M manual and as built drawing requirements.



BUILDING STRONG®

- East St. Louis (MESD)
 - Responding to MVD comments on PPA WIK amendment
 - Review of 408 submittal for design of interim solution for 10.5' gravity drain continues
 - Pilot project underway to develop an Emergency Action Plan (EAP), including inundation maps. Plan will serve as guideline to effectively prepare and respond to a flood event.
 - Continue coordinated efforts on bid package 14 Berms P&S completion



BUILDING STRONG®

Metro East Projects, IL

- Wood River
 - Reviews continue of deep cutoff wall Phase 2 design
 - Wood River Shallow Cutoff Wall Phase 2
 - Contract award June 30, 2016
 - NTP issued July 20, 2016
 - Partnering Meeting held August 10, 2016
 - Responding to MVD comments on PPA WIK amendment
 - Continue coordinated efforts on bid package 8, Relief Wells/Pump Station P&S completion



BUILDING STRONG®

Metro East Projects, IL

- Prairie du Pont/Fish Lake
 - Submitted request for reprogrammed funds
 - Planned activities include
 - Complete LRR re-analysis of final solution
 - Update total project costs
 - Coordination with FPD on WIK efforts



BUILDING STRONG®



Memo to: Board of Directors

From: Chuck Etwert

Subject: Program Status Report for September 2016

Date: September 19, 2016

Approximately 83% of the \$73.4 million of construction, involved in all nine current construction bid packages, has been completed thru August. The amount of work completed during the month was just over \$700,000. The total amount of construction completed is \$61.0 million.

The elevation of the Mississippi River which has been projected to recede to constructible levels since early in the June hasn't occurred. With the rain last week, the river rose over 7.5 feet to a level of almost 25 feet. Current Corps projections now indicate the earliest an elevation of ten feet (which would allow contractors to begin the installation of the reinforced concrete pipe approved last fall) won't be reached for at least another two weeks.

The delay of this installation continues to have an effect on the completion times of the bid packages involved. It is starting to look doubtful that those bid packages will be completed before the end of the year, as previously anticipated.

Amec Foster Wheeler will present their Work Order for the Prairie Du Pont/Fish Lake Authorized Level Field Investigation and Design Phase I which was discussed at last month's meeting. The Work Order will include complete Construction Documents and associated Design Services in support of the design and construction of levee improvements throughout the Prairie Du Pont/Fish Lake Levee System.

Authorization of this work order will fulfill the Council's intent, as established by resolution last year, to design the most critical and cost-effective projects throughout the Counties of Madison, Monroe, and St. Clair to restore the federally authorized level of flood protection.

During the last few weeks, I have attended meetings with MESD, USACE and FEMA officials regarding Risk Assessment of the East St. Louis and Vicinity Flood Protection Project Levee System to develop a communication strategy to deliver appropriate risk information to community officials and those working and living behind the levee and the development of an

Emergency Action Plan, to serve as a guideline to effectively prepare and respond to a flood event.

Amec Foster Wheeler is in the process of submitting their interior drainage analysis for the drainage area tributary to outlet structures that penetrate the Wood River, Metro East Sanitary District, Prairie Du Pont, and Fish Lake Levee Systems to FEMA for incorporation into their upcoming Flood Insurance Rate Maps (FIRMs) for Madison, St. Clair, and Monroe Counties.

The interior drainage analysis was reviewed and approved by the Office of Water Resources at the Illinois Department of Water resources; however, before this interior drainage analysis becomes effective, it must be submitted to FEMA and incorporated into the FIRMs.

Since support from affected stakeholders is beneficial in the submission process, we will, in the near future, be requesting letters of support from county, municipal, and levee district officials.

Now that our construction is over the eighty percent complete status, Husch Blackwell is in the process of setting up a meeting with FEMA and the Corps of Engineers to finalize the process of accreditation of the levee systems on the FEMA flood maps. We want to make sure all parties are online with the process, and eliminate any last minute surprises or conditions.

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



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

Monthly Project Progress Report September 2016

AMEC FOSTER WHEELER Project No. 563170001
Period Ending Date: September 9, 2016

Date of Issue: September 16, 2016

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1. OVERVIEW

1.1 Project Description

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

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

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

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

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

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

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

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

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

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

1.2 Amec Foster Wheeler Scope

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

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

1.3 Key Contacts / People

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

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

2.1 HSSE Reports

Health/Safety																														
The Contractors continues to conduct weekly toolbox safety talks.																														
Security																														
The BP05 site has experienced security issues over the last few weeks with damage to equipment and manhole structures. Police reports have been filed. Cahokia police will be increasing security in the area.																														
Environment (SWPPP)																														
Forms submitted as required																														
River Stage Restrictions																														
The USACE 408 permit dictates that excavations shall cease when the Mississippi River Stage is:																														
<table border="1"><thead><tr><th>Bid Package</th><th>River Stage</th><th>River Elevation</th></tr></thead><tbody><tr><td>2A</td><td>17.0</td><td>396.94</td></tr><tr><td>2B</td><td>27.06</td><td>407.00</td></tr><tr><td>2C</td><td>15.03</td><td>394.97 (Mel Price)</td></tr><tr><td>3</td><td>16.0</td><td>411.48 (Mel Price)</td></tr><tr><td>4</td><td>25.0</td><td>404.94</td></tr><tr><td>5</td><td>25.0</td><td>404.94</td></tr><tr><td>6</td><td>25.0</td><td>404.94</td></tr><tr><td>7A</td><td>21.52</td><td>417.0 (Mel Price)</td></tr><tr><td>7B</td><td>21.52</td><td>417.0 (Mel Price)</td></tr></tbody></table>	Bid Package	River Stage	River Elevation	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)
Bid Package	River Stage	River Elevation																												
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6	25.0	404.94																												
7A	21.52	417.0 (Mel Price)																												
7B	21.52	417.0 (Mel Price)																												

3. PROJECT STATUS UPDATE

3.1 Bid Package 2A

3.1.1 Calendar

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

3.1.2 Progress

- Complete

3.1.3 Property Acquisition

- Complete

3.1.4 Levee Board Considerations

- Complete

3.1.5 Submittals

- Complete

3.1.6 Change Orders

- Complete

3.1.7 Field Activities and Look Ahead

- Complete

3.1.8 QC/QA Activities

- Complete

3.1.9 Considerations

- Complete

3.1.10 Payment Progress

- Complete

3.2 Bid Package 2B

3.2.1 Calendar

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

3.2.2 Progress - Piping Change Order

- The high groundwater/river elevations have prevented work this month.

3.2.3 Property Acquisition

- All property is acquired

3.2.4 Levee Board Considerations

- None

3.2.5 Submittals

- Complete

3.2.6 Change Orders

- See attached log

3.2.7 Field Activities and Look Ahead

- None

3.2.8 QC/QA Activities

- None

3.2.9 Considerations

- None

3.2.10 Payment Progress

- See Contract Invoice Log attached

3.3 Bid Package 2C

3.3.1 Calendar

Bid Date:	November 12, 2014
Contract executed	February 9, 2015
Schedule received	Posted in SharePoint
Anticipated start of field activities	October 15, 2015
Start of field activities	October 15, 2015
Contract completion date	April 29, 2016
Final Walk Through	September 1, 2016
Final Acceptance	

3.3.2 Progress

- Field work is complete.

3.3.3 Property Acquisition

- Complete

3.3.4 Levee Board Considerations

- Complete

3.3.5 Submittals

- Final Closeout submittals are submitted.

3.3.6 Change Orders

- None

3.3.7 Field Activities and Look Ahead

- Complete.

3.3.8 QC/QA Activities

- Complete.

3.3.9 Payment Progress

- See attached log.

3.4 Bid Package 3

3.4.1 Calendar

Bid Date:	December 3, 2013
Contract executed	January 27, 2014
Schedule received	December 3, 2013
Anticipated start of field activities	As noted below.
Start of field activities	Varied
Contract completion date	<ul style="list-style-type: none">• Upper Wood River is substantially complete.• Lower Wood River – December 27, 2016• Hawthorne Manhole Change Order – February 28, 2017
Final Walk Through	
Final Acceptance	

3.4.2 Progress

- Contractor placing Random Fill 2 as weather and field conditions allows.
- Hawthorne manhole change order work materials being ordered.

3.4.3 Property Acquisition

- Complete.

3.4.4 Levee Board Considerations

- Complete.

3.4.5 Submittals

- As required.

3.4.6 Change Orders

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

3.4.7 Field Activities and Look Ahead

- See above Progress

3.4.8 QC/QA Activities

- Testing as required.

3.4.9 Considerations

- None other than previously mentioned.

3.4.10 Payment Progress

- See attached Contract invoice log

3.5 Bid Package 4

3.5.1 Calendar

Bid Date:	December 3, 2013
Contract executed	February 6, 2014
Schedule received	December 3, 2013
Anticipated start of field activities	February 24, 2014
Start of field activities	March 17, 2014
Contract completion date	September 30, 2016 (the Contractor will request a time extension)
Final Walk Through	
Final Acceptance	

3.5.2 Progress

- Clay cap earthwork change order being processed.
- Site 09 pump station complete except the fencing and ground loop installation around the station.
- The concrete pipe change order to begin when is river stage is approximately 10 feet or below and holding.
- Five Piezometer of 13 are installed. The remaining piezometer installation is on hold until the collection pipe and clay cap are complete.

3.5.3 Property Acquisition

- Complete.

3.5.4 Levee Board Considerations

- None

3.5.5 Submittals

- On-going

3.5.6 Change Orders

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

3.5.7 Field Activities and Look Ahead

- No work this month

3.5.8 QC/QA Activities

- None

3.5.9 Considerations

- None

3.5.10 Payment Progress

- See Contract Invoice Log attached.

3.6 Bid Package 5

3.6.1 Calendar

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

3.6.2 Progress

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

3.6.3 Property Acquisition

- This project may extend into next year and TCE will need to be extended.

3.6.4 Levee Board Considerations

- None.

3.6.5 Submittals

- Complete

3.6.6 Change Orders

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

3.6.7 Considerations

- None.

3.6.8 Payment Progress

- See Contract Invoice Log attached.

3.7 Bid Package 6

3.7.1 Calendar

Bid Date:	June 11, 2013
Contract executed	October 3, 2013
Schedule received	October 31, 2013
Anticipated start of field activities	November 11, 2013
Start of field activities	November 19, 2013
Contract completion date	<i>Substantial completion July 26, 2016; Final completion September 8, 2016.</i>
Final Walk Through	September 6, 2016
Final Acceptance	

3.7.2 Progress

- Contractor working on punch list items (pipe cleaning remaining).
- Contractor has been released to perform the Pulcher Change. This work will extend the final completion date.
- Contractor to perform the clay cap change order work abandonment. This work will extend the final completion date.

3.7.3 Property Acquisition

- None

3.7.4 Levee Board Considerations

- None.

3.7.5 Submittals

- On going

3.7.6 Change Orders

- See change order log attached.

3.7.7 Field Activities and Look Ahead

- Contractor is working on punch list items.

3.7.8 QC/QA Activities

- As required

3.7.9 Considerations

- None

3.7.10 Payment Progress

- See Contract Invoice Log attached.

3.8 Bid Package 7A

3.8.1 Calendar

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

3.8.2 Progress

- This project is complete.

3.8.3 Property Acquisition

- Complete

3.8.4 Levee Board Considerations

- None.

3.8.5 Submittals

- Complete

3.8.6 Change Orders

- This project is complete.

3.8.7 Field Activities

- This project is complete.

3.8.8 QC/QA Activities

- None.

3.8.9 Considerations

- None.

3.8.10 Payment Progress

- This project is complete.

3.9 Bid Package 7B

3.9.1 Calendar

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

3.9.2 Progress

- Clay Cap and Panel installations are complete.
- Contractor finished the MCT bike trail work.
- Contractor has installed 2 of the 7 relief wells, but the work is stopped due to high groundwater. Contract to await groundwater elevation of 402 before finishing the 5 relief wells.
- Final inspection, excluding the relief wells is scheduled for September 20, 2016.

3.9.3 Property Acquisition

- Complete

3.9.4 Levee Board Considerations

- None

3.9.5 Submittals

- On-going.

3.9.6 Change Orders

- See change order log attached.

3.9.7 Field Activities and Look Ahead

- As noted above.

3.9.8 QC/QA Activities

- Geotechnology as required.

3.9.9 Considerations

- None.

3.9.10 Payment Progress

- See Contract Invoice Log attached.

