



SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL
BOARD OF DIRECTORS MEETING
August 16, 2017 7:30 am

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

1. Call to Order
Ron Motil, President
2. Approval of Minutes of July 19, 2017
3. Public Comment on Pending Agenda Items
4. Program Status Report
Chuck Etwert, Chief Supervisor
5. Budget Update and Approval of Disbursements
Chuck Etwert, Chief Supervisor
6. Design and Construction Update
Jay Martin, Amec Foster Wheeler
7. FY 2018 Flood Prevention District Council Budget
Chuck Etwert, Chief Supervisor
8. Flood Prevention District Council Annual Report
Chuck Etwert, Chief Supervisor
9. Change Order – BP #7B
AMEC Environment & Infrastructure
Chuck Etwert, Chief Supervisor

AGENDA

10. Prairie Du Pont/Fish Lake Authorized Level
Project Summary Report (Complete – Phases I & II)
AMEC Environment & Infrastructure
Chuck Etwert, Chief Supervisor
11. Amendments to Amec Foster Wheeler Work Orders #1, #2, #3, & # 14
AMEC Environment & Infrastructure
Chuck Etwert, Chief Supervisor
12. Amec Foster Wheeler Work Order 17
Life-Cycle Cost Analyses for FEMA Improvements
AMEC Environment & Infrastructure
Chuck Etwert, Chief Supervisor
13. Update from Corps of Engineers
Tracey Kelsey, U.S. Army Corps of Engineers
14. Election of Officers for 2017 -2018
Chuck Etwert, Chief Supervisor
15. Public Comment

Executive Session – (if necessary)
16. Other Business
17. Adjournment

Next Meeting: September 20, 2017

MINUTES

SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL BOARD OF DIRECTORS MEETING

July 19, 2017

The regular meeting of the Board of Directors was held at the Metro-East Park and Recreation District Office, 104 United Drive, Collinsville, Illinois at 7:30 a.m. on Wednesday July 19, 2017.

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
Tom Long, Madison County Flood Prevention District
Debra Moore, (Chair, St. Clair County Flood Prevention District)
Alvin Parks, Jr., St. Clair County Flood Prevention District
Jeremy Plank, Madison County Flood Prevention District
Ronald Polka, Monroe County Flood Prevention District

Members Absent

none

Others in Attendance

Robert Elmore, Monroe County Board Chair
Kurt Prenzler, Madison County Board Chair
Chuck Etwert, SW Illinois FPD Council
Steve Adler, Metro-East Sanitary District
Matt Barriger, Land Acq.
Randy Cook, Amec Foster Wheeler Environment & Infrastructure
Mike Feldmann, U.S. Army Corps of Engineers
Gary Hoelscher, Millennia Professional Services
Larry Hofstetter, Prairie Du Pont Levee
David Human, Husch Blackwell LLP
Phil Johnson, Land Acq.
Charles Juneau, Juneau Associates Inc.
Tracey Kelsey, U.S. Army Corps of Engineers
Kevin Koenigstein, Monroe County Treasurer
Jay Martin, Amec Foster Wheeler Environment & Infrastructure
Jack Norman, Illinois Groundwater Advisory Council
Jon Omvig, Amec Foster Wheeler Environment & Infrastructure

Brad Ruppert, Senator Dick Durbin
Ronda Sauget, Leadership Council Southwestern Illinois
Mike Sullivan, Prairie Du Pont Levee

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 – Present
Dr. Moore – Present
Mr. Motil – Present
Mr. Parks – Present
Mr. Plank - Present

A quorum was present.

Approval of Minutes of June 21, 2017

Mr. Motil asked for a motion to approve the minutes of the Board meeting held on June 21, 2017. A motion was made by Dr. Moore, seconded by Mr. Long, to approve the minutes of the Board meeting held on June 21, 2017. Mr. Conrad called the roll and the following votes were made on the motion:

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

The motion was approved.

Mr. Bergkoetter arrived after the vote.

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 95.8% of the \$74.4 million of construction, involved in all ten current construction bid packages, had been completed thru June. The amount of work completed during the month was only \$95,915. This was the second month where less than \$100,000 worth of construction was completed due to high river conditions. The total amount of construction completed is \$71.2 million. There is just under 3.2 million dollars' worth of 100-Year accreditation construction remaining to be completed.

Contractors continue to wait for the river to recede to an acceptable working level. The current river elevation, as of Monday, was around 15.0 feet and was predicted to recede to around 8.0 feet by the end of the month. Major items still needing to be completed are the East St. Louis 126 Inch Sewer Rehabilitation, the MESD clay cap (construction has begun), and the four remaining relief wells in the Wood River area.

It appears, the Corps of Engineers is in agreement with the Council regarding the reallocation of funds from the Wood River area to the East St. Louis area. He referred to a letter from Congressman Bost to the Assistant Secretary of the Army for Civil Works supporting our request and the Corps' proposal to reallocate funds, which was provided in the agenda package, and also provided at the meeting, a letter from Senator Durbin requesting the Corps reallocate the funds. He felt that the reallocation had a good possibility of being accomplished. However, since this is in the pre-decisional determination stage, the Corps cannot inform the Council on the amount of funds the Corps has requested to be reallocated. The Corps anticipates the reallocation process, if successful, will take about six months.

In the Prairie Du Pont/Fish Lake area the Corps of Engineers has identified the Phase II solutions required for the Authorized Level. Amec Foster Wheeler is reviewing the re-analysis information and will provide an updated Authorized Level Report at the August Board meeting.

As discussed at last month's meeting, the Corps of Engineers will now be utilizing a Risk Informed Designed Process, resulting in changes to project priorities and design responsibilities. Therefore, also at the August Board meeting, Amec Foster Wheeler will have Work Order Amendments reflecting these changes.

On June 27, 2017, a new implementation guidance for Section 408 was issued which authorizes district and division commanders to accept and expend funds from non-federal public or private entities to expedite the evaluation of Section 408 requests. Therefore, it appears that utilization of a Section 214 agreement, which would allow the Corps to accept and expend funds contributed by the Council for Section 408 review and oversight and requires a thirty day public

notice, will not need to be pursued. The Corps of Engineers has provided a template for an Agreement for Acceptance of Contributed Funds for a Section 408 Evaluation, which Husch Blackwell is currently reviewing.

The Board was provided a copy of Amec Foster Wheeler's Monthly Progress Report for July and a recent article in the Republic-Times regarding a presentation to the Columbia Chamber of Commerce.

Mr. Motil asked for a motion to accept the Program Status Report for July 2017. A motion was made by Mr. Parks to accept the Program Status Report for July 2017. Mr. Brinkman 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 – Aye
Dr. Moore – Aye
Mr. Motil – Aye
Mr. Parks – Aye
Mr. Plank – Aye

The motion was approved unanimously.

Budget Update and Approval of Disbursements

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

Mr. Etwert noted that the financial statement for June 2017 prepared by our fiscal agent, CliftonLarsonAllen was included in the materials sent for the meeting. The report included an accounting of revenues and expenditures for the month ending June 30, 2017, as compared to the fiscal year budget.

Accrued expenditures for the current fiscal year beginning on October 1, 2016 are \$31,088,450 while revenues amounted to \$9,252,097 resulting in a deficit of \$21,836,353. A total of \$29,192,280 is held by the counties in their respective FPD sales tax funds and is available for the Council's use on the project.

Monthly sales tax receipts of \$985,112 for April 2017 (the latest month reported by the Illinois Department of Revenue) were up 6.14% from last year. This is the highest amount ever collected in April and is the sixth month in a row with the highest receipts collected for that particular month. Receipts are up 3.54% from last year, which was our highest year.

The report included a list of bank transactions for June 2017. Total disbursements for the month were \$3,923,113.11. The largest payments were to Corps of Engineers, Keller Construction for BP #5, TREVIICOS South for BP #7B, and Amec Foster Wheeler.

Also, for the Board's review and anyone else who was interested, Mr. Etwert provided copies of each transaction, which was represented on the June 2017 Bank Transaction Schedule prepared by CliftonLarsonAllen.

Mr. Etwert recommended that the Board accept the budget report and disbursements for June 2017.

Mr. Motil asked for a motion to accept Mr. Etwert's budget report and disbursements for June 2017. A motion was made by Mr. Bergkoetter, seconded by Mr. Parks, to accept the budget report and approve the disbursements for June 2017. 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 - Aye
- Dr. Moore - Aye
- Mr. Motil - Aye
- Mr. Parks - Aye
- Mr. Plank - Aye

The motion was approved unanimously.

Design and Construction Update

Mr. Motil called on Jay Martin, Amec Foster Wheeler's program manager, to provide a report. Mr. Martin used a PowerPoint® presentation to illustrate his remarks. He mentioned recent high river levels had limited the amount of work completed during the last month. His presentation focused on the construction status of each bid package, FEMA Certification Update, and the Authorized Level (500-Year) Design as follows:

Construction Status

Residual flooding from the high river event last month restricted work on all bid packages this month.

Bid Package 2B - WR/MESD/PdP Pump Stations

- Substantial Completion Inspection held on 13 July
- Work that remains to be completed:

Punch List

Bid Package 3 – Wood River Seepage Improvements

- Work that remains to be completed:

Abandonment of 6 relief wells

Bid Package 4 – MESD Seepage Improvements (Conoco Phillips)

- Work that remains to be completed:

8 New Piezometers

Abandonment of 4 Piezometers

Finish Grading & Turf Establishment

Punch List

Bid Package 5 – MESD Seepage Improvements

- Substantial Completion Inspection held on 30 June
- Work that remains to be completed:

Clay Cap – Started!

Punch list

Bid Package 5A – East St. Louis Sewer

- The contractor will mobilize as river levels allow to complete the East St. Louis sewer liner.

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

- Installation of 4 relief wells
- Final grading around relief wells

Construction Photos

- **Bid Package 5 – Clay Cap Earthwork**
- **Bid Package 5 – Keyway excavation**

Cost to Complete Remaining Work

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

- Pump Station Sites: 05, 10, 12, 16 = \$4,406

Bid Package 3 – Wood River Seepage Improvements

- RW Abandonments = \$17,304

Bid Package 4 – MESD Seepage Improvements (Conoco Phillips)

- RCP Replacement = \$15,080
- Base Scope (PZ's & Site Restoration) = \$81,986

Bid Package 5 – MESD Seepage Improvements

- Base Scope (Clay Cap & Site Restoration) = \$2,029,867

Bid Package 5A – East St. Louis Sewer Liner

- ESL Sewer Liner = \$499,355

Bid Package 7B – Wood River Lower (Deep) Cut-off Wall

- Relief Wells & Site Restoration = \$430,228

Next he presented the river level charts for Bid Packages 5A and 7B which reflected the continued high river elevations and the river levels needed for work to resume.

He next discussed the FEMA Certification packages.

FEMA Certification Update

Upper Wood River (Madison County FEMA Flood Insurance Rate Maps)

- Submitted (by USACE March, 2017)

Wood River East & West Forks (Madison County FEMA Flood Insurance Rate Maps)

- Submitted (December, 2016)

FEMA is backlogged and has not started review yet

No indication of when review will begin

Lower Wood River (Madison County FEMA Flood Insurance Rate Maps)

- Awaiting completion of 4 relief wells in bid package 7B
- Efforts are underway preparing the package

MESD (Madison & St. Clair Counties FEMA Flood Insurance Rate Maps)

- Pending completion of Bid Packages 2B, 4, 5, & 5 A
- Construction completion 3rd Quarter 2017
- Submit required documents to USACE by Dec 31, 2017

Prairie du Pont & Fish Lake (St. Clair & Monroe Counties FEMA Flood Insurance Rate Maps)

- Submit to FEMA on July 6, 2017
- Based on stated backlog, we don't expect any comments until 2018

Next, he discussed backwater preventing the installation of the four remaining relief wells in Bid Package 7B – Wood River.

Bid Package 7B - Status

- The four remaining wells are holding up certification to FEMA
- Certification submittal to FEMA is scheduled for end of Q3 2017
- Concern that these 4 relief wells won't be complete in Q3

Bid Package 7B – Options Going Forward

- **Current Path:**

Wait for groundwater / river to recede

FEMA certification may not be submitted at end of Q3

Wood River FEMA certification affects only Madison County flood insurance maps

Madison County maps require both WR certification & MESD LSER

MESDS LSER scheduled to be submitted early 2018 to FEMA

Pending completion of clay cap

- **Alternate:**

We work with contractor and USACE to develop solutions to install these last 4 relief wells while groundwater is high (i.e. dewatering, work pads, etc.)

Solutions will cost money (i.e. change order)

Solution (change order) approved by the board with a date to execute if water has not receded.

There was a brief discussion regarding the definition of the wet season, the potential that the four relief wells, which are located behind the recently built deep cutoff wall, may not be constructed as scheduled due to the water table not receding as fast as needed, FEMA's schedule of review, the volume of water involved, the flow of drainage from the area, the origin of the low spot possibly due to a previous excavation for a development, the existence of the low area even after the relief wells are installed, and the need for the relief wells.

Chairman Prenzler congratulated Amec Foster Wheeler on their foresight on developing an alternate solution addressing the issue and indicated his desire to get the project completed. Mr. Motil suggested and the Board concurred, that Amec Foster Wheeler work with the contractor and the Corps of Engineers to develop an alternate dewatering solution, in order, to keep on the current schedule for obtaining FEMA certification.

Amec Foster Wheeler indicated, it would develop an alternate solution that could be brought before the Council in August, if needed. Mr. Motil asked that Mr. Etwert forward the alternate solution costs to the Board once received from Amec Foster Wheeler.

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

Authorized Level (500-Year) Design

Wood River – Bid Packages 8, 9, and 10

- Bid Package 8 (65% design) is underway

27 Relief Wells & 1 Pump Station

USACE required Value Engineering Study is underway this week

Remaining borings are being completed this week

- LWR Risk Assessment & Supplemental Report (2year duration)

Required because USACE Total Project Cost increased by more than 20%

Started in December 2016

Potential Failure Mode Analysis (PFMA) meeting was May 1-5, 2017

Expert Opinion Elicitation (EOE) Meeting #1 was last week (July 10-14)

EOE Meeting #2 scheduled for August 14-18, 2017

- Bid Packages 9 & 10 on hold pending USACE Risk Assessment & Supplemental Report

MESD – Bid Packages 11, 12/13, and 14

- Bid Package 11

Relief Wells

On Hold, pending USACWE risk informed solution

- Bid Packages 12/13

Relief Wells and 1 Pump Station

On Hold, pending USACE risk informed solution

- Bid Package 14

USACE required Value Engineering Study has been completed

Finishing up design of the package

Package will be “on the shelf” pending USACE risk informed solution

- MESD Deep Cutoff Wall

Pros & Cons of FPD Council vs. USACE design

Options to bid the project increase with FPD Council doing the design

Prairie Du Pont & Fish Lake (Bid Package 15)

- Phase I of II

51 seepage berm reaches, 38 relief wells

Drilling restarted mid-June after flood delay, completed in early July

Topographic survey is underway

- Phase II of II

23 additional seepage berm reaches, 122 additional relief wells

Received solutions on July 7

Preparing an updated Authorized Level Report for August board meeting

- Section 214 Agreement

For USACE review of PDP/FL designs as part of Section 4087 review

FPD Comments to 214 agreement are being complied

Public comment period

Execution at USACE District level

Mr. Motil asked if there were any questions of Mr. Martin. There were none.

Mr. Motil asked for a motion to accept Mr. Martin's Design and Construction Update report. A motion was made by Mr. Parks, with a second by Mr. Brinkman, to accept the Amec Foster Wheeler Design and Construction Update 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 – Aye
Dr. Moore – Aye
Mr. Motil – Aye
Mr. Parks – Aye
Mr. Plank - Aye

The motion was approved unanimously.

Draft FY 2018 Flood Prevention District Council Budget

Mr. Motil asked Mr. Ewert to present the proposed draft budget.

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

The FY 2018 budget focuses on the completion of all construction needed to achieve FEMA accreditation. Unfortunately, during FY 2017 as in FY 2016, delays were experienced due to high river conditions. The flood event, in April/May of this year, was the sixth highest elevation ever recorded. This event has pushed back the completion of a large clay cap in MESD, the lining of the East St. Louis 126-inch Sewer, and the construction of four remaining relief wells in the Wood River area. This has pushed the accreditation schedule back to December 2018.

We will enter FY 2018, with the ten current construction contract packages being over ninety-six percent complete, and all of them being completed, hopefully, by November 2017.

Three certification reports have been submitted to FEMA to date. Amec Foster Wheeler submitted the Wood River East & West Forks Package in December 2016 and the Prairie Du Pont/Fish Lake Package two weeks ago. They will be submitting the Lower Wood River Package in September, subject to the river receding allowing for the construction of the remaining four relief wells.

The Corps of Engineers submitted the Upper Wood River Package in March and will submit the MESD Package in early 2018. FEMA has indicated that their review will take anywhere from three to twelve months. Since it has been seven months since the first submittal was made last December and Amec Foster Wheeler has indicated FEMA has a backlog of work, he indicated that he expect the reviews to take the full twelve months.

The FEMA accreditation is anticipated to be achieved by the end of 2018.

The construction of the project did not progress as fast as expected in the FY 2017. After completing \$14.5 million of construction FY 2014, \$26.8 million in FY 2015, and \$19.9 million in FY 2016, it appears that approximately \$11.5 million will be completed in FY 2017, leaving a balance of \$1.7 million to be completed in FY 2018. Construction of all of the 100-Year Projects will be completed in FY 2018. Administrative expenditures, which are a relatively small portion of our costs, remain virtually unchanged for the next year.

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

A draft FY 2018 budget is shown in Table 1.

Key assumptions are:

1. All 100-Year Level project construction will be completed by November 30, 2017 and FEMA certification will be achieved by the end of 2018.
2. The level of Council staffing does not change in FY 2018, 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 construction on all projects currently being built or to be built.

5. Sales tax revenue is estimated to increase by 2.00% over the estimated receipts for the current year. Our current increase level thru July of this year is 3.54%. 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 and may in some instances satisfy a small portion of the Work In-Kind requirement.
7. The Council will continue to work with levee districts in establishing funding sources, where and if needed, for the maintenance and operations of the 100-Year Improvements and Authorized Level Improvements being built. More emphasis will be placed on this effort in the coming year since there will be more knowledge of what needs to be built for Authorized Level Improvements.
8. 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. This will probably occur in late FY 2019 or FY 2020
9. The budget has been developed to provide flexibility to coincide with the Corps of Engineers, now utilizing the Risk Informed Process, to determine individual project risk factors, which could change project priorities and design responsibilities between the Corps and Amec Foster Wheeler.

TABLE 1
SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL
PROPOSED BUDGET
OCTOBER 1, 2017 THRU SEPTEMBER 30, 2018

	ACTUAL EXPENDITURES OCTOBER 1, 2015 THRU SEPTEMBER 30, 2016	ADOPTED BUDGET OCTOBER 1, 2016 THRU SEPTEMBER 30, 2017	PROJECTED EXPENDITURES OCTOBER 1, 2016 THRU SEPTEMBER 30, 2017	PROPOSED BUDGET OCTOBER 1, 2017 THRU SEPTEMBER 30, 2018
REVENUES				
Sales Tax Proceeds From Districts	\$ 11,529,755	\$ 11,750,000	\$ 11,679,251	\$ 11,835,000
Interest Income	595,947	640,000	725,059	225,000
Other Contributions	5	-	-	-
Total Revenues	<u>\$ 12,125,707</u>	<u>\$ 12,390,000</u>	<u>\$ 12,404,310</u>	<u>\$ 12,060,000</u>
EXPENDITURES				
Design and Construction				
Engineering Design & Construction Management	4,999,805	9,197,055	5,025,720	5,688,038
Construction	24,396,727	22,840,515	12,512,243	7,330,945
USACE Authorized Level Costs	2,439,618	5,760,115	7,652,000	6,157,291
Total Design and Construction	<u>\$ 31,836,150</u>	<u>\$ 37,797,685</u>	<u>\$ 25,189,963</u>	<u>\$ 19,176,274</u>
Professional Services				
Legal & Legislative Consulting	424,845	458,500	352,682	486,000
Diversity Program Manager	16,155	25,000	-	11,525
Financial Advisor	95,549	65,000	31,420	65,000
Bond Trustee Fee	12,351	12,000	15,000	16,000
Total Professional Services	<u>\$ 548,900</u>	<u>\$ 560,500</u>	<u>\$ 399,102</u>	<u>\$ 578,525</u>
Refund of Surplus Funds to County FPD Accounts				
Total Refund of Surplus Funds to County	<u>\$ 3,355,621</u>	<u>\$ 4,000,000</u>	<u>\$ 2,194,051</u>	<u>\$ 3,000,000</u>
Debt Service				
Principal and Interest	9,483,278	10,725,020	10,725,020	10,798,620
Federal Interest Subsidy	(848,250)	(848,250)	(847,340)	(847,340)
Total Debt Service	<u>\$ 8,635,028</u>	<u>\$ 9,876,770</u>	<u>\$ 9,877,680</u>	<u>\$ 9,951,280</u>
Total Design & Construction Expenses	<u>\$ 44,375,699</u>	<u>\$ 52,234,955</u>	<u>\$ 37,660,796</u>	<u>\$ 32,706,079</u>
General and Administrative Costs				
Salaries, Benefits	194,666	203,000	202,892	203,000
Bank Service Charges	1,348	1,500	1,210	1,500
Annual IL. Lobbyist Registration	358	350	307	350
Equipment and Software	433	2,000	-	2,000
Fiscal Agency Services	28,400	30,000	29,050	31,000
Audit Services	15,000	15,500	15,500	16,000
Meeting Expenses	197	1,000	638	1,000
Postage/Delivery	433	400	990	1,000
Printing/Photocopies	3,442	3,500	3,016	3,500
Professional Services	257	10,000	-	10,000
Publications/Subscriptions	118	250	-	250
Supplies	2,993	3,300	3,115	3,300
Telecommunications/Internet	2,978	3,000	2,230	3,000
Travel	708	5,000	718	5,000
Insurance	942	1,000	485	1,000
Total General & Administrative Costs	<u>\$ 252,273</u>	<u>\$ 279,800</u>	<u>\$ 260,151</u>	<u>\$ 281,900</u>
Total Expenditures	<u>\$ 44,627,972</u>	<u>\$ 52,514,755</u>	<u>\$ 37,920,947</u>	<u>\$ 32,987,979</u>
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES	(32,502,265)	(40,124,755)	(25,516,637)	(20,927,979)
OTHER FINANCING SOURCES				
Proceeds From Borrowing	83,835,000	-	-	-
NET CHANGE IN FUND BALANCE	<u>\$ 51,332,735</u>	<u>\$ (40,124,755)</u>	<u>\$ (25,516,637)</u>	<u>\$ (20,927,979)</u>

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

Table 3 compares expenses to revenues between 7/1/2017 and 9/30/2018. The table illustrates, all 2010 Bond Issue construction funds have been spent, the amount of available 2015 Bond Issue construction funds is \$45,097,276, and total amount of individual County FPD funds is \$29,192,280.

Table 4 illustrates potential Authorized Level funding is approximately \$91.0 million.

These tables and the draft budget illustrate that the Council will meet its goal of achieving FEMA certification with the revenue available from the dedicated FPD sales tax and have sufficient funds available for Authorized Level improvements. Easements, high river stages, and construction delays have push accreditation back the last two years, but the Council is well on the way to achieving accreditation in 2018.

After considering any comments or suggestions over the next month, a final FY 2018 budget will be presented at the August Board meeting for adoption and forwarding to the county boards for their approval.

Table 2
Estimated Project Expenditures 10.1.2017 -9.30.2018

Design & Construction Management	FY 2018
Engineering Design	
<i>W. O. #1 Program Mgmt.</i>	\$200,000
<i>W. O. #3 Preconstruction Activities</i>	\$100,000
<i>W.O. #5 COR Investigation</i>	\$1,000
<i>W. O. #9 Wood River Cutoff Walls</i>	\$5,000
Authorized Level Work Orders	
<i>W.O. #13 Wood River Field & Design BP #8, BP #9, & BP #10</i>	\$300,000
<i>W.O. #14 MESD Field & Design</i>	\$2,100,000
<i>W.O. #16 Prairie Du Pont/Fish Lake Field & Design PH I</i>	\$2,500,000
Construction Management.	
<i>W. O. #8 Construction Management BP #1 - #6 & Amendment #4</i>	\$276,934
<i>W. O. #10 Construction Management BP #7A & #7B</i>	\$15,000
<i>Construction Management BP #8 & BP #14</i>	\$50,000
<i>QC/Materials Testing</i>	\$140,104
TOTAL ENGINEERING DESIGN & CONSTRUCTION MGMT.	\$5,688,038
Construction	
<i>Bid Package #3</i>	\$24,443
<i>Bid Package #4</i>	\$350,005
<i>Bid Package #5</i>	\$1,500,798
<i>Bid Package #5A</i>	\$319,410
<i>Bid Package #7B</i>	\$444,412
<i>Bid Package #8</i>	\$400,000
<i>Bid Package #14</i>	\$400,000
<i>Contingency (10% FPD Construction)</i>	\$343,907
<i>Utilities</i>	\$200,000
<i>Property Acquisition Authorized Level - Wood River</i>	\$500,000
<i>Property Acquisition Authorized Level - East St. Louis</i>	\$500,000
<i>Property Acquisition Authorized Level - Prairie Du Pont/Fish Lake</i>	\$500,000
<i>Wetland Mitigation</i>	\$27,970
<i>HazMat Mitigation</i>	\$1,500,000
<i>Legal</i>	\$320,000
<i>Corps of Engineers Authorized Level Costs</i>	\$6,157,291
TOTAL CONSTRUCTION	\$13,488,236
TOTAL ENGINEERING DESIGN & CONSTRUCTION	\$19,176,274
REFUND OF SURPLUS FUNDS TO COUNTY FPD ACCOUNTS	\$3,000,000

Operations & Financing	
<i>General & Administrative</i>	\$281,900
<i>Debt Service</i>	\$10,798,620
<i>Interest Rate Subsidy</i>	(\$847,340)
Professional Services	
<i>Legal</i>	\$410,000
<i>Legislative</i>	\$76,000
<i>Financial Advisor</i>	\$65,000
<i>Diversity Program Mgr.</i>	\$11,525
<i>Bond Trustee</i>	\$16,000
TOTAL OPERATIONS	\$10,811,705
TOTAL EXPENSES	\$32,987,979

Table 3

Estimated Revenues 7.1.2017 - 9.30.2018

Fund Sources	
<i>Cash on hand (6/30/2017)</i>	\$235,695
<i>2010 Bond Project Funds (6/30/2017)</i>	\$0
<i>2015 Bond Project Funds (6/30/2017)</i>	\$45,097,276
<i>County FPD Tax Bal. (6/30/2017)</i>	\$29,192,280
<i>Sales Tax Revenue (7/1/2017-9/30/2017)</i>	\$2,982,176
<i>Interest Income (7/1/2017-9/30/2017)</i>	\$170,037
<i>Federal Interest Subsidy (September 2017)</i>	\$423,670
<i>Sales Tax Revenue (10/1/2017-9/30/2018)</i>	\$11,835,000
<i>Interest Income (10/1/2017-9/30/2018)</i>	\$225,000
Total Available Funds	\$90,161,134

Estimated Expenditures 7.1.2017 - 9.30.2018

Expenditures	
<i>Engineering Design and Construction Mgmt. (7/1/2017-9/30/2017)</i>	\$1,629,147
<i>Construction (7/1/2017-9/30/2017)</i>	\$4,776,731
<i>Professional Services (7/1/2017-9/30/2017)</i>	\$143,676
<i>General & Administrative (7/1/2017-9/30/2017)</i>	\$62,234
<i>Engineering Design and Construction Mgmt. (10/1/2017-9/30/2018)</i>	\$5,688,038
<i>Construction (10/1/2017-9/30/2018)</i>	\$13,488,236
<i>Professional Services (10/1/2017-9/30/2018)</i>	\$578,525
<i>Refund of Surplus Funds to County FPD Accounts</i>	\$3,000,000
<i>Debt Service (10/1/2017-9/30/2018)</i>	\$9,951,280
<i>General & Administrative (10/1/2017-9/30/2018)</i>	\$281,900
Estimated Expenditures	\$39,599,767

Net Estimated Available Funds on 9/30/2018 \$50,561,367

Table 4

Potential Authorized Level Funding

<i>Design FY2016</i>	\$1,785,889
<i>Design FY 2017</i>	\$3,532,761
<i>Design & CM FY 2018 Budgeted</i>	\$4,950,000
<i>Concrete Pipe Change Orders</i>	\$9,446,022
<i>FPD Construction FY2018 Budgeted</i>	\$4,400,000
<i>Corps of Engineers Funding FY 2016</i>	\$2,439,618
<i>Corps of Engineers Funding FY 2017</i>	\$7,652,000
<i>Corps of Engineers Funding FY 2018 Budgeted</i>	\$6,157,291
<i>Net Available Funds (9/30/2018)</i>	\$50,561,367
Total Potential Authorized Level Funding	\$90,924,948

Mr. Long inquired if there were any funds budgeted for maintenance of the improvements being built. Mr. Etwert explained that the Council is going to work with each of the levee districts regarding the improvements being built within their area, helping them develop alternatives to generate additional funds needed for operation and maintenance. Alternatives could be different for each levee district.

The Council's charge was to build the improvements needed, not operate and maintain. Once the Council builds the needed improvements, all available Council funding will be needed to pay off the Council's bond debt. However, the Council wants to assist the levee districts in developing fund generating alternatives for operation and maintenance. The improvements being built will need to be maintained by the levee districts.

Improvements such as relief wells and pump stations will need to be maintained. Seepage berms will have to have the vegetation cut. The deep and shallow cutoff walls should be low maintenance items.

He indicated that Amec Foster Wheeler would be bringing a Work Order regarding this effort to the Council in August, and in addition there are funds in the budget for Husch Blackwell to assist the levee districts. The Council wants to work with each levee district to determine how they generate their funds, the level of maintenance they provide, and the additional funding needed to maintain the 100-Year improvements that have been built and 500-Year improvements that will be built.

Mr. Motil expressed the possibility that funds could be utilized for pumping and not relief wells which could cause a problem twenty years down the road.

Mr. Etwert felt that the levee districts would do their best to maintain the improvements that the Council builds, and that there would be continued oversight by the Corps of Engineers on the levee systems.

Mr. Motil thanked Mr. Etwert for the report and indicated that this was a draft budget. Mr. Motil asked for a motion to accept Mr. Etwert's report on the Draft FY 2018 Flood Prevention District Council Budget. A motion was made by Mr. Bergkoetter, with a second by Mr. Parks to accept Mr. Etwert's report on the Draft FY 2018 Flood Prevention District Council Budget. Mr. Parks indicated that he thought the budget was on point and in the right direction. Mr. Etwert confirmed that it follows the goals of the Council to first achieve 100-Year Level Protection and then 500-Year Level Protection. 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 - Aye

Dr. Moore – Aye
 Mr. Motil – Aye
 Mr. Parks – Aye
 Mr. Plank - Aye

The motion was approved.

Change Orders – BP #2B & BP #4

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

Mr. Cook explained 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. He then explained the following two change orders for BP #2B and BP #4 (a credit).

Bid Package 2B – Repair Vandalism Damage to Grounding System - \$1,200.00

The Site 12 Pump Station (G.C.D.E. #1X) was deemed substantially complete in March of 2015. In April of 2017, the HDPE pipe was upgraded to RCP pipe. During construction, the existing concrete vault, pumps, controls, fencing, and associated components were protected and not damaged. In a joint inspection with MESD staff in June of 2017, it was noted that the grounding system connections to the existing fence were damaged. Vandalism is suspected due to the nature and locations of the cut wires. The grounding system is an integral component to the pump station design that prevents electric shock and mitigates over-voltages that can damage equipment and should be repaired immediately.