CONTRACT INVOICE LOG

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

Project: SWILCD
Construction Package: BP2A

Original Contract Amount:	\$747,500.00	
Change Order #1:	\$2,245.00	Limiterorque 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	

[illegible]

TITLE: CONSTRUCTION CHANGE ORDER LOG

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

PROJECT NUMBER: SIFPDC-BP2A

[illegible]

Original Contract Amount	Revised Contract Amount	% Change from Original Amount
\$747,500.00	\$797,599.53	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
Change Order #11:	\$1,314,600.00	Pipe Material Change & Erosion Control
Change Order #12:	\$8,700.00	Fence Repair Site 5
Total Change Order Amount:	\$1,480,105.92	
Total Revised Contract Amount:	\$5,345,510.92	

Payment Request No.	Pay Request Date	Pay Request Recommended Approval Date	Total Completed and Store to Date	Cumulative Retained (10% to 50%) then (5% to 95%)	Total Earned Less Retained	Current Payment Invoice	Date Paid by FPD	Estimate to Complete Including Retainage(\$)
1	2/5/2014	2/10/2014	\$51,750.00	\$5,175.00	\$46,575.00	\$46,575.00	2/18/2014	\$3,818,830.00
2	3/6/2014	3/13/2014	\$132,450.00	\$13,245.00	\$119,205.00	\$72,630.00	3/25/2014	\$3,746,634.00
3	3/31/2014	4/15/2014	\$504,300.00	\$50,430.00	\$453,870.00	\$334,665.00	4/22/2014	\$3,419,934.00
4	4/30/2014	5/13/2014	\$846,000.00	\$84,600.00	\$761,400.00	\$307,530.00	5/22/2014	\$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	6/19/2014	\$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	7/17/2014	\$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	8/19/2014	\$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	9/15/2014	\$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	10/16/2014	\$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	11/18/2014	\$787,058.00
11	11/30/2014	12/12/2014	\$3,648,600.00	\$282,764.00	\$3,365,836.00	\$215,160.00	12/18/2014	\$646,098.00
12	12/31/2014	1/12/2015	\$3,840,000.00	\$292,334.00	\$3,547,666.00	\$181,830.00	1/26/2015	\$464,268.00
13	1/31/2015	2/9/2015	\$3,897,320.00	\$295,200.00	\$3,602,120.00	\$54,454.00	2/18/2015	\$409,814.00
14	2/28/2015	3/10/2015	\$3,968,238.00	\$298,710.00	\$3,669,528.00	\$67,408.00	3/19/2015	\$342,406.00
15	3/31/2015	4/10/2015	\$4,011,934.00	\$200,596.00	\$3,811,338.00	\$141,810.00	4/16/2015	\$200,596.00
16	4/30/2015	5/12/2015	\$4,011,934.00	\$10,000.00	\$4,001,934.00	\$190,596.00	5/18/2015	\$20,276.92
17	7/31/2015	8/11/2015	\$4,022,210.92	\$10,000.00	\$4,012,210.92	\$10,276.92	8/20/2015	\$1,324,600.00
18	1/31/2016	2/11/2016	\$4,063,110.92	\$12,045.00	\$4,051,065.92	\$38,855.00	2/17/2016	\$1,285,745.00
19	2/29/2016	3/11/2016	\$4,078,810.92	\$12,830.00	\$4,065,980.92	\$14,915.00	3/17/2016	\$1,270,830.00
20	3/31/2016	4/14/2016	\$4,253,410.92	\$21,560.00	\$4,231,850.92	\$165,870.00	4/20/2016	\$1,113,660.00
21	7/31/2016	8/5/2016	\$4,443,410.92	\$31,060.00	\$4,412,350.92	\$180,500.00	8/15/2016	\$933,160.00

TITLE: CONSTRUCTION CHANGE ORDER LOG

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

PROJECT NUMBER: SIFPDC-BP2B

Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments
1	Building Permit	Field	\$434.00	\$0.00	2B.1	\$ 32,720.00	1.33%	0.01%	2/24/2014	Approved	Required by Monroe County
2	Additional Roadway Aggregate	Field	\$7,965.00	\$0.00	2B.3	\$ 171,825.00	4.64%	0.21%	3/18/2014	Approved	Required by Monroe County
3	Site 10, 12, 15 fence and aggregate changes	Field	\$0.00	\$0.00	NA	NA	0.00%	0.00%	8/12/2014	Approved	Field changes to enable constructability and provide maintenance ease
4	Razor Wire on Fence	Other	\$0.00	\$8,570.00	NA	NA	NA	0.22%	8/19/2014	Approved	Razor wire on fence at Site 10, 12, & 16 per MESD Levee District request; To be paid by MESD
5	Time Extension	Other	\$0.00	\$0.00	NA	NA	0.00%	0.00%	8/19/2014	Approved	Time extension for July 2014 weather/high river days that impeded construction
6*	Site 16 Duct Bank	Field	\$50,600.00	\$0.00	2B.55	\$ 23,990.00	210.92%	1.31%	9/29/2014	Approved	USACE required underground electrical service to pump station per Ameren; Ameren to credit FPD amount paid to Ameren for overhead lines; Board approval required
7	Site 15 Grating and Supports	Field	\$4,760.00	\$0.00		\$ 352,645.00	1.35%	0.12%	10/17/2014	Approved	Grating and support for Site 15 to enable functionality of the system
8*	Site 10 Electric Change	Field	\$74,200.00	\$0.00	2B.27	\$ 17,705.00	419.09%	1.92%	11/19/2014	Approved	Ameren requires upgrades to the existing pump station at Site 10. Board approval required
9	Time Extension	Other	\$0.00	\$0.00	NA	NA	0.00%	0.00%	12/2/2014	Approved	Request for Time Extension to move our completion date to 4/15/15 due to the contract documents for Bid Package 2B contractor is only allowed to work at Site 12 between October 15th to March 15th.
10	Site 12 Guard Rail	Field	\$10,276.92	\$0.00	NA	NA	NA	0.27%	4/17/2015	Approved	Install approximately 74 LF of FRP handrails per the attached drawings for OSHA compliance
11*	Pipe Material Change - Sites 5, 10, 12, 16; Erosion Control Sites 9, 10, 16	Other	\$1,314,600.00	\$0.00	NA	NA	NA	34.01%	12/3/2015	Approved	Pump station sites 5, 10, 12, 16 pipe replacement to meet the Authorized Level flood event design
12*	Fence Repair Site 5	Field	\$8,700.00	\$0.00	NA	NA	NA	0.23%	3/17/2016	Approved	Fence Repair Site 5
	Total of Project Change Orders		\$1,471,535.92	\$8,570.00						Total	\$ 1,480,105.92
	Original Contract Amount	Revised Contract Amount	5,345,510.92	% Change from Original Amount						Approved	
	\$3,865,405.00			38.29%							

*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:	\$3,390.00	Flood Damages
Change Order #2:	\$26,670.00	Clay Fill Material Overage
Change Order #3:		
Total Change Order Amount:	\$30,060.00	
Total Revised Contract Amount:	\$311,692.00	

[illegible]

TITLE: CONSTRUCTION CHANGE ORDER LOG

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

PROJECT NUMBER: SIFPDC-BP2C

Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments
1	Flood Damages	Other	\$3,390.00	\$0.00	NA	NA	NA	1.20%	6/7/2016	Approved	December 2015 flood event
2	Clay Fill Material Overage	Field	\$26,670.00	\$0.00	2C.26	\$ 10,800.00	246.94%	9.47%	8/17/2016	Approved	Clay Fill Material Overage; Board approval required
3											
4											
5											
6											
7											
8											
9											
10											
	Total of Project Change Orders		\$30,060.00	\$0.00						Total	\$ 30,060.00
	Original Contract Amount	Revised Contract Amount	% Change from Original Amount								
	\$281,632.00	311,692.00	10.67%								
			Approved								

*Board approval required

CONTRACT INVOICE LOG

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

Project: SWILCD
Construction Package: BP03

Original Contract Amount:	\$ 10,082,345.00	
Change Order 1	\$ 1,000.00	IDOT Permit
Change Order 2	\$ 16,600.00	PZ 39 Relocate
Change Order 3	\$ 11,361.00	Russell Commons Fence R&R
Change Order 4	\$ 2,245.60	Hydro Excavating
Change Order 5	\$ 3,071.25	Additional RW Permits
Change Order 6	\$ 278,694.99	RR3 for Blanket Drains
Change Order 7	\$ 57,436.00	Indian Creek Extra Rip Rap
Change Order 8	\$ (5,820.00)	Credit to Remove Vacuum Testing of Manholes
Change Order 9	\$ 558,086.80	Hawthorne Changes North & South including Ameren
Change Order 10	\$ 477,917.72	Blanket Drain 2 Revisions
Change Order 11	\$ (59.97)	Credit for Blanket Drain 1 Revisions
Change Order 12	\$ 60,362.00	Toe Wall and Handrails Wiers 2, 3, and 4
Change Order 13	\$ 6,825.00	Additional Pollution Coverage UPRR
Change Order 14	\$ 28,950.00	Pilot Hole Drilling
Change Order 15	\$ (9,729.58)	Hawthorne Pipe Changes
Change Order 16	\$ 132,710.00	Russell Commons Buried Waste Part A & B
Change Order 17	\$ 257,694.47	Relief Well Construction Obstructions
Change Order 18	\$ 17,403.75	Tree Mitigation
Change Order 19	\$ 15,620.78	Relief Well 1016 1064 1065 Modifications
Change Order 20	\$ 111,256.88	Relief Well Construction Obstructions
Change Order 21	\$ 108,620.79	Relief Well Construction Obstructions
Change Order 22	\$ 40,618.82	Russell Commons Buried Waste Part A Deduct & Part C
Change Order 23	\$ (35,779.00)	Credit for Delete PZs_Add Bollards
Change Order 24	\$ 103,824.76	Relief Well Construction Obstructions RW 1069-1073 Weir 4 Handrail; Wagon Wheel Bore Shoring, Excavation, and Removal of Abandoned Line;
Change Order 25	\$ 113,188.00	Hawthorne impacted material near Weir 3
Change Order 26	\$ (135,402.86)	Credit Farm Ditch Revision and Random Fill 1
Change Order 27	\$ 493,474.58	Blanket Drain 4 Revisions
Change Order 28	\$ 125,536.21	Relief Well Construction Obstruction RW 1069-1073
Change Order 29	\$ (29,887.27)	Wagon Wheel Bore
Change Order 30	\$ (8,793.84)	Credit Relief Well Floor Drain Elimination/Plugging
Change Order 31	\$ 149,482.00	Hartford Sluice Gate and Manhole Replacement
Change Order 32	\$ 11,268.24	Flood Prevention Efforts June 2015; Russell Commons Park Imported Fill
Change Order 33	\$ (11,273.20)	Blanket Drain 4 End Section Credit
Change Order 34	\$ (138,005.38)	Credit Relief Well Quantity Adjustments
Change Order 35	\$ -	Time Extension for weather/river delay & Hawthorne Manhole
Total Change Order Amount:	\$2,808,498.54	
Total Revised Contract Amount:	\$12,890,843.54	

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

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 (\$)
23	2/29/2016	3/10/2016	\$9,690,470.24	\$502,088.79	\$9,188,381.45	\$694,500.38	3/17/2016	\$3,132,875.61
24	3/31/2016	4/14/2016	\$10,753,362.39	\$554,699.89	\$10,198,662.50	\$1,010,281.05	4/20/2016	\$2,719,390.49
25	4/30/2016	5/12/2016	\$11,194,941.66	\$570,893.11	\$10,624,048.55	\$425,386.05	5/17/2016	\$2,294,004.44
26	5/31/2016	6/10/2016	\$11,448,599.71	\$591,271.28	\$10,857,328.43	\$233,279.88	6/16/2016	\$2,030,837.29
27	6/30/2016	7/7/2016	\$12,210,826.40	\$611,843.66	\$11,598,982.74	\$741,654.31	7/15/2016	\$1,280,389.14
28	7/31/2016	8/2/2016	\$12,293,289.38	\$615,296.07	\$11,677,993.31	\$79,010.57	8/15/2016	\$1,350,855.61
29	8/31/2016	9/9/2016	\$12,602,657.72	\$630,132.87	\$11,972,524.85	\$294,531.54		\$918,318.69

TITLE: CONSTRUCTION CHANGE ORDER LOG

CLIENT: Southwestern Illinois Flood Prevention District Council

PROJECT: Bid Package 03

PROJECT NUMBER: SIFPDC-BP03

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

TITLE: CONSTRUCTION CHANGE ORDER LOG

CLIENT: Southwestern Illinois Flood Prevention District Council

PROJECT: Bid Package 03

PROJECT NUMBER: SIFPDC-BP03

Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments
17*	Relief Well Construction Obstruction	Other	\$257,694.47	\$0.00	3.38	\$ 3,507,071.90	7.35%	2.56%	10/9/2015	Approved	RW Construction Obstruction due to Cobble Layer; Board approval required; 3/18/15 Board approved budget
18*	Tree Mitigation	Other	\$17,403.75	\$0.00	NA	NA	NA	0.17%	10/22/2015	Approved	Tree Replacement Plan for Trees Removed Within the IDOT ROW
19*	Relief Well 1016, 1064, 1065 Modifications	Field	\$15,620.78	\$0.00	3.38	\$ 3,507,071.90	0.45%	0.15%	10/22/2015	Approved	Relief Well 1016, 1064, 1065 Modifications
20*	Relief Well Construction Obstruction	Other	\$111,256.88	\$0.00	3.38	\$ 3,507,071.90	3.17%	1.10%	10/27/2015	Approved	RW Construction Obstruction due to Cobble Layer; Board approval required; 3/18/15 Board approved budget
21*	Relief Well Construction Obstruction	Other	\$108,620.79	\$0.00	3.38	\$ 3,507,073.90	3.10%	1.08%	11/13/2015	Approved	RW Construction Obstruction due to Cobble Layer; Board approval required; 3/18/15 Board approved budget
22*	Russell Commons Buried Waste Part A Deduct & Part C	Field	\$40,618.82	\$0.00	NA	NA	NA	0.40%	11/19/2015	Approved	Russell Commons Buried Waste removal (part of ROM estimate given at the 9/16/15 Board meeting)
23	Delete Duplicate PZ's Per PCN-044 (Credit)	Field	\$ (35,779.00)	\$0.00	3.30	\$ 506,016.00	-7.07%	-0.35%	12/16/2015	Approved	Credit for deletion of duplicate piezometers
24	Relief Well Construction Obstruction RW 1069-1073	Other	\$ 103,824.76	\$0.00	3.38	\$ 3,507,073.90	2.96%	1.03%	3/4/2016	Approved	RW Construction Obstruction due to Cobble Layer; Board approval required; 1/20/16 Board approved budget
25*	Weir 4 Handrail; Wagon Wheel Bore Shoring, Excavation, and Removal of Abandoned Line; Hawthorne impacted material near Weir 3	Field	\$ 113,188.00	\$0.00	NA	NA	NA	1.12%	3/16/2016	Approved	Weir 4 Handrail; Wagon Wheel Bore Shoring, Excavation, and Removal of Abandoned Line; Hawthorne impacted material near Weir 3; Contract Time Extended to 9/30/16
26*	Farm Ditch Revision and Random Fill 1	Field	\$ (135,402.86)	\$0.00	3.33	\$ 433,434.89	-31.24%	-1.34%	3/16/2016	Approved	Farm Ditch Revision and Random Fill 1
27*	Blanket Drain 4 revisions	Other	\$ 493,474.58	\$0.00	3.44	\$ 350,747.77	140.69%	4.89%	3/16/2016	Approved	Blanket Drain 4 revisions
28	Relief Well Construction Obstruction RW 1069-1073	Field	\$ 125,536.21	\$0.00	3.38	\$ 3,507,073.90	3.58%	1.25%	3/31/2016	Approved	RW Construction Obstruction due to Cobble Layer; Board approval required; 1/20/16 Board approved budget
29	Wagon Wheel Road Tunnel	Field	\$ (29,887.27)	\$0.00	3.16	\$ 107,253.77	-27.87%	-0.30%	4/1/2016	Approved	Credit for Wagon Wheel Road Tunnel revisions
30	Credit Relief Well Floor Drain Elimination/Plugging	Field	\$ (8,793.84)	\$0.00	3.38	\$ 3,507,073.90	-0.25%	-0.09%	6/15/2016	Approved	Credit for deletion of relief well floor drains
31*	Hartford Sluice Gate and Manhole Replacement	Other	\$ 149,482.00	\$0.00	NA	NA	NA	1.48%	7/20/2016	Approved	Hartford Sluice Gate and Manhole Replacement; Board approval required
32*	Flood Prevention Efforts June 2015; Russell Commons Park Imported Fill	Field	\$ 11,268.24	\$0.00	NA	NA	NA	0.11%	7/20/2016	Approved	Flood Prevention Efforts June 2015; Russell Commons Park Imported Fill ; Board approval required
33*	Blanket Drain 4 End Section Credit	Field	\$ (11,273.20)	\$0.00	3.11	\$ 94,800.00	-11.89%	-0.11%	7/20/2016	Approved	Blanket Drain 4 End Section Credit
34*	Credit Relief Well Quantity Adjustments	Field	\$ (138,005.38)	\$0.00	3.38	\$ 3,507,073.90	-3.94%	-1.37%	8/17/2016	Approved	Credit Relief Well Quantity Adjustments
35	Time Extension for weather/river delay & Hawthorne Manhole	Other	\$ -	-\$0.00	NA	NA	NA	0.00%	9/9/2016	Approved	Time ExtTime Extension for weather/river delay & Hawthorne Manhole
Total of Project Change Orders			\$2,808,498.54	\$0.00					Total	\$	2,808,498.54

Original Contract Amount \$10,082,345.00
Revised Contract Amount 12,890,843.54
% Change from Original Amount 27.86%

*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 Outfall Line of RW 153X
Change Order #15:	\$79,051.00	Clay Cap Benching and Key Volume (3,437 CY)
Change Order #17:	\$2,882,782.25	Pipe Material Change
Change Order #18:	\$13,660.00	Flood Event Emergency Pumping at Site 9
Change Order #19:	-\$29,295.61	Relief Well Quantity Rectification Credit
Change Order #20:	\$23,943.00	CA06 Rock Placement; Clay Cap Blanket and Loss Time
Total Change Order Amount:	\$3,177,752.60	
Total Revised Contract Amount:	\$6,367,985.05	

Payment Request No.	Pay Request Date	Pay Request Recommended Approval Date	Total Completed to Date (\$)	Amount Retained (10% to 50%) then (5% to 95%)	Total Earned Less 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	4/22/2014	\$2,965,109.75
2	6/11/2014	6/12/2014	\$269,731.33	\$26,973.13	\$242,758.20	\$9,439.20	6/19/2014	\$2,967,108.45
3	8/5/2014	8/11/2014	\$325,641.68	\$32,564.17	\$293,077.51	\$50,319.32	8/14/2014	\$2,920,449.49
4	10/1/2014	10/9/2014	\$970,413.05	\$97,041.31	\$873,371.75	\$580,294.24	10/13/2014	\$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	11/14/2014	\$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	12/18/2014	\$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	1/26/2015	\$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	2/13/2015	\$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	3/19/2015	\$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	4/16/2015	\$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	5/18/2015	\$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	7/9/2015	\$1,050,175.45
13	9/10/2015	9/14/2015	\$2,815,521.76	\$281,552.18	\$2,533,969.58	\$186,300.00	9/14/2015	\$942,925.83
14	2/5/2016	2/11/2016	\$2,928,221.76	\$292,822.18	\$2,635,399.58	\$101,430.00	2/17/2016	\$3,737,938.08
15	4/30/2016	5/12/2016	\$3,111,701.76	\$301,996.18	\$2,809,705.58	\$174,306.00	5/16/2016	\$3,563,632.08
16	8/2/2016	8/9/2016	\$3,135,644.76	\$160,867.24	\$2,974,777.52	\$165,071.94	8/10/2016	\$3,393,207.53

TITLE: CONSTRUCTION CHANGE ORDER LOG

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

PROJECT NUMBER: SIFPDC-BP04

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

Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments
19*	Relief Well Quantity Rectification Credit	Other	-\$29,295.61	\$0.00	4.16	\$ 878,900.00	-3.33%	-0.92%	5/18/2016	Approved	Relief Well Quantity Rectification Credit
20*	CA06 Rock Placement; Clay Cap Blanket and Loss Time	Field	\$23,943.00	\$0.00	NA	NA	NA	0.75%	5/18/2016	Approved	CA06 Rock Placement (\$9,553); Clay Cap Blanket and Loss Time (\$14,390)
21*	Clay Cap Bridge	Field	\$108,620.00	\$0.00	NA	NA	NA	3.40%	8/17/2016	Approved	Clay Cap Bridge
Total of Project Change Orders			\$3,275,773.90	\$10,598.70						Total	\$ 3,286,372.60

Original Contract Amount Revised Contract Amount % Change from Original Amount

\$3,190,232.45 6,476,605.05 103.01%

*Board approval required

CONTRACT INVOICE LOG

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

Project: SWILCD
Construction Package: BP05

Original Contract Amount:	\$ 8,256,481.84	
Change Order #1:	\$ 19,698.78	Locking Sewer Lids per MESD
Change Order #2:	\$ 2,815.00	Gravity Drain Cleanout
Change Order #3:	\$ 1,224.14	Rip Rap Survey
Change Order #4:	\$ 683.99	Manhole Extension
Change Order #5:	\$ 1,863.75	Additional Permits
Change Order #6:	\$ 103,690.00	5 RW Rehabs
Change Order #7:	\$ 31,680.00	PZ Seal Modification
Change Order #8:	\$ 45,199.00	Install 10" Relief Wells instead of 8"
Change Order #9:	\$ 107,201.00	Relief Well Construction Obstruction
Change Order #10:	\$ (5,095.00)	Credit to Remove Vacuum Testing of Manholes
Change Order #11:	\$ -	Contract Time Extension to September 30, 2015
Change Order #12:	\$ (31,680.00)	Delete - PZ Seal Modifications
Change Order #13:	\$ 9,056.25	Remaining Relief Well Permits
Change Order #14:	\$ 110,334.93	60 Slot Relief Well Redesign
Change Order #15:	\$ 83,011.64	Relief Well Construction Obstruction
Change Order #16:	\$ 3,622.38	PZ 875L Alignment Test and Repair
Change Order #17:	\$ 90,000.00	HDPE to RCP Pipe Change-Early Draw for Materials
Change Order #18:	\$ 5,158,639.93	Pipe Material Change to RCP (less CO17)
Change Order #19:	\$ 310,153.93	Flood Event Emergency Pumping at Pump Stations Site 5 & 10
Change Order #20:	\$ 23,178.10	RW Rehab Clean & Test; PZ 875 L
Change Order #21:	\$ (17,715.53)	Credit MOPAC Gates
Change Order #22:	\$ 3,850.10	RW Floor Drain Plugging & Deletion
Change Order #23:	\$ (207,274.33)	Credit Relief Well Quantity Adjustments
Total Change Order Amount:	\$5,844,138.06	
Total Revised Contract Amount:	\$14,100,619.90	

Payment Request No.	Pay Request Date	Pay Request Recommended Approval Date	Total Completed to Date (\$)	Amount Retained (10% to 50%) then (5% to 95%)	Total Earned Less Retained (\$)	Amount Invoiced (\$)	Date Paid by FPD	Estimate to Complete Included Retainage (\$)
1	2/28/2014	3/7/2014	\$266,054.00	\$26,605.40	\$239,448.60	\$239,448.60	3/25/2014	\$8,017,033.24
2	3/31/2014	4/16/2014	\$883,107.43	\$88,310.74	\$794,796.69	\$555,348.09	4/22/2014	\$7,461,685.15
3	4/30/2014	4/16/2014	\$1,462,259.11	\$146,225.91	\$1,316,033.20	\$521,236.51	5/22/2014	\$6,960,147.42
4	5/31/2014	6/10/2014	\$1,627,018.16	\$162,701.82	\$1,464,316.34	\$148,283.15	6/19/2014	\$6,814,679.28
5	6/30/2014	7/14/2014	\$1,750,946.56	\$175,094.66	\$1,575,851.90	\$111,535.56	7/17/2014	\$6,704,367.86
6	8/31/2014	9/9/2014	\$2,052,379.42	\$205,237.94	\$1,847,141.48	\$271,289.57	9/15/2014	\$6,433,762.27
7	9/30/2014	10/9/2014	\$2,442,332.85	\$244,233.29	\$2,198,099.57	\$350,958.09	10/16/2014	\$6,084,667.94
8	10/31/2014	11/13/2014	\$3,002,182.98	\$300,218.31	\$2,701,964.67	\$503,865.11	11/18/2014	\$5,684,492.83
9	11/30/2014	12/12/2014	\$3,506,445.51	\$350,644.57	\$3,155,800.94	\$453,836.27	12/18/2014	\$5,262,336.56
10	12/31/2014	1/15/2015	\$3,740,982.49	\$374,098.27	\$3,366,884.22	\$211,083.28	1/26/2015	\$5,051,253.28
11	1/31/2015	2/6/2015	\$4,088,696.15	\$408,869.64	\$3,679,826.51	\$312,942.29	2/18/2015	\$4,885,615.99
12	2/28/2015	3/9/2015	\$4,251,060.82	\$425,106.10	\$3,825,954.72	\$146,128.21	3/19/2015	\$4,739,487.78
13	3/31/2015	4/10/2015	\$5,082,851.69	\$508,285.19	\$4,574,566.50	\$748,611.78	4/16/2015	\$3,990,876.00
14	4/30/2015	5/12/2015	\$5,497,369.50	\$274,868.49	\$5,222,501.01	\$647,934.51	5/18/2015	\$3,513,664.31
15	5/31/2015	6/10/2015	\$6,007,102.52	\$300,355.14	\$5,706,747.38	\$484,246.37	6/16/2015	\$3,029,417.94
16	6/30/2015	7/7/2015	\$6,065,079.91	\$303,254.01	\$5,761,825.90	\$55,078.52	7/14/2015	\$2,974,339.42
17	7/31/2015	8/3/2015	\$6,123,848.73	\$306,192.45	\$5,817,656.28	\$55,830.38	8/20/2015	\$2,918,509.04
18	8/31/2015	9/11/2015	\$6,134,110.93	\$306,706.56	\$5,827,404.37	\$9,749.09	9/16/2015	\$2,912,383.33
19	9/30/2015	10/8/2015	\$6,162,786.16	\$308,139.32	\$5,854,646.84	\$27,241.47	10/21/2015	\$2,885,140.86
20	10/31/2015	11/13/2015	\$6,186,400.94	\$309,320.06	\$5,877,080.88	\$22,434.04	11/17/2015	\$2,952,706.82
21	11/30/2016	1/8/2016	\$6,186,400.94	\$311,981.05	\$5,874,419.89	(\$2,660.99)	Adjust for Retension-Apply to Req 22	
22	12/1/2015	1/8/2016	\$6,212,507.17	\$314,408.19	\$5,898,098.98	\$21,018.10	1/20/2016	\$8,090,328.65
23	1/30/2016	2/5/2016	\$6,588,304.41	\$332,344.71	\$6,255,959.70	\$357,860.72	2/17/2016	\$8,042,621.86
24	2/29/2016	3/8/2016	\$6,598,658.81	\$333,380.15	\$6,265,278.66	\$9,318.96	3/17/2016	\$8,033,302.90
25	3/31/2016	4/4/2016	\$6,697,823.07	\$338,187.33	\$6,359,635.74	\$94,357.08	4/20/2016	\$7,962,123.92
26	4/30/2016	5/11/2016	\$6,744,735.45	\$342,695.08	\$6,402,040.37	\$42,404.63	5/17/2016	\$7,902,003.76
27	5/31/2016	6/10/2016	\$6,749,705.45	\$342,943.58	\$6,406,761.87	\$4,721.50	6/16/2016	\$7,897,282.26
28	7/31/2016	8/2/2016	\$6,762,439.93	\$343,580.30	\$6,418,859.63	\$12,097.76	8/15/2016	\$7,889,034.60
29	8/31/2016	9/9/2016	\$6,805,013.50	\$342,120.96	\$6,462,892.54	\$44,032.91		\$7,637,727.36