Bid Package 04 – RCP Balancing Quantities – (\$75,949.65)

During the initial bidding of the pipe replacement change order, the contractor over-bid the quantities of 12”, 18”, and 24” reinforced concrete pipe. Per the specifications, the contractor is only paid for the linear feet of installed pipe in the accepted work. This change order balances the quantity from as-bid to as-built.

Item NO.	Description	QTY Deduct	Unit	Unit Price	Total Price
17.6	12” RCP	-109	LF	\$437.30	(\$47,665.70)
17.7	18” RCP	-19	LF	\$398.25	(\$7,566.75)
17.8	24” RCP	-49	LF	\$422.80	(\$20,717.20)
Total Deductive Change Order					(\$75,949.65)

Dr. Moore inquired if anything was being done to secure the facilities to prevent future vandalism. Mr. Cook wasn't sure if anything else could be done in this particular instance, since there were two fences around the facility and what was cut was on one of the fences. Mr. Parks asked the location of the facility, to which, Mr. Cook responded Granite City near the treatment plants and the Granite City port.

Mr. Motil asked for a motion to approve the requested change orders for Bid Package 2B – Repair Vandalism Damage to Grounding System in the amount of \$1,200.00 with Korte & Luitjohan, and Bid Package 4 – RCP Balancing Quantities credit in the amount of \$75,949.65 with Haier Plumbing for a total credit of \$74,749.65.

Simultaneously, several Board members made the motion and the second. It was determined that the motion was made by Mr. Long, with a second by Mr. Polka to approve the requested change orders, as recommended by the Chief Supervisor, for Bid Package 2B – Repair Vandalism Damage to Grounding System in the amount of \$1,200.00 with Korte & Luitjohan, and Bid Package 4 – RCP Balancing Quantities credit in the amount of \$75,949.65 with Haier Plumbing for a total credit of \$74,749.65. There was a brief discussion regarding the speed that a motion is made on a credit versus a multimillion dollar cost. It was noted, Mr. Long pointed out the credit.

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 – Aye
Dr. Moore – Aye
Mr. Motil – Aye
Mr. Parks – Aye
Mr. Plank - Aye

The motion was approved unanimously.

The following pending change orders were also provided to the Board.

Pending Change Orders:

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 7B – Relief Well 1038D Abandonment

A change order may be necessary to abandon a failed relief well installation.

Corps of Engineers Update

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

Ms. Kelsey provided an update of the current activities of the Corps using a PowerPoint® presentation to illustrate her remarks. Her presentation focused on the status of the Metro East Projects as follows:

USACE UPDATE

Project Status

- Wood River
 - Upper Shallow Cutoff Wall (with Construction Photos)
 - Substantial construction is complete – working on punch list items
 - Contract closeout is underway
 - Lower Deep Cutoff Wall Phase 2
 - Solicitation issued July 12, base bid plus option
 - Pre-bid site visit July 25
 - Bids due August 11
 - Contract Award September 30
 - Risk Assessment – on schedule

- Probable Failure Mode Analysis (PFMA) – on schedule, nearing completion
 - Expert Opinion Elicitation (EOE) Session 1 took place July 10-14, with Session 2 scheduled for August
- Requesting reprogramming of FY17 Work Plan Funds
- Mel Price
 - FY18 relief well construction contract pending reprogrammed funds
 - Supplemental report approval August 11
- East St. Louis
 - FY18 relief well construction contract pending reprogrammed funds
 - Re-analysis complete – initiating District Quality Control (DQC) review and Agency Technical Review (ATR)
 - Updated Total Project Costs certified September 30
- Prairie du Pont/Fish Lake
 - Re-analysis complete
 - Total project cost update in progress
 - Entering into agreement with FPD to expedite 408 review
 - Potential to use risk informed design

- Cost Share Funds
 - Wood River – required cost share was provided for Phase 2, deep cutoff wall base bid. Additional cost share is required to construct option
 - East St. Louis – If reprogrammed funds are provided, additional cost share will be required to construct relief wells
 - Work In Kind (WIK)
 - ESTL – Anticipate approval March 2018
 - WR – Anticipate approval September 2019

There was a brief discussion regarding the amount of cost share that the Corps of Engineers would be requesting. Ms. Kelsey indicated the Corps would be looking for the normal 35% non-federal cost share amount. She indicated that the Corps had anticipated and requested about \$5.4 million earlier in the year for East St. Louis, however, when no funds were allocated, the Corps reduced its request to \$1.297 million. Therefore, if the reallocation occurs, the Corps would be requesting something in the \$4.0 million dollar range.

Mr. Parks left at the end of Ms. Kelsey's report.

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

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

The motion was approved unanimously.

Public Comment

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

Other Business

There was no other business.

Adjournment

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

Respectfully submitted,

John Conrad,
Secretary/Treasurer, Board of Directors

United States Senate
Washington, DC 20510-1304

July 18, 2017

Lieutenant General Todd Semonite
Chief of Engineers
U.S. Army Corps of Engineers
441 G Street NW
Washington, DC 20314-1000

Mr. Doug Lamont
Senior Official Performing the Duties of
The Assistant Secretary of the Army (Civil Works)
108 Army Pentagon
Washington, DC 20310-0108

Dear Lieutenant General Semonite and Deputy Assistant Secretary Doug LaMont,

I write to express concerns with the current allocation of funds for the Metro East Levee System within the Army Corps of Engineers' (Corps) Fiscal Year (FY) 2017 Work Plan. The current work plan allocates more funds than can be used for the Wood River Levee System and fails to provide any funds for the Metro East Sanitary District System. Both of these systems provide important flood protection for the Metro East region, and I encourage the reprogramming of funds to ensure both projects move forward this year.

Despite requesting and receiving funding from the Southwestern Illinois Flood Prevention District Council this year to satisfy the Corps' thirty-five percent local cost share requirements for both the Wood River Levee System and the East St. Louis/Metro East Sanitary District System, the Corps did not include any federal funding for the Metro East Sanitary District System in their FY2017 Work Plan. FY2017 funding for the Metro East project is needed to move the project forward and provide flood protection for 250,000 residents and \$4.5 billion in property and critical infrastructure.

Recently, the Corps identified that the Wood River Levee System project would exceed more than 20% of what was initially identified for the improvements. As a result, the Corps requires new decision documents for the project, including a Risk Assessment and a Supplemental Report, which are estimated to take twenty-four months to be completed. Until these documents are completed, the Corps can only complete work on the second phase of the Wood River Deep Cutoff Wall, resulting in half of the FY2017 Work Plan funds for the Wood River Levee System being unutilized for almost two years.

Given this, I request the Corps reprogram half of the Wood River Levee System's \$31.7 million in FY17 Work Plan funds to be used in the East St. Louis area for the Metro East Sanitary District System, allowing both projects to move forward this year towards their authorized level of protection.

Thank you for your consideration of this important request.

Sincerely,

A handwritten signature in blue ink that reads "Dick Durbin". The signature is written in a cursive style with a long, sweeping underline.

Richard J. Durbin
United States Senator



Progress Report July 19, 2017

Southwestern Illinois Levee Systems

By Jay Martin



Construction Status



- ▶ Residual flooding from the high river event last month restricted work on all bid packages this month

- ▶ Bid Package 2B – WR/MESD/PdP Pump Stations
 - ▶ Substantial Completion Inspection held on 13 July
 - ▶ Work that remains to be completed:
 - ▶ Punch List

- ▶ Bid Package 3 – Wood River Seepage Improvements
 - ▶ Work that remains to be completed:
 - ▶ Abandonment of 6 relief wells



Construction Status

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

- ▶ Work that remains to be completed:
 - ▶ 8 New Piezometers
 - ▶ Abandonment of 4 Piezometers
 - ▶ Finish Grading & Turf Establishment
 - ▶ Punch List

▶ Bid Package 5 – MESD Seepage Improvements

- ▶ Substantial Completion Inspection held on 30 June
- ▶ Work that remains to be completed:
 - ▶ Clay Cap – Started!
 - ▶ Punch List



Construction Status

▶ Bid Package 5A – East St. Louis Sewer

- ▶ The contractor will mobilize as river levels allow to complete the East St. Louis sewer liner.

▶ Bid Package 7B – Wood River Lower (Deep) Cut-off Wall

- ▶ Work that remains to be completed:
 - ▶ Installation of 4 relief wells
 - ▶ Final grading around relief wells

Bid Package 5 - Clay Cap Earthwork



5

Bid Package 5 – Keyway excavation



6



Cost to Complete Remaining Work

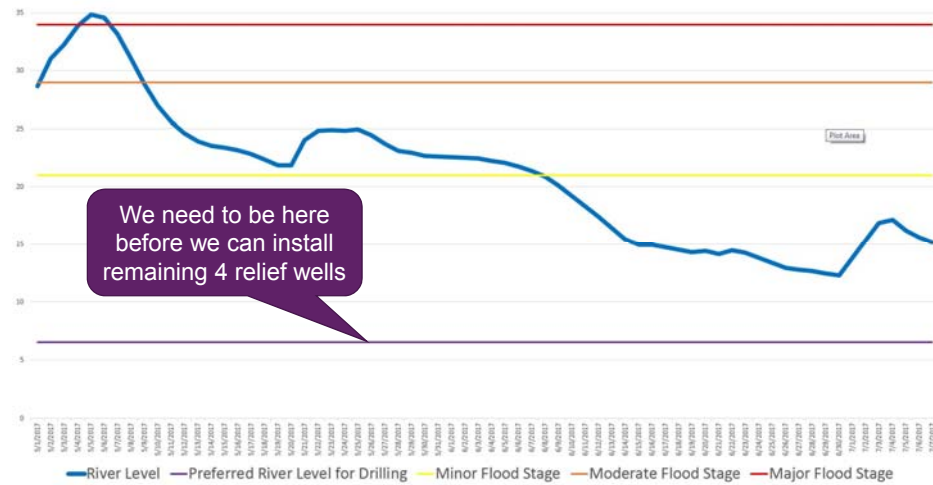
- ▶ **Bid Package 2B – WR/MESD/PdP Pump Stations**
 - ▶ Pump Station Sites: 05, 10, 12, 16 = **\$4,406**
- ▶ **Bid Package 3 – Wood River Seepage Improvements**
 - ▶ RW Abandonments = **\$17,304**
- ▶ **Bid Package 4 – MESD Seepage Improvements (Conoco Phillips)**
 - ▶ RCP Replacement = **\$15,080**
 - ▶ Base Scope (PZ's & Site Restoration) = **\$81,986**
- ▶ **Bid Package 5 – MESD Seepage Improvements**
 - ▶ Base Scope (Clay Cap & Site Restoration) = **\$2,029,887**
- ▶ **Bid Package 5A – East St. Louis Sewer Liner**
 - ▶ ESTL Sewer Liner = **\$499,355**
- ▶ **Bid Package 7B – Wood River Lower (Deep) Cut-off Wall**
 - ▶ Relief Wells & Site Restoration = **\$430,228**



Recent River Levels (Bid Package 5A)



Recent River Levels (Bid Package 7B)



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FEMA Certification Update



- ▶ Upper Wood River (Madison County FEMA Flood Insurance Rate Maps)
 - ▶ Submitted (by USACE March, 2017)

- ▶ Wood River East & West Forks (Madison County FEMA Flood Insurance Rate Maps)
 - ▶ Submitted (December, 2016)
 - ▶ FEMA is backlogged and has not started review yet
 - ▶ No indication of when review will begin

- ▶ Lower Wood River (Madison County FEMA Flood Insurance Rate Maps)
 - ▶ Awaiting completion of 4 relief wells in bid package 7B
 - ▶ Efforts are underway preparing the package

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FEMA Certification Update

- ▶ **MESD (Madison & St. Clair Counties FEMA Flood Insurance Rate Maps)**
 - ▶ Pending completion of Bid Packages 2B, 4, 5, & 5A
 - ▶ Construction Completion 3rd Quarter 2017
 - ▶ Submit required documents to USACE by Dec 31, 2017

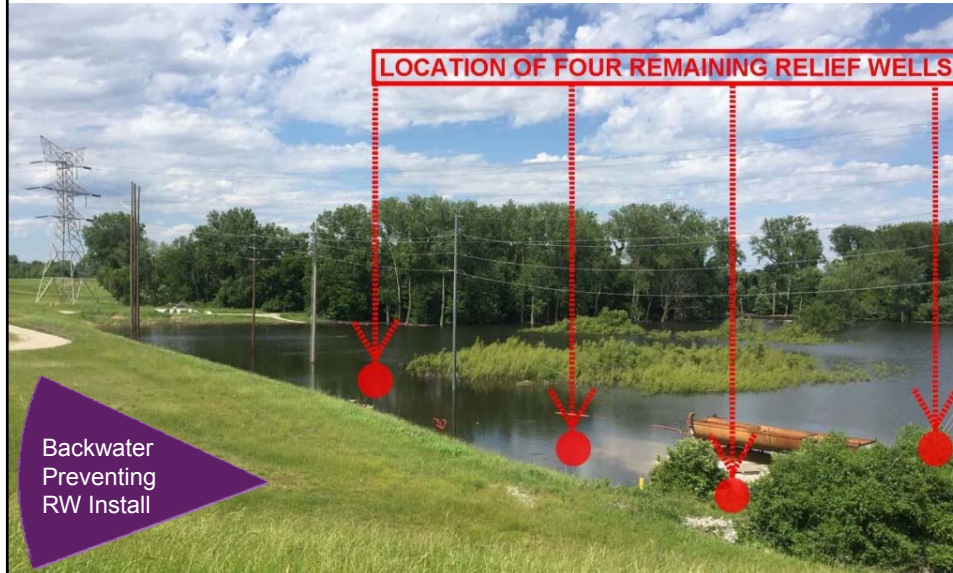
- ▶ **Prairie du Pont & Fish Lake (St. Clair & Monroe Counties FEMA Flood Insurance Rate Maps)**
 - ▶ Submitted to FEMA on July 6, 2017
 - ▶ Based on stated backlog, we don't expect any comments until 2018



FEMA Certification Summary by Levee/County

Levee System	County/Flood Maps	Certification	Proposed
Upper Wood River	Madison	Submitted	
East/West Forks	Madison	Submitted	
Lower Wood River	Madison	7B – relief wells	September 2017
Metro East Sanitary District (MESD)	Madison/St Clair	2B, 4, 5, & 5A (Clay cap & Sewer Rehab)	To the USACE in December 2017
Prairie du Pont & Fish Lake (PdP/FL)	St Clair/Monroe	Submitted	

Bid Package 7B – Wood River



Bid Package 7B – Status



- ▶ The 4 remaining wells are holding up certification to FEMA
- ▶ Certification submittal to FEMA is scheduled for end of Q3 2017
- ▶ Concern that these 4 relief wells won't be complete in Q3



Bid Package 7B – Options Going Forward

► Options:

► **Current Path:**

- Wait for groundwater / river to recede
- FEMA certification may not be submitted at end of Q3
- Wood River FEMA certification affects only Madison County flood insurance maps
- Madison County maps require both WR certification & MESD LSER
- MESD LSER scheduled to be submitted early 2018 to FEMA
 - Pending completion of clay cap.

► **Alternate:**

- We work with Contractor and USACE to develop solutions to install these last 4 relief wells while groundwater is high (i.e. dewatering, work pads, etc.)
- Solutions will cost money (i.e. change order)
- Solution (change order) approved by the board with a date to execute if water has not receded.

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Authorized Level (500-Year) Design

Wood River (Bid Packages 8, 9 and 10)

- Bid Package 8 design is underway
 - 27 Relief Wells & 1 Pump Station
 - USACE required Value Engineering Study is underway this week
 - Remaining borings are being completed this week
- LWR Risk Assessment & Supplemental Report (2 year duration)
 - Required because USACE Total Project Cost increased by more than 20%
 - Started in December 2016
 - Potential Failure Mode Analysis (PFMA) meeting was May 1-5, 2017
 - Expert Opinion Elicitation (EOE) Meeting #1 was last week (July 10-14)
 - EOE Meeting #2 scheduled for August 14-18, 2017
- Bid Packages 9 & 10 on hold pending USACE Risk Assessment & Supplemental Report

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Authorized Level (500-Year) Design

MESD (Bid Packages 11, 12, 13 and 14)

- ▶ Bid Package 11
 - ▶ Relief Wells
 - ▶ On Hold, pending USACE risk informed solution
- ▶ Bid Package 12/13
 - ▶ Relief Wells and 1 Pump Station
 - ▶ On Hold, pending USACE risk informed solution
- ▶ Bid Package 14
 - ▶ USACE required Value Engineering Study has been completed
 - ▶ Finishing up design of the package
 - ▶ Package will be “on the shelf” pending USACE risk informed solution
- ▶ MESD Deep Cutoff Wall
 - ▶ Pros & Cons of FPD Council vs. USACE design
 - ▶ Options to bid the project increase with FPD Council doing the design

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Authorized Level (500-Year) Design

Prairie Du Pont & Fish Lake (Bid Package 15)

- ▶ Phase I of II
 - ▶ 51 seepage berm reaches, 38 relief wells
 - ▶ Drilling restarted mid June after flood delay, completed in early July
 - ▶ Topographic survey is underway
- ▶ Phase II of II
 - ▶ 23 additional seepage berm reaches, 122 additional relief wells
 - ▶ Received solutions on July 7
 - ▶ Preparing an updated Authorized Level Report for August board meeting
- ▶ Section 214 Agreement
 - ▶ For USACE review of PDP/FL designs as part of Section 408 review
 - ▶ FPD Comments to 214 agreement are being complied
 - ▶ Public comment period
 - ▶ Execution at USACE District level

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Questions?



Metro East Projects, IL

Project Status

- Wood River
 - Upper Shallow Cutoff Wall
 - ▶ Substantial construction is complete – working on punch list items
 - ▶ Contract closeout is underway



Metro East Projects, IL

Project Status

- Wood River
 - Lower Deep Cutoff Wall Phase 2
 - ▶ Solicitation issued July 12, base bid plus option
 - ▶ Pre-bid site visit July 25
 - ▶ Bids due August 11
 - ▶ Contract Award September 30
 - Risk Assessment - on schedule
 - ▶ Probable Failure Mode Analysis (PFMA) – on schedule, nearing completion
 - ▶ Expert Opinion Elicitation (EOE) Session 1 took place July 10-14
 - Requesting reprogramming of FY17 Work Plan Funds

- Mel Price
 - FY18 relief well construction contract pending reprogrammed funds
 - Supplemental report approval August 11



Metro East Projects, IL

Project Status

- East St. Louis
 - FY18 relief well construction contract pending reprogrammed funds
 - Re-analysis complete – initiating District Quality Control (DQC) review and Agency Technical Review (ATR)
 - Updated Total Project Costs certified September 30

- Prairie du Pont/Fish Lake
 - Re-analysis complete
 - Total project cost update in progress
 - Entering into agreement with FPD to expedite 408 review
 - Potential to use risk informed design



Metro East Projects, IL

Project Status

- Cost Share Funds
 - Wood River - required cost share was provided for Phase 2, deep cutoff wall base bid. Additional cost share is required to construct option
 - East St. Louis – If reprogrammed funds are provided, additional cost share will be required to construction relief wells
 - Work In Kind (WIK)
 - ▶ ESTL - Anticipate approval March 2018
 - ▶ WR - Anticipate approval September 2019





Memo to: Board of Directors
From: Chuck Etwert
Subject: Program Status Report for August 2017
Date: August 14, 2017

Approximately 96.1% of the \$74.3 million of construction, involved in all ten current construction bid packages, has been completed thru July. The amount of work completed during the month was only \$151,160. The total amount of construction completed is \$71.4 million. There is just under 3.0 million dollars' worth of 100-Year accreditation construction remaining to be completed.

The river is finally receding to an elevation where contractors are able to work. The current river elevation is just under 9.0 today and is predicted to continue to recede for the next two weeks. Major items still needing to be completed are the East St. Louis 126 Inch Sewer Rehabilitation, the MESD clay cap (where construction has begun), and the four remaining relief wells in the Wood River area.

There has been no update on the Council/Corps' request for the reallocation of a portion of the FY 2017 Work Plan funds from the Wood River area to the East St. Louis area. The reallocation process, if successful, would be at the end of the year.

With the Corps of Engineers utilizing a Risk Informed Design Process in all areas, Amec Foster Wheeler has evaluated if waiting for a Risk Assessment and Supplemental Report in the Prairies Du Pont/Fish Lake Levee System would be beneficial. Reviewing the risk factors used for the Phase I solutions, it is doubtful there would be a reduction in costs and noted that the Risk Assessment and Supplemental Report process would delay the installation of flood protection features in the area protected by the Prairie Du Pont/Fish Lake Levee System. Therefore, Amec Foster Wheeler will continue to move forward with the solutions, currently identified by the Corps, using the current Factor of Safety design method.

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



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

Monthly Project Progress Report August 2017

AMEC FOSTER WHEELER Project No. 563170001
Period Ending Date: August 7, 2017

Date of Issue: August 11, 2017

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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 5A is composed of the rehabilitation of approximately 245 linear feet of 126-inch round concrete sewer and the replacement of two sluice gates.

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
Engineer of Record (Civil)	Randy Cook Jr., PE, 636.200.5125 randy.cook@amecfw.com
Engineer of Record (Geotechnical)	Jo C. Tucker, PE, 502.442.4317 jo.tucker@amecfw.com
Resident Project Representative	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 continue to conduct weekly toolbox safety talks.		
Security		
Nothing to report this month		
Environment (SWPPP)		
Forms submitted as required		
River Stage Restrictions		
The USACE 408 permit dictates that excavations shall cease when the Mississippi River Stage is:		
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
5A	12.0	391.94
6	25.0	404.94
7A	21.52	417.0 (Mel Price)
7B	21.52	417.0 (Mel Price)

3. PROJECT STATUS UPDATE

3.1 Bid Package 2A

3.1.1 Calendar

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

3.1.2 Progress

- Complete

3.1.3 Property Acquisition

- Complete

3.1.4 Levee Board Considerations

- Complete

3.1.5 Submittals

- Complete

3.1.6 Change Orders

- Complete

3.1.7 QC/QA Activities

- Complete

3.1.8 Considerations

- Complete

3.1.9 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	Extend completion date beyond 12/31/16 with no set date. Time extension for Site 10 and 12 contingent upon Keller Construction completing their work first and allowing K&L at least 15 working days (M-F) per site to complete pipe replacement per Change Order 11 of Bid Package 2B. This is also contingent upon weather delays and river levels above 10 feet.
Final Walk Through	
Final Acceptance	

3.2.2 Progress

- All Sites Substantially Complete
- Punch List work ongoing as weather and river levels allow

3.2.3 Property Acquisition

- None

3.2.4 Levee Board Considerations

- None

3.2.5 Submittals

- Complete

3.2.6 Change Orders

- None

3.2.7 QC/QA Activities

- None

3.2.8 Considerations

- None

3.2.9 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	September 16, 2016

3.3.2 Progress

- Complete

3.3.3 Property Acquisition

- Complete

3.3.4 Levee Board Considerations

- Complete

3.3.5 Submittals

- Complete

3.3.6 Change Orders

- Complete

3.3.7 QC/QA Activities

- Complete

3.3.8 Payment Progress

- Complete

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 (final completion dependent on the BP 7B RW installation).• Hawthorne Manhole Change Order – February 28, 2017
Final Walk Through	October 6, 2016 (Final inspection excluded RW ABD)
Final Acceptance	

3.4.2 Progress

- Project is Substantially Complete
- Work that remains to be completed:
 - Abandonment of 6 Relief Wells

3.4.3 Property Acquisition

- Complete

3.4.4 Levee Board Considerations

- Complete

3.4.5 Submittals

- Complete

3.4.6 Change Orders

- Complete

3.4.7 QC/QA Activities

- Complete

3.4.8 Considerations

- Complete

3.4.9 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 21, 2017
Final Walk Through	
Final Acceptance	

3.5.2 Progress

- Pipe Replacement work is Substantially Complete
- Work that remains to be completed:
 - Installation of 8 new Piezometers – In Progress
 - Abandonment of 4 existing Piezometers
 - Finish Grading & Turf Establishment - Ongoing
 - Punch List - Ongoing

3.5.3 Property Acquisition

- Complete.

3.5.4 Levee Board Considerations

- None

3.5.5 Submittals

- Complete

3.5.6 Change Orders

- Complete

3.5.7 QC/QA Activities

- None

3.5.8 Considerations

- None

3.5.9 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	November 15, 2017
Final Walk Through	
Final Acceptance	

3.6.2 Progress

- Pipe Replacement work is Substantially Complete
- Work that remains to be completed:
 - Punch List
 - Clay Cap – In progress. 20% Complete

3.6.3 Property Acquisition

- Complete

3.6.4 Levee Board Considerations

- None.

3.6.5 Submittals

- Complete

3.6.6 Change Orders

- Complete

3.6.7 QC/QA Activities

- Ongoing

3.6.8 Considerations

- None

3.6.9 Payment Progress

- See Contract Invoice Log attached.

3.7 Bid Package 5A

3.7.1 Calendar

Bid Date:	November 08, 2016
Contract executed	December 08, 2016
Schedule received	January 09, 2017
Anticipated start of field activities	February 20, 2017
Start of field activities	March 21, 2017
Contract completion date	October 5, 2017
Final Walk Through	
Final Acceptance	

3.7.2 Progress

- The contractor mobilized 08 August.
- Bypass pumping and cleaning of the 126" host pipe ongoing.

3.7.3 Property Acquisition

- None

3.7.4 Levee Board Considerations

- None

3.7.5 Submittals

- Submittal process on-going

3.7.6 Change Orders

- None

3.7.7 QC/QA Activities

- None

3.7.8 Considerations

- None

3.7.9 Payment Progress

- None

3.8 Bid Package 6

3.8.1 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;</i> <i>Final completion: September 6, 2016</i>
Final Walk Through	September 6, 2016
Final Acceptance	July 24, 2017

3.8.2 Progress

- Complete

3.8.3 Property Acquisition

- Complete

3.8.4 Levee Board Considerations

- Complete

3.8.5 Submittals

- Complete

3.8.6 Change Orders

- Complete

3.8.7 QC/QA Activities

- Complete

3.8.8 Considerations

- Complete

3.8.9 Payment Progress

- Complete

3.9 Bid Package 7A

3.9.1 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.

3.9.2 Progress

- Complete

3.9.3 Property Acquisition

- Complete

3.9.4 Levee Board Considerations

- Complete

3.9.5 Submittals

- Complete

3.9.6 Change Orders

- Complete

3.9.7 QC/QA Activities

- Complete

3.9.8 Considerations

- None.

3.9.9 Payment Progress

- Complete

3.10 Bid Package 7B

3.10.1 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	9/20/16 Final Inspection (with exception of Relief Well work)
Final Acceptance	

3.10.2 Progress

- Project is Substantially Complete with the exception of relief well work.
- Work that remains to be completed:
 - Installation of 4 relief wells.
 - Final grading around relief wells.

3.10.3 Property Acquisition

- Complete

3.10.4 Levee Board Considerations

- None

3.10.5 Submittals

- Complete

3.10.6 Change Orders

- Complete

3.10.7 QC/QA Activities

- Complete

3.10.8 Considerations

- None.

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

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

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
22	11/30/2016	12/13/2016	\$4,861,410.92	\$50,198.81	\$4,809,450.92	\$397,100.00	12/23/2016	\$536,060.00
23	12/31/2016	1/6/2017	\$4,954,638.29	\$56,186.37	\$4,898,451.92	\$89,001.00	1/19/2017	\$447,059.00
24	1/31/2017	2/3/2017	\$5,102,796.18	\$63,594.26	\$5,039,201.92	\$140,750.00	2/15/2017	\$306,309.00
25	2/28/2017	3/6/2017	\$5,182,817.24	\$67,595.32	\$5,115,221.92	\$76,020.00	3/14/2017	\$230,289.00
26	3/31/2017	4/10/2017	\$5,330,650.92	\$74,987.00	\$5,255,663.92	\$140,442.00	4/19/2017	\$89,847.00
27	4/30/2017	5/8/2017	\$5,341,104.94	\$65,509.02	\$5,275,595.92	\$19,932.00	5/15/2017	\$69,915.00

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
13	Time Extension	Other	\$0.00	\$0.00	NA	NA	0.00%	0.00%	8/25/2016	Approved	Extend completion date to 12/31/16 for Contract 2B. Time extension for Site 10, 12 and 16 is contingent upon Keller Construction completing their work first and allowing K&L at least 15 working days (M-F) per site to complete pipe replacement per Change Order 11 of Bid Package 2B. This is also contingent upon weather delays and river levels above 10 feet.