TITLE: CONSTRUCTION CHANGE ORDER LOG

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

PROJECT NUMBER: SIFDC-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
16	PZ 875L Alignment Test and Repair	Field	\$3,622.38	\$0.00	NA	NA	NA	0.04%	7/7/2015	Approved	Alignment test and repairs
17	HDPE to RCP Pipe Change-Early Draw	Other	\$90,000.00	\$0.00	NA	NA	NA	1.09%	10/16/2015	Approved	HDPE to RCP Pipe Change; Early draw to order materials
18*	Pipe Material Change	Other	\$5,158,639.93	\$0.00	NA	NA	NA	62.48%	12/16/2015	Approved	HDPE to RCP Pipe Change
19*	Flood Event Emergency Pumping at Pump Stations Site 5 & 10	Other	\$310,153.93	\$0.00	NA	NA	NA	3.76%	1/20/2016	Approved	Flood Event Emergency Pumping at Pump Stations Site 5 & 10
20*	RW Rehab Clean & Test; PZ 875 L	Other	\$23,178.10	\$0.00	5.22 5.23 NA	\$ 181,620.00	0.28%	0.16%	3/18/2016	Approved	RW Rehab Clean & Test; PZ 875 L
21	Credit change Mopac Sluice Gate	Other	-\$17,715.53	\$0.00	5.30 5.32	\$ 157,587.00	-11.24%	-0.21%	3/31/2016	Approved	Credit change Mopac Sluice Gate
22*	RW Floor Drain Plugging & Deletion	Field	\$3,850.10	\$0.00	NA	NA	NA	0.05%	7/20/2016	Approved	RW Floor Drain Plugging & Deletion
23*	Credit Relief Well Quantity Adjustments	Field	-\$207,274.33	\$0.00	5.27 5.28	\$ 3,204,234.48	-6.47%	-2.51%	8/17/2016	Approved	Credit Relief Well Quantity Adjustments
Total of Project Change Orders			\$5,824,439.28	\$19,698.78			\$5,844,138.06				
Original Contract Amount			\$8,256,481.84	Revised Contract Amount							
				14,100,619.90			% Change from Original Amount				
							70.78%				

*Board approval required

CONTRACT INVOICE LOG

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

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

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

Payment Request No.	Pay Request Date	Pay Request Recommended Approval Date	Total Completed to Date (\$)	Amount Retained (10% to 50%) then (5% to 95%)	Total Earned Less Retainage	Amount Invoiced (\$)	Date Paid by FPD	Estimate to Complete Including Retainage (\$)
4	3/1/2014	3/14/2014	\$1,486,548.00	\$148,654.80	\$1,337,893.20	\$363,442.50	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	7/14/2015	\$1,725,093.82
21	8/1/2015	8/7/2015	\$14,045,434.28	\$702,271.71	\$13,343,162.57	\$37,991.28	8/20/2015	\$1,725,316.29
22	9/1/2015	9/11/2015	\$14,070,459.28	\$703,522.96	\$13,366,936.32	\$23,773.75	9/16/2015	\$1,716,038.79
23	10/1/2015	10/9/2015	\$14,194,301.91	\$654,204.74	\$13,540,097.17	\$173,158.86	10/21/2015	\$1,542,877.94
24	11/1/2015	11/13/2015	\$14,466,220.84	\$667,802.68	\$13,798,418.16	\$258,322.99	11/17/2015	\$1,284,556.95
25	12/1/2015	12/8/2015	\$14,586,512.09	\$673,817.24	\$13,912,694.85	\$114,276.68	12/17/2015	\$1,170,280.26
26	1/1/2016	1/8/2016	\$14,671,739.09	\$678,078.59	\$13,993,660.50	\$80,965.65	1/20/2016	\$1,093,085.14
27	2/1/2016	2/5/2016	\$14,690,989.09	\$679,041.09	\$14,011,948.00	\$18,287.50	2/17/2016	\$1,074,797.64
28	3/31/2016	4/14/2016	\$14,734,532.27	\$420,767.79	\$14,313,764.48	\$301,816.49	4/20/2016	\$772,981.15
29	4/30/2016	5/12/2016	\$14,890,787.97	\$429,290.09	\$14,461,497.88	\$147,733.40	5/17/2016	\$748,755.70
30	5/31/2016	6/10/2016	\$15,014,310.95	\$486,735.97	\$14,527,574.98	\$66,077.10	6/16/2016	\$682,678.60
31	6/30/2016	7/7/2016	\$15,070,725.18	\$371,548.01	\$14,699,177.17	\$171,602.19	7/15/2016	\$511,076.41
32	7/31/2016	8/2/2016	\$15,295,183.00	\$373,143.70	\$14,922,039.30	\$222,862.13	8/15/2016	\$506,496.70
33	8/31/2016	9/9/2016	\$15,319,884.59	\$373,143.70	\$14,946,740.89	\$24,701.59		\$481,795.11

TITLE: CONSTRUCTION CHANGE ORDER LOG

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

PROJECT NUMBER: SIFPDC-BP06

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

TITLE: CONSTRUCTION CHANGE ORDER LOG

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

PROJECT NUMBER: SIFPDC-BP06

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

TITLE: CONSTRUCTION CHANGE ORDER LOG

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

PROJECT NUMBER: SIFPDC-BP06

Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments		
30*	Remobilization Charge for RW 70A, 70B, and 70C; Quantity rectification for Seepage Berms and Clay Caps	Other	\$218,282.42	\$0.00	NA	NA	NA	1.70%	7/20/2016	Approved	Remobilization Charge for RW 70A, 70B, and 70C; Quantity rectification for Seepage Berms and Clay Caps ; Board approval required.		
Total of Project Change Orders			\$2,571,408.25	\$0.00	Total							\$	2,571,408.25
Original Contract Amount			\$12,857,127.75	\$15,428,536.00	% Change from Original Amount								
					20.00%								
*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	11/18/2014	\$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	12/18/2014	\$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	1/26/2015	\$902,945.24
4	2/28/2015	3/10/2015	\$2,587,400.13	\$129,370.02	\$2,458,030.11	\$63,358.35	3/19/2015	\$906,279.89
5	3/31/2015	4/10/2015	\$2,727,400.13	\$136,370.02	\$2,591,030.11	\$133,000.00	4/16/2015	\$773,279.89
6	5/4/2015	5/10/2015	\$3,278,416.10	\$163,920.82	\$3,114,495.28	\$523,465.17	5/18/2015	\$249,814.72
7	6/5/2015	6/12/2015	\$3,371,810.00	\$67,436.20	\$3,304,373.80	\$189,878.52	6/16/2015	\$67,436.20
7	7/8/2015	7/8/2015	\$3,375,350.25	\$0.00	\$3,375,350.25	\$70,976.45	7/14/2015	\$0.00

PROJECT NUMBER: SIFPDC-BP7A

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
Total of Project Change Orders			\$299,141.55	\$0.00						Approved	\$ 299,141.55
Original Contract Amount			\$3,076,208.70	Revised Contract Amount	% Change from Original Amount		9.72%				

***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:	\$0.00	Contract Time Extension
Change Order #2:	\$150,900.00	Verification Coring and Extra Rock
Change Order #3:	\$81,471.82	Panel 78 Bite P2 Replacement
Change Order #4:	\$35,123.82	Slurry Cutoff Wall Overage
Change Order #5:	\$125,189.36	Bike Trail Revisions
Change Order #6:	\$428,578.26	Flood Event Damage Dec 2015 and Jan 2016
Total Change Order Amount:	\$821,263.26	
Total Revised Contract Amount:	\$14,812,263.26	

Payment Request No.	Pay Request Date (Period To:)	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	6/30/2015	7/16/2015	\$350,000.00	\$35,000.00	\$315,000.00	\$315,000.00	7/20/2015	\$13,676,000.00
2	7/31/2015	8/12/2015	\$616,339.20	\$61,633.92	\$554,705.28	\$239,705.28	8/20/2015	\$13,436,294.72
3	8/31/2015	9/11/2015	\$1,561,850.70	\$156,185.07	\$1,405,665.63	\$850,960.35	9/16/2015	\$12,585,334.37
4	9/30/2015	10/13/2015	\$3,045,825.87	\$304,582.59	\$2,741,243.28	\$1,335,577.65	10/21/2015	\$11,249,756.72
5	10/31/2015	11/13/2015	\$3,666,233.98	\$366,623.40	\$3,299,610.58	\$558,367.30	11/17/2015	\$10,691,389.42
6	11/30/2015	12/4/2015	\$3,861,733.98	\$386,173.40	\$3,475,560.58	\$175,950.00	12/17/2015	\$10,515,439.42
7	12/31/2015	1/8/2016	\$4,822,985.68	\$482,298.57	\$4,340,687.11	\$865,126.53	1/20/2016	\$9,650,312.89
8	1/31/2016	2/8/2016	\$6,161,020.23	\$616,102.02	\$5,544,918.21	\$1,204,231.10	2/17/2016	\$8,446,081.79
9	2/29/2016	3/9/2016	\$8,353,561.13	\$766,225.51	\$7,587,335.62	\$2,042,417.41	3/17/2016	\$6,403,664.38
10	3/31/2016	4/12/2016	\$11,312,150.77	\$914,155.00	\$10,397,995.77	\$2,810,660.15	4/20/2016	\$3,593,004.23
11	4/30/2016	5/12/2016	\$12,233,884.46	\$960,241.68	\$11,273,642.78	\$875,647.01	5/17/2016	\$2,984,852.86
12	5/31/2016	6/10/2016	\$12,667,851.08	\$981,940.01	\$11,685,911.07	\$412,268.28	6/16/2016	\$2,572,584.57
13	6/30/2016	7/6/2016	\$13,147,536.91	\$657,376.85	\$12,490,160.07	\$804,249.00	7/15/2016	\$1,893,524.93
14	7/31/2016	8/3/2016	\$13,901,247.73	\$695,062.39	\$13,206,185.34	\$716,025.27	8/15/2016	\$1,606,077.92
15	8/31/2016	8/31/2016	\$14,200,035.60	\$46,578.61	\$14,153,456.99	\$947,271.65		\$658,806.27

TITLE: CONSTRUCTION CHANGE ORDER LOG

CLIENT: Southwestern Illinois Flood Prevention District Council

PROJECT NUMBER: SIFPDC-BP7B (Re-Bid)

PROJECT: Bid Package 7B (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
1	Contract Time Extension	Other	\$0.00	\$0.00	NA	NA	NA	NA	9/2/2015	Approved	34 additional calendar days to be added to Contract time due to high river levels
2*	Cement Bentonite Slurry Trench Cutoff Wall (Rock) Overage; Slurry Wall Panel (Verification) Coring Overage	Field	\$150,900.00	\$0.00	12 17	\$ 323,000.00	46.72%	1.08%	3/24/2016	Approved	Cement Bentonite Slurry Trench Cutoff Wall (Rock) Overage; Slurry Wall Panel (Verification) Coring Overage; Board approval required; approved 4/20/16
3	Panel 78 Bite P2	Other	\$81,471.82	\$0.00	1 9 10 11	\$ 8,814,034.00	0.92%	0.58%	5/5/2016	Approved	Panel 78 Bite P2 Replacement
4	Cement Bentonite Slurry Trench Cutoff Wall (0-80ft (80+ft))	Field	\$35,123.82	\$0.00	10 11	\$ 5,563,486.00	0.63%	0.25%	5/11/2016	Approved	Cement Bentonite Slurry Trench Cutoff Wall (0-80ft (80+ft))
5*	Bike Trail Revision	Other	\$125,189.36	\$0.00	23	\$ 300,000.00	41.73%	0.89%	6/15/2016	Approved	Bike Trail Revision; approved by Board 6/15/16
6*	Flood Costs December 2015 and January 2016	Other	\$428,578.26	\$0.00	NA	NA	NA	3.06%	7/20/2016	Approved	Flood Costs due to December 2015 and January 2016 flood
Total of Project Change Orders			\$821,263.26	\$0.00						Total	\$ 821,263.26

Original Contract Amount Revised Contract Amount % Change from Original Amount
\$13,991,000.00 **14,812,263.26** **5.87%**

*Board approval required



Memo to: Board of Directors

From: Chuck Etwert

Subject: Budget and Disbursement Report for August 2016

Date: September 19, 2016

Current Budget Highlights

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

Accrued expenditures for the current fiscal year beginning on October 1, 2015 are \$43,249,117 while revenues amounted to \$11,048,667 resulting in a deficit of \$32,200,450. A total of approximately \$27,531,855 is held by the counties in their respective FPD sales tax funds and is available for the Council's use on the project.

Monthly sales tax receipts for June 2016 (the latest month reported by the Illinois Department of Revenue) were up 0.32% from last year. Total receipts for the year are up 0.92% from last year, which was our highest year.

Monthly Disbursements

Attached is the list of bank transactions for August 2016. Total disbursements for the month were \$2,339,368.40. The largest payments were to TREVIICOS South for BP #7B, Korte & Luitjohn Construction for BP #2B, Lane Construction for BP #6, Haier Plumbing for BP #4, Amec Foster Wheeler, Husch Blackwell, and the Monroe County Circuit Court.

Recommendation:

Accept the budget report and disbursements for August 2016.

**SOUTHWESTERN ILLINOIS FLOOD PREVENTION
DISTRICT COUNCIL**

**GENERAL FUND
STATEMENT OF REVENUES AND EXPENDITURES – BUDGET AND ACTUAL
ELEVEN MONTHS ENDING AUGUST 31, 2016 AND 2015**



CliftonLarsonAllen LLP
www.cliftonlarsonallen.com

Board Members
Southwestern Illinois Flood Prevention District Council
Collinsville, Illinois

Management is responsible for the accompanying General Fund Statement of Revenues and Expenditures of Southwestern Illinois Flood Prevention District Council (the "Council") for the eleven months ended August 31, 2016 and 2015, in accordance with accounting principles generally accepted in the United States of America. We have performed compilation engagements in accordance with Statements on Standards for Accounting and Review services promulgated by the Accounting and Review Services Committee of the American Institute of certified Public Accountants. We did not audit or review the financial statements nor were we required to perform any procedures to verify the accuracy or completeness of information provided by management. Accordingly, we do not express an opinion a conclusion, nor provide any form of assurances on these financial statements.

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

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

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

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

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

The accompanying original and final budget amounts presented on the General Fund Statement of Revenues and Expenditures – Budget and Actual presented for the year ending September 30, 2016 and 2015, have not been compiled or examined by us, and, accordingly, we do not express an opinion or any other form of assurance on them.

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

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

CliftonLarsonAllen LLP

St. Louis, Missouri
September 10, 2016

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

	BUDGET		ACTUAL	VARIANCE WITH FINAL BUDGET
	ORIGINAL	FINAL		POSITIVE (NEGATIVE)
REVENUES				
Sales Tax Proceeds From Districts	\$ 11,500,000	\$ 11,500,000	\$ 10,508,375	\$ 991,625
Interest Income	75,000	75,000	540,287	(465,287)
Other Contributions	-	-	5	(5)
Total Revenues	11,575,000	11,575,000	11,048,667	526,333
EXPENDITURES				
Current				
Design and Construction				
Engineering Design & Construction Management	13,939,900	14,933,787	4,717,867	10,215,920
Construction	26,597,316	44,674,432	22,921,539	21,752,893
Construction and design by US ACE	2,739,245	2,739,245	2,439,618	299,627
Total Design and Construction	43,276,461	62,347,464	30,079,024	32,268,440
Professional Services				
Legal & Legislative Consulting	391,000	391,000	397,897	(6,897)
Diversity Program Manager	25,130	25,130	16,155	8,975
Financial Advisor	83,200	83,200	94,649	(11,449)
Bond Underwriter/Conduit Issuer	10,000	10,000	12,351	(2,351)
Total Professional Services	509,330	509,330	521,052	(11,722)
Refund of Surplus Funds to County FPD Accounts				
Madison County	1,911,400	1,911,400	1,597,538	313,862
Monroe County	202,080	202,080	168,498	33,582
St. Clair County	1,886,520	1,886,520	1,589,585	296,935
Total Refund of Surplus Funds to County	4,000,000	4,000,000	3,355,621	644,379
Debt Service				
Principal and Interest	7,103,089	7,103,089	9,483,278	(2,380,189)
Federal Interest Subsidy	(843,700)	(843,700)	(424,125)	(419,575)
Total Debt Service	6,259,389	6,259,389	9,059,153	(2,799,764)
Total Operating Expenses	54,045,180	73,116,183	43,014,850	30,101,333
General and Administrative Costs				
Salaries, Benefits	196,500	196,500	179,545	16,955
Bank Service Charges	1,500	1,500	1,220	280
Conference Registration	350	350	358	(8)
Equipment and Software	2,000	2,000	433	1,567
Fiscal Agency Services	29,000	29,000	26,200	2,800
Audit Services	15,000	15,000	15,000	-
Meeting Expenses	1,000	1,000	197	803
Postage/Delivery	400	400	266	134
Printing/Photocopies	2,500	2,500	3,138	(638)
Professional Services	10,000	10,000	257	9,743
Publications/Subscriptions	250	250	117	133
Supplies	3,000	3,000	2,993	7
Telecommunications/Internet	3,000	3,000	2,893	107
Travel	5,000	5,000	708	4,292
Insurance	1,000	1,000	942	58
Total General & Administrative Costs	270,500	270,500	234,267	36,233
Total Expenditures	54,315,680	73,386,683	43,249,117	30,137,566
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES	(42,740,680)	(61,811,683)	(32,200,450)	29,611,233
OTHER FINANCING SOURCES				
Proceeds From Borrowing	65,000,000	77,545,236	83,835,000	6,289,764
NET CHANGE IN FUND BALANCE	\$ 22,259,320	\$ 15,733,553	\$ 51,634,550	\$ 35,900,997

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

	BUDGET		ACTUAL	VARIANCE WITH FINAL BUDGET
	ORIGINAL	FINAL		POSITIVE (NEGATIVE)
REVENUES				
Sales Tax Proceeds From Districts	\$ 11,195,000	\$ 11,195,000	\$ 10,360,363	\$ 834,637
Interest Income	60,000	60,000	266,824	(206,824)
Total Revenues	11,255,000	11,255,000	10,627,187	627,813
EXPENDITURES				
Current				
Design and Construction				
Engineering Design & Construction Management	8,131,050	8,131,050	2,497,822	5,633,228
Construction	45,791,362	45,791,362	25,312,896	20,478,466
Construction and design by US ACE	-	-	-	-
Total Design and Construction	53,922,412	53,922,412	27,810,718	26,111,694
Professional Services				
Legal & Legislative Consulting	216,000	216,000	236,722	(20,722)
Diversity Program Manager	64,140	64,140	57,200	6,940
Financial Advisor	120,000	120,000	13,940	106,060
Bond Underwriter/Conduit Issuer			9,778	(9,778)
Total Professional Services	400,140	400,140	317,640	82,500
Refund of Surplus Funds to County FPD Accounts				
Madison County	1,882,480	1,882,480	1,523,763	358,717
Monroe County	197,080	197,080	159,525	37,555
St. Clair County	1,920,440	1,920,440	1,554,490	365,950
Total Refund of Surplus Funds to County	4,000,000	4,000,000	3,237,778	762,222
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	6,256,629	6,256,629	6,679,389	(422,760)
Total Operating Expenses	64,579,181	64,579,181	38,045,525	26,533,656
General and Administrative Costs				
Salaries, Benefits	206,000	206,000	175,970	30,030
Bank Service Charges	1,500	1,500	1,375	125
Conference Registration	500	500	311	189
Equipment and Software	2,000	2,000	25	1,975
Fiscal Agency Services	26,500	26,500	25,100	1,400
Audit Services	15,000	15,000	14,500	500
Meeting Expenses	1,000	1,000	-	1,000
Postage/Delivery	400	400	358	42
Printing/Photocopies	2,500	2,500	2,570	(70)
Professional Services	20,000	20,000	192	19,808
Publications/Subscriptions	250	250	115	135
Supplies	1,500	1,500	2,594	(1,094)
Telecommunications/Internet	2,500	2,500	2,410	90
Travel	7,500	7,500	458	7,042
Insurance	1,000	1,000	968	32
Total General & Administrative Costs	288,150	288,150	226,946	61,204
Total Expenditures	64,867,331	64,867,331	38,272,471	26,594,860
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES	(53,612,331)	(53,612,331)	(27,645,284)	25,967,047
OTHER FINANCING SOURCES				
Proceeds From Borrowing	-	-	-	-
NET CHANGE IN FUND BALANCE	<u>\$ (53,612,331)</u>	<u>\$ (53,612,331)</u>	<u>\$ (27,645,284)</u>	<u>\$ 25,967,047</u>

Flood Prevention District Sales Tax Trends 2009-2016

2009													County Share	
	Jan	Feb	March	April	May	June	July	August	Sept	October	November	December	Total	
Madison	\$321,968	\$336,765	\$397,425	\$387,385	\$414,350	\$421,402	\$399,616	\$401,188	\$400,090	\$404,847	\$405,930	\$492,814	\$4,783,780	46.319%
St. Clair	\$337,979	\$362,696	\$424,556	\$398,395	\$419,126	\$438,230	\$411,968	\$410,484	\$429,852	\$412,637	\$446,806	\$581,721	\$5,074,450	49.134%
Monroe	\$31,641	\$32,903	\$37,830	\$38,757	\$41,326	\$40,847	\$37,817	\$37,497	\$38,652	\$42,270	\$40,332	\$49,755	\$469,627	4.547%
Total Month	\$691,588	\$732,364	\$859,811	\$824,537	\$874,802	\$900,479	\$849,401	\$849,169	\$868,594	\$859,754	\$893,068	\$1,124,290	\$10,327,857	
Cumulative Total	\$691,588	\$1,423,952	\$2,283,763	\$3,108,300	\$3,983,102	\$4,883,581	\$5,732,982	\$6,582,151	\$7,450,745	\$8,310,499	\$9,203,567	\$10,327,857		
2010														
Madison	\$353,146	\$374,416	\$456,795	\$462,697	\$440,815	\$452,308	\$427,329	\$433,047	\$419,455	430,210	\$442,904	\$529,069	\$5,222,191	47.272%
St. Clair	\$367,458	\$399,480	\$464,089	\$439,748	\$439,139	\$458,299	\$421,447	\$423,718	\$424,971	\$429,581	\$457,927	587,067	\$5,312,924	48.094%
Monroe	\$36,770	\$34,324	\$39,884	\$43,769	\$44,358	\$43,102	\$46,499	\$41,816	\$42,207	\$42,746	\$45,411	\$51,004	\$511,890	4.634%
Total Month	\$757,374	\$808,220	\$960,768	\$946,214	\$924,312	\$953,709	\$895,275	\$898,581	\$886,633	\$902,537	\$946,242	\$1,167,140	\$11,047,005	
Cumulative Total	\$757,374	\$1,565,594	\$2,526,362	\$3,472,576	\$4,396,888	\$5,350,597	\$6,245,872	\$7,144,453	\$8,031,086	\$8,933,623	\$9,879,865	\$11,047,005		
% change/month	9.51%	10.36%	11.74%	14.8%	5.7%	5.9%	5.4%	5.8%	2.1%	5.0%	6.0%	3.8%		
% change/total	9.51%	9.95%	10.62%	11.72%	10.39%	9.56%	8.95%	8.54%	7.79%	7.50%	7.35%	6.96%	6.96%	
2011														
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%	
2012														
Madison	\$381,470	\$406,476	\$473,049	\$471,191	\$481,989	\$477,254	\$427,562	\$434,603	\$428,193	\$428,521	\$429,127	\$523,240	\$5,362,675	47.481%
St. Clair	\$361,727	\$415,491	\$468,490	\$432,173	\$468,782	\$473,567	\$425,923	\$441,838	\$438,184	\$424,289	\$454,916	\$589,183	\$5,394,563	47.763%
Monroe	\$37,471	\$38,904	\$46,086	\$46,051	\$46,231	\$45,671	\$43,063	\$45,307	\$45,641	\$46,230	\$45,429	\$51,062	\$537,146	4.756%
Total Month	\$780,668	\$860,871	\$987,625	\$949,415	\$997,002	\$996,492	\$896,548	\$921,748	\$912,018	\$899,040	\$929,472	\$1,163,485	\$11,294,384	
Cumulative Total	\$780,668	\$1,641,539	\$2,629,164	\$3,578,579	\$4,575,581	\$5,572,073	\$6,468,621	\$7,390,369	\$8,302,387	\$9,201,427	\$10,130,899	\$11,294,384		
% change/month	-0.21%	5.76%	3.21%	1.29%	5.48%	-0.27%	-2.01%	-3.02%	-2.13%	-0.07%	-2.11%	-1.68%		
% change/total	-0.21%	2.83%	2.98%	2.52%	3.15%	2.52%	1.87%	1.23%	0.85%	0.76%	0.49%	0.26%	0.26%	