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
14	Time extension completion date beyond 12/31/16 with no set date.	Other	\$0.00	\$0.00	NA	NA	0.00%	0.00%	11/28/2016	Approved	Time extension for Site 10 and 12 contingent upon Keller Construction completing their work first and allowing K&L at least 15 working days (M-F) per site to complete pipe replacement per Change Order 11 of Bid Package 2B. This is also contingent upon weather delays and river levels above 10 feet.
15	Site 12 Pump Station Repair Vandalism Damage to Grounding System	Other	\$1,200.00	\$0.00	NA	NA	0.00%	0.00%	7/19/2017	Approved	Site 12 Pump Station Repair Vandalism Damage to Grounding System
	Total of Project Change Orders		\$1,472,735.92	\$8,570.00						Total	1,481,305.92
	Original Contract Amount	Revised Contract Amount									
	\$3,865,405.00	5,346,710.92									
			% Change from Original Amount 38.32%								

Approved

*Board approval required

TITLE: CONSTRUCTION CHANGE ORDER LOG

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

PROJECT NUMBER: SIFPDC-BP2C

Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments
1	Flood Damages	Other	\$3,390.00	\$0.00	NA	NA	NA	1.20%	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			\$281,632.00								
Revised Contract Amount			311,692.00								
				% Change from Original Amount							
					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
Change Order 36	\$ 12,140.80	Additional Grading Work - Losch Farm
Change Order 37	\$ (7,776.02)	Credit Balancing Quantities Pilot Holes, PZ, 12in CMP
Change Order 38	\$ 88,962.12	Random Fill #2 Ditch; Losch Pond Ditch Imported Clay
Change Order 39	\$ (61,266.50)	Balancing Quantities; HDPE Pipe – 12 Inch; Relief Well - Abandonment
Total Change Order Amount:	\$2,840,558.94	
Total Revised Contract Amount:	\$12,922,903.94	

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

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 (\$)
20	11/30/2015	12/28/2015	\$8,778,734.65	\$489,987.55	\$8,288,747.10	\$359,760.54	12/31/2016	\$3,928,685.20
21	12/31/2015	1/11/2016	\$8,888,544.52	\$498,712.65	\$8,389,831.87	\$101,084.77	1/20/2016	\$3,827,600.43
22	1/31/2016	2/8/2016	\$9,002,576.95	\$508,695.88	\$8,493,881.07	\$104,049.20	2/17/2016	\$3,723,551.23
23	2/29/2016	3/10/2016	\$9,690,470.24	\$502,088.79	\$9,188,381.45	\$694,500.38	3/17/2016	\$3,132,875.61
24	3/31/2016	4/14/2016	\$10,753,362.39	\$554,699.89	\$10,198,662.50	\$1,010,281.05	4/20/2016	\$2,719,390.49
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	9/20/2016	\$918,318.69
30	9/30/2016	10/6/2016	\$12,624,277.76	\$631,213.87	\$11,993,063.89	\$20,539.04	10/11/2016	\$909,920.45
31	10/31/2016	11/9/2016	\$12,644,262.82	\$19,191.40	\$12,625,071.42	\$632,007.53	11/16/2016	\$270,136.90
32	1/31/2017	2/1/2017	\$12,674,950.86	\$21,653.16	\$12,653,297.70	\$28,226.28	2/15/2017	\$330,872.74
33	2/28/2017	3/3/2017	\$12,899,373.38	\$31,766.18	\$12,867,607.20	\$214,309.50	3/14/2017	\$116,563.24
34	2/28/2017	3/3/2017	\$12,899,373.38	\$10,911.97	\$12,888,461.41	\$20,854.21	6/14/2017	\$34,442.53
35	6/30/2017	7/7/2017	\$12,905,599.94	\$11,223.30	\$12,894,376.64	\$5,915.23	7/19/2017	\$28,527.30

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	3.04 3.06 3.07 3.02	\$ 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	3.09 3.16 3.23 3.25			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	\$ 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
17*	Relief Well Construction	Other	\$257,694.47	\$0.00	3.38 3.39	\$ 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 3.39	\$ 3,507,071.90	0.45%	0.15%	10/22/2015	Approved	Relief Well 1016, 1064, 1065 Modifications
20*	Relief Well Construction	Other	\$111,256.88	\$0.00	3.38 3.39	\$ 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	Other	\$108,620.79	\$0.00	3.38 3.39	\$ 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

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
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 3.31	\$ 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 3.39	\$ 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 3.39	\$ 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 3.24 3.25 3.28	\$ 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 3.39	\$ 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 3.39	\$ 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 Extension to 12/31/16 for weather/river delay & Hawthorne Manhole time extension to 2/28/17
36*	Additional Grading Work - Losch Farm	Field	\$ 12,140.80	\$0.00	NA	NA	NA	0.12%	9/21/2016	Approved	Additional Grading Work - Losch Farm
37	Credit Balancing Quantities Pilot Holes, PZ, 12in CMP	Other	\$ (7,776.02)	\$0.00	NA	NA	NA	-0.08%	10/26/2016	Approved	Credit Balancing Quantities Pilot Holes, PZ, 12in CMP
38	Random Fill #2 Ditch; Losch Pond Ditch Imported Clay	Other	\$ 88,962.12	\$0.00	3.34	\$ 295,589.25	30.10%	0.88%	1/18/2017	Approved	Random Fill #2 Ditch; Losch Pond Ditch Imported Clay
39	Balancing Quantities	Other	\$ (61,266.50)	\$0.00	3.23 3.36	\$ 267,432.00	-22.91%	-0.61%	4/19/2017	Approved	Balancing Quantities; HDPE Pipe - 12 Inch; Relief Well - Abandonment
Total											\$ 2,840,558.94

Total of Project Change Orders \$2,840,558.94 **\$0.00**
Original Contract Amount \$10,082,345.00
Revised Contract Amount 12,922,903.94
% Change from Original Amount 28.17%

*Board approval required

CONTRACT INVOICE LOG

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

Project: SWILCD
Construction Package: BP04

Original Contract Amount:	\$3,190,232.45	
Change Order #1:	\$8,196.30	Flyght Pump & Locking Sewer Lids per MESD
Change Order #2:	\$949.90	Fence Polycarbonate
Change Order #3:	\$10,488.00	Fence Grounding per Ameren
Change Order #4:	\$1,533.00	2 Additional Posts in Concrete per Phillips 66 Request
Change Order #5:	\$2,127.35	Time and material for new fence grounding
Change Order #6:	\$2,402.40	Per MESD Request
Change Order #7:	\$0.00	Contract Time Extension
Change Order #8:	\$1,656.00	2" Well Point SS Pipe
Change Order #9:	\$54,680.20	Site 9 Electrical Changes
Change Order #10:	\$35,602.21	Work Stoppage due to Soil Testing
Change Order #11:	\$80,046.18	Relief Well Construction Obstruction due to Cobble
Change Order #12:	\$0.00	Contract Time Extension to June 30, 2015
Change Order #13:	\$8,981.67	Relief Well 141XB Re-Design
Change Order #14:	\$948.75	Offset Oufall Line of RW 153X
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
Change Order #21:	\$108,620.00	Clay Cap Bridge; Contract Time Extension to 3/31/17
Change Order #22:	-\$10,656.00	Relief Well Floor Drains and Casing Pipe Supports Credit
Change Order #23:	-\$2,400.00	Credit PZ Abandonments & Time Extension to 7/31/17
Change Order #24:	\$11,235.00	Relief Well Conversions Concrete Seals; Conduit Replacement
Change Order #25:	\$0.00	Contract Time Extension to September 21, 2017 due to high river
Change Order #26:	-\$75,949.65	Credit RCP Balancing Quantities
Total Change Order Amount:	\$3,208,601.95	
Total Revised Contract Amount:	\$6,398,834.40	

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
17	11/4/2016	11/8/2016	\$3,397,154.76	\$174,192.74	\$3,222,962.02	\$248,184.50	11/16/2016	\$3,253,643.03
18	12/2/2016	12/7/2016	\$3,427,154.76	\$177,192.74	\$3,249,962.02	\$27,000.00	12/12/2016	\$3,226,643.03
19	1/6/2017	1/10/2017	\$3,640,688.76	\$195,800.64	\$3,444,888.12	\$194,926.10	1/12/2017	\$3,031,716.93
20	2/3/2017	2/7/2017	\$3,945,234.71	\$206,565.74	\$3,738,668.97	\$293,780.85	2/7/2017	\$2,727,280.08
21	3/5/2017	3/6/2017	\$4,750,460.01	\$246,836.12	\$4,503,623.89	\$764,954.92	3/6/2017	\$1,962,325.16
22	3/31/2017	4/6/2017	\$5,773,126.96	\$300,471.64	\$5,472,655.32	\$969,031.43	4/11/2017	\$1,002,128.73
23	4/28/2017	5/8/2017	\$6,238,928.00	\$314,148.96	\$5,924,779.04	\$452,123.72	5/9/2017	\$550,005.01
24	6/30/2017	7/7/2017	\$6,301,768.00	\$317,290.96	\$5,984,477.04	\$59,698.00	7/11/2017	\$490,307.01

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; Contract Time Extension to 3/31/17	Field	\$108,620.00	\$0.00	NA	NA	NA	3.40%	8/17/2016	Approved	Clay Cap Bridge; Contract Time Extension to 3/31/17
22*	Relief Well Floor Drains and Casing Pipe Supports Credit	Field	-\$10,656.00	\$0.00	4.16	\$ 878,900.00	-1.21%	-0.33%	8/18/2016	Approved	Plug 18 Relief Well Floor Drains - \$2,214.00; Elimination of 18 casing pipe supports - (\$12,870.00)
23*	Credit PZ Abandonments & Time Extension to 7/31/17	Field	-\$2,400.00	\$0.00	4.2		#DIV/0!	#DIV/0!	3/15/2017	Approved	Credit PZ Abandonments & Time Extension to 7/31/17
24*	Relief Well Conversions Concrete Seals; Siphon Breaker Conduit Replacement	Field	\$11,235.00	\$0.00	4.16	\$ 878,900.00	1.28%	0.35%	3/15/2017	Approved	Relief Well Conversions Concrete Seals; Siphon Breaker Conduit Replacement
25	Contract Time Extension to September 21, 2017 due to high river	Other	\$0.00	\$0.00	NA	NA	NA	0.00%	6/12/2017	Approved	Contract Time Extension to September 21, 2017 due to high river
26	Credit RCP Balancing Quantities	Field	-\$75,949.65	\$0.00	NA	NA	NA	-2.38%	6/22/2017	Approved	Credit RCP Balancing Quantities
Total of Project Change Orders \$3,198,003.25 \$10,598.70										Total	\$ 3,208,601.95

Original Contract Amount Revised Contract Amount % Change from Original Amount
\$3,190,232.45 6,398,834.40 100.58%

*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
Change Order #24:	\$ (714.50)	Credit Delete Casing Pipe Supports
Change Order #25:	\$ 137,693.68	Clay Cap Keyway Subsurface Conditions
Change Order #26:	\$ (8,525.96)	Balancing Quantities Credit HDPE Pipe – 12 Inch
Total Change Order Amount:	\$5,972,591.28	
Total Revised Contract Amount:	\$14,229,073.12	

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

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 (\$)
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	9/20/2016	\$7,637,727.36
30	9/30/2016	10/6/2016	\$6,918,376.86	\$347,789.14	\$6,570,587.72	\$107,695.18	10/11/2016	\$7,530,032.18
31	10/31/2016	11/9/2016	\$7,426,077.72	\$398,134.94	\$7,027,942.78	\$457,355.06	11/16/2016	\$7,071,962.62
32	11/30/2016	12/5/2016	\$8,356,329.18	\$490,688.02	\$7,865,641.16	\$837,698.38	12/23/2016	\$6,234,264.24
33	12/31/2016	1/5/2017	\$9,064,873.28	\$342,820.60	\$8,722,052.68	\$856,411.52	1/19/2017	\$5,377,852.72
34	1/31/2017	2/3/2017	\$10,476,583.85	\$347,842.61	\$10,128,741.24	\$1,406,688.56	2/15/2017	\$3,971,164.16
35	2/28/2017	3/3/2017	\$11,660,319.35	\$398,802.86	\$11,261,516.49	\$1,132,775.25	3/14/2017	\$2,838,388.91
36	3/31/2017	4/7/2017	\$12,141,797.34	\$422,785.46	\$11,719,011.88	\$457,495.39	4/19/2017	\$2,380,893.52
37	4/30/2017	5/8/2017	\$12,163,132.74	\$423,852.23	\$11,739,280.51	\$20,268.63	5/15/2017	\$2,498,318.57
38	4/30/2017	5/8/2017	\$12,172,337.94	\$317,063.24	\$11,855,274.70	\$115,994.19	6/14/2017	\$2,373,798.42
39	6/30/2017	7/7/2017	\$12,199,186.44	\$317,446.80	\$11,881,739.64	\$26,464.94	7/19/2017	\$2,347,333.48
40	7/31/2017	8/10/2017	\$12,350,346.99	\$332,562.86	\$12,017,784.13	\$136,044.49		\$2,211,288.99

TITLE: CONSTRUCTION CHANGE ORDER LOG

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

PROJECT NUMBER: SIFPDC-BP05

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

TITLE: CONSTRUCTION CHANGE ORDER LOG

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

PROJECT NUMBER: SIFPDC-BP05

Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments
15	RW Construction Obstruction	Field	\$83,011.64	\$0.00	5.27 5.28	\$ 3,204,234.48	2.59%	1.01%	5/15/2015	Within approved budget	RW Construction Obstruction due to Cobble Layer during drilling; submitted January 21, 2015 for Board approval
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
24	Credit Delete Casing Pipe Supports	Other	-\$714.50	\$0.00	5.27 5.28	\$ 3,204,234.48	-0.02%	-0.01%	11/1/2016	Approved	Credit Delete Casing Pipe Supports
25*	Clay Cap Keyway Subsurface Conditions Time Ext to 11/15/17	Field	\$137,693.68	\$0.00	5.08	\$ 1,882,247.68	7.32%	1.67%	4/19/2017	Approved	Clay Cap Keyway Subsurface Conditions; Time Ext to 11/15/17
26	Balancing Quantities Credit HDPE Pipe - 12 Inch	Other	-\$8,525.96	\$0.00	5.12	\$ 244,662.00	-3.48%	-0.10%	6/8/2017		Balancing Quantities Credit HDPE Pipe - 12 Inch
Total of Project Change Orders			\$5,952,892.50	\$19,698.78							\$5,972,591.28
Original Contract Amount			\$8,256,481.84								
Revised Contract Amount			14,229,073.12								
											% Change from Original Amount
											72.34%

*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
Change Order #31:	\$79,992.22	Pulcher Drainage Improvements
Change Order #32:	-\$72,271.08	Credit Various Work Items Pipe Casing, Pipe Repair, Fernco, Pulcher

Total Change Order Amount: \$2,579,129.39
Total Revised Contract Amount: \$15,436,257.14

Payment Request No.	Pay Request Date	Pay Request Recommended Approval Date	Total Completed to Date (\$)	Amount Retained (10% to 50%) then (5% to 95%)	Total Earned Less Retainage	Amount Invoiced (\$)	Date Paid by FPD	Estimate to Complete Including Retainage (\$)
1	12/1/2013	12/9/2013	\$85,500.00	\$8,550.00	\$76,950.00	\$76,950.00	12/20/2013	\$12,780,177.75
2	1/1/2014	2/10/2014	\$302,624.00	\$30,262.40	\$272,361.60	\$195,411.60	2/20/2014	\$12,584,766.15
3	2/3/2014	2/10/2014	\$1,082,723.00	\$108,272.30	\$974,450.70	\$702,089.10	2/20/2014	\$11,882,677.05
4	3/1/2014	3/14/2014	\$1,486,548.00	\$148,654.80	\$1,337,893.20	\$363,442.50	3/25/2014	\$11,519,234.55
5	4/1/2014	4/16/2014	\$2,819,792.90	\$281,979.29	\$2,537,813.61	\$1,199,920.41	4/22/2014	\$10,321,184.14
6	5/1/2014	5/13/2014	\$3,912,098.90	\$391,209.89	\$3,520,889.01	\$983,075.40	5/22/2014	\$9,338,108.74
7	6/1/2014	6/10/2014	\$4,741,611.90	\$474,161.19	\$4,267,450.71	\$746,561.70	6/19/2014	\$8,591,547.04
8	7/1/2014	7/14/2014	\$5,406,637.90	\$540,663.79	\$4,865,974.11	\$598,523.40	7/17/2014	\$8,125,833.24
9	8/1/2014	8/8/2014	\$5,785,001.65	\$578,500.17	\$5,206,501.49	\$340,527.38	8/19/2014	\$8,073,440.31
10	9/3/2014	9/5/2014	\$6,053,869.33	\$605,386.93	\$5,448,482.40	\$241,980.91	9/15/2014	\$7,849,799.02
11	10/1/2014	10/3/2014	\$6,752,179.87	\$675,217.99	\$6,076,961.88	\$628,479.49	10/16/2014	\$8,504,251.69
12	11/1/2014	11/10/2014	\$7,466,202.56	\$746,620.26	\$6,719,582.30	\$642,620.41	11/18/2014	\$7,899,566.94
13	12/1/2014	12/8/2014	\$8,071,969.19	\$807,196.92	\$7,264,772.27	\$545,189.97	12/18/2014	\$7,398,041.46
14	1/1/2015	1/13/2015	\$9,086,036.15	\$454,301.81	\$8,631,734.33	\$1,366,962.07	1/26/2015	\$6,031,079.39
15	2/1/2015	2/6/2015	\$10,631,046.43	\$531,552.32	\$10,099,494.11	\$1,467,759.77	2/18/2015	\$4,741,174.30

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 (\$)
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	9/20/2016	\$481,795.11
34	10/31/2016	11/9/2016	\$15,383,878.36	\$373,143.69	\$15,010,734.67	\$63,993.78	11/16/2016	\$497,793.55
35	11/30/2016	12/5/2016	\$15,427,757.16	\$366,735.97	\$15,061,021.19	\$50,286.52	12/23/2016	\$375,235.95
36	1/31/2017	2/2/2017	\$15,436,257.14	\$366,735.97	\$15,069,521.17	\$8,499.98	2/15/2017	\$0.00

* \$366,735.97 submitted to Monroe County Circuit Court for the lien from MSI; final payment made to Lane Construction

TITLE: CONSTRUCTION CHANGE ORDER LOG

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

PROJECT NUMBER: SIFPDC-BP06

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

TITLE: CONSTRUCTION CHANGE ORDER LOG

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

PROJECT NUMBER: SIFPDC-BP06

Change Request Number	Description	Change Type (Field, Design, Spec, Other)	Cost to FPD	Cost to Others	As Bid Line Item #	Original Cost of Associated Line Item	% of Original Line Item	% of Original Contract	Date	Status	Comments
16*	Concrete Headwall and Flap Gate at RW-200X; HDPE pipe 12 inch added to P-200X; HDPE pipe 12 inch added to 70-C; Manhole – 48 inch deleted JN-70 C; HDPE pipe 12 inch deleted P-S516 for 70C.	Field	\$10,004.04	\$0.00	6.39 6.40	\$ 1,806,432.00	0.55%	0.08%	2/12/2015	Approved	Change Description submitted in change order memo for Board approval 2/18/15
17	Credit-Remove Vacuum Testing of Manholes		\$ (10,106.25)	\$0.00	NA	NA	NA	-0.08%	3/4/2015	Approved	PCN approved to remove the requirements for ASTM C1244 Standard Test Method for Concrete Sewer
18*	60 Slot Relief Well Redesign	Field	\$63,230.97	\$0.00	6.40	\$ 1,039,884.00	6.08%	0.49%	3/18/2015	Approved	60-slot RW re-design to 40-slot; Board approval required
19	RW Construction Obstruction	Field	\$20,923.32	\$0.00	6.39 6.40	\$ 1,806,432.00	1.16%	0.16%	5/8/2015	Approved	RW Construction Obstruction due to Cobble Layer during drilling. To be processed under budget Board approved 1/21/15
20*	Abandon Existing PZ P37 12" Agg Surface Abandon Existing PZ 239L and install new PZ	Field	\$17,910.08	\$0.00	6.04 6.43 6.44	\$ 554,700.00	3.23%	0.14%	5/15/2015	Approved	Changes proposed to accommodate field conditions. Board approval required.
21	RW Construction Obstruction	Field	\$4,562.64	\$0.00	6.39 6.40	\$ 1,806,432.00	0.25%	0.04%	5/29/2015	Approved	RW Construction Obstruction due to Cobble Layer during drilling. To be processed under budget Board approved 1/21/15
22*	RCP at Pulcher's Driveway Increase in Relief Well Quantities	Field	\$83,071.89	\$0.00	6.39 6.40	\$ 1,806,432.00	4.60%	0.65%	6/17/2015	Approved	RCP at Pulcher's Driveway Increase in Relief Well Quantities Board approval required
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.
31*	Pulcher Drainage Improvements	Field	\$79,992.22	\$0.00	NA	NA	NA	0.62%	9/30/2016	Approved	Pulcher Drainage Improvements approved by Board May 18, 2016
32	Credit Various Work Items	Other	-\$72,271.08	\$0.00	NA	NA	NA	-0.56%	11/16/2016	Approved	Credit Various Work Items Pipe Casing, Pipe Repair, Fernco, Pulcher
Total			\$2,579,129.39	\$0.00						Total	\$ 2,579,129.39
Original Contract Amount			\$12,857,127.75								
Revised Contract Amount			\$15,436,257.14	20.06%							

*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	9/20/2016	\$658,806.27
16	9/30/2016	10/6/2016	\$14,297,251.87	\$9,939.42	\$14,287,312.45	\$133,855.46	10/11/2016	\$524,950.81
17	10/31/2016	11/10/2016	\$14,307,743.77	\$10,464.02	\$14,297,279.75	\$9,967.31	11/16/2016	\$514,983.50
18	5/31/2017	6/9/2017	\$14,382,035.77	\$14,178.62	\$14,367,857.15	\$70,577.40	6/14/2017	\$444,406.11



Memo to: Board of Directors
From: Chuck Ewert
Subject: Budget and Disbursement Report for July 2017
Date: August 14, 2017

Current Budget Highlights

Attached is the financial statement for July 2017 prepared by our fiscal agent, CliftonLarsonAllen. The report includes an accounting of revenues and expenditures for the month ending July 31, 2017, as compared to our fiscal year budget.

Accrued expenditures for the current fiscal year beginning on October 1, 2016 are \$31,521,888 while revenues amounted to \$10,267,387 resulting in a deficit of \$21,254,501. A total of \$29,192,280 is held by the counties in their respective FPD sales tax funds and is available for the Council's use on the project.

Monthly sales tax receipts of \$1,045,182 for May 2017 (the latest month reported by the Illinois Department of Revenue) were up 7.29% from last year. This is the highest amount ever collected in May and is the seventh month in a row with the highest receipts collected for that particular month. Receipts are up 4.34% from last year, which was our highest year.

Monthly Disbursements

Attached is the list of bank transactions for July 2017. Total disbursements for the month were \$438,390.32. The largest payments were to Haier Plumbing BP #4 , Keller Construction for BP #3 & #5, and Amec Foster Wheeler.

Recommendation:

Accept the budget report and disbursements for July 2017.



**SOUTHWESTERN ILLINOIS FLOOD PREVENTION
DISTRICT COUNCIL**

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

TEN MONTHS ENDED JULY 31, 2017 AND 2016



CliftonLarsonAllen

CliftonLarsonAllen LLP
www.cliftonlarsonallen.com

Board Members
Southwestern Illinois Flood Prevention District Council
Collinsville, Illinois

Management is responsible for the accompanying General Fund Statement of Revenues and Expenditures of Southwestern Illinois Flood Prevention District Council (the "Council") for the ten months ended July 31, 2017 and 2016, 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, 2017 and 2016, have not been compiled or examined by us, and, accordingly, we do not express an opinion or any other form of assurance on them.

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

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

CliftonLarsonAllen LLP

St. Louis, Missouri
August 7, 2017

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

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

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

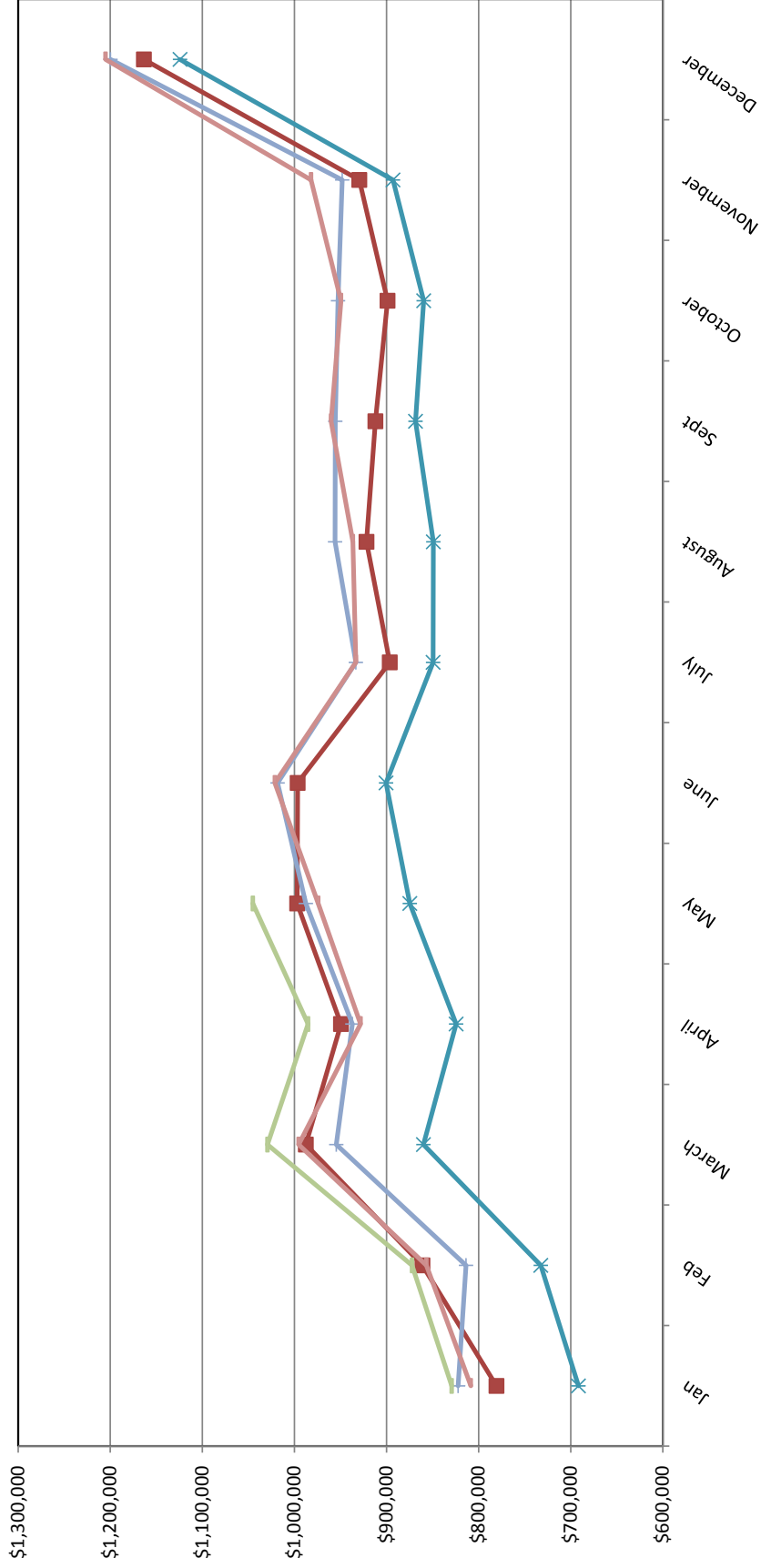
	BUDGET		ACTUAL	VARIANCE WITH FINAL BUDGET
	ORIGINAL	FINAL		POSITIVE (NEGATIVE)
REVENUES				
Sales Tax Proceeds From Districts	\$ 11,500,000	\$ 11,500,000	\$ 9,534,208	\$ 1,965,792
Interest Income	75,000	75,000	506,126	(431,126)
Other Contributions	-	-	5	(5)
Total Revenues	<u>11,575,000</u>	<u>11,575,000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

Flood Prevention District Sales Tax Trends 2009-2017

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		
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		
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		
2013														
Madison	\$375,398	\$383,170	\$424,507	\$425,469	\$457,212	\$451,494	\$436,686	\$442,449	\$430,541	\$429,499	\$432,541	\$500,233	\$5,189,199	47.062%
St. Clair	\$381,645	\$395,527	\$449,397	\$434,001	\$457,942	\$462,603	\$422,892	\$432,195	\$430,014	\$419,350	\$448,076	\$560,165	\$5,293,807	48.011%
Monroe	\$37,888	\$39,679	\$45,689	\$45,913	\$48,212	\$47,694	\$42,672	\$45,143	\$44,733	\$44,723	\$47,111	\$53,853	\$543,310	4.927%
Total Month	\$794,931	\$818,376	\$919,593	\$905,383	\$963,366	\$961,791	\$902,250	\$919,787	\$905,288	\$893,572	\$927,728	\$1,114,251	\$11,026,316	
Cumulative Total	\$794,931	\$1,613,307	\$2,532,900	\$3,438,283	\$4,401,649	\$5,363,440	\$6,265,690	\$7,185,477	\$8,090,765	\$8,984,337	\$9,912,065	\$11,026,316		
% change/month	1.83%	-4.94%	-6.89%	-4.64%	-3.37%	-3.48%	0.64%	-0.21%	-0.74%	-0.61%	-0.19%	-4.23%		
% change/total	1.83%	-1.72%	-3.66%	-3.92%	-3.80%	-3.74%	-3.14%	-2.77%	-2.55%	-2.36%	-2.16%	-2.37%		

Flood Prevention District Sales Tax Trends 2009-2017

Monthly Receipts 2009-2012-2015-2016-2017



SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL
SUPPLEMENTARY SUPPORTING SCHEDULE
BANK TRANSACTIONS
July 31, 2017

Beginning Bank Balance July 1, 2017		\$	235,695.20
Receipts			
UMB	07/18/2017 Funds Transfer - Construction		1,061,818.83
UMB	07/18/2017 Funds Transfer - Admin		18,199.39
The Bank of Edwardsville	07/31/2017 Interest		445.36
		\$	1,080,463.58
Disbursements			
AT&T	07/06/2017 Tablet Service		32.32
Dorgan, McPike & Assoc, LTD	07/06/2017 Legal & Legislative		3,000.00
Microsoft Office	07/05/2017 Telecommunications		0.99
Smith Dawson & Andrews	07/06/2017 Government Relations		5,000.00
Haier Plumbing	07/11/2017 Construction		59,698.00
CliftonLarsonAllen LLP	07/11/2017 Fiscal Agent		2,283.42
East-West Gateway Council of Governments	07/24/2017 Supervisor Mgt Services		18,621.19
Amec Foster Wheeler Environment & Infracore	07/17/2017 Design & Construction		284,319.52
CDW Government	07/18/2017 Computer supplies		188.17
Cost Less Copy Center	07/18/2017 Board Meeting Expense		220.00
Husch Blackwell	07/12/2017 Legal & Legislative		28,021.14
The Bank of Edwardsville	07/18/2017 Wire Fees		10.00
The Bank of Edwardsville	07/18/2017 Wire Fees		10.00
Keller Construction Inc	07/19/2017 Construction		26,464.94
Keller Construction Inc	07/19/2017 Construction		5,915.23
The Bank of Edwardsville	07/19/2017 Wire Fees		15.00
The Bank of Edwardsville	07/19/2017 Wire Fees		15.00
Columbia Capital	07/25/2017 Financial Advisor		900.00
AT&T	07/11/2017 Telephone		85.91
Office Depot	07/25/2017 Office Supplies		17.07
UMB Bank, NA	07/25/2017 Bond Trustee Fee		2,056.40
UMB Bank, NA	07/25/2017 Bond Trustee Fee		1,499.90
The Bank of Edwardsville	07/31/2017 Bank Charges		16.12
		\$	438,390.32
		\$	877,768.46



Memo to: Board of Directors
From: Chuck Etwert
Subject: FY 2018 Annual Budget
Date: August 14, 2017

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 were tables providing details on the project expenditures, estimated revenues and expenses for the next fifteen months, and potential Authorized Level funding.

The FY 2018 budget focuses on the completion of all construction needed to achieve FEMA accreditation. Unfortunately, during FY2017 we again experienced delays due to high river conditions. This has pushed completion of construction back to almost the end of this year. This, coupled with FEMA having a backlog of work, has moved the anticipated accreditation date back to late 2018 or early 2019.

We will enter FY 2018 with the ten current construction contract packages being over ninety-six percent complete. There are three major construction items remaining to be completed are the East St. Louis 126-inch Sewer Rehabilitation, the MESD clay cap, and four remaining relief well in the Wood River area.

Certification reports have been submitted to FEMA for the Wood River East & West Forks, Upper Wood River and Prairie Du Pont & Fish Lake. Lower Wood River is scheduled for this October and MESD spring 2018.

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

The recommended FY 2018 budget is shown in Table 1 and is the same as presented in July.

Authorized Level Work Orders have been adjusted to include the Life-Cycle Cost Analysis Work Order which will be discussed later in the agenda.

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.

A regional partnership to rebuild Mississippi River flood protection

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 November 30, 2017 and FEMA certification will be achieved by the end of 2018.
2. The level of Council staffing does not change in FY 2018, 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 construction on all projects currently being built or to be built.
5. Sales tax revenue is estimated to increase by 2.00% over the estimated receipts for the current year. Our current increase level thru July of this year is 3.54%. 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 and may in some instances satisfy a small portion of the Work In-Kind requirement.
7. The Council will continue to work with levee districts in establishing funding sources, where and if needed, for the maintenance and operations of the 100-Year Improvements and Authorized Level Improvements being built.
8. 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.
9. The budget has been developed to provide flexibility to coincide with the Corps of Engineers, now utilizing the Risk Informed Process, to determine individual project risk factors, which could change project priorities and design responsibilities between the Corps and Amec Foster Wheeler.

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

Table 3 compares expenses to revenues between 7/1/2017 and 9/30/2018. The table illustrates, all 2010 Bond Issue construction funds have been spent, the amount of available 2015 Bond Issue construction funds is \$45,097,276, and total amount of individual County FPD funds is \$29,192,280.