Flood Prevention District Sales Tax Trends 2009-2016

2013

	Jan	Feb	March	April	May	June	July	August	Sept	October	November	December	Total
Madison	\$373,398	\$383,170	\$424,507	\$425,469	\$457,212	\$451,494	\$436,686	\$442,449	\$430,541	\$429,499	\$432,541	\$500,233	\$5,189,199
St. Clair	\$381,645	\$395,527	\$449,397	\$434,001	\$457,942	\$462,603	\$422,892	\$432,195	\$430,014	\$419,350	\$448,076	\$560,165	\$5,293,807
Monroe	\$37,888	\$39,679	\$45,689	\$45,913	\$48,212	\$47,694	\$42,672	\$45,143	\$44,733	\$44,723	\$47,111	\$53,853	\$543,310
Total Month	\$794,931	\$818,376	\$919,593	\$905,383	\$963,366	\$961,791	\$902,250	\$919,787	\$905,288	\$893,572	\$927,728	\$1,114,251	\$11,026,316
Cumulative Total	\$794,931	\$1,613,307	\$2,532,900	\$3,438,283	\$4,401,649	\$5,363,440	\$6,265,690	\$7,185,477	\$8,090,765	\$8,984,337	\$9,912,065	\$11,026,316	
% change/month	1.83%	-4.94%	-6.89%	-4.64%	-3.37%	-3.48%	0.64%	-0.21%	-0.74%	-0.61%	-0.19%	-4.23%	
% change/total	1.83%	-1.72%	-3.66%	-3.92%	-3.80%	-3.74%	-3.14%	-2.77%	-2.55%	-2.36%	-2.16%	-2.37%	-2.37%

2014

	Jan	Feb	March	April	May	June	July	August	Sept	October	November	December	Total
Madison	\$373,895	\$383,909	\$456,964	\$457,729	\$484,657	\$491,911	\$455,629	\$454,995	\$442,808	\$447,128	\$452,169	\$521,522	\$5,423,317
St. Clair	\$354,762	\$395,885	\$460,143	\$436,379	\$458,819	\$470,546	\$426,263	\$434,064	\$445,419	\$433,077	\$446,001	\$591,387	\$5,352,747
Monroe	\$42,321	\$39,665	\$47,587	\$47,796	\$52,206	\$49,022	\$47,357	\$46,167	\$50,056	\$48,920	\$49,552	\$52,714	\$573,362
Total Month	\$770,978	\$819,459	\$964,694	\$941,905	\$995,682	\$1,011,479	\$929,249	\$935,226	\$938,283	\$929,126	\$947,722	\$1,165,623	\$11,349,426
Cumulative Total	\$770,978	\$1,590,437	\$2,555,131	\$3,497,036	\$4,492,718	\$5,504,197	\$6,433,446	\$7,368,671	\$8,306,955	\$9,236,081	\$10,183,803	\$11,349,426	
% change/month	-3.01%	0.13%	4.90%	4.03%	3.35%	5.17%	2.99%	1.68%	3.64%	3.98%	2.16%	4.61%	
% change/total	-3.01%	-1.42%	0.88%	1.71%	2.07%	2.62%	2.68%	2.55%	2.67%	2.80%	2.74%	2.93%	2.93%

2015

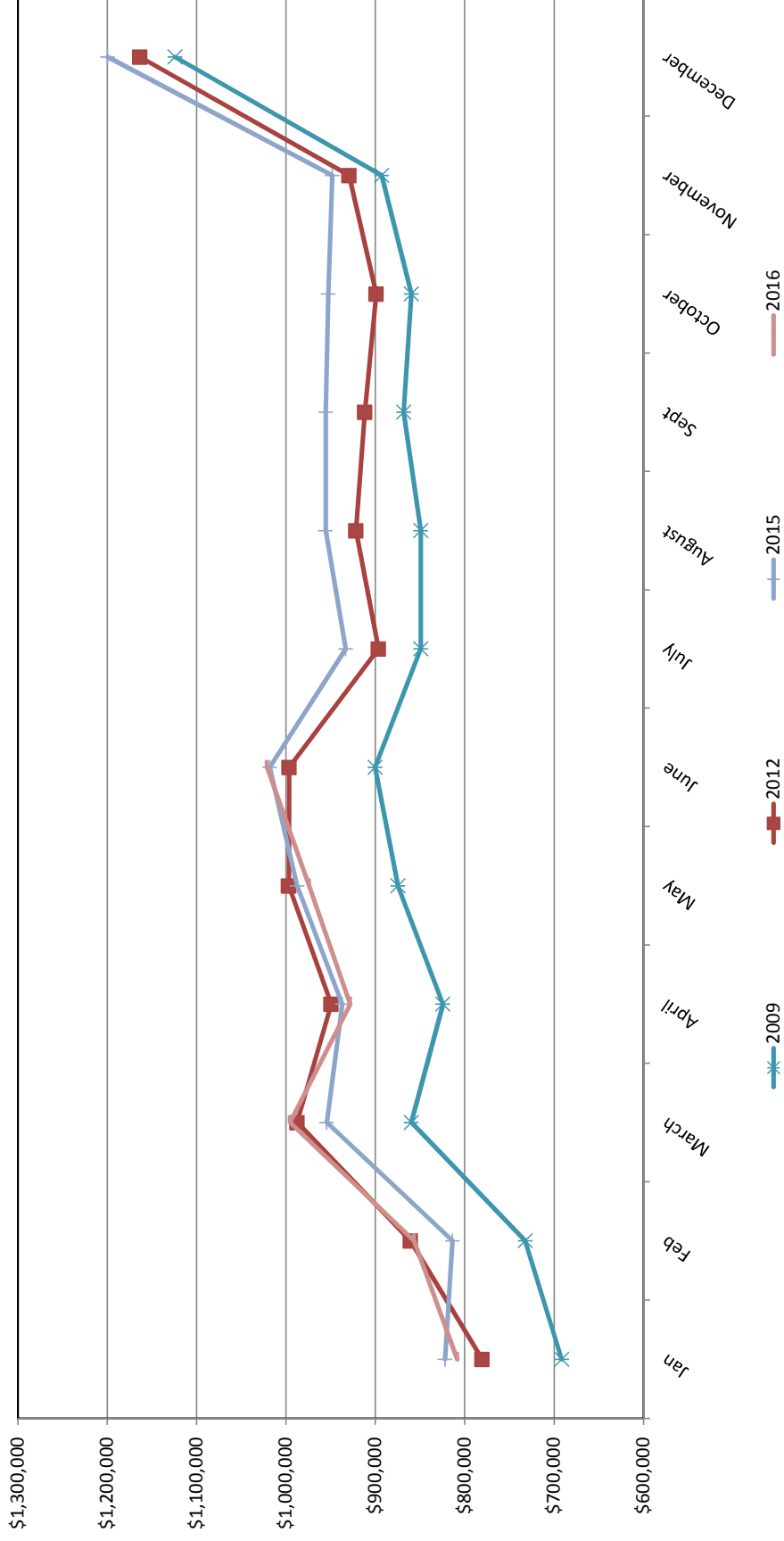
	Jan	Feb	March	April	May	June	July	August	Sept	October	November	December	Total
Madison	\$399,500	\$390,593	\$446,269	\$464,703	\$481,304	\$486,423	\$453,262	\$461,408	\$460,379	\$462,462	\$452,448	\$543,239	\$5,501,990
St. Clair	\$379,901	\$383,206	\$462,400	\$425,254	\$455,740	\$483,020	\$432,378	\$448,558	\$448,981	\$443,474	\$449,738	\$604,257	\$5,416,905
Monroe	\$42,760	\$39,903	\$45,866	\$47,189	\$50,546	\$48,723	\$47,636	\$45,837	\$46,257	\$46,831	\$46,048	\$52,198	\$559,793
Total Month	\$822,161	\$813,702	\$954,534	\$937,146	\$987,590	\$1,018,166	\$933,276	\$955,803	\$955,617	\$952,766	\$948,234	\$1,199,694	\$11,478,688
Cumulative Total	\$822,161	\$1,635,863	\$2,590,397	\$3,527,543	\$4,515,133	\$5,533,299	\$6,466,575	\$7,422,377	\$8,377,994	\$9,330,760	\$10,278,994	\$11,478,688	
% change/month	6.64%	-0.70%	-1.05%	-0.51%	-0.81%	0.66%	0.43%	2.20%	1.85%	2.54%	0.05%	2.92%	
% change/total	6.64%	2.86%	1.38%	0.87%	0.50%	0.53%	0.51%	0.73%	0.86%	1.03%	0.93%	1.14%	1.14%

2016

	Jan	Feb	March	April	May	June	July	August	Sept	October	November	December	Total
Madison	\$395,852	\$411,203	\$475,278	\$456,249	\$478,524	\$494,024							\$2,711,129
St. Clair	\$372,259	\$406,919	\$474,256	\$423,758	\$448,782	\$480,827							\$2,606,800
Monroe	\$40,343	\$38,630	\$45,925	\$48,147	\$46,862	\$46,530							\$266,436
Total Month	\$808,455	\$856,751	\$995,459	\$928,154	\$974,167	\$1,021,380							\$5,584,366
Cumulative Total	\$808,455	\$1,665,206	\$2,660,665	\$3,588,818	\$4,562,986	\$5,584,366							
% change/month	-1.67%	5.29%	4.29%	-0.96%	-1.36%	0.32%							
% change/total	-1.67%	1.79%	2.71%	1.74%	1.06%	0.92%							

Flood Prevention District Sales Tax Trends 2009-2016

Monthly Receipts 2009-2012-2015-2016



Beginning Bank Balance August, 1	\$	643,513.98
Receipts		

UMB	08/12/2016	Funds transfer/ Construction	2,288,332.91	
UMB	08/12/2016	Funds transfer/ Admin	25,373.51	
The Bank of Edwardsville	08/31/2016	August Interest	265.81	
				\$ 2,313,972.23

Disbursements

Microsoft Office	08/02/2016	Subscription	0.99
Illinois Secretary of State	08/08/2016	Registration & Filing Fees	51.18
AT&T	08/08/2016	Telephone	32.12
CliftonLarsonAllen LLP	08/08/2016	Fiscal Agent	2,200.00
Columbia Capital	08/08/2016	Financial Advisor	900.00
Smith Dawson & Andrews	08/08/2016	Government Relations	5,000.00
Sprague & Urban, Attorneys at Law	08/08/2016	Legal & Legislative	8,400.00
Ameren Illinois	08/08/2016	Design & Construction	52,689.94
Amec Foster Wheeler Environment & Infrast	08/09/2016	Design & Construction	295,685.72
Haier Plumbing	08/10/2016	Construction	165,071.94
Monroe County Circuit Court	08/10/2016	Construction	366,735.97
Husch Blackwell	08/11/2016	Legal & Legislative	138,954.30
The Bank of Edwardsville	08/12/2016	Wire Fee	10.00
The Bank of Edwardsville	08/12/2016	Wire Fee	10.00
Keller Construction Inc	08/15/2016	Construction	79,010.57
Keller Construction Inc	08/15/2016	Construction	12,097.76
Korte & Luitjohan Contractors Inc	08/15/2016	Construction	180,500.00
The Lane Construction Corporation	08/15/2016	Construction	222,862.13
TREVIICOS South	08/15/2016	Construction	716,025.28
The Bank of Edwardsville	08/15/2016	Wire Fee	15.00
The Bank of Edwardsville	08/15/2016	Wire Fee	15.00
The Bank of Edwardsville	08/15/2016	Wire Fee	15.00
The Bank of Edwardsville	08/15/2016	Wire Fee	15.00
The Bank of Edwardsville	08/15/2016	Wire Fee	15.00
AT&T	08/15/2016	Telephone	55.24
CDW Government	08/16/2016	Supplies	655.47
Walmart	08/16/2016	Office Supplies	33.08
Cost Less Copy Center	08/16/2016	Board Member Materials	347.40
Charles Etwert	08/19/2016	Travel & Mileage Reimbursement	506.12
Metroeast Park and Recreation District	08/19/2016	Internet Services	720.00
ABNA	08/23/2016	Design & Construction	651.00
ABNA	08/23/2016	Design & Construction	3,439.80
East-West Gateway Council of Governments	08/25/2016	Supervisory Mgt Services	17,641.29
FEDEX	08/25/2016	Postage	21.50
Hill International, Inc	08/29/2016	Legal & Legislative	34,601.72
Hill International, Inc	08/29/2016	Legal & Legislative	34,365.00
The Bank of Edwardsville	08/31/2016	Bank Service Fee	17.88

\$ 2,339,368.40

\$ 618,117.81



Memo to: Board of Directors

From: Chuck Etwert

Subject: Change Order BP #3

Date: September 19, 2016

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

We have one change order on Bid Packages #3, which Amec Foster Wheeler will be explaining at the meeting.

Bid Package 03 – Additional Grading Work - \$12,140.80

This change order is to address a reasonable and just request from a land owner to modify some of the drainage improvements that are necessary as a result of a seepage berm placed along the levee itself. The contractor will modify a ditch and regrade a section of land. A change order in the amount of \$12,140.80. is recommended.

Recommendation:

Authorize the Chief Supervisor to approve the requested change order for Bid Package #3 – Additional Grading Work, with Keller Construction for a total cost not to exceed \$12,140.80.

There are no new additions to the pending change order list.



Memo to: Board of Directors

From: Chuck Etwert

Subject: Amec Foster Wheeler Work Order Amendments

Date: September 19, 2016

With the completion of the 100-Year projects taking longer than originally anticipated, there are six Work Orders with Amec Foster Wheeler that need to be amended for Period of Performance. There is no change in cost for these six Work Orders.

In addition, there are two work orders needing an adjustment of the authorized funds with a total net effect of zero between the Work Orders.

Work Orders with Period of Performance Adjustments only:

Work Order #1 – Program Management Services - Amendment 3

Extending Period of Performance from December 31, 2015 to December 31, 2017
No change in funding

Work Order #7 – Final Design Services - Amendment 1

Extending Period of Performance from November 29, 2013 to December 31, 2017
No change in funding

Work Order #9 – Wood River Cut Off Walls Final Design Services - Amendment 1

Extending Period of Performance from March 31, 2015 to December 31, 2017
No change in funding

Work Order #11 – FEMA Certification Submittals - Amendment 1

Extending Period of Performance from July 1, 2016 to December 31, 2017
No change in funding

Work Order #12 – USACE Authorized Level of Protection Planning and Analysis –
Amendment 1

Extending Period of Performance from December 31, 2016 to December 31, 2017
No change in funding

Work Order #15 – East St. Louis 126-Inch Sewer Removal at MESD Levee - Design & Bid
Phase Services - Amendment 1

Extending Period of Performance from December 31, 2016 to December 31, 2017
No change in funding

Work Orders with Funding and Period of Adjustments:

Work Order #10 – Construction Phase Services for Bid Packages 7A & 7B - Amendment 1

Extending Period of Performance from December 31, 2015 to December 31, 2017 &
Authorized Funding deduction of \$450,000, from \$1,975,000 to \$1,525,000

BP 7A & 7B Construction Managements Services less than originally anticipated.

Work Order #8 – Construction Phase Services - Amendment 5

Extending Period of Performance from December 31, 2016 to December 31, 2017
Authorized Funding increase of \$450,000, from \$5,427,000 to \$5,877,000

BP 2B, 3, 4, & 5 Construction Management Services increased due to schedule impacts
caused by the Mississippi River stage.

Copies of all Work Order Amendments are attached.

Recommendation:

Authorize the Chief Supervisor to execute Work Order Amendments for:

Work Order #1 – Program Management Services - Amendment 3,

Work Order #7 – Final Design Services - Amendment 1,

Work Order #9 – Wood River Cut Off Walls Final Design Services - Amendment 1,

Work Order #11 – FEMA Certification Submittals - Amendment 1,

Work Order #12 – USACE Authorized Level of Protection Planning and Analysis -
Amendment 1, and

Work Order #15 – East St. Louis 126-Inch Sewer Removal at MESD Levee - Design &
Bid Phase Services - Amendment 1

with Amec Foster Wheeler, extending the Period of Performance in each Work Order to
December 31, 2017.

Authorize the Chief Supervisor to execute Work Order Amendments with Amec Foster Wheeler
for:

Work Order #10 – Construction Phase Services for Bid Packages 7A & 7B -
Amendment 1, extending the Period of Performance to December 31, 2017 and reducing
the authorized level of funding by \$450,000, from \$1,975,000 to \$1,525,000, and

Work Order #8 – Construction Phase Services - Amendment 5 extending the Period of
Performance to December 31, 2017 and increasing the authorized funding for Work
Order #8 – Construction Phase Services - Amendment 5 by \$450,000, from \$5,427,000 to
\$5,877,000 for a net increase of \$0.00.



WORK ORDER NO: MSA01-WO01 AMENDMENT 3

PROGRAM MANAGEMENT SERVICES

Issued Pursuant to Master Services Agreement Effective **September 21, 2016**,

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 Collinsville, IL 62234	Amec Foster Wheeler Project No:	563170001
CLIENT Contact:	Charles Etwert	Work Order Type: (Check One)	
Amec Foster Wheeler Office:	15933 Clayton Road Suite 215 Ballwin, MO 63011	Time and Materials (rates attached)	X
		Fixed Price	
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: **Wood River Drainage and Levee District, Metro East Sanitary District, Prairie du Pont Drainage and Levee District, and Fish Lake Drainage and Levee District.**

3. PERIOD OF PERFORMANCE: **August 18, 2010 through December 31, 2017**

4. AUTHORIZED FUNDING: *** No Change ***

5. SPECIAL PROVISIONS: **n/a**

**Southwestern Illinois Flood
Prevention District Council**

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

By: _____
Name: **Charles Etwert**
Title: **Chief Supervisor of
Construction and the Works**

By: _____
Name: **Jon Omvig**
Title: **St. Louis Office Manager**

Date: _____
Address: **104 United Drive**
Collinsville, IL 62234

Date: _____
Address: **15933 Clayton Road, Suite 215**
Ballwin, MO 63011



WORK ORDER NO: MSA01-WO07 AMENDMENT 1

FINAL DESIGN SERVICES

Issued Pursuant to Master Services Agreement Effective **September 21, 2016**,

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 Collinsville, IL 62234	Amec Foster Wheeler Project No:	563170001
CLIENT Contact:	Charles Etwert	Work Order Type: (Check One)	
Amec Foster Wheeler Office:	15933 Clayton Road Suite 215 Ballwin, MO 63011	Time and Materials (rates attached)	X
		Fixed Price	
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: **Wood River Drainage and Levee District, Metro East Sanitary District, Prairie du Pont Drainage and Levee District, and Fish Lake Drainage and Levee District.**

3. PERIOD OF PERFORMANCE: **December 17, 2011 through December 31, 2017**

4. AUTHORIZED FUNDING: *** No Change ***

5. SPECIAL PROVISIONS: **n/a**

**Southwestern Illinois Flood
Prevention District Council**

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

By:
Name: **Charles Etwert**
Title: **Chief Supervisor of
Construction and the Works**

By:
Name: **Jon Omvig**
Title: **St. Louis Office Manager**

Date:
Address: **104 United Drive**
Collinsville, IL 62234

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



WORK ORDER NO: MSA01-WO09 AMENDMENT 1

WOOD RIVER CUT OFF WALLS FINAL DESIGN SERVICES

Issued Pursuant to Master Services Agreement Effective **September 21, 2016**,

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 Collinsville, IL 62234	Amec Foster Wheeler Project No:	563170001
CLIENT Contact:	Charles Etwert	Work Order Type: (Check One)	
Amec Foster Wheeler Office:	15933 Clayton Road Suite 215 Ballwin, MO 63011	Time and Materials (rates attached)	X
		Fixed Price	
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: **Wood River Drainage and Levee District,**

3. PERIOD OF PERFORMANCE: **February 1, 2014 through December 31, 2017**

4. AUTHORIZED FUNDING: *** No Change ***

5. SPECIAL PROVISIONS: **n/a**

**Southwestern Illinois Flood
Prevention District Council**

By: _____
Name: **Charles Etwert**
Title: **Chief Supervisor of
Construction and the Works**

Date: _____
Address: **104 United Drive**
Collinsville, IL 62234

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

By: _____
Name: **Jon Omvig**
Title: **St. Louis Office Manager**

Date: _____
Address: **15933 Clayton Road, Suite 215**
Ballwin, MO 63011



WORK ORDER NO: MSA01-WO11 AMENDMENT 1

FEMA Certification Submittals

Issued Pursuant to Master Services Agreement Effective **September 21, 2016**,

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 Collinsville, IL 62234	Amec Foster Wheeler Project No:	563170001
CLIENT Contact:	Charles Etwert	Work Order Type: (Check One)	
Amec Foster Wheeler Office:	15933 Clayton Road Suite 215 Ballwin, MO 63011	Time and Materials (rates attached)	X
		Fixed Price	
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: **Wood River Drainage and Levee District, Metro East Sanitary District, Prairie du Pont Drainage and Levee District, and Fish Lake Drainage and Levee District.**

3. PERIOD OF PERFORMANCE: **February 18, 2015 through December 31, 2017**

4. AUTHORIZED FUNDING: *** No Change ***

5. SPECIAL PROVISIONS: **n/a**

**Southwestern Illinois Flood
Prevention District Council**

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

By: _____
Name: **Charles Etwert**
Title: **Chief Supervisor of
Construction and the Works**

By: _____
Name: **Jon Omvig**
Title: **St. Louis Office Manager**

Date: _____
Address: **104 United Drive**
Collinsville, IL 62234

Date: _____
Address: **15933 Clayton Road, Suite 215**
Ballwin, MO 63011



WORK ORDER NO: MSA01-WO12 AMENDMENT 1

USACE Authorized Level of Protection Planning and Analysis

Issued Pursuant to Master Services Agreement Effective **September 21, 2016,**

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 Collinsville, IL 62234	Amec Foster Wheeler Project No:	563170001
CLIENT Contact:	Charles Etwert	Work Order Type: (Check One)	
Amec Foster Wheeler Office:	15933 Clayton Road Suite 215 Ballwin, MO 63011	Time and Materials (rates attached)	X
		Fixed Price	
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: **Wood River Drainage and Levee District, Metro East Sanitary District, Prairie du Pont Drainage and Levee District, and Fish Lake Drainage and Levee District.**

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

4. AUTHORIZED FUNDING: *** No Change ***

5. SPECIAL PROVISIONS: **n/a**

**Southwestern Illinois Flood
Prevention District Council**

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

By:
Name: **Charles Etwert**
Title: **Chief Supervisor of
Construction and the Works**

By:
Name: **Jon Omvig**
Title: **St. Louis Office Manager**

Date:
Address: **104 United Drive**
Collinsville, IL 62234

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



WORK ORDER NO: MSA01-WO15 AMENDMENT 1

East Saint Louis 126-inch Sewer Removal at MESD Levee – Design & Bid Phase Services

Issued Pursuant to Master Services Agreement Effective **September 21, 2016**,

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 Collinsville, IL 62234	Amec Foster Wheeler Project No:	563170001
CLIENT Contact:	Charles Etwert	Work Order Type: (Check One)	
Amec Foster Wheeler Office:	15933 Clayton Road Suite 215 Ballwin, MO 63011	Time and Materials (rates attached)	X
		Fixed Price	
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: **Metro East Sanitary District**

3. PERIOD OF PERFORMANCE: **October 21, 2015 through December 31, 2017**

4. AUTHORIZED FUNDING: *** No Change ***

5. SPECIAL PROVISIONS: **n/a**

**Southwestern Illinois Flood
Prevention District Council**

By: _____
Name: **Charles Etwert**
Title: **Chief Supervisor of
Construction and the Works**

Date: _____
Address: **104 United Drive**
Collinsville, IL 62234

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

By: _____
Name: **Jon Omvig**
Title: **St. Louis Office Manager**

Date: _____
Address: **15933 Clayton Road, Suite 215**
Ballwin, MO 63011



WORK ORDER NO: MSA01-WO10 AMENDMENT 1

CONSTRUCTION PHASE SERVICES for Bid Packages 7A & 7B

Issued Pursuant to Master Services Agreement Effective **September 21, 2016,**

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 Collinsville, IL 62234	Amec Foster Wheeler Project No:	563170001
CLIENT Contact:	Charles Etwert	Work Order Type: (Check One)	
Amec Foster Wheeler Office:	15933 Clayton Road Suite 215 Ballwin, MO 63011	Time and Materials (rates attached)	X
		Fixed Price	
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: **Wood River Drainage and Levee District.**

3. PERIOD OF PERFORMANCE: **August 20, 2014 through December 31, 2017**

4. AUTHORIZED FUNDING: **- \$450,000**

5. SPECIAL PROVISIONS: **n/a**

**Southwestern Illinois Flood
Prevention District Council**

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

By:
Name: **Charles Etwert**
Title: **Chief Supervisor of
Construction and the Works**

By:
Name: **Jon Omvig**
Title: **St. Louis Office Manager**

Date:
Address: **104 United Drive**
Collinsville, IL 62234

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

Attachment A

Scope of Work

**WORK ORDER NO: MSA01-WO10
CONSTRUCTION PHASE SERVICES for Bid Packages 7A & 7B**

Amec Foster Wheeler Project No: 56317001

Scope per Work Order 10

AMENDMENT 1 – (09/21/2016)

CM Credit for 7A & 7B

Credit of construction management services for Bid Packages 7A and 7B.