Table 4 illustrates potential Authorized Level funding is approximately \$91.0 million.

These tables and the draft budget illustrate that the Council will meet its goal of achieving FEMA certification with the revenue available from the dedicated FPD sales tax and have sufficient funds available for Authorized Level improvements. Easements, high river stages, construction alternatives and construction delays have push accreditation back the last two years, but the Council is well on the way to achieving accreditation in 2018.

Recommendation: Approve the proposed FY 2018 annual budget for the Council and authorize the Chief Supervisor to submit it to the Boards of Madison, Monroe, and St. Clair Counties as presented.

TABLE 1
SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL
PROPOSED BUDGET
OCTOBER 1, 2017 THRU SEPTEMBER 30, 2018

	ACTUAL EXPENDITURES OCTOBER 1, 2015 THRU SEPTEMBER 30, 2016	ADOPTED BUDGET OCTOBER 1, 2016 THRU SEPTEMBER 30, 2017	PROJECTED EXPENDITURES OCTOBER 1, 2016 THRU SEPTEMBER 30, 2017	PROPOSED BUDGET OCTOBER 1, 2017 THRU SEPTEMBER 30, 2018
REVENUES				
Sales Tax Proceeds From Districts	\$ 11,529,755	\$ 11,750,000	\$ 11,679,251	\$ 11,835,000
Interest Income	595,947	640,000	725,059	225,000
Other Contributions	5	-	-	-
Total Revenues	<u>\$ 12,125,707</u>	<u>\$ 12,390,000</u>	<u>\$ 12,404,310</u>	<u>\$ 12,060,000</u>
EXPENDITURES				
Design and Construction				
Engineering Design & Construction Management	4,999,805	9,197,055	5,025,720	5,688,038
Construction	24,396,727	22,840,515	12,512,243	7,330,945
USACE Authorized Level Costs	2,439,618	5,760,115	7,652,000	6,157,291
Total Design and Construction	<u>\$ 31,836,150</u>	<u>\$ 37,797,685</u>	<u>\$ 25,189,963</u>	<u>\$ 19,176,274</u>
Professional Services				
Legal & Legislative Consulting	424,845	458,500	352,682	486,000
Diversity Program Manager	16,155	25,000	-	11,525
Financial Advisor	95,549	65,000	31,420	65,000
Bond Trustee Fee	12,351	12,000	15,000	16,000
Total Professional Services	<u>\$ 548,900</u>	<u>\$ 560,500</u>	<u>\$ 399,102</u>	<u>\$ 578,525</u>
Refund of Surplus Funds to County FPD Accounts				
Total Refund of Surplus Funds to County	<u>\$ 3,355,621</u>	<u>\$ 4,000,000</u>	<u>\$ 2,194,051</u>	<u>\$ 3,000,000</u>
Debt Service				
Principal and Interest	9,483,278	10,725,020	10,725,020	10,798,620
Federal Interest Subsidy	(848,250)	(848,250)	(847,340)	(847,340)
Total Debt Service	<u>\$ 8,635,028</u>	<u>\$ 9,876,770</u>	<u>\$ 9,877,680</u>	<u>\$ 9,951,280</u>
Total Design & Construction Expenses	<u>\$ 44,375,699</u>	<u>\$ 52,234,955</u>	<u>\$ 37,660,796</u>	<u>\$ 32,706,079</u>
General and Administrative Costs				
Salaries, Benefits	194,666	203,000	202,892	203,000
Bank Service Charges	1,348	1,500	1,210	1,500
Annual IL. Lobbyist Registration	358	350	307	350
Equipment and Software	433	2,000	-	2,000
Fiscal Agency Services	28,400	30,000	29,050	31,000
Audit Services	15,000	15,500	15,500	16,000
Meeting Expenses	197	1,000	638	1,000
Postage/Delivery	433	400	990	1,000
Printing/Photocopies	3,442	3,500	3,016	3,500
Professional Services	257	10,000	-	10,000
Publications/Subscriptions	118	250	-	250
Supplies	2,993	3,300	3,115	3,300
Telecommunications/Internet	2,978	3,000	2,230	3,000
Travel	708	5,000	718	5,000
Insurance	942	1,000	485	1,000
Total General & Administrative Costs	<u>\$ 252,273</u>	<u>\$ 279,800</u>	<u>\$ 260,151</u>	<u>\$ 281,900</u>
Total Expenditures	<u>\$ 44,627,972</u>	<u>\$ 52,514,755</u>	<u>\$ 37,920,947</u>	<u>\$ 32,987,979</u>
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES				
	(32,502,265)	\$ (40,124,755)	\$ (25,516,637)	\$ (20,927,979)
OTHER FINANCING SOURCES				
Proceeds From Borrowing	83,835,000	-	\$ -	\$ -
NET CHANGE IN FUND BALANCE	<u><u>\$ 51,332,735</u></u>	<u><u>\$ (40,124,755)</u></u>	<u><u>\$ (25,516,637)</u></u>	<u><u>\$ (20,927,979)</u></u>

Table 2
Estimated Project Expenditures 10.1.2017 -9.30.2018

Design & Construction Management	FY 2018
Engineering Design	
<i>W. O. #1 Program Mgmt.</i>	\$200,000
<i>W. O. #3 Preconstruction Activities</i>	\$100,000
<i>W.O. #5 COR Investigation</i>	\$1,000
<i>W. O. #9 Wood River Cutoff Walls</i>	\$5,000
Authorized Level Work Orders	
<i>W.O. #13 Wood River Field & Design BP #8, BP #9, & BP #10</i>	\$300,000
<i>W.O. #14 MESD Field & Design</i>	\$2,100,000
<i>W.O. #16 Prairie Du Pont/Fish Lake Field & Design PH I</i>	\$2,400,000
<i>W.O. #17 Life-Cycle Cost Analysis FEMA Improvements</i>	\$100,000
Construction Management.	
<i>W. O. #8 Construction Management BP #1 - #6 & Amendment #4</i>	\$276,934
<i>W. O. #10 Construction Management BP #7A & #7B</i>	\$15,000
<i>Construction Management BP #8 & BP #14</i>	\$50,000
<i>QC/Materials Testing</i>	\$140,104
TOTAL ENGINEERING DESIGN & CONSTRUCTION MGMT.	\$5,688,038
Construction	
<i>Bid Package #3</i>	\$24,443
<i>Bid Package #4</i>	\$350,005
<i>Bid Package #5</i>	\$1,500,798
<i>Bid Package #5A</i>	\$319,410
<i>Bid Package #7B</i>	\$444,412
<i>Bid Package #8</i>	\$400,000
<i>Bid Package #14</i>	\$400,000
<i>Contingency (10% FPD Construction)</i>	\$343,907
<i>Utilities</i>	\$200,000
<i>Property Acquisition Authorized Level - Wood River</i>	\$500,000
<i>Property Acquisition Authorized Level - East St. Louis</i>	\$500,000
<i>Property Acquisition Authorized Level - Prairie Du Pont/Fish Lake</i>	\$500,000
<i>Wetland Mitigation</i>	\$27,970
<i>HazMat Mitigation</i>	\$1,500,000
<i>Legal</i>	\$320,000
<i>Corps of Engineers Authorized Level Costs</i>	\$6,157,291
TOTAL CONSTRUCTION	\$13,488,236
TOTAL ENGINEERING DESIGN & CONSTRUCTION	\$19,176,274
REFUND OF SURPLUS FUNDS TO COUNTY FPD ACCOUNTS	\$3,000,000

Operations & Financing	
<i>General & Administrative</i>	\$281,900
<i>Debt Service</i>	\$10,798,620
<i>Interest Rate Subsidy</i>	(\$847,340)
<i>Professional Services</i>	
<i>Legal</i>	\$410,000
<i>Legislative</i>	\$76,000
<i>Financial Advisor</i>	\$65,000
<i>Diversity Program Mgr.</i>	\$11,525
<i>Bond Trustee</i>	\$16,000
TOTAL OPERATIONS	\$10,811,705
TOTAL EXPENSES	\$32,987,979

Table 3

Estimated Revenues 7.1.2017 - 9.30.2018

Fund Sources	
<i>Cash on hand (6/30/2017)</i>	\$235,695
<i>2010 Bond Project Funds (6/30/2017)</i>	\$0
<i>2015 Bond Project Funds (6/30/2017)</i>	\$45,097,276
<i>County FPD Tax Bal. (6/30/2017)</i>	\$29,192,280
<i>Sales Tax Revenue (7/1/2017-9/30/2017)</i>	\$2,982,176
<i>Interest Income (7/1/2017-9/30/2017)</i>	\$170,037
<i>Federal Interest Subsidy (September 2017)</i>	\$423,670
<i>Sales Tax Revenue (10/1/2017-9/30/2018)</i>	\$11,835,000
<i>Interest Income (10/1/2017-9/30/2018)</i>	\$225,000
Total Available Funds	\$90,161,134

Estimated Expenditures 7.1.2017 - 9.30.2018

Expenditures	
<i>Engineering Design and Construction Mgmt. (7/1/2017-9/30/2017)</i>	\$1,629,147
<i>Construction (7/1/2017-9/30/2017)</i>	\$4,776,731
<i>Professional Services (7/1/2017-9/30/2017)</i>	\$143,676
<i>General & Administrative (7/1/2017-9/30/2017)</i>	\$62,234
<i>Engineering Design and Construction Mgmt. (10/1/2017-9/30/2018)</i>	\$5,688,038
<i>Construction (10/1/2017-9/30/2018)</i>	\$13,488,236
<i>Professional Services (10/1/2017-9/30/2018)</i>	\$578,525
<i>Refund of Surplus Funds to County FPD Accounts</i>	\$3,000,000
<i>Debt Service (10/1/2017-9/30/2018)</i>	\$9,951,280
<i>General & Administrative (10/1/2017-9/30/2018)</i>	\$281,900
Estimated Expenditures	\$39,599,767
Net Estimated Available Funds on 9/30/2018	\$50,561,367

Table 4

Potential Authorized Level Funding

<i>Design FY2016</i>	\$1,785,889
<i>Design FY 2017</i>	\$3,532,761
<i>Design & CM FY 2018 Budgeted</i>	\$4,950,000
<i>Concrete Pipe Change Orders</i>	\$9,446,022
<i>FPD Construction FY2018 Budgeted</i>	\$4,400,000
<i>Corps of Engineers Funding FY 2016</i>	\$2,439,618
<i>Corps of Engineers Funding FY 2017</i>	\$7,652,000
<i>Corps of Engineers Funding FY 2018 Budgeted</i>	\$6,157,291
<i>Net Available Funds (9/30/2018)</i>	\$50,561,367
Total Potential Authorized Level Funding	\$90,924,948



Memo to: Board of Directors

From: Chuck Etwert

Subject: Annual Report

Date: August 14, 2017

Attached is the proposed Annual Report for FY 2017. By law, the Council must submit an Annual Report to each county board describing activities for the past year. We generally submit this report with our annual request for approval of our budget.

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

Recommendation: Authorize the Chief Supervisor to submit the FY 2017 Annual Report to the county boards of St. Clair, Madison, and Monroe counties.

Southwestern Illinois Flood
Prevention District Council

Annual Report 2016-2017



August 16, 2017



104 United Drive
Collinsville, IL 62234

618-343-9120

www.floodpreventiondistrict.org

August 16, 2017

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

Board of Directors

Ron Motil
President

Paul Bergkoetter
Vice President

John Conrad
Secretary-Treasurer

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

Bruce Brinkman
Thomas Long
Debra Moore
Alvin L. Parks Jr.
Jeremy Plank
Ronald Polka

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

Charles M. Ewert
Chief Supervisor of
Construction and the Works

Sirs:

Transmitted herewith is the 2016-2017 Annual Report of the Southwestern Illinois Flood Prevention District Council. The submission of this report is in satisfaction of the requirement of our authorizing statute (70 ILCS 750/).

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

We will enter FY2018 with over ninety six percent of our current ten construction packages complete and anticipate construction of all ten packages to be finished by the end of 2017.

Delays due to high river conditions have continued to push the accreditation schedule back, but the Council is well on its way to achieving accreditation in 2018 or early 2019, using only the revenue available from the dedicated FPD sales tax.

a regional partnership to rebuild Mississippi River flood protection

Three certification reports have been submitted to FEMA. Amec Foster Wheeler submitted the Wood River East & West Forks Package in December 2016 and the Prairie Du Pont/Fish Lake Package in July. They will be submitting the Lower Wood River Package in September, subject to the river receding, allowing for the construction of the remaining four relief wells.

The Corps of Engineers submitted the Upper Wood River Package in March and will submit the MESD Package in early 2018.

It is now anticipated FEMA accreditation review and approval will take at least eight to twelve months. FEMA is working with the Council and has indicated that it doesn't want to issue the maps twice, once before and once after the Council's completes its improvements. Therefore, FEMA isn't going to issue new maps until all of the Council's 100-Year improvements are complete.

All levee improvements leading to certification will be completed by November 2017. The intent is to work closely with FEMA to ensure that when the new maps are issued, they reflect the levee improvements. It is currently anticipated that FEMA will be issuing new maps in the first or second quarter of 2019.

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

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

During the last year, the Corps of Engineers has 1) determined that a Risk Assessment and a Supplemental Report must be completed prior to amending the Wood River Levee System Project Partnership Agreement, 2) implemented the use of a Risk Informed Process in the Metro East Sanitary District (MESD) Levee System to determine which projects (based on vulnerability and effect) should be completed first, 3) completed the analysis of the 500-Year Authorized Level Projects in the Prairie Du Pont/Fish Lake Levee System in the areas where there were 100-Year Level Improvements, and 4) received FY 2017 Work Plan funding for the Wood River Levee System. These actions have contributed to delays in Work In-Kind Credit being utilized, designs being put on hold, a change in project priorities, and responsibilities for design and construction.

The Council will continue moving forward designing and building projects, while the Corps of Engineers proceeds with their required planning and analyzing procedures.

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

Thank you for supporting our efforts throughout the year.

Sincerely,

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

Charles M. Etwert
Chief Supervisor of Construction and the Works

I. Introduction

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

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

The region’s leadership recognized that extraordinary measures were necessary to protect this economic asset and the homes and livelihoods of a large portion of the region’s population. A new revenue source was created in 2008 and a regional organization was formed to carry out an ambitious plan to maintain a level of flood protection that has been in place for some 70 years. That plan is now being implemented.

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

The purpose of this report is to outline the activities of the Southwestern Illinois Flood Prevention District Council in 2016-2017 towards implementing flood protection improvements at the 100-Year Level of Protection and the 500-Year Level of Protection (also known as the Authorized Level).

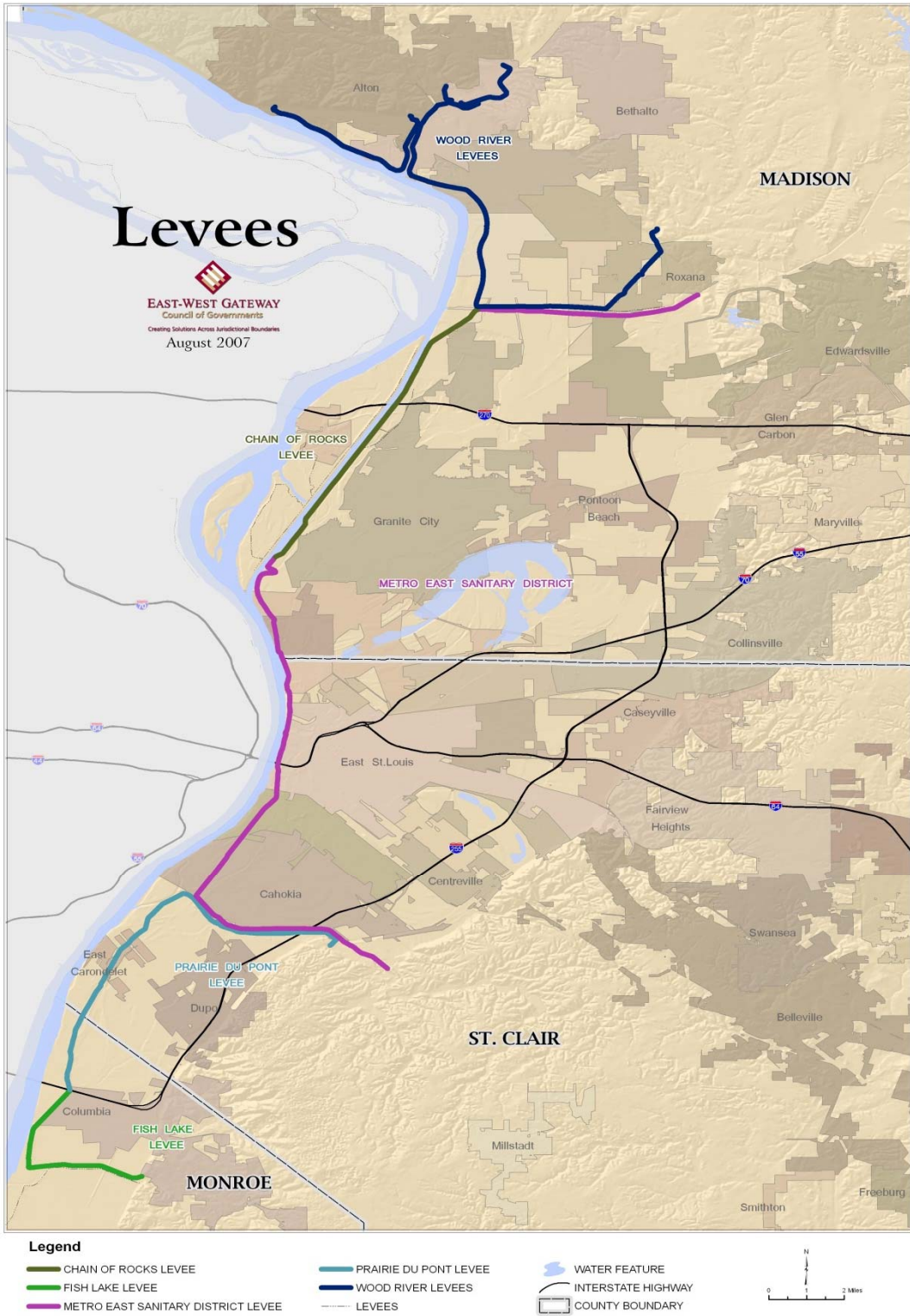
II. Background

A system of 65 miles of mainline and wing levees protects an area called the American Bottom in Southwestern Illinois from flooding by the Mississippi River. The American Bottom is an area of 174 square miles that is home to 156,000 people and 55,000 jobs. The levee system was authorized by Congress, designed, and built by the U.S. Army Corps of Engineers to provide protection from a flood event on the Mississippi River of 54 feet on the St. Louis gauge. The American Bottom has not been flooded by the Mississippi River in the 70 years since the flood protection system was initially built, including during the flood of record in 1993, reportedly as much as a 380-year event.

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

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

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



**Figure 1 –
 Levee Systems**

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

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

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

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

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

Because of the uncertainty of federal funding and the complexity and time-consuming nature of the USACE project development process, levee improvements will be primarily locally funded. The three affected counties have imposed a ¼% sales tax to pay for the restoration of the levee system and formed a new organization, the Southwestern Illinois Flood Prevention District Council, to carry out the levee improvement project. The tax has been collected since January 2009 and produces about \$11.5 million annually.

III. FPD Council Activities

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

Over the last few of years, the greatest challenge and source of doubt about the project has been the continued involvement of the Corps of Engineers in granting permission for most of the improvements to the levee system that the Council has proposed. The Corps is an institution that moves very deliberately, is governed by elaborate and extensive guidelines and procedures, most of which apply to federally funded projects but are being applied to our locally funded project. This process caused significant delays in the design process, but most of that is now behind us. The focus now is completing all construction by the end of 2017.

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

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

The Council's general goals have been to:

- assure compliance with FEMA accreditation standards with currently available revenue sources by the end of 2017 (originally the end of 2015, but extended due to obtainment of easements, several high river stage events, construction alternatives & additions, and construction delays);
- minimize economic and financial hardship should the levee systems be de-accredited by FEMA; and
- build as many critical and cost effective Authorized Level Protection Projects, with the funds available, to achieve 500-Year flood level protection

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

Today, after years of design work, multiple levee system inspections, drilling over 2000 borings along the entire length of the levee system, and submitting thousands of pages and many gigabytes of electronic files of design documentation to the Corps of Engineers, the Council is performing major construction. The 100-Year construction is nearing completion, financial plans have been developed and kept updated, and a current project budget demonstrates convincingly that the Council will build the project using only the funds from the dedicated sales tax and have significant funds to utilize towards the 500-Year Authorized Level of Protection.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Unfortunately, the flood event has delayed construction that needs to be completed, such as the East St. Louis 126 Inch Sewer Rehabilitation, the MESD clay cap project, and the four remaining relief wells in the Wood River Levee System.

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

Therefore, the Council and the Corps of Engineers' St. Louis District have both requested a portion of the funds be reallocated to the MESD Levee System, where the Corps of Engineers has a project (Cahokia Relief Wells) designed and ready to build.

In June 2017, the Corps of Engineers informed the Council that it would be utilizing a Risk Informed Design Process for the East St. Louis Design Deficiency Project for the Metro East Sanitary District (MESD) Levee System. The Risk Informed Design Process determines which projects (based on vulnerability and effect) should be completed first, to achieve the most effective use of available funds.

In the past the Corps looked at a system in general when assessing a risk factor, now they will be providing a risk factor for individual hazards or segments. The determination of individual project risk factors changes project priorities and design responsibilities between the Corps of Engineers and Amec Foster Wheeler.

The Risk Informed Design Process has identified the MESD Deep Cutoff Wall as the project which should be built first. Design and construction responsibilities for the Deep Cutoff Wall are still being discussed and finalized by the Corps and the Council. The potential reallocation of the Wood River funds to the MESD Levee System will affect the final decision. If the Corps designs, the Corps would construct. If Amec Foster Wheeler designs, construction could be by either the Council or the Corps of Engineers.

Amec Foster Wheeler will complete the design of Bid Package 14. Bid Packages 11 and 12/13 will be dependent on the Risk Informed Solution identification.

In July, the Corps of Engineers completed its reanalysis of the Prairie Du Pont/Fish Lake Levee System, in areas where 100-Year Level Projects were built. Amec Foster Wheeler will present the overall Authorized Level Project Summary Report for the Prairie Du Pont/Fish Lake area at the Council's August meeting. This will complete the identification of improvements needed in the Prairie Du Pont/Fish Lake System.

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

In summary, progress continues in building and financing significant improvements to the flood protection systems in the Metro-East. The Council remains committed to achieving accreditation in 2018. With the continued support of the area's leadership and cooperation from the Corps of Engineers and FEMA, the Council will be able to meet any remaining challenges to completion of the project.

Figure 2
Project Timeline

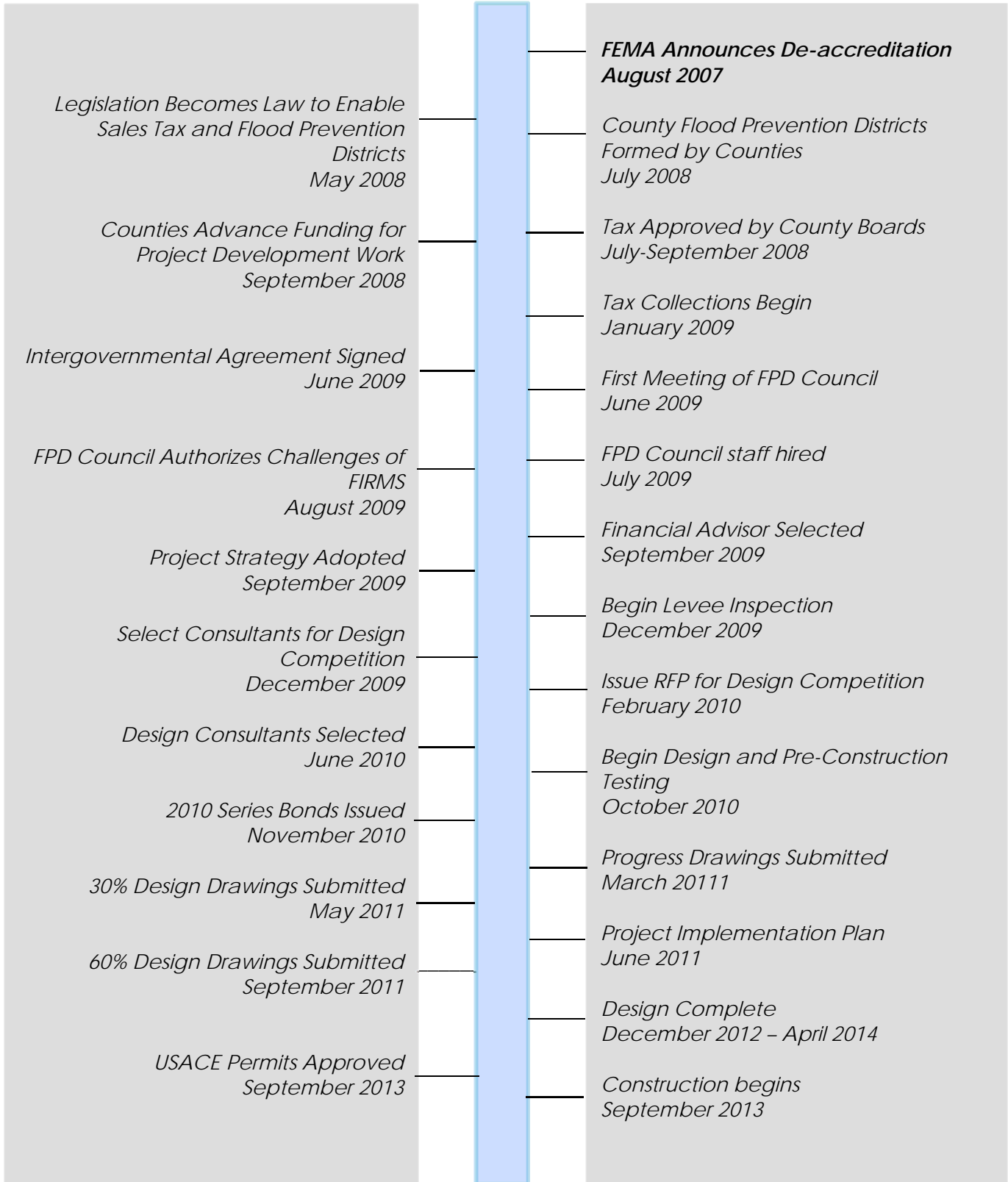
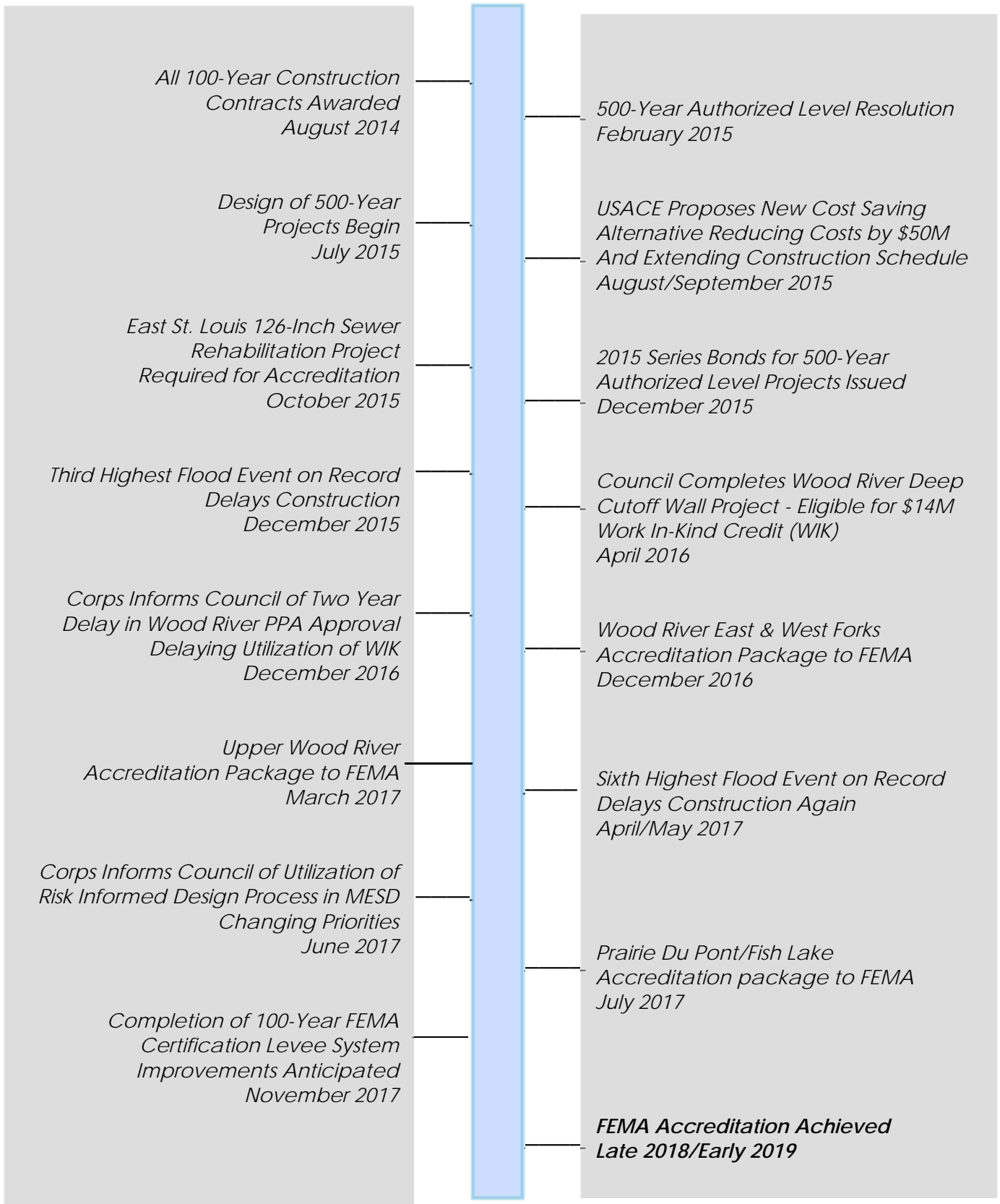


Figure 2
Project Timeline



IV. Financing and Budget

Table 1 is a financial summary of the Council’s activities through September 30, 2016, prepared by Scheffel Boyle.

Revenue from a dedicated sales tax is used to support the Council’s ongoing design and construction activities. Sales tax revenue showed substantial growth in 2009, 2010 and 2011 coming out of the recession, growth was slowed in 2012, declined in 2013, but has reached new highs in 2014, 2015, and 2016. (See Figure 3).

The Council issued bonds in the amount of \$94,195,000 in November 2010. After setting aside funds for a debt service reserve and costs of issuance, \$87 million was available to fund construction of the FEMA Certification Levee System Improvements. In December 2015, additional bonds were issued providing \$77.5 million in funds for the 500-Year Authorized Level of Protection Projects. The Council will meet its goal of achieving FEMA certification in 2018 utilizing only the revenues available from the dedicated FPD sales tax.

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

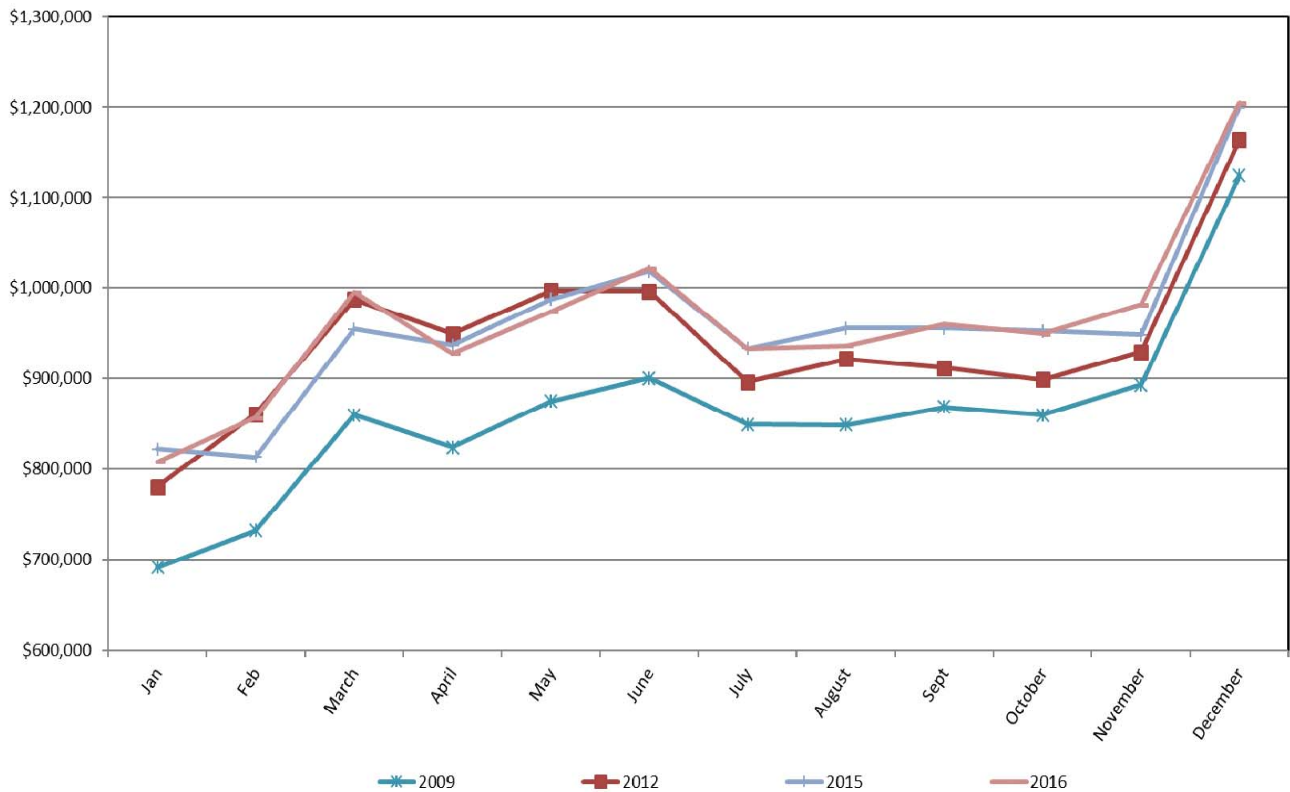


Table 1

**SOUTHWESTERN ILLINOIS FLOOD PREVENTION DISTRICT COUNCIL
STATEMENT OF REVENUES, EXPENDITURES. AND
CHANGES IN FUND BALANCES - GOVERNMENTAL FUND
FOR THE YEAR ENDED SEPTEMBER 30, 2016**

REVENUES:	
District Sales Tax	\$ 11,510,574
Less: Return of Excess Sales Tax to Districts	(3,048,352)
Interest Income	<u>589,243</u>
Total Revenues	\$ 9,051,465
 EXPENDITURES:	
Current:	
General and Administrative	\$ 252,024
Design and Construction	29,534,503
Professional Services	504,917
Debt Service:	
Principal	2,685,000
Interest	5,359,432
Bond Issuance Costs	846,724
Less: Federal Interest Subsidy	(848,250)
Total Expenditures	<u>\$ 38,334,350</u>
DEFICIENCY OF REVENUE OVER EXPENDITURES	<u>\$ (29,282,885)</u>
 OTHER FINANCING SOURCES (USES):	
Bond Issuance	\$ 83,835,000
Bond Discount	\$ (1,177,844)
Bond Premium	<u>\$ 1,862,033</u>
Total Other Financing Sources (Uses)	<u>\$ 84,519,189</u>
NET CHANGE IN FUND BALANCE	\$ 55,236,304
 FUND BALANCE:	
Beginning of Year	<u>\$ 24,706,799</u>
End of Year	<u>\$ 79,943,083</u>

Table 2 summarizes estimated project costs for FY2018.

Table 3 compares expenses to revenues between 7/1/2017 and 9/30/2018. The table illustrates, all 2010 Bond Issue construction funds have been spent, the amount of available 2015 Bond Issue construction funds is \$45,097,276, and total amount of individual County FPD funds is \$29,192,280.

Table 4 illustrates potential Authorized Level funding is approximately \$91 million.

Table 2

Estimated Project Expenditures 10.1.2017 -9.30.2018

Design & Construction Management	FY 2018
Engineering Design	
<i>W. O. #1 Program Mgmt.</i>	\$200,000
<i>W. O. #3 Preconstruction Activities</i>	\$100,000
<i>W.O. #5 COR Investigation</i>	\$1,000
<i>W. O. #9 Wood River Cutoff Walls</i>	\$5,000
Authorized Level Work Orders	
<i>W.O. #13 Wood River Field & Design BP #8, BP #9, & BP #10</i>	\$300,000
<i>W.O. #14 MESD Field & Design</i>	\$2,100,000
<i>W.O. #16 Prairie Du Pont/Fish Lake Field & Design</i>	\$2,400,000
<i>W.O. #17 Life-Cycle Cost Analysis FEMA Improvements</i>	\$100,000
Construction Management.	
<i>W. O. #8 Construction Management BP #1 - #6 & Amendment #4</i>	\$276,934
<i>W. O. #10 Construction Management BP #7A & #7B</i>	\$15,000
<i>Construction Management BP #8 & BP #14</i>	\$50,000
<i>QC/Materials Testing</i>	\$140,104
TOTAL ENGINEERING DESIGN & CONSTRUCTION MGMT.	\$5,688,038
Construction	
<i>Bid Package #3</i>	\$24,443
<i>Bid Package #4</i>	\$350,005
<i>Bid Package #5</i>	\$1,500,798
<i>Bid Package #5A</i>	\$319,410
<i>Bid Package #7B</i>	\$444,412
<i>Bid Package #8</i>	\$400,000
<i>Bid Package #14</i>	\$400,000
<i>Contingency (10% FPD Construction)</i>	\$343,907
<i>Utilities</i>	\$200,000
<i>Property Acquisition Authorized Level - Wood River</i>	\$500,000
<i>Property Acquisition Authorized Level - East St. Louis</i>	\$500,000
<i>Property Acquisition Authorized Level - Prairie Du Pont/Fish Lake</i>	\$500,000
<i>Wetland Mitigation</i>	\$27,970
<i>HazMat Mitigation</i>	\$1,500,000
<i>Legal</i>	\$320,000
<i>Corps of Engineers Authorized Level Costs</i>	\$6,157,291
TOTAL CONSTRUCTION	\$13,488,236
TOTAL ENGINEERING DESIGN & CONSTRUCTION	\$19,176,274

REFUND OF SURPLUS FUNDS TO COUNTY FPD ACCOUNTS	\$3,000,000
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Operations & Financing

<i>General & Administrative</i>	\$281,900
<i>Debt Service</i>	\$10,798,620
<i>Interest Rate Subsidy</i>	(\$847,340)
Professional Services	
<i>Legal</i>	\$410,000
<i>Legislative</i>	\$76,000
<i>Financial Advisor</i>	\$65,000
<i>Diversity Program Mgr.</i>	\$11,525
<i>Bond Trustee</i>	\$16,000
TOTAL OPERATIONS	\$10,811,705
TOTAL EXPENSES	\$32,987,979

Table 3

Estimated Revenues 7.1.2017 - 9.30.2018

Fund Sources

<i>Cash on hand (6/30/2017)</i>	\$235,695
<i>2010 Bond Project Funds (6/30/2017)</i>	\$0
<i>2015 Bond Project Funds (6/30/2017)</i>	\$45,097,276
<i>County FPD Tax Bal. (6/30/2017)</i>	\$29,192,280
<i>Sales Tax Revenue (7/1/2017-9/30/2017)</i>	\$2,982,176
<i>Interest Income (7/1/2017-9/30/2017)</i>	\$170,037
<i>Federal Interest Subsidy (September 2017)</i>	\$423,670
<i>Sales Tax Revenue (10/1/2017-9/30/2018)</i>	\$11,835,000
<i>Interest Income (10/1/2017-9/30/2018)</i>	\$225,000
Total Available Funds	\$90,161,134

Estimated Expenditures 7.1.2017 - 9.30.2018

Expenditures	
<i>Engineering Design and Construction Mgmt. (7/1/2017-9/30/2017)</i>	\$1,629,147
<i>Construction (7/1/2017-9/30/2017)</i>	\$4,776,731
<i>Professional Services (7/1/2017-9/30/2017)</i>	\$143,676
<i>General & Administrative (7/1/2017-9/30/2017)</i>	\$62,234
<i>Engineering Design and Construction Mgmt. (10/1/2017-9/30/2018)</i>	\$5,688,038
<i>Construction (10/1/2017-9/30/2018)</i>	\$13,488,236
<i>Professional Services (10/1/2017-9/30/2018)</i>	\$578,525
<i>Refund of Surplus Funds to County FPD Accounts</i>	\$3,000,000
<i>Debt Service (10/1/2017-9/30/2018)</i>	\$9,951,280
<i>General & Administrative (10/1/2017-9/30/2018)</i>	\$281,900
Estimated Expenditures	\$39,599,767

Net Estimated Available Funds on 9/30/2018 \$50,561,367

Table 4

Potential Authorized Level Funding

<i>Design FY2016</i>	\$1,785,889
<i>Design FY 2017</i>	\$3,532,761
<i>Design & CM FY 2018 Budgeted</i>	\$4,950,000
<i>Concrete Pipe Change Orders</i>	\$9,446,022
<i>FPD Construction FY2018 Budgeted</i>	\$4,400,000
<i>Corps of Engineers Funding FY 2016</i>	\$2,439,618
<i>Corps of Engineers Funding FY 2017</i>	\$7,652,000
<i>Corps of Engineers Funding FY 2018 Budgeted</i>	\$6,157,291
<i>Net Available Funds (9/30/2018)</i>	\$50,561,367
Total Potential Authorized Level Funding	\$90,924,948

This information illustrates that the Council will meet the interim goal of achieving FEMA certification in either late 2018 or early 2019 with the revenue available from the dedicated FPD sales tax and have significant funds available for the 500-Year Authorized Level Protection Projects.

V. FEMA Certification Construction Costs and Completion

Southwestern Illinois Flood Prevention District Council FEMA Certification Levee Improvement Projects

BID PACKAGE	LOCATION/PROJECT	CONTRACTOR	CONSTRUCTION CONTRACT	COMPLETION STATUS
2A	Fish Lake 1 Pump Station	Korte & Luitjohan	\$797,599.53	Complete
2B	Prairie DuPont, MESD, and Wood River 5 Pump Stations	Korte & Luitjohan	\$5,345,510.92	100%
2C	MESD Site 12 Force Mains	Haier Plumbing	\$311,692.00	Complete
3	Wood River Blanket Drains, Earth Fill, Relief Wells, Seepage Berms, Piping, Weirs	Keller Construction	\$12,922,903.94	100%
4	MESD 1 Pump Station, Clay Cap, Piping, RWs	Haier Plumbing	\$6,474,784.05	97%
5	MESD Clay Cap, Earth Fill, Piping, Relief Wells Rip Rap, Sluice Gate Rehabs	Keller Construction	\$14,229,073.12	86%
6	Prairie du Pont & Fish Lake Clay Cap, Seepage Berms, Piping, Relief Wells, Sluice Gate Rehabs	Lane Construction	\$15,436,257.14	100%
7A	Upper Wood River Shallow Cutoff Wall	Kamadulski Excavating	\$3,375,350.25	Complete
7B	Lower Wood River Deep Cutoff Wall	TREVIICOS	\$14,812,263.26	97%
5A	East St. Louis 126 Inch Sewer Repair	SAK Construction	\$699,900.00	29%
		TOTAL	\$74,405,334.21	

VI. Authorized Level Levee Improvement Projects

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

Wood River Levee System

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

Estimated Construction Cost \$ 4,100,000.

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

Estimated Construction Cost \$ 4,776,688 (*initial estimate*)

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

Estimated Construction Cost \$ 11,461,714 (*initial estimate*)

Metro East Sanitary District (MESD) Levee System

Bid Package 11 - Spans the MESD levee system from Station 148+00 to 891+00 (less the Chain of Rocks system). This package currently includes the design and construction of 132 relief wells, conveyance systems, and an existing pump station upgrade.

Estimated Construction Cost \$ 14,000,000.

Bid Package 12 - Spans the MESD Levee system from station 1014+00 to 1482+00 and includes the design and construction of 103 relief wells, conveyance systems, and a pump station.

Estimated Construction Cost \$ 15,000,000.

Bid Package 13 - Has been eliminated and most of the contents have been merged into Bid Package 12.

Bid Package 14 - Spans the MESD Levee system from station 41+00 to 244+00 on the MESD North Flank, 822+00 to 863+00 on the MESD Main Stem, and 960+00 to 974+00 on the MESD Main Stem. It includes the design and construction of 12 seepage berms, 2 clay cutoff trenches and clay blankets, a filter blanket, stormwater conveyance systems, and fill. This package also includes substantial utility relocation.

Estimated Construction Cost \$ 12,000,000.

MESD Deep Cutoff Wall / Cahokia Relief Wells–

The Corps of Engineers is utilizing a Risk Informed Design Process to determine which projects (based on vulnerability and effect) should be completed first, to achieve the most effective use of available funds. At this time, the MESD Deep Cutoff Wall and the Cahokia Relief Wells Projects have been identified as the projects to be built first. The design and construction responsibilities are still being discussed and finalized by the Corps and the Council. The potential reallocation of the Wood River funds to the MESD Levee System will affect the final decision. No estimated construction costs are available at this time.

Prairie Du Pont/ Fish Lake Levee System

In the Prairie Du Pont/Fish Lake Levee System, the Corps of Engineers has recently completed their analysis of 500-Year Authorized Level Projects in the areas where there were 100-Year Level Improvements. Amec Foster Wheeler will provide an Authorized Level Project Summary Report Phase II to the Council for acceptance in August 2017 with design approval to follow.

Bid Packages 15, 16 & 17 - Spans the Prairie du Pont/Fish Lake Levee System from station 165+00 to 735+25. These three packages currently include the design and construction of two pump stations, 168 relief wells and 74 seepage berms.

Estimated Construction Cost \$ 41,750,000.

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

VII. FEMA Certification and Mapping

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

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

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

Certification reports submitted to date:

System	Date	Submitted by
Wood River East & West Forks	December 5, 2016	Amec Foster Wheeler
Upper Wood River	March 10, 2017	Corps of Engineers
Prairie Du Pont & Fish Lake	July 6, 2017	Amec Foster Wheeler

Certification reports to be submitted:

Lower Wood River	October 2017	Amec Foster Wheeler
MESD	Spring 2018	Corps of Engineers

It is anticipated FEMA accreditation review and approval will take eight to twelve months. FEMA is working with the Council and has indicated that it doesn't want to issue the maps twice, once before and once after the Council's completes its improvements. Therefore, FEMA isn't going to issue new maps until all of the Council's 100-Year improvements are complete.

All levee improvements leading to certification will be completed by November 2017. The intent is to work closely with FEMA to ensure that when the new maps are issued, they reflect these levee improvements.

It is currently anticipated that FEMA would be issuing new maps in the first or second quarter of 2019

VIII. Work In-Kind Credit

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

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

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

Next, an Integral Determination Report (IDR) that identifies the work the Council intends to perform as In-Kind contributions in a Levee System must be approved. The approved IDRs for Wood River and East St. Louis have been received.

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

Due to the additional field information obtained during the design and construction of the 100-Year Projects and the design to date of the 500-Year Projects, the Corps of Engineers in December 2016 determined that the estimated cost of the Wood River Levee Systems projects will exceed the amount identified in the Wood River Levee System Reevaluation Report for Design Deficiency Corrections approved in 2011 by more than twenty percent, which requires a new decision document be approved.

A new decision document requires that a Risk Assessment and a Supplemental Report be completed. It is estimated to take twenty-four months to complete the assessment and report. An amended Project Partnership Agreement for the Wood River Levee System is now scheduled to be executed in September 2019, instead of the January 2017, the date originally indicated by the Corps. The Council must now wait over two and half years to utilize Work In-Kind Credit for the fourteen million dollars spent on the Wood River Deep Cutoff Wall Project.

There is a similar situation in the Metro East Sanitary District (MESD) Levee System where the cost estimate may be more than twenty percent less than the amount identified. However, a Risk Assessment has been completed and an amended Project Partnership Agreement is scheduled to be executed in March 2018. The Council will receive Work In-Kind Credit for the installation of the Reinforced Concrete Pipe, which replaced the high-density polyethylene (HDPE) pipe originally approved by the Corps of Engineers.

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

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

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

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

IX. Conclusions, Issues and Next Steps

Much progress has been made in the eight years that the Council has been in existence towards the regional goal of maintaining a high level of flood protection for the American Bottom area. Doing so is a regional priority and the Council has acted with a great sense of urgency, commitment, and cooperation in conceiving major improvements to the flood protection system. That process reached an important milestone this year with ninety six percent of the construction of the ten current projects being completed as of July of this year, and the remaining four percent estimated to be completed before the end year.

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

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

- Complete remaining 100-Year Construction Projects
- Submit the remaining two Certification reports for Lower Wood River and MESD as each levee system is completed
- Achieve FEMA certification
- Continue to work with levee districts to establish sufficient funding for ongoing maintenance of improvements
- Continue to identify the most cost effective and high priority projects in the Wood River and MESD Levee Systems as the Corps of Engineers completes its Risk Assessment & Supplemental Report for Wood River and utilizes the Risk Informed Design Process for the East St. Louis Design Deficiency Project
- Prioritize the Authorized Level Projects in the Prairie Du Pont/Fish Lake Levee Systems, now that the Corps has identified the necessary Phase II projects
- Complete the design of the 500-Year Authorized Level of Protection Projects that can be built either by the FPD or the Corps of Engineers
- Construct as many cost effective and high priority Authorized Level Projects, which qualify for Work In-Kind Credit

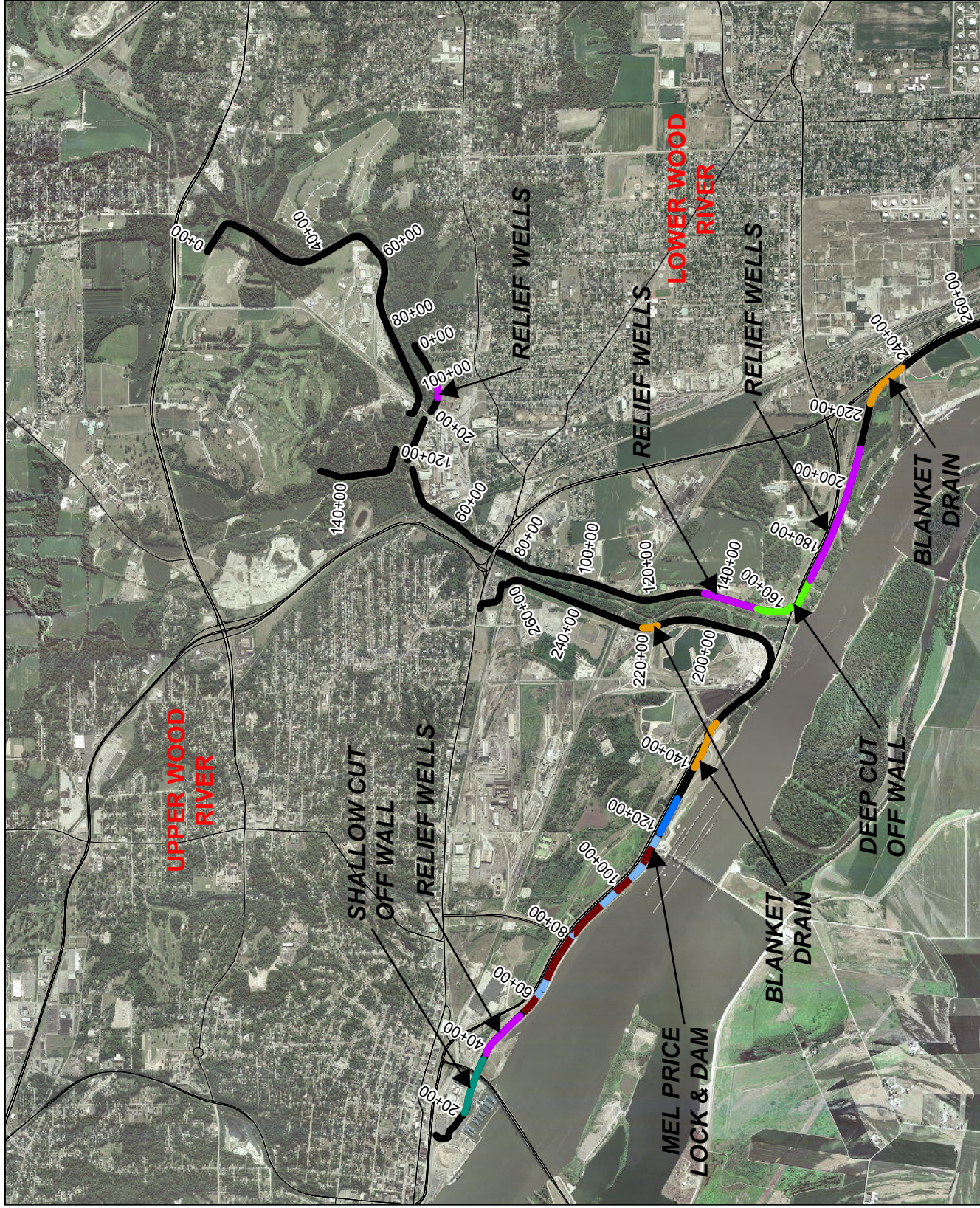
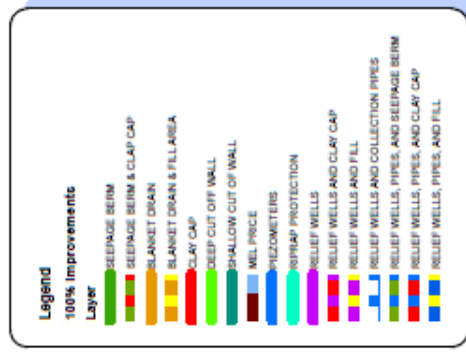
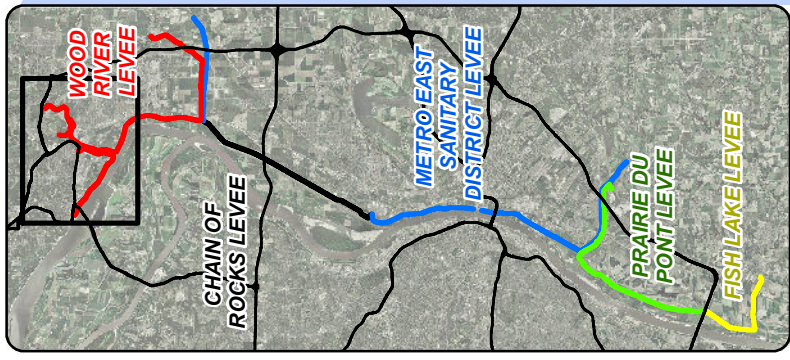
Mississippi River flood stages in December 2015/January 2016 (third highest elevation recorded) and April/May 2017 (sixth highest elevation record) have delayed construction completion and pushed accreditation back, but the Council will meet its interim goal of achieving FEMA certification with the revenue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

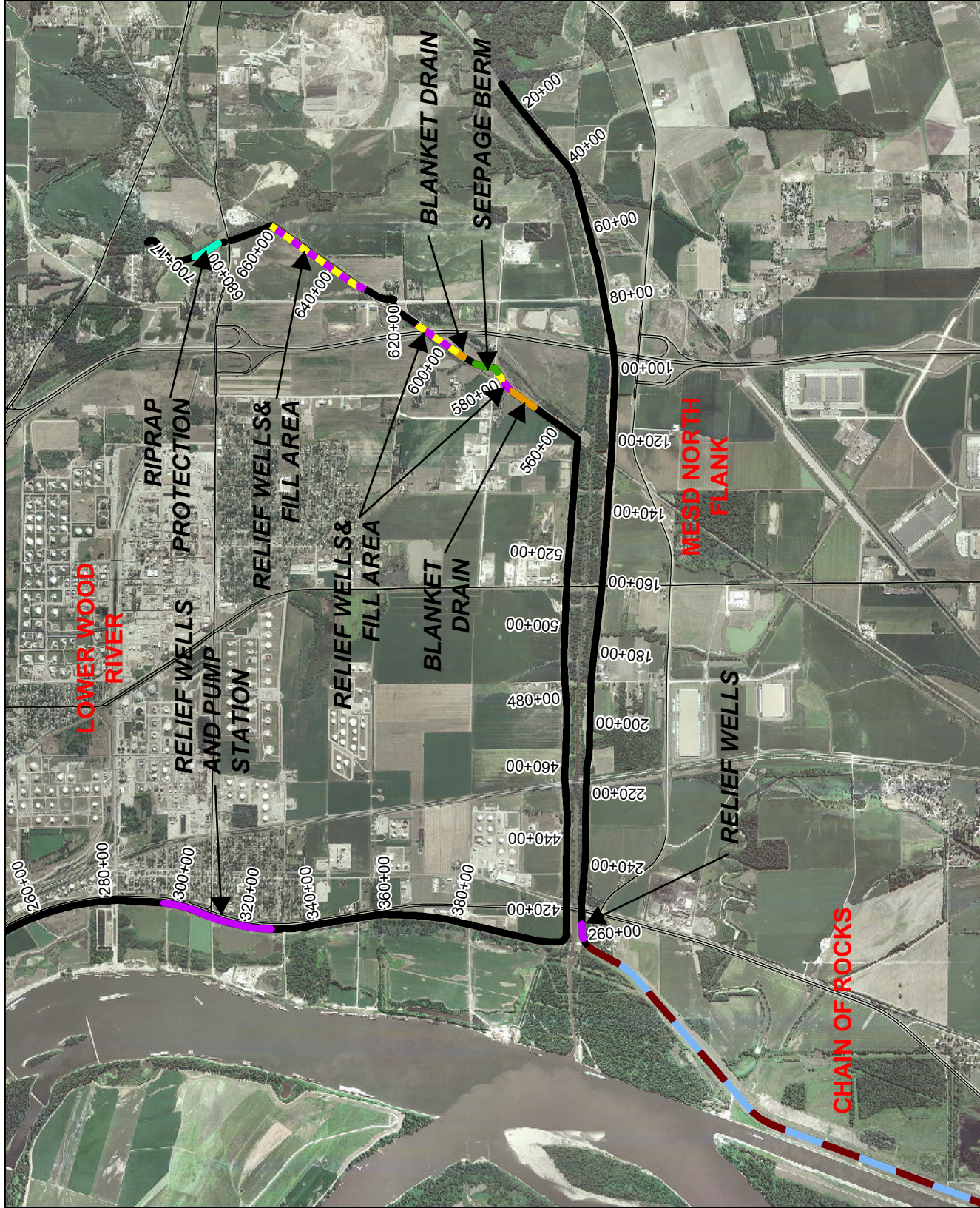
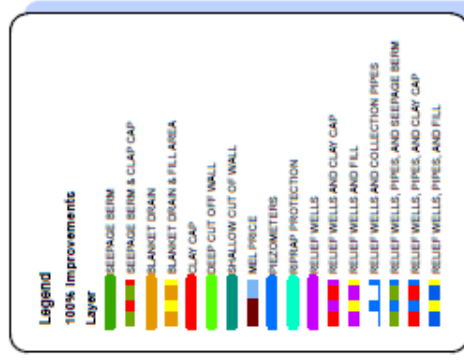
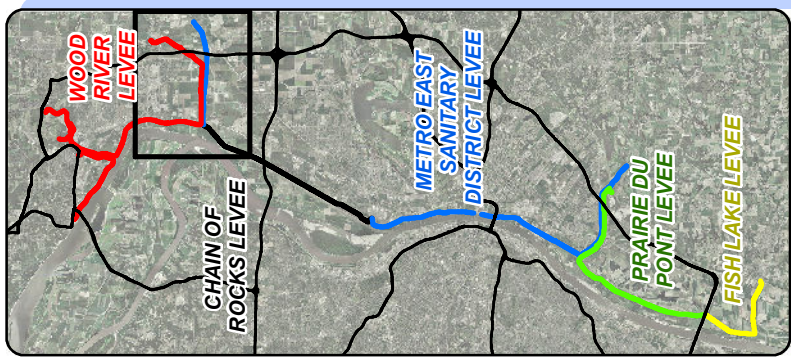
Two record flood events, in less than two years, confirm the need for the work the Council is completing for the 100-Year accreditation and the ultimately for the 500-Year Authorized Level of Protection.

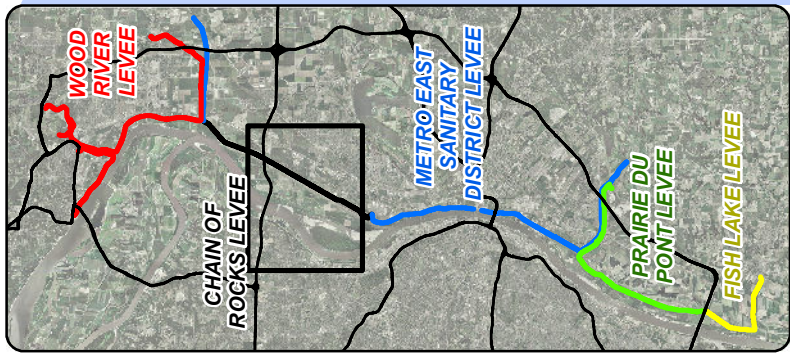
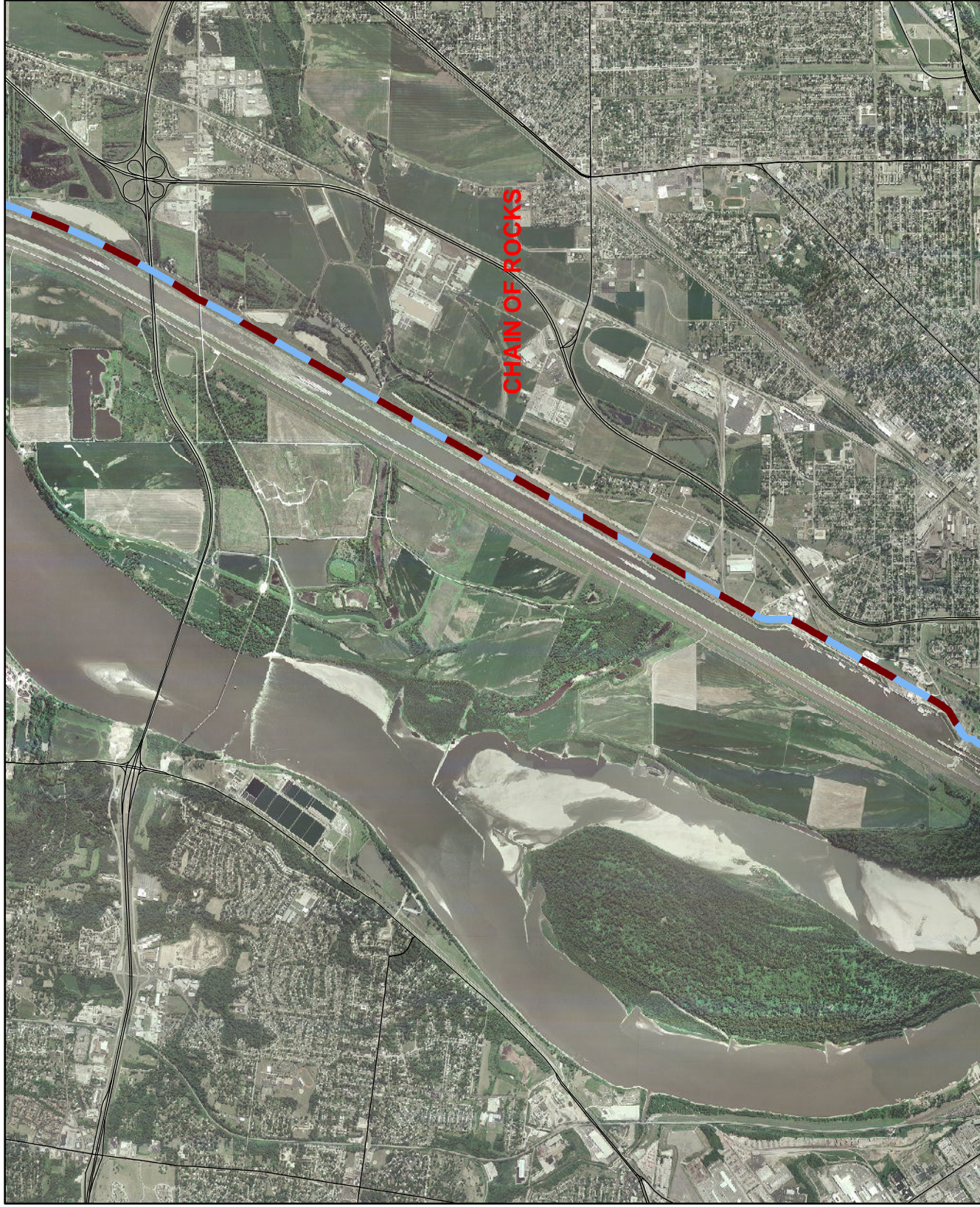
With the added 2015 bond issue revenue, the Council is able to pursue the ultimate goal of providing Authorized Level of Protection to the Metro-East. If the Corps of Engineers can obtain additional federal funding in FY 2019 and future years, the Authorized Level of Protection could be achieved twenty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

Appendix I

FEMA Certification Levee System Improvements



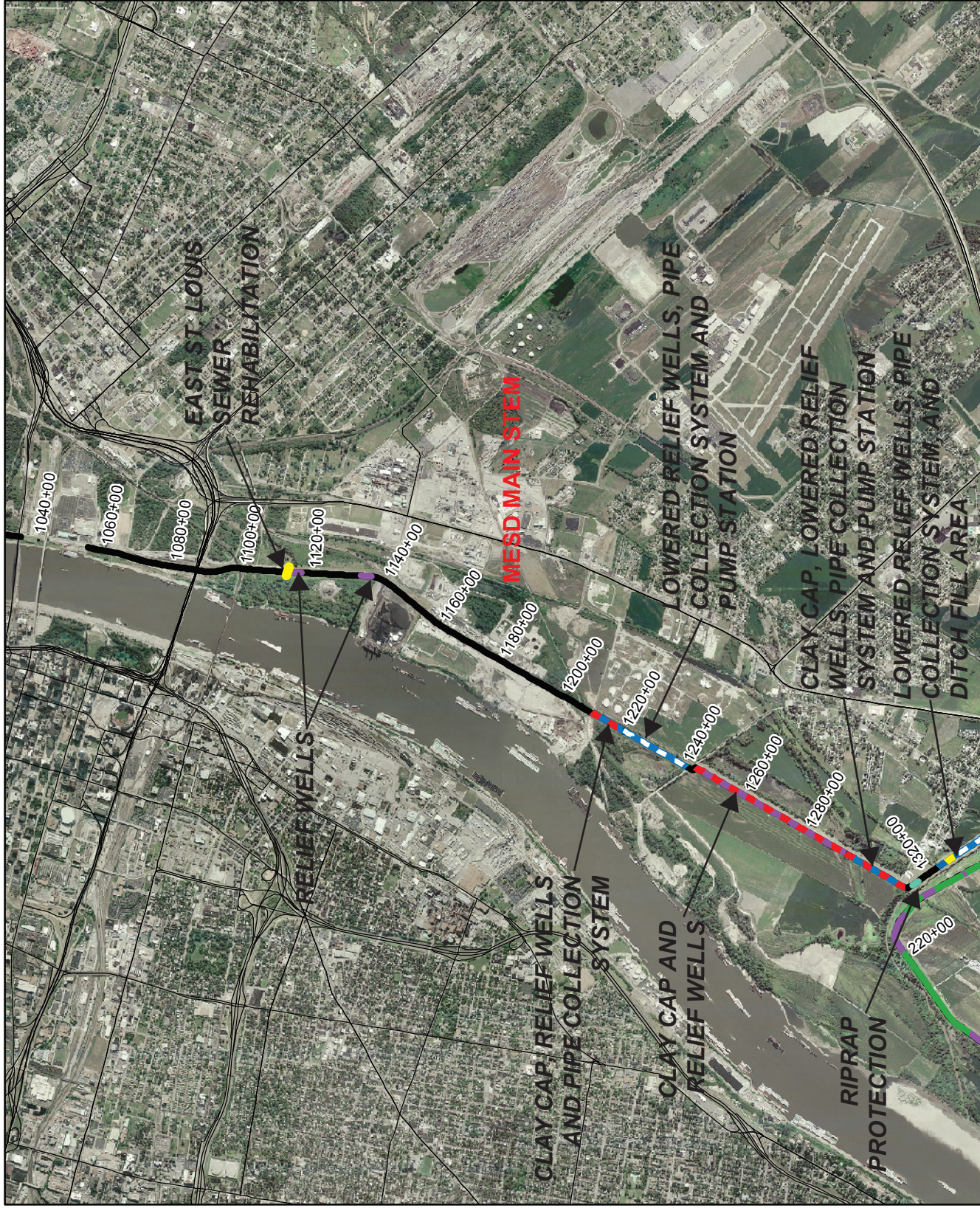
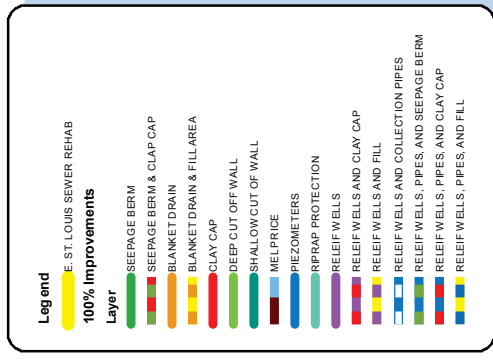
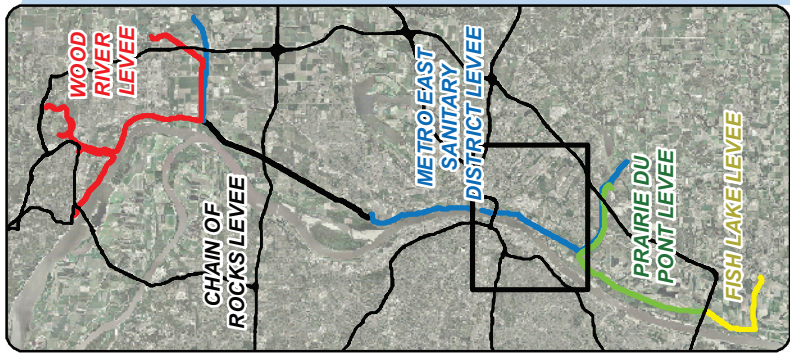




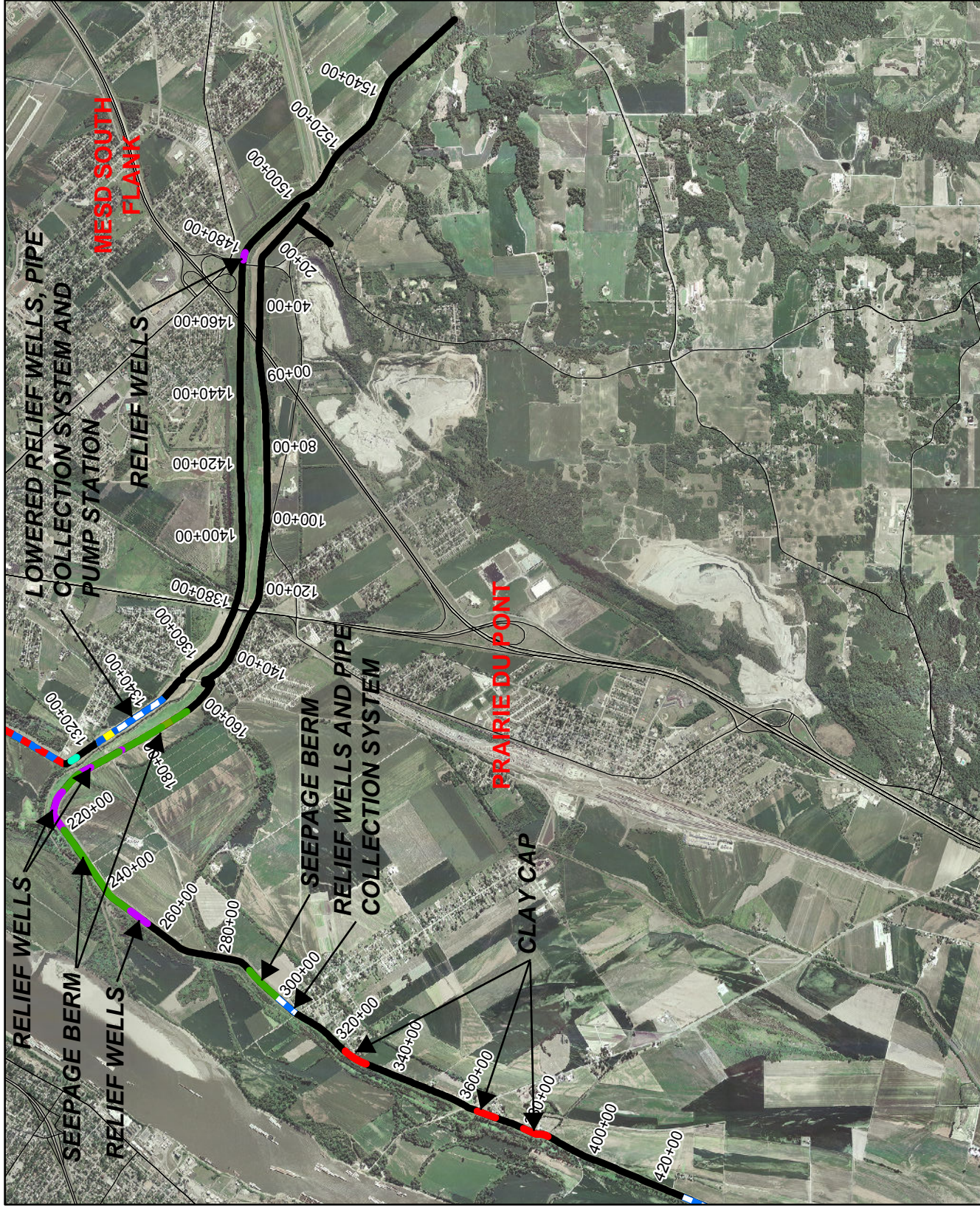
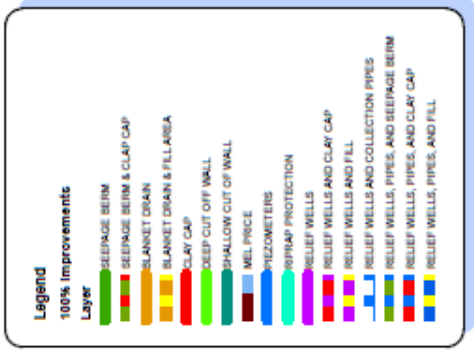
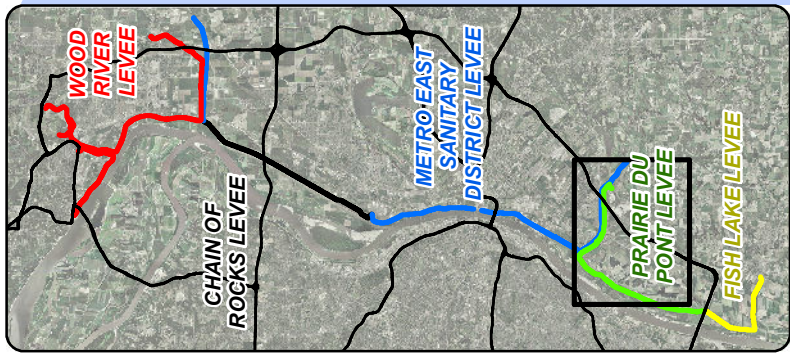
Legend

100% Improvements

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

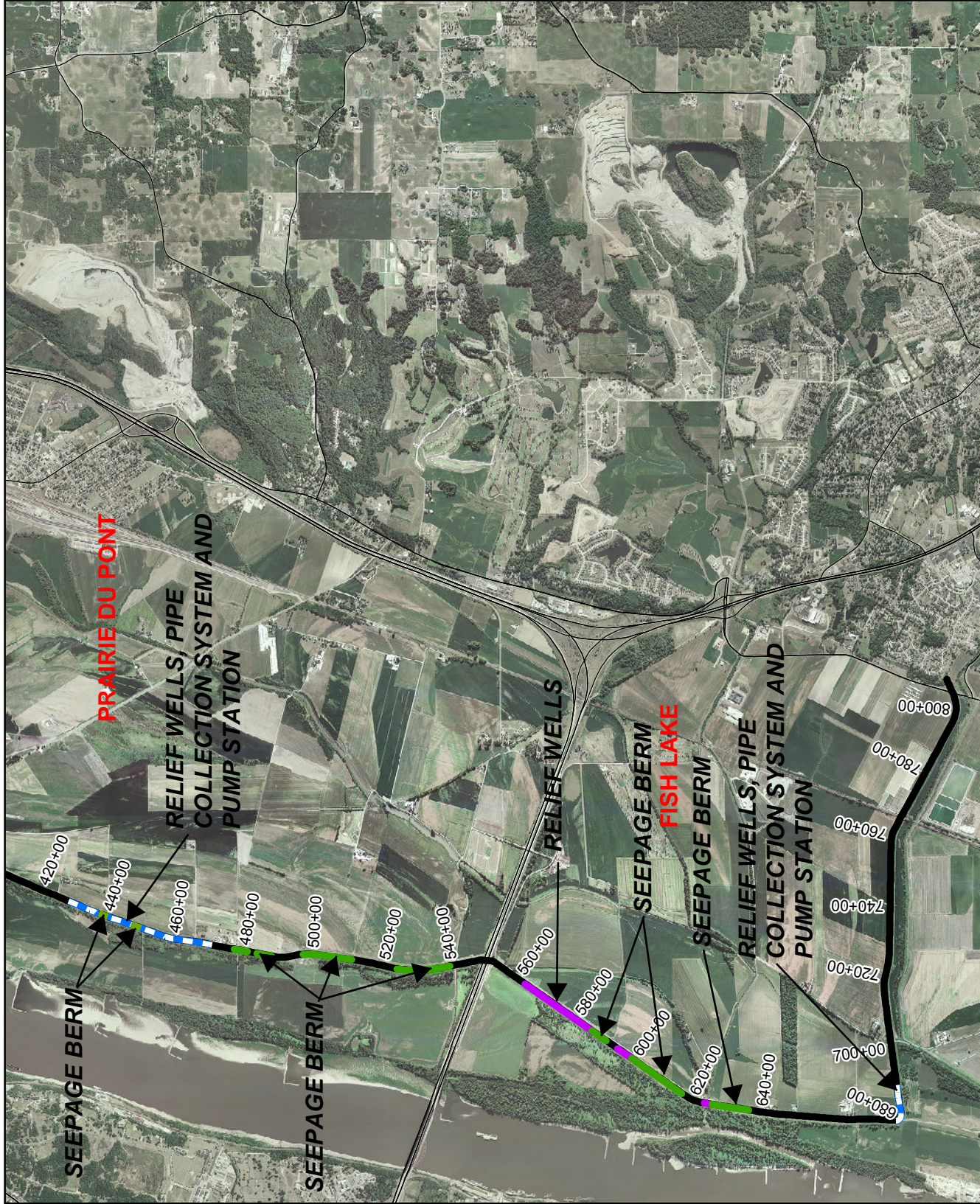
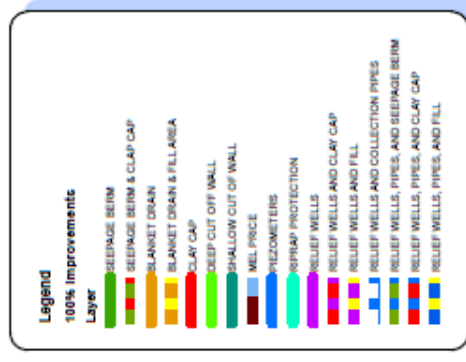
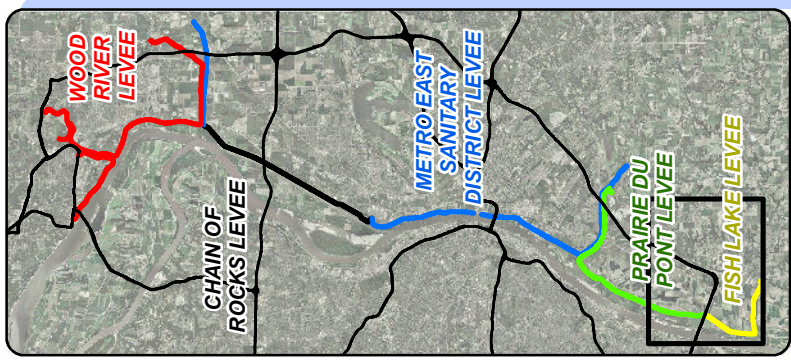


FEMA CERTIFICATION DESIGN - 100% SOLUTIONS
 METRO EAST SANITARY DISTRICT (MESD) LEVEE



FEMA CERTIFICATION DESIGN - 100% SOLUTIONS

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



Appendix II

Southwestern Illinois Flood Prevention District Council

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

Southwestern Illinois Flood Prevention District Council

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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


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

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

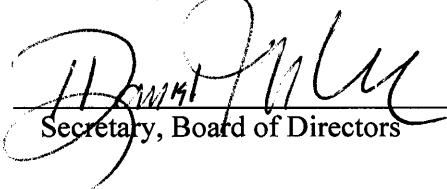
5. *Corps of Engineers Participation.* Notify the Corps of Engineers of the FPD's strategy and request that the Corps expedite projects that are 100% federally funded, such as the emergency design deficiency correction at the Melvin Price Locks and Dam, a project-that was identified as an emergency need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

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

This resolution was approved February 18, 2015.



President, Board of Directors



Secretary, Board of Directors

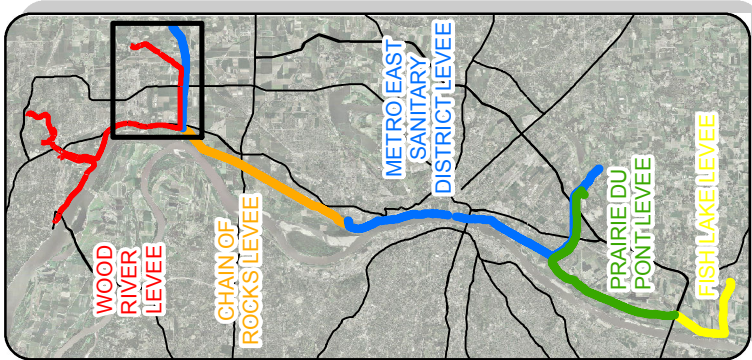
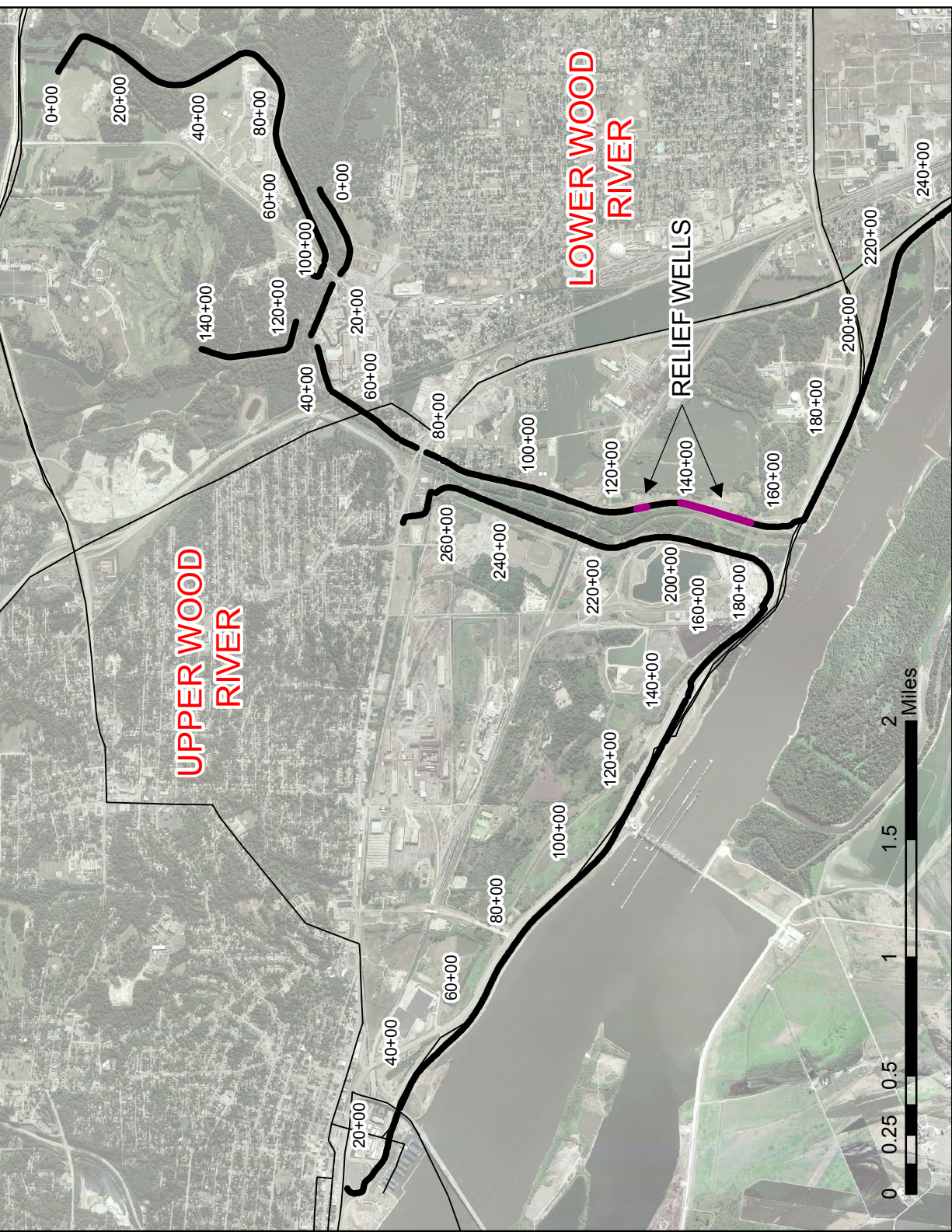
Appendix III

Proposed 500-Year Authorized Level Levee System Improvements

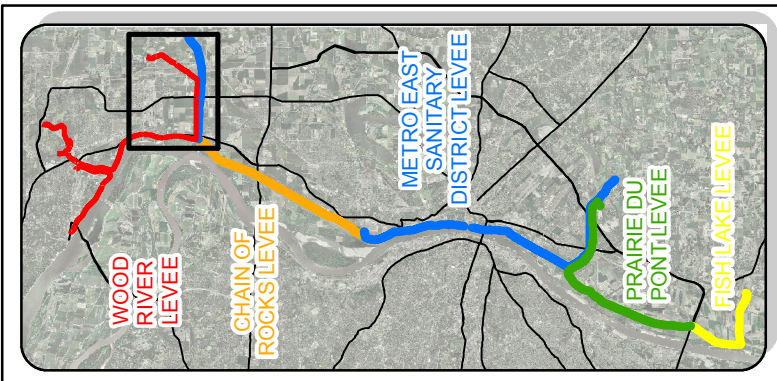
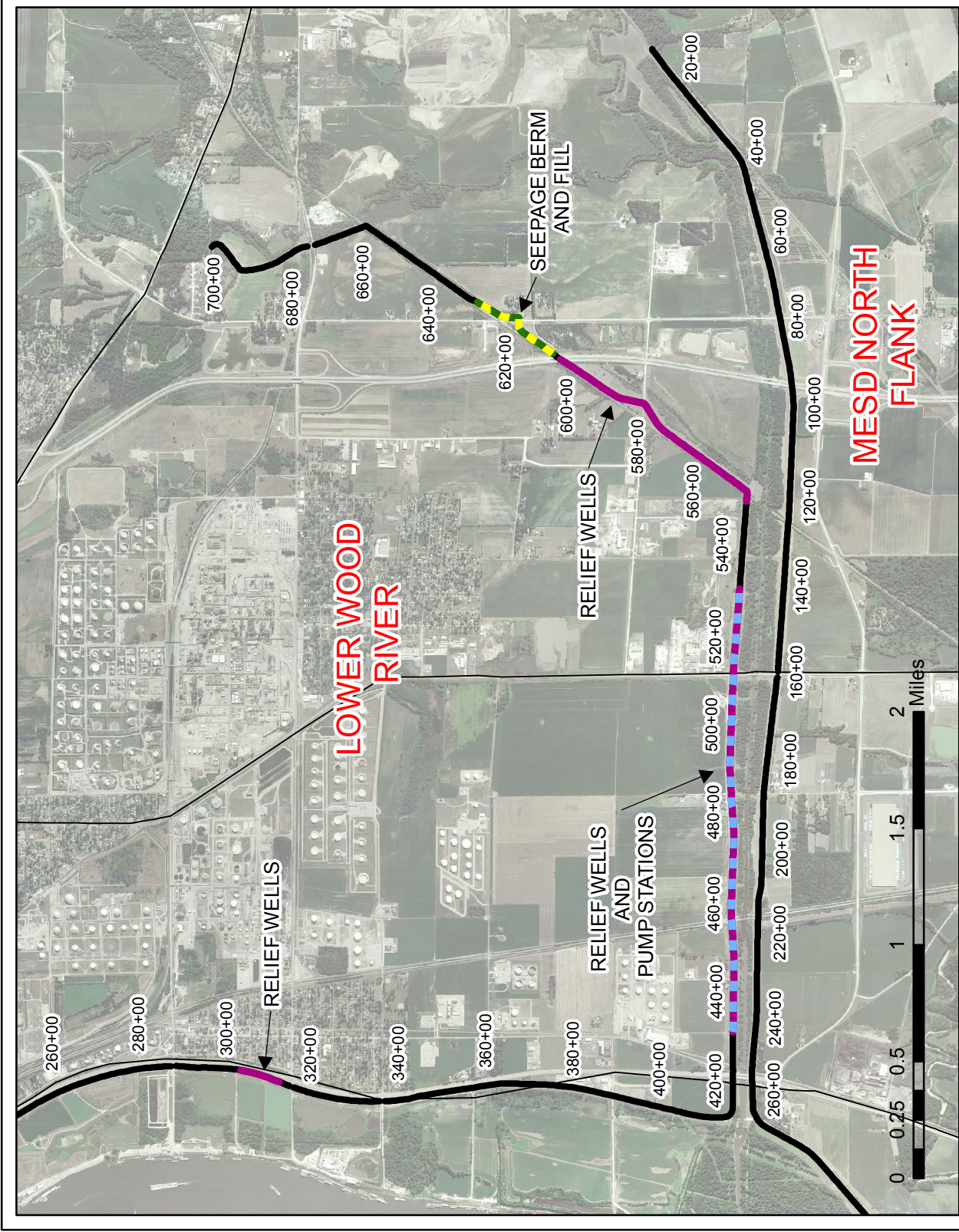
Wood River Levee System

Metro East Sanitary District (MESD) Levee System

Prairie Du Pont/Fish Lake Levee System



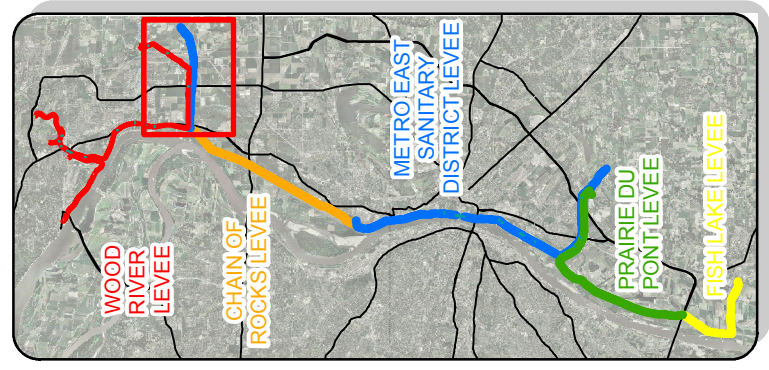
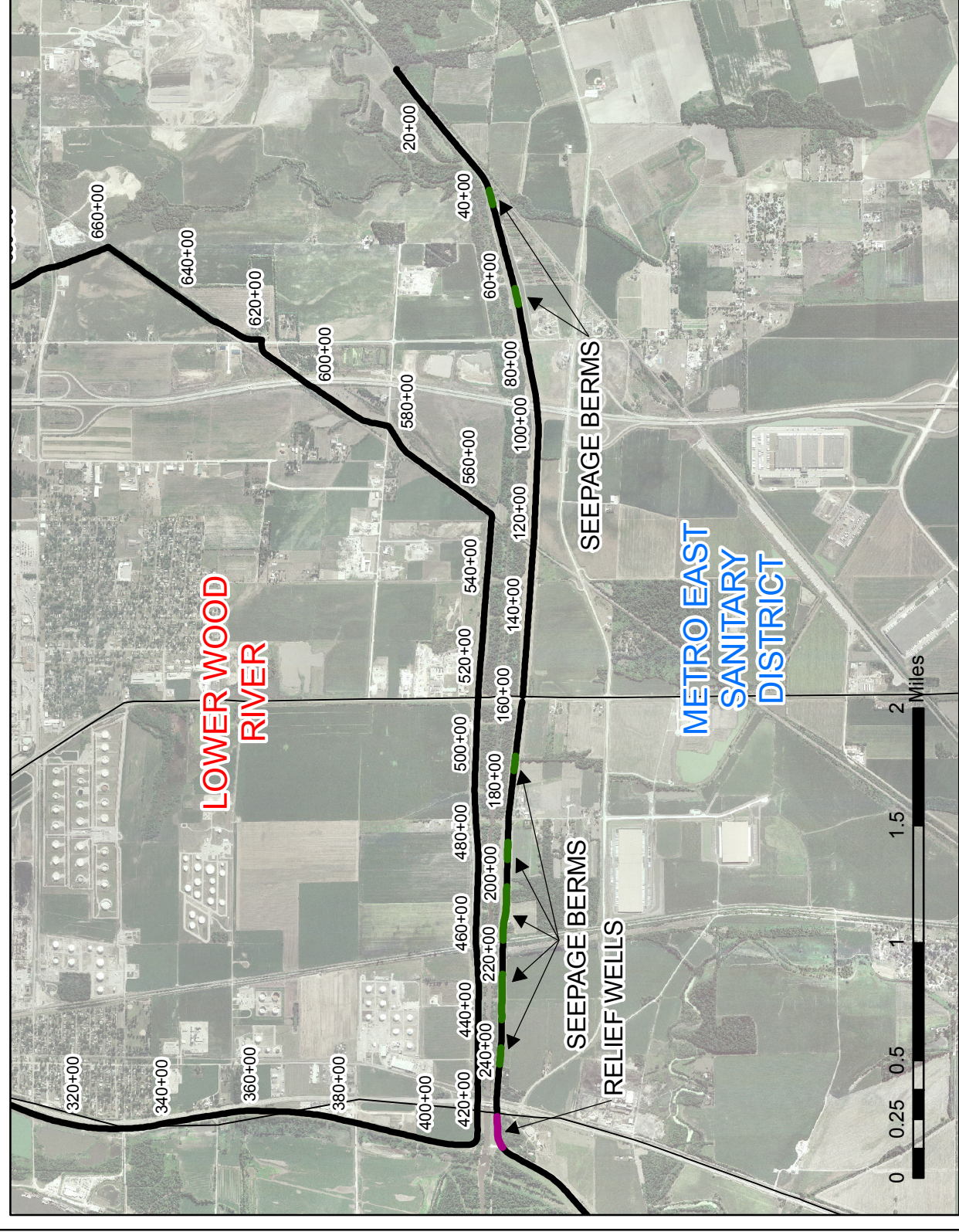
AUTHORIZED LEVEL DESIGN WOOD RIVER LEVEE



AUTHORIZED LEVEL DESIGN

METRO EAST SANITARY DISTRICT LEVEE

8/11/16



Legend

Layer

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



AUTHORIZED LEVEL DESIGN

METRO EAST SANITARY DISTRICT LEVEE

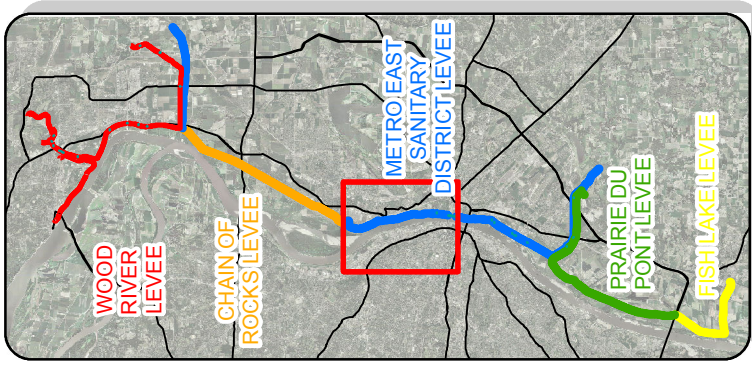
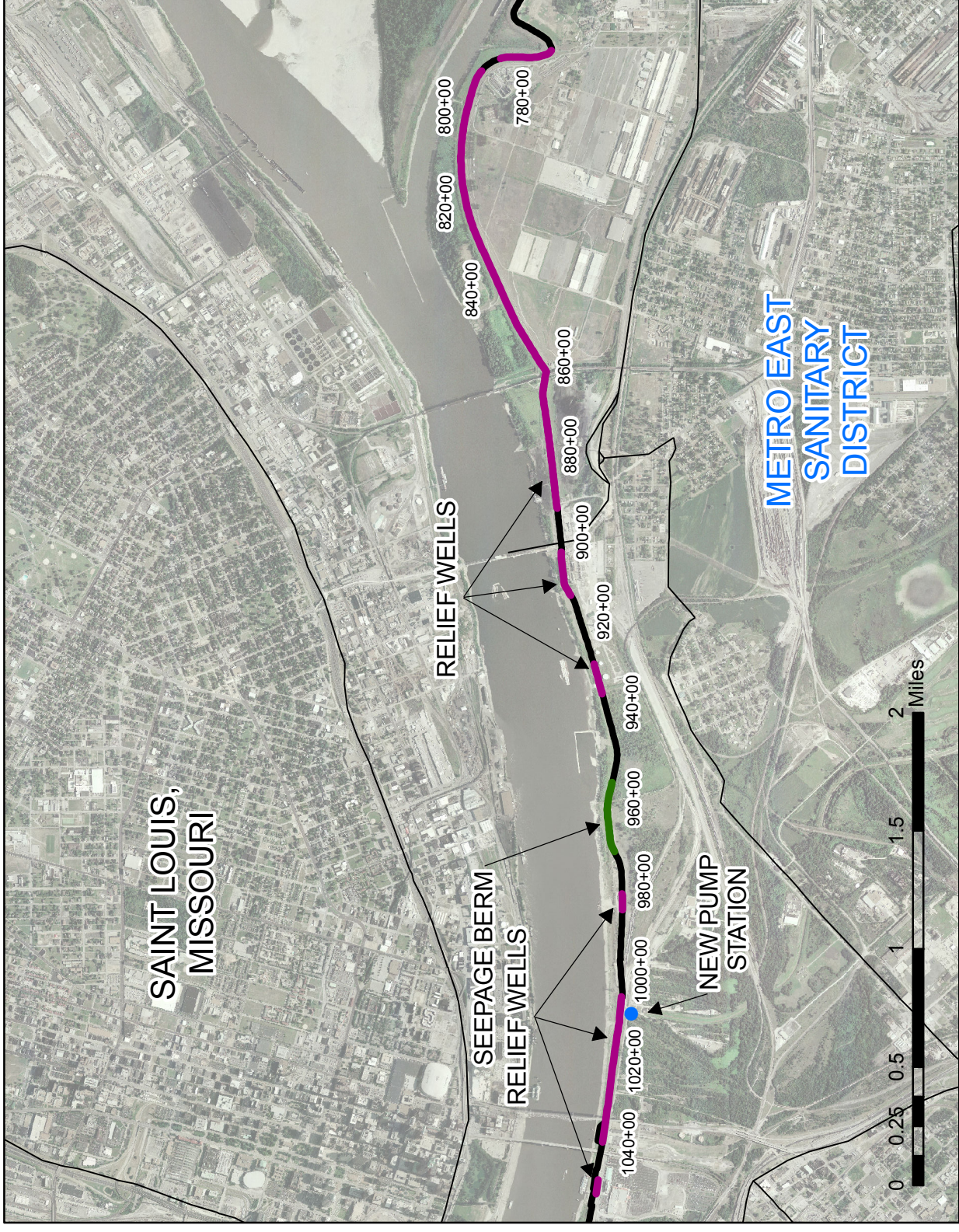
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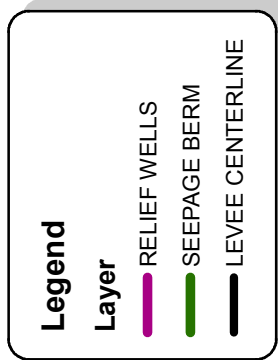
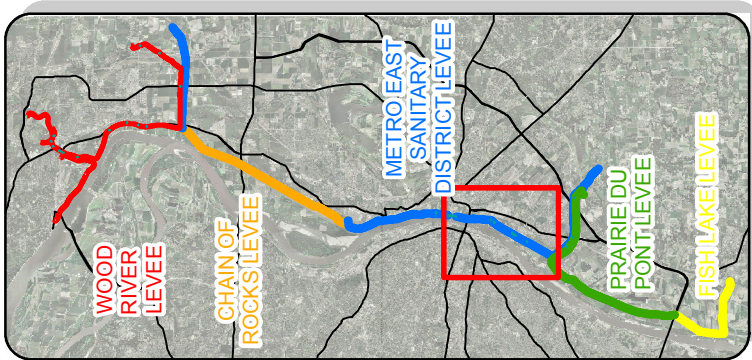
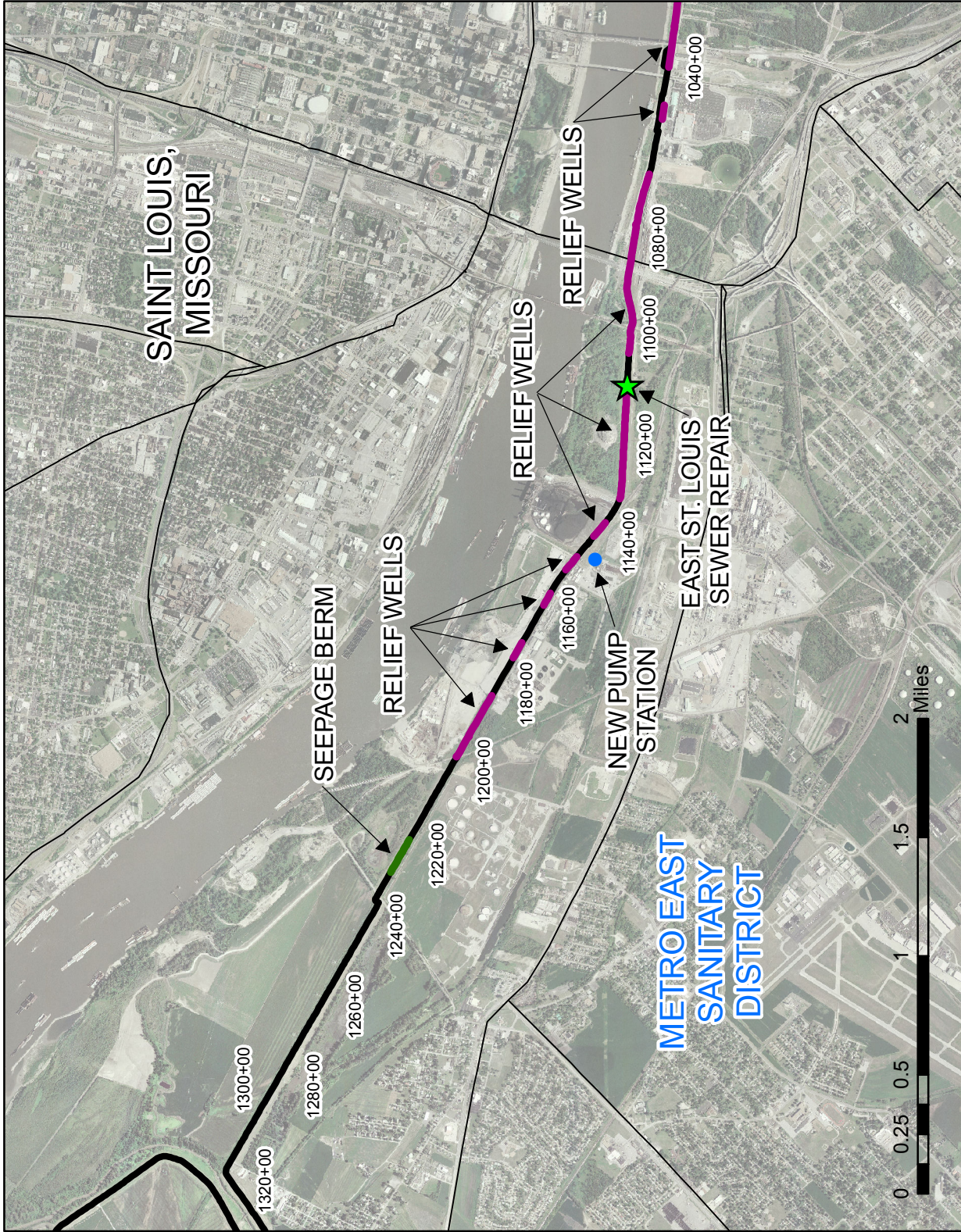


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Layer

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

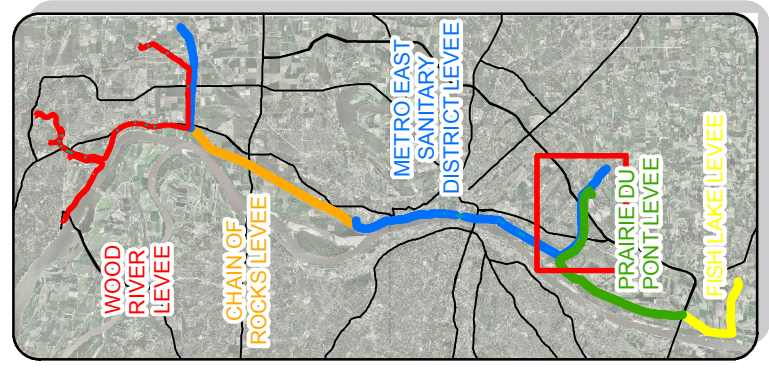
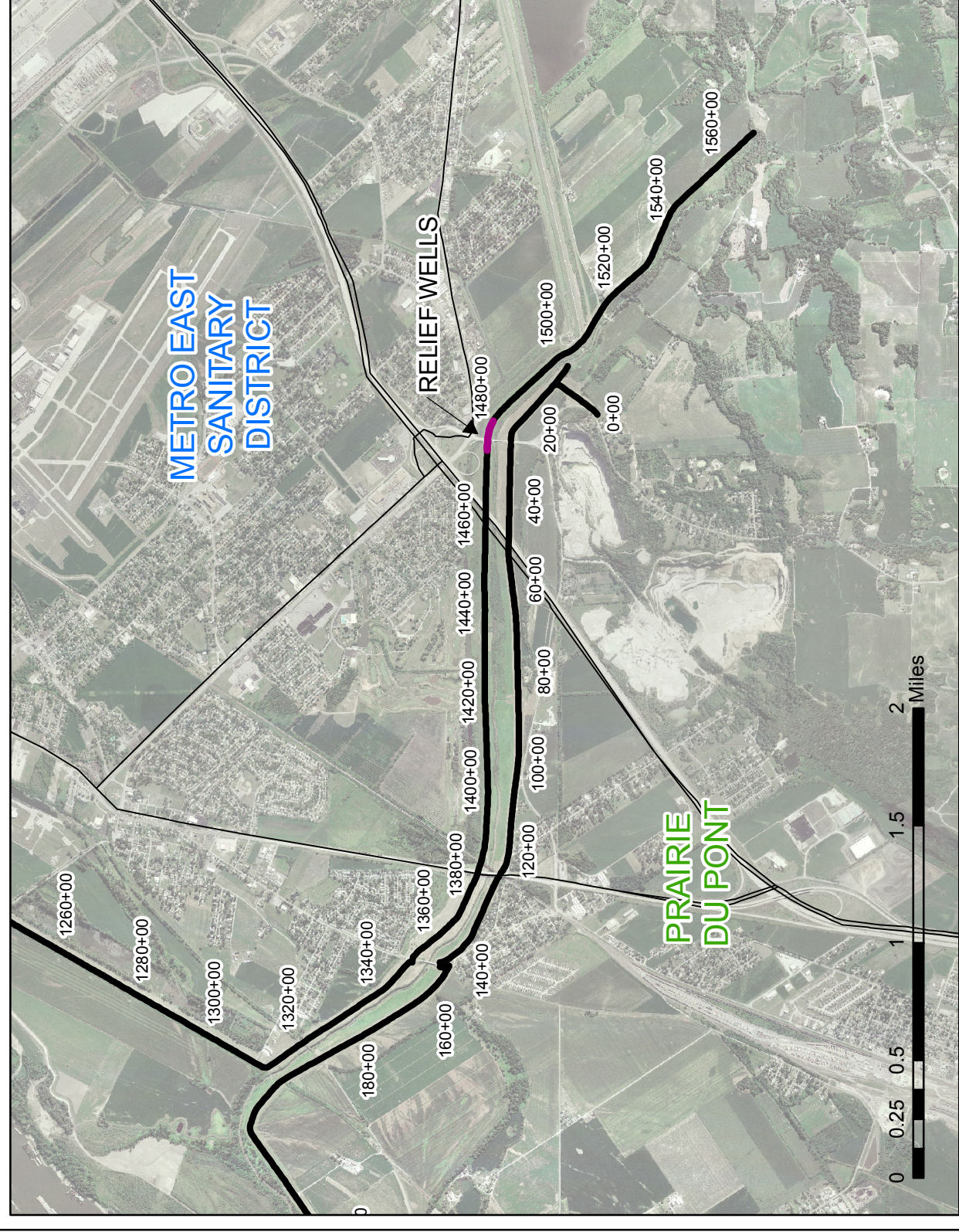




AUTHORIZED LEVEL DESIGN

METRO EAST SANITARY DISTRICT LEVEE

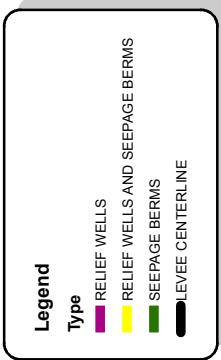
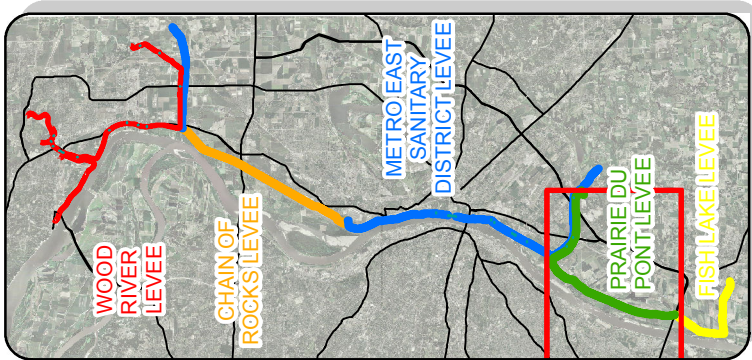
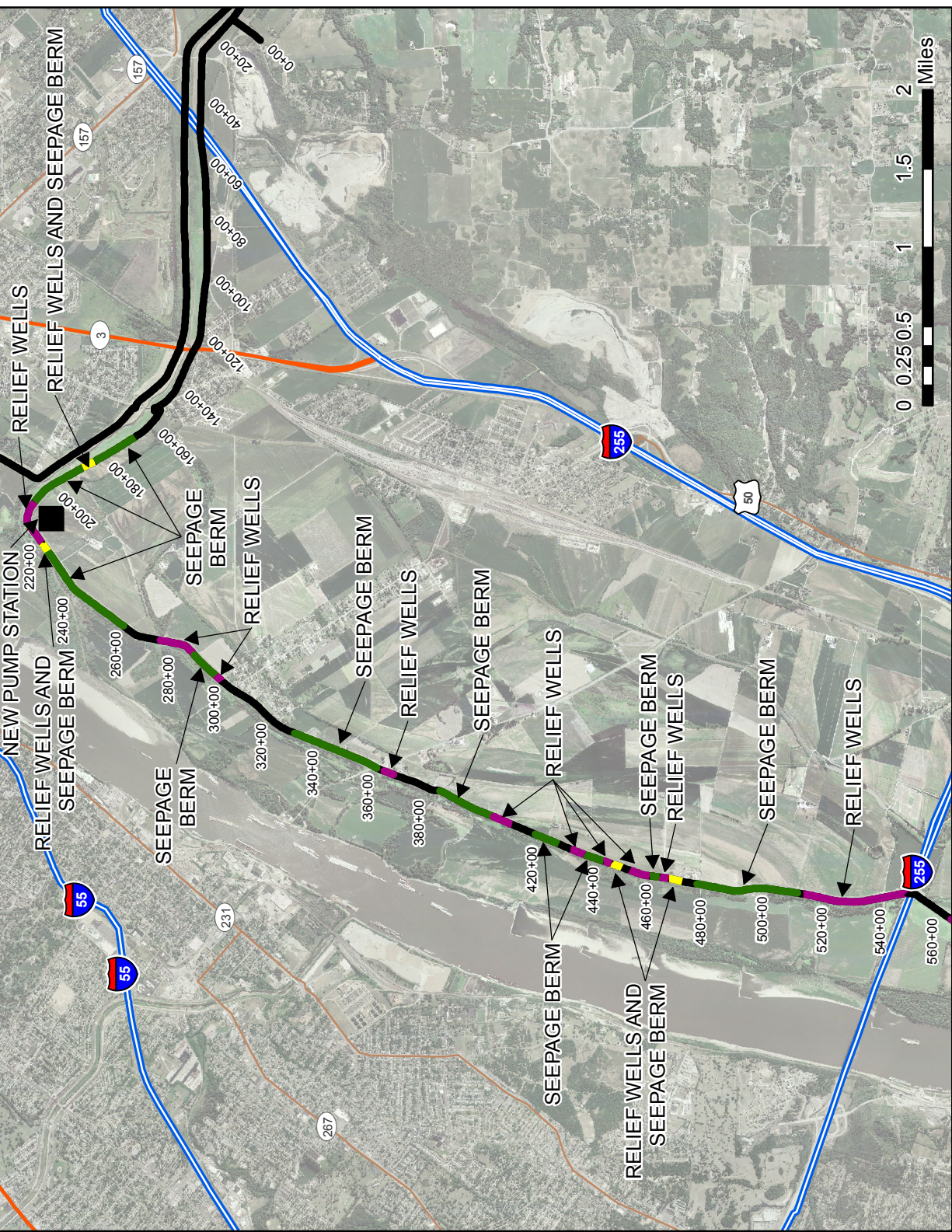
8/11/16



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Layer		RELIEF WELLS
		SEEPAGE BERM
		LEVEE CENTERLINE





AUTHORIZED LEVEL DESIGN

PRAIRIE DU PONT (PDP) LEVEE





Memo to: Board of Directors

From: Chuck Etwert

Subject: Change Order BP #7B

Date: August 14, 2017

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.

At last month's meeting, to keep on schedule for obtaining FEMA certification, Amec Foster Wheeler was asked to work with the contractor on Bid Package #7B to develop an alternate dewatering solution for the four remaining relief wells still needing to be installed. Amec Foster Wheeler will be presenting the following change order for Bid Package #7B at the meeting.

Bid Package 7B – Relief Well Drilling Alternate Solution – \$148,674.63

The contractor is required by contract to establish and maintain a minimum 7-foot of head differential in the drill hole above the piezometric level in the sand aquifer. Typically, this head differential is accomplished naturally due to low groundwater elevations or by building relatively small drilling platforms out of aggregate that are removed upon surface completion of the well. Currently, the contractor has 4-foot tall drilling platforms set-up on two of the four remaining relief wells. Three relief wells in this contract have been installed with similar platforms so their plan was to complete two relief wells and recycle the aggregate to build the remaining drilling platforms.

In order to expeditiously complete this contract, the contractor has proposed building large drilling platforms at all four of the remaining relief well locations. The two platforms that are currently built will be extended by an additional 4-feet and the other two will be built full height to 8-feet above existing ground surface. Increasing the platform height will increase the head differential as well as

establish nearly all-weather access to the site, thus greatly increasing the chance of successful installation.

Currently, the river elevation is trending downward toward the target elevation of 402.0. However, as noted in previous meetings, the irregularity of river elevations in the last 12 months has prohibited installation of the remaining relief wells to this point due to the lack of head differential and access to the site. It is the recommendation of Amec Foster Wheeler to preemptively construct the platforms in the event the river elevation reaches an unworkable elevation yet again.

Recommendation:

Authorize the Chief Supervisor to approve the requested change order for Bid Package 7B – Relief Well Drilling Alternate Solution in the amount of \$148,674.63 with TREVIICOS South.

The board has asked to stay informed of upcoming change orders that may be presented; the following list summarizes change orders that are being negotiated, being finalized, awaiting additional information from the contractor, or awaiting completion of a construction item:

Pending Change Orders:

Bid Package 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 7B – Relief Well 1038D Abandonment

A change order may be necessary to abandon a failed relief well installation.



Memo to: Board of Directors
From: Chuck Etwert
Subject: Prairie Du Pont/Fish Lake Authorized Level Project Summary Report
Amec Foster Wheeler Environment & Infrastructure
Date: August 14, 2017

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 Summary Reports of the Authorized Projects for each of the Levee Systems in the Metro-East.

In August 2016, the Council accepted Amec Foster Wheeler's Summary Report of the Authorized Projects in the Prairie Du Pont/Fish Lake Levee System Phase I.

The Corps of Engineers has recently completed their re-analysis of the Levee System where the Council has constructed 100-Year Level Improvements, allowing Amec Foster Wheeler to now complete the Authorized Level Project Summary Report for the Prairie Du Pont/Fish Lake Levee System.

Similar Summary Reports for the Wood River Levee System and the Metro East Sanitary District Levee System were presented and accepted in 2015.

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.

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

Recommendation: Accept Amec Foster Wheeler's Prairie Du Pont/Fish Lake Authorized Level Project Summary Report dated August 16, 2017.

Prairie du Pont/Fish Lake Authorized Level Project Summary Report

Prepared for



Prepared by



August 16, 2017

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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).

Prairie du Pont / Fish Lake Levee System

This report covers all of the Prairie du Pont/Fish Lake (PdP/FL) Levee System, including both Phase I and Phase II underseepage solutions.

USACE Authorized Level Project

The USACE St. Louis District has provided Amec Foster Wheeler and the FPD Council a series of five memorandums that document proposed Authorized Level solutions. Each memo discusses specific reaches (decision segments). The five memos provided (dated 3/15/2016, 4/11/2016, 6/16/2016, 6/30/2017, and 7/26/2017) constitute the completed Authorized Level Project at this time. No further underseepage solutions are expected to be recommended by USACE.

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 2017, and follow the 2012 USACE Limited Reevaluation Report (LRR) for PDP/Fish Lake Levee System. At the time the LRR was completed, none of the FPD Council's FEMA improvements had been 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 three bid packages for construction be developed. The quantity of seepage berm material is anticipated to be extremely large; therefore, we anticipate that a contractor will be needed to dredge the Mississippi River to obtain the volume of sand that will be required. 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. It can also 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. With those considerations, the bid packages were broken up by levee system and then also by county limits, resulting in three relatively large construction packages. 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 three bid packages have been named Bid Package 15, Bid Package 16, and Bid Package 17 which are 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 packages are as follows:

- ▶ Bid Package 15 includes the portion of improvements along the Prairie du Pont levee system that is within St. Clair County limits (levee station 167+65 to 435+00). This package includes the abandonment of 53 existing relief wells, construction of 10 new seepage berms, 57 new relief wells, and the construction of a new levee pump station at station 209+13.
- ▶ Bid Package 16 includes the portion of improvements on the Prairie du Pont levee system that spans from the St. Clair/Monroe County line south to Interstate 255 (levee station 435+00 to 550+00). This package includes the abandonment of 37 existing relief wells, construction of 7 new seepage berms, and 40 new relief wells.
- ▶ Bid Package 17 includes the portion of improvements on the Fish Lake levee system which spans from Interstate 255 to the end of the southern flank (levee station 550+00 to 809+35). This package includes the abandonment of 47 relief wells, construction of 6 new seepage berms, 71 new relief wells, and the construction of a larger pump station at levee station 691+00.

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 recommended for the Authorized Level project in the PdP/FL levee system.
- All seepage berms recommended for the Authorized Level project in the PdP/FL levee system.

Subsurface investigations of:

- All relief wells recommended for the Authorized Level project in the PdP/FL levee system.
- All seepage berms recommended for the Authorized Level project in the PdP/FL levee system.

Design, Permitting, and Bid Phase Services of:

- All relief wells recommended for the Authorized Level project in the PdP/FL levee system.
- All seepage berms recommended for the Authorized Level project in the PdP/FL levee system.
- All pump stations recommended for the Authorized Level project in the PdP/FL levee system.

3. Schedule

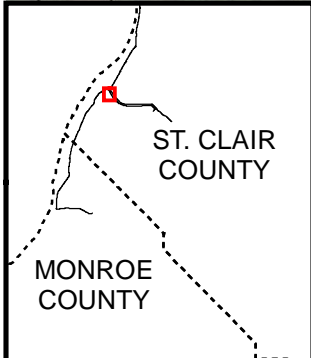
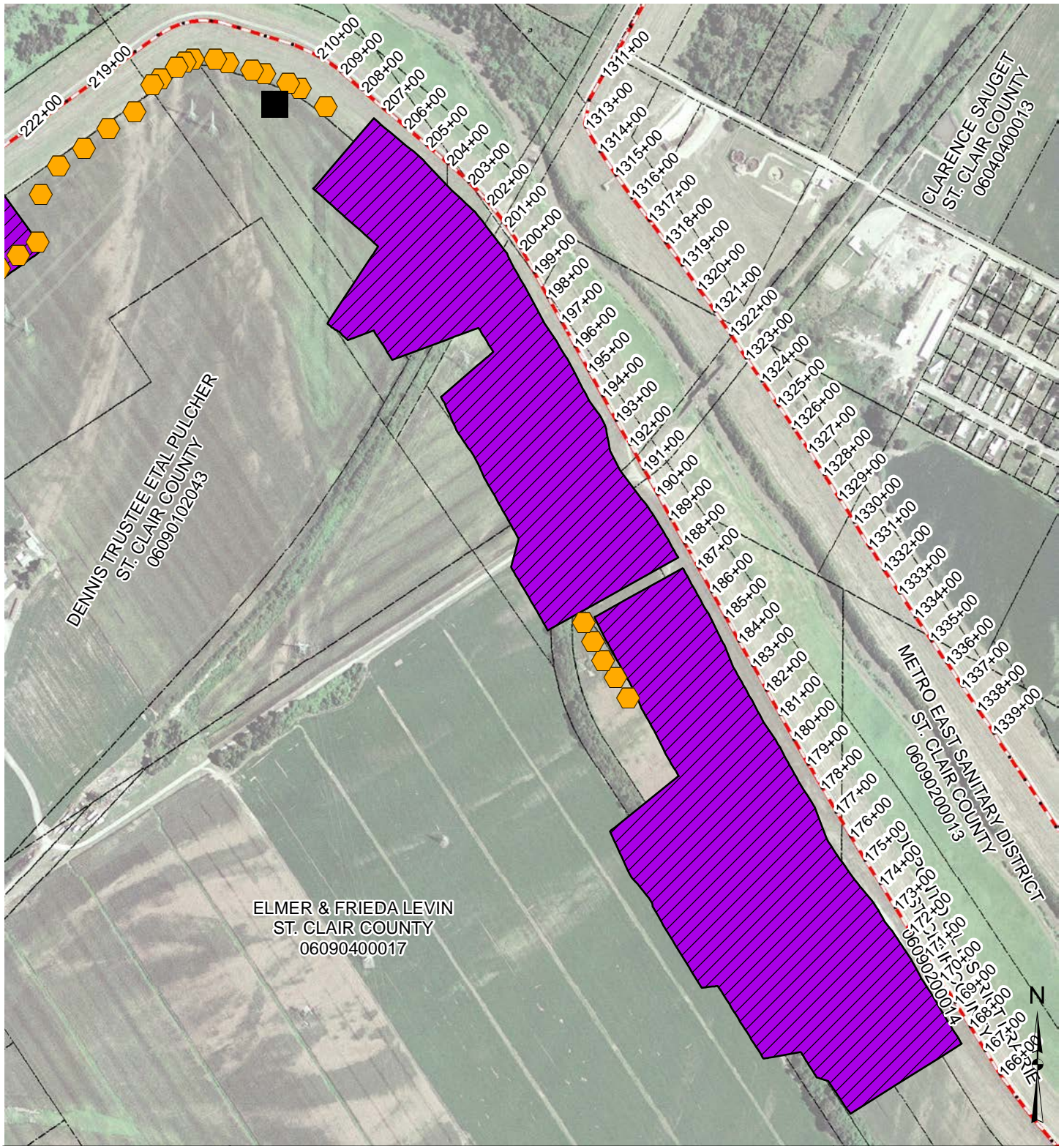
Upon Board approval of this Plan, Amec Foster Wheeler will develop a scope, schedule, and budget cost for the completion of field activities and design for the Bid Packages referenced herein and commence work on a boring plan for subsurface investigations throughout PdP/FL. If approved, the scope, schedule, and budget cost for geotechnical analyses, field work (including drilling), engineering,

permitting, and bid phase services, will be presented at the September 2017 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. This translates to the FPD Council having more control over the design and construction schedules for PdP/FL, and therefore lower risk relative to both Wood River and MESD.

Appendix 1 – Bid Package / Design Reach Exhibits



USACE Authorized Level of Protection Planning and Analysis

BID PACKAGE 15

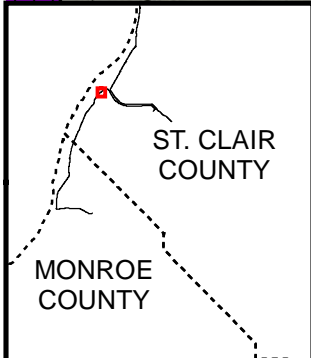
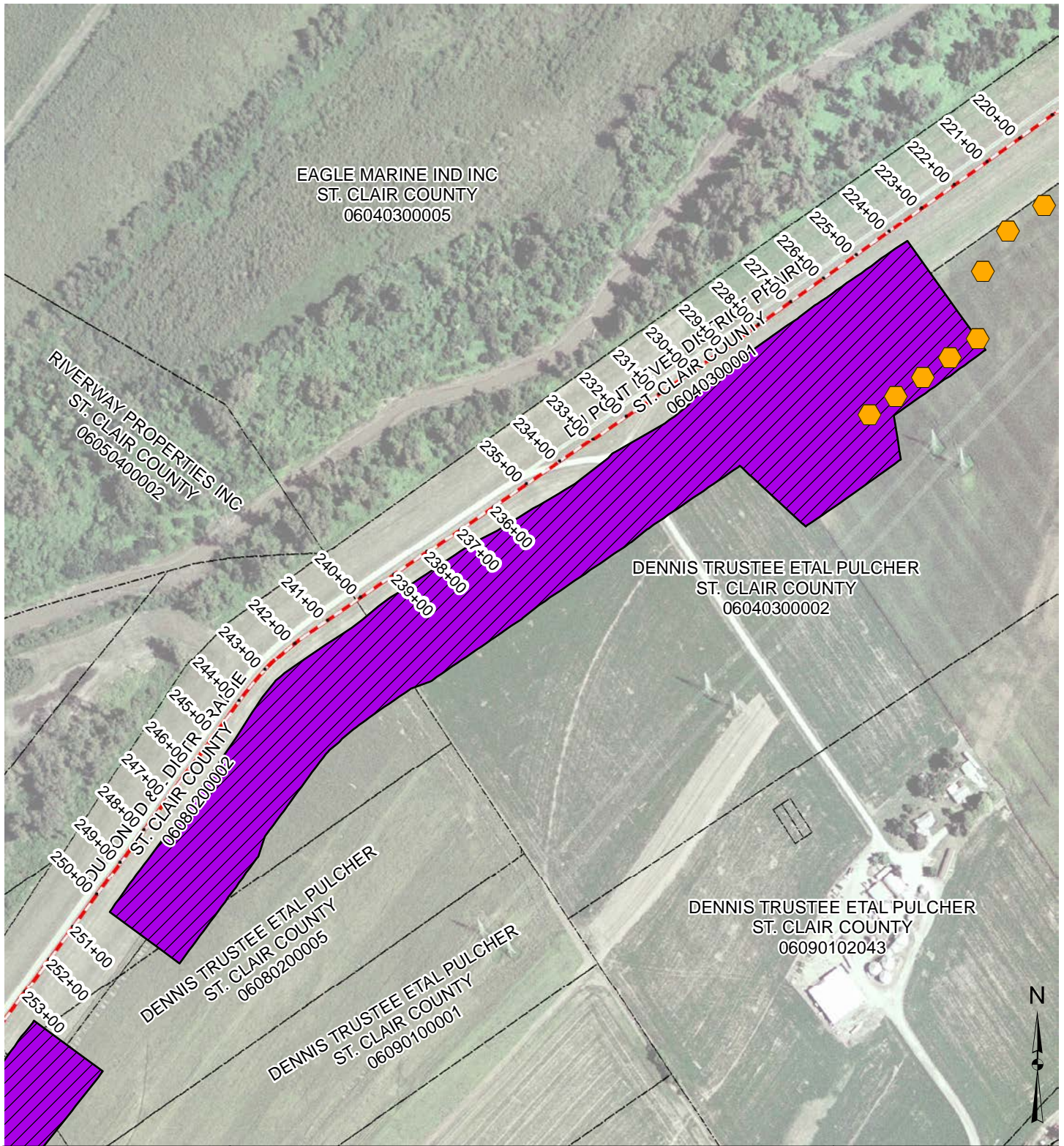
PDP LEVEE SYSTEM

DESIGN STA: 167+65 TO 223+00

08/16/2017 SHEET 1 OF 16

Legend

- Pump Station
- Relief Well
- Seepage Berm



USACE Authorized Level of Protection Planning and Analysis

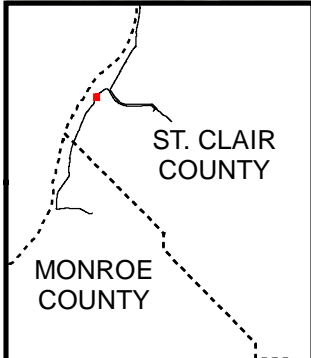
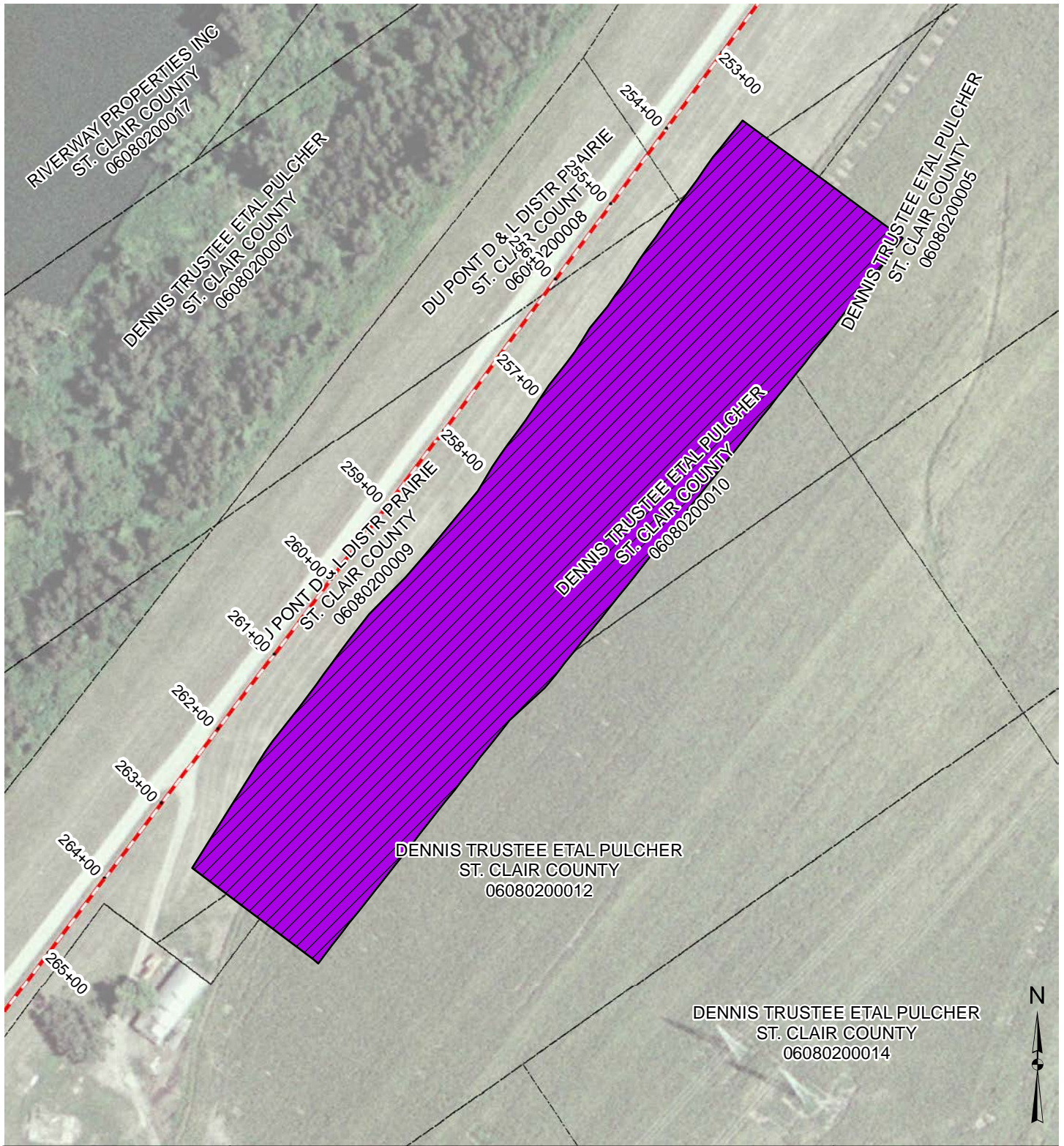
BID PACKAGE 15

PDP LEVEE SYSTEM

DESIGN STA: 223+75 TO 250+15

08/16/2017 SHEET 2 OF 16

Legend	
■	Pump Station
⬡	Relief Well
▨	Seepage Berm



USACE Authorized Level of Protection Planning and Analysis

BID PACKAGE 15

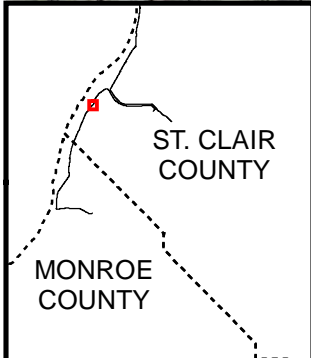
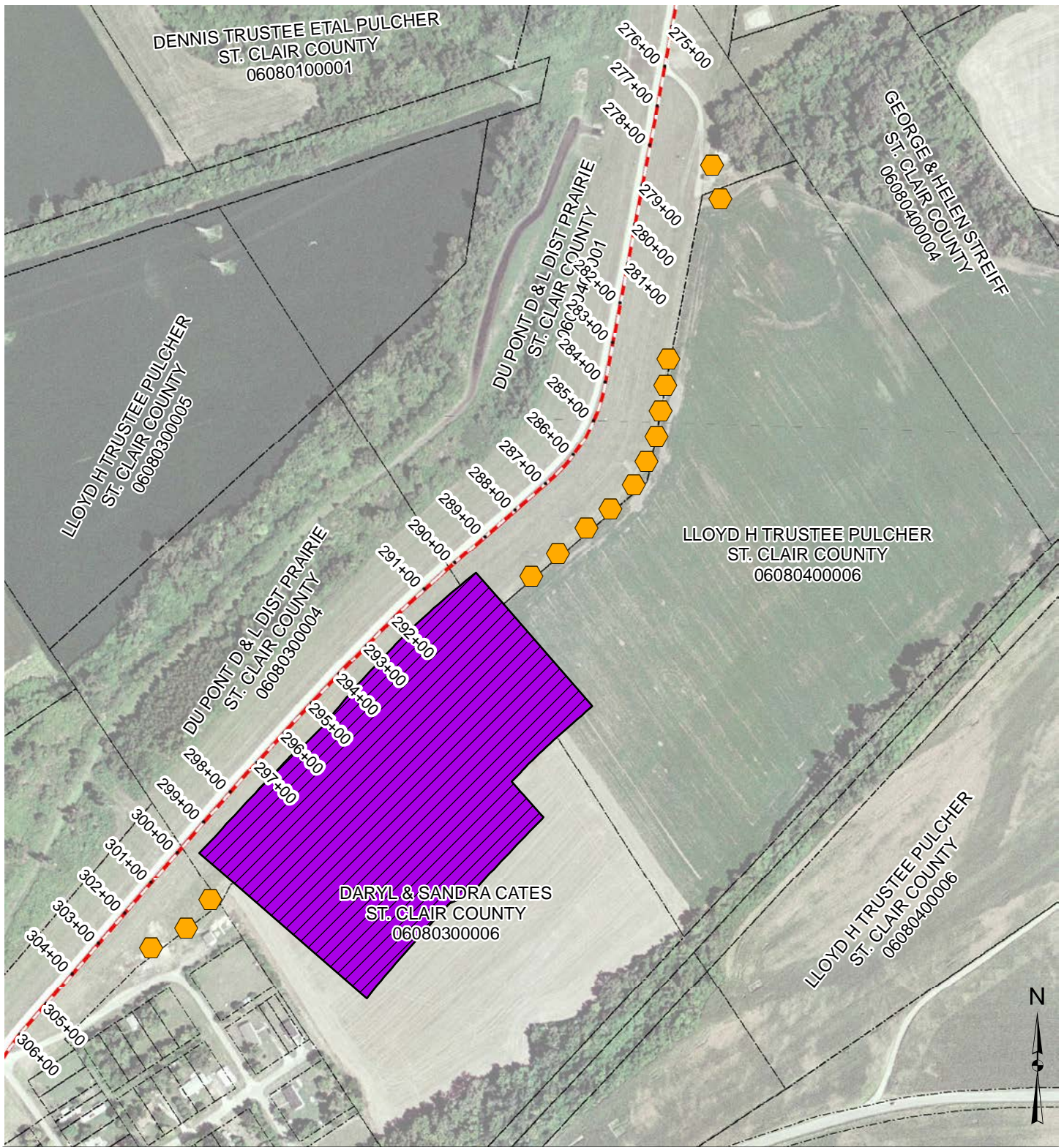
PDP LEVEE SYSTEM

DESIGN STA: 253+45 TO 260+05

08/16/2017 SHEET 3 OF 16

Legend

- Pump Station
- Relief Well
- Seepage Berm






USACE Authorized Level of Protection Planning and Analysis

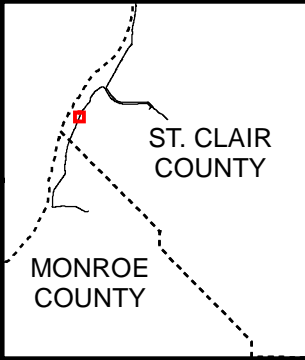
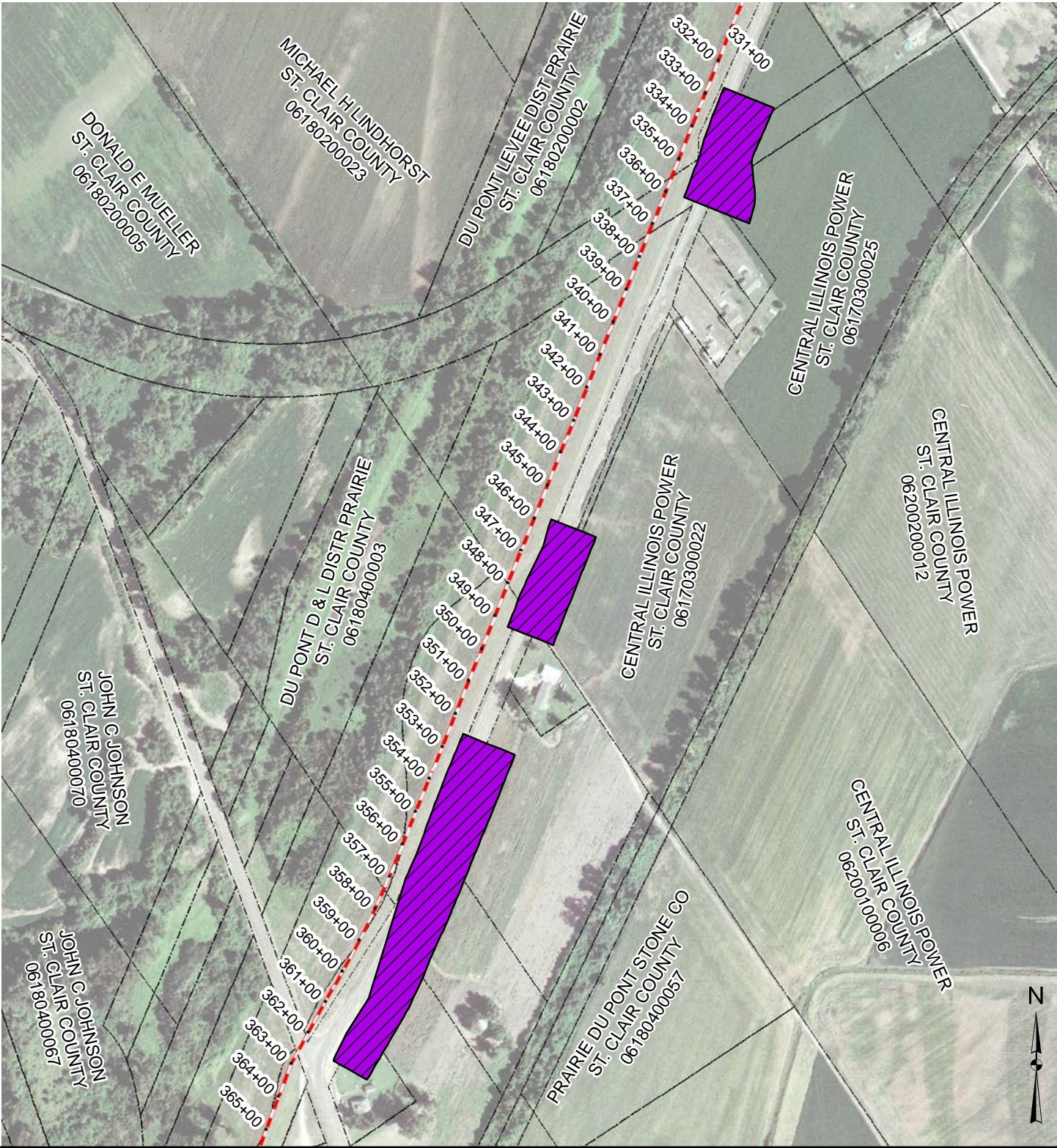
BID PACKAGE 15

PDP LEVEE SYSTEM

DESIGN STA: 278+25 TO 302+50

08/16/2017
SHEET 4 OF 16

Legend	
	Pump Station
	Relief Well
	Seepage Berm






USACE Authorized Level of Protection Planning and Analysis

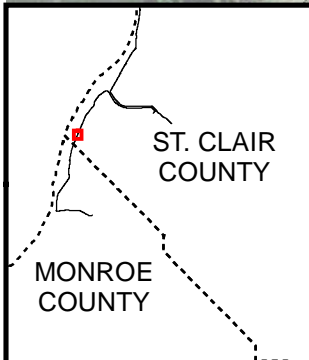
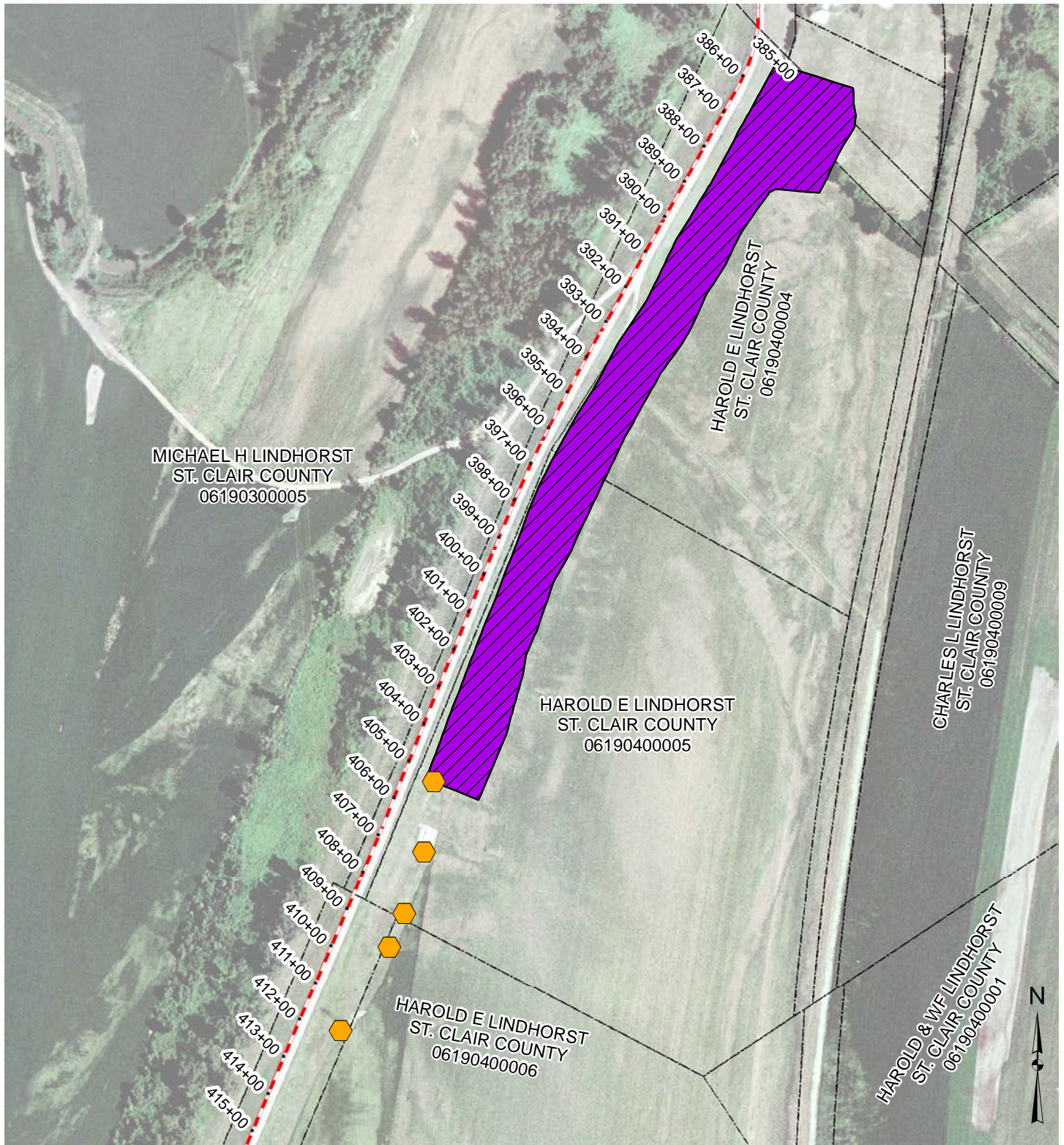
BID PACKAGE 15

PDP LEVEE SYSTEM

DESIGN STA: 332+65 TO 362+35




08/16/2017 SHEET 5 OF 16

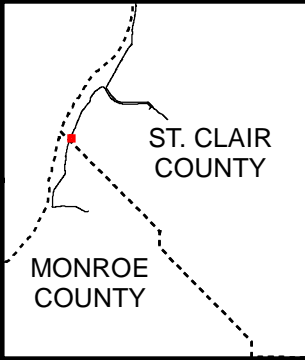
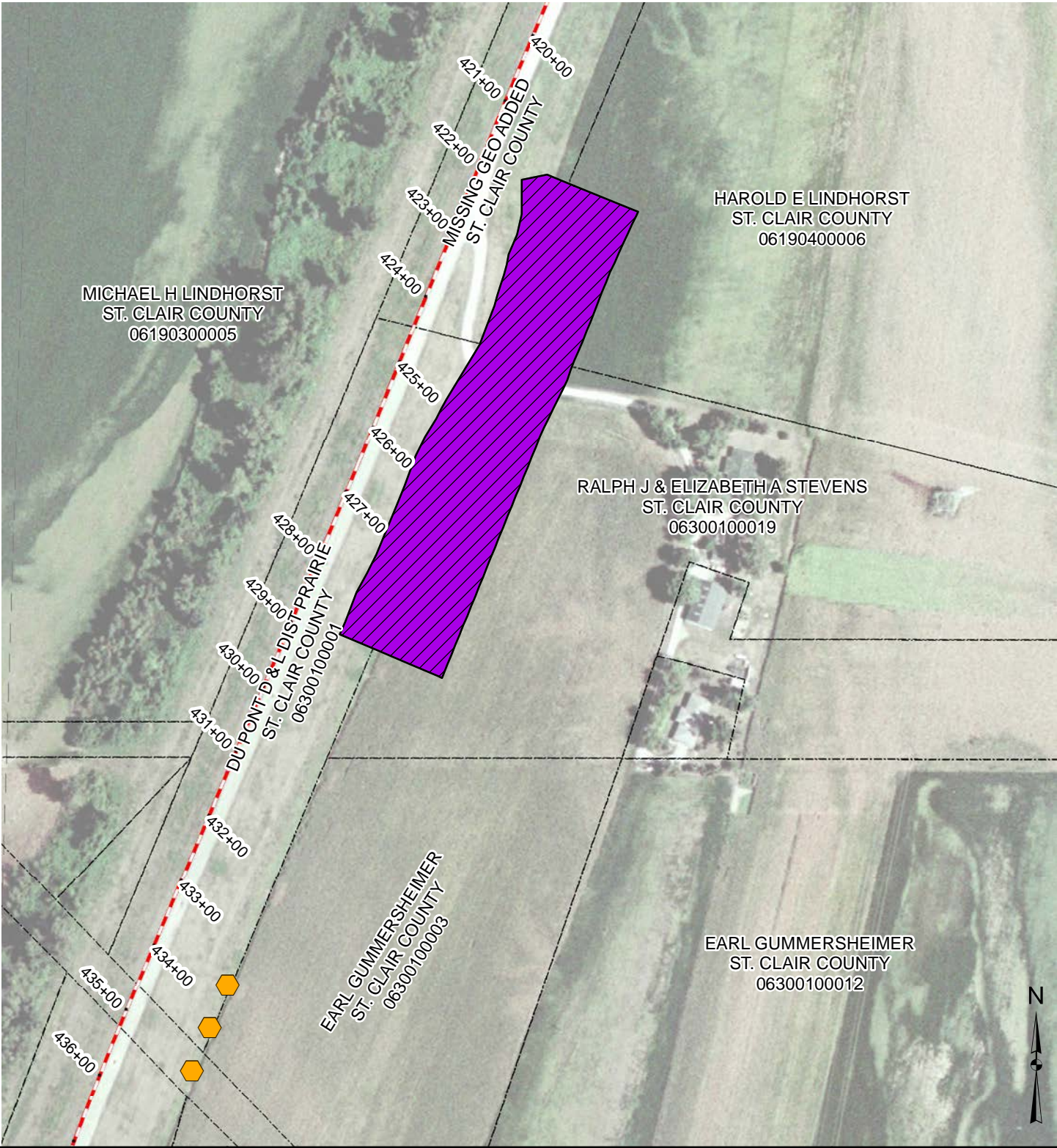
Legend	
	Pump Station
	Relief Well
	Seepage Berm



USACE Authorized Level of Protection Planning and Analysis
BID PACKAGE 15
PDP LEVEE SYSTEM
DESIGN STA: 385+45 TO 412+00




08/16/2017 SHEET 6 OF 16

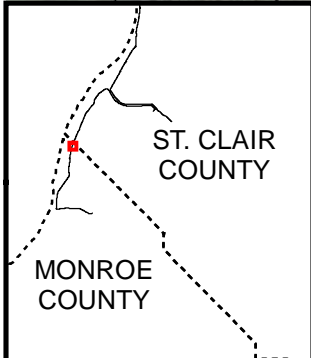
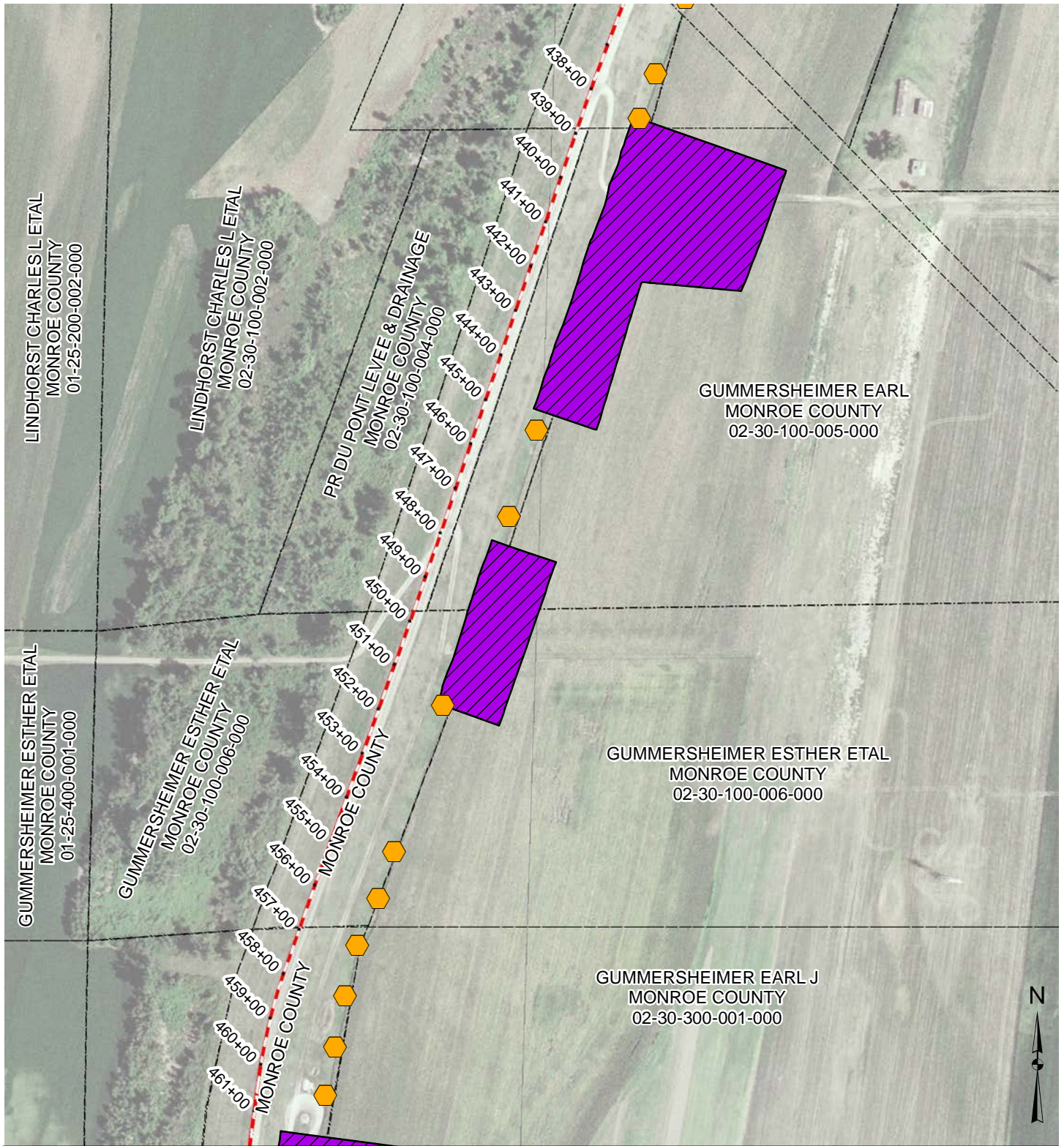
Legend	
	Pump Station
	Relief Well
	Seepage Berm



USACE Authorized Level of Protection Planning and Analysis
BID PACKAGE 15
PDP LEVEE SYSTEM
 DESIGN STA: 421+75 TO 435+50

08/16/2017 SHEET 7 OF 16

Legend	
	Pump Station
	Relief Well
	Seepage Berm



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

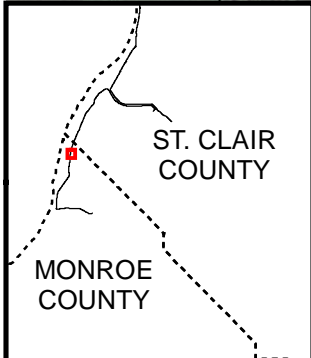