Amount in CM Credit for 7A & 7B = -\$450,000

SUMMARY

Total for Original Agreement =\$1,975,000

Total for Amendment 1 =\$ -450,000

Total for Work Order 10 =\$1,525,000



WORK ORDER NO: MSA01-WO08 AMENDMENT 5

CONSTRUCTION PHASE SERVICES

Issued Pursuant to Master Services Agreement Effective **September 21, 2016**,

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 Collinsville, IL 62234	Amec Foster Wheeler Project No:	563170001
CLIENT Contact:	Charles Etwert	Work Order Type: (Check One)	
Amec Foster Wheeler Office:	15933 Clayton Road Suite 215 Ballwin, MO 63011	Time and Materials (rates attached)	X
		Fixed Price	
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: **Wood River Drainage and Levee District, Metro - East Sanitary District, Prairie du Pont Drainage and Levee District.**

3. PERIOD OF PERFORMANCE: **March 1, 2012 through December 31, 2017**

4. AUTHORIZED FUNDING: **\$450,000**

5. SPECIAL PROVISIONS: **n/a**

**Southwestern Illinois Flood
Prevention District Council**

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

By: _____
Name: **Charles Etwert**
Title: **Chief Supervisor of
Construction and the Works**

By: _____
Name: **Jon Omvig**
Title: **St. Louis Office Manager**

Date: _____
Address: **104 United Drive**
Collinsville, IL 62234

Date: _____
Address: **15933 Clayton Road, Suite 215**
Ballwin, MO 63011

Attachment A
Scope of Work

WORK ORDER NO: MSA01-WO08
CONSTRUCTION PHASE SERVICES

Amec Foster Wheeler Project No: 56317001

Scope per Work Order 08

AMENDMENT 5 – (09/21/2016)

CM for River Delays

Construction management services for Bid Packages 2B, 3, 4, & 5 as a result of schedule impacts caused by the Mississippi River stage throughout 2016.

Amount in CM for River Delays = \$450,000

SUMMARY

Total for Original Agreement	=\$ 27,000
Total for Amendment 1	=\$ 271,000
Total for Amendment 2	=\$2,078,878
Total for Amendment 3	=\$2,806,122
Total for Amendment 4	=\$ 244,000
<u>Total for Amendment 5</u>	<u>=\$ 450,000</u>

Total for Work Order 8 = \$5,877,000



Memo to: Board of Directors

From: Chuck Etwert

Subject: Amec Foster Wheeler Work Order 16
Prairie Du Pont/Fish Lake Authorized Level Field Investigation and Design
Phase I

Date: September 19, 2016

As discussed during the Prairie Du Pont/Fish Lake Levee System Authorized Level Project Summary Report Phase I, at last month's meeting, Amec Foster Wheeler proposes the development of bid package number fifteen for the Prairie Du Pont/Fish Lake Levee System.

At the meeting, they will present their Work Order for the Prairie Du Pont/Fish Lake Levee System Authorized Level Field Investigation and Design Phase I, which will include complete Construction Documents and associated Design Services in support of the design and construction of levee improvements throughout the Prairie Du Pont/Fish Lake Levee System.

Services include:

- Preparation of Drilling Plan
- Evaluations
- Land Surveys
- Seepage berm Solutions
- Relief Well Solutions
- General Civil Improvements (Conveyance Systems & Roads)
- 408 Submittal
- Stakeholder Coordination
- Bid Phase Services

A detailed scope of work and cost estimate for the Prairie Du Pont/Fish Lake Levee System Authorized Level Field Investigation and Design Phase I, is attached to this memo.

Recommendation: Authorize the Chief Supervisor to execute Work Order 16 with Amec Foster Wheeler Environment & Infrastructure Inc. for the Prairie Du Pont/Fish Lake Levee System Authorized Level Field Investigation and Design Phase I, as shown in the attachment, in the amount of \$3,486,000.



WORK ORDER NO: MSA01-WO16

Prairie du Pont / Fish Lake Authorized Level Field Investigation and Design

September 21, 2016,

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	
Amec Foster Wheeler Contact:	Ballwin, MO 63011		
	Jon Omvig	CLIENT Reference No:	n/a

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

2. LOCATION/CLIENT FACILITY INVOLVED: **Prairie du Pont Levee & Sanitary District, Fish Lake Drainage & Levee District.**

3. PERIOD OF PERFORMANCE: **September 21, 2016 through December 31, 2018**

4. AUTHORIZED FUNDING: **\$3,486,000**

5. SPECIAL PROVISIONS: **n/a**

**Southwestern
Illinois Flood Prevention District Council**

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

By:
Name: **Charles Etwert**
Title: **Chief Supervisor of
Construction and the Works**

By:
Name: **Jon Omvig**
Title: **St. Louis Office Manager**

Date:
Address: **104 United Drive**
Collinsville, IL 62234

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

Attachment A Scope of Work

WORK ORDER NO: MSA01-WO16

Amec Foster Wheeler's services will include review of the specific Authorized Level improvements identified, herein referred to as Phase I, by the U.S. Army Corps of Engineers (USACE) in the *Limited Reevaluation Report for Design Deficiency Corrections, East St. Louis, Illinois Flood Protection Project, Prairie du Pont and Fish Lake Flood Risk Reduction Project, St. Clair and Monroe Counties, Illinois*, dated August, 2011 (2011 LRR). The 2011 LRR has since been supplemented with three memoranda that supersede their respective reaches in the 2011 LRR. Each memo discusses specific reaches (decision segments), although it is important to note that the supplemental memoranda do not cover the entire Prairie du Pont (PdP) and Fish Lake (FL) levee systems. The three memoranda provided (dated 3/15/2016, 4/11/2016, and 6/16/2016) only analyze reaches where the FPD Council either constructed seepage berms or did not construct *any* improvements as part of its FEMA certification design projects.

Amec Foster Wheeler's services include an analysis to estimate underseepage gradients at the authorized level flood and evaluations of relief well and seepage berm solutions to mitigate the problems and provide the level of protection indicated and/or desired by USACE. For relief well solutions, after appropriate evaluations to select the spacing, discharge elevations, and predicted flows, Amec Foster Wheeler will design the relief wells based on pilot hole drilling. For seepage berm solutions, berm dimensions will be provided after appropriate analyses.

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 identified in the Prairie du Pont/Fish Lake Authorized Level Project Summary Report – Phase I, prepared for the FPD Council, dated August 12, 2016. Services to be provided by Amec Foster Wheeler under this Work Order include:

1. **PREPARE DRILLING PLAN**
 - 1.1. Prepare narrative plan describing purpose, procedures and method
 - 1.2. Prepare exhibits (maps and table of proposed borings)
 - 1.3. Coordinate with drilling sub-contractor for information needed for drilling plan, and coordinate with USACE for submittal and review of plan

2. **EVALUATIONS**

- 2.1. Meet with USACE to discuss and affirm design criteria
- 2.2. Collect and review piezometer data from recent flood event and use available information in BP-15 area to check hydraulic grade lines and entry point assumptions
- 2.3. Review and update geologic, historic, flood fight, and geotechnical information
- 2.4. Update topography and design reach cross sections with new LIDAR
- 2.5. Prepare authorized level leaky blanket sheet to reflect new LIDAR and FEMA borings, update design reach cross sections, identify problem areas and compare to USACE memo; delineate design reaches
- 2.6. Conduct Seep/W analyses for selected design reaches
- 2.7. Select solutions for each design reach; design spacing, location, discharge elevation and flow for relief wells; design height and length for berms
- 2.8. Conduct progress meeting with USACE

3. **LAND SURVEYS**

- 3.1. Prepare land-based topographic surveys to locate limits of physical features, ground elevations and improvements to supplement aerial photos and Lidar survey data.
- 3.2. 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
- 3.3. 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
- 3.4. 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

4. **SEEPAGE BERM SOLUTIONS**

- 4.1. The design solutions proposed by the St. Louis District will be reviewed in conjunction with the other planned underseepage design analyses, and evaluated to provide a constructible and efficient approach
- 4.2. Prepare utility relocation construction documents for non-utility company relocated utilities, to include:
 - construction drawings
 - specifications
 - construction cost estimate
- 4.3. Coordinate utility relocations for utility company relocated utilities, to include:
 - coordinate conflict resolution
 - coordinate schedule
 - coordinate relocation cost
- 4.4. Drill Seepage Berm Soil Borings:
 - sub-contract with driller(s) to perform soil borings according to approved Drilling Plan prepared by Amec Foster Wheeler in conjunction with USACE
 - conduct soil borings at each proposed seepage berm location in accordance with the approved Drilling Plan (one boring to a depth of 50 feet is planned for each berm reach)
 - provide drilling oversight and coordination, health and safety plans, and provide a qualified on-site drill rig monitor to supervise the work and log samples
 - conduct soil laboratory tests as appropriate for design
 - prepare gINT boring logs containing classifications and test results
 - Compare stratigraphy with design assumptions
- 4.5. Prepare complete seepage berm 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
 - appurtenant ditching, road relocation, etc.
- 4.6. Prepare complete seepage berm specifications.
- 4.7. Prepare a construction cost estimate.
- 4.8. Prepare Hydrologic and Hydraulic (H&H) modeling for interior drainage impacts associated with design improvements for submittal to regulatory agencies as needed.

5. RELIEF WELL SOLUTIONS

- 5.1. Compare pilot hole borings with stratigraphy on which spacing and location of wells were based, and make necessary revisions (if any)
- 5.2. Prepare individual design for each relief well; submit to USACE for review
- 5.3. Prepare complete utility relocation construction documents, to include:
 - construction drawings
 - specifications
 - construction cost estimate
- 5.4. Prepare complete utility relocation construction documents for non-utility company relocated utilities, to include:
 - construction drawings
 - specifications
 - construction cost estimate
- 5.5. Coordinate utility relocations for utility company relocated utilities, to include:
 - coordinate conflict resolution
 - coordinate schedule
 - coordinate relocation cost
- 5.6. Drill Pilot Holes
 - sub-contract with driller(s) to perform pilot holes according to approved Drilling Plan prepared by Amec Foster Wheeler in conjunction with USACE
 - conduct a pilot hole at each proposed relief well location that does not already have an associated pilot hole
 - each pilot hole will be an SPT soil boring to a depth approximately 10 feet below the estimated bottom of the new relief well
 - provide drilling oversight and coordination, health and safety plans, and procurement
 - provide a qualified on-site drill rig monitor to supervise the work and log samples
 - conduct soil laboratory tests as appropriate for design
 - prepare gINT boring logs containing classifications and test results
- 5.7. 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.
- 5.8. Prepare specification for abandonment of unneeded or deficient relief wells.
- 5.9. Prepare specification for installation of new relief wells.
- 5.10. Prepare a construction cost estimate.

6. **GENERAL CIVIL IMPROVEMENTS (CONVEYANCE SYSTEMS & ROADS)**

- 6.1. Prepare complete civil construction drawings, to include:
- limits of existing right-of-way
 - limits of new right-of-way
 - limits of temporary construction easements
 - aerial photo background as necessary
 - topographic information (existing contours and utilities)
 - appurtenant ditching, road relocation, etc.
- 6.2. Prepare complete specifications.
- 6.3. Prepare a construction cost estimate.

7. **408 SUBMITTAL**

- 7.1. Conduct pre-coordination meetings and submittals with USACE as needed to facilitate a streamlined formal Section 408 review process
- 7.2. Prepare USACE Section 408 Request in accordance with the current applicable guidance
- 7.3. Prepare Geotechnical Design Report
- 7.4. Review Dr. Checks/Projnet comments and respond in writing
- 7.5. Revise specifications to address USACE questions
- 7.6. Revise procurement documents to address USACE questions
- 7.7. Revise plans to address USACE questions

8. **STAKEHOLDER COORDINATION**

- 8.1. Meet with the Council as needed to present and discuss design progress.
- 8.2. Attend public meetings as needed to present design progress.
- 8.3. Attend meetings, and engage with, personnel from the Prairie du Pont Levee and Sanitary District to discuss and obtain feedback on design solutions.

9. **BID PHASE SERVICES**

- 9.1. 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
- 9.2. Coordinate with construction management team to review bids and recommend contractor selection for each bid package.

10. **KEY ASSUMPTIONS**

- 10.1. No value engineering report is required
- 10.2. Key design criteria are accepted or stipulated by USACE prior to design
- 10.3. One 50' or two 25' borings are sufficient to define berm stratigraphy in each design reach
- 10.4. No contaminated cuttings or water is produced from soil borings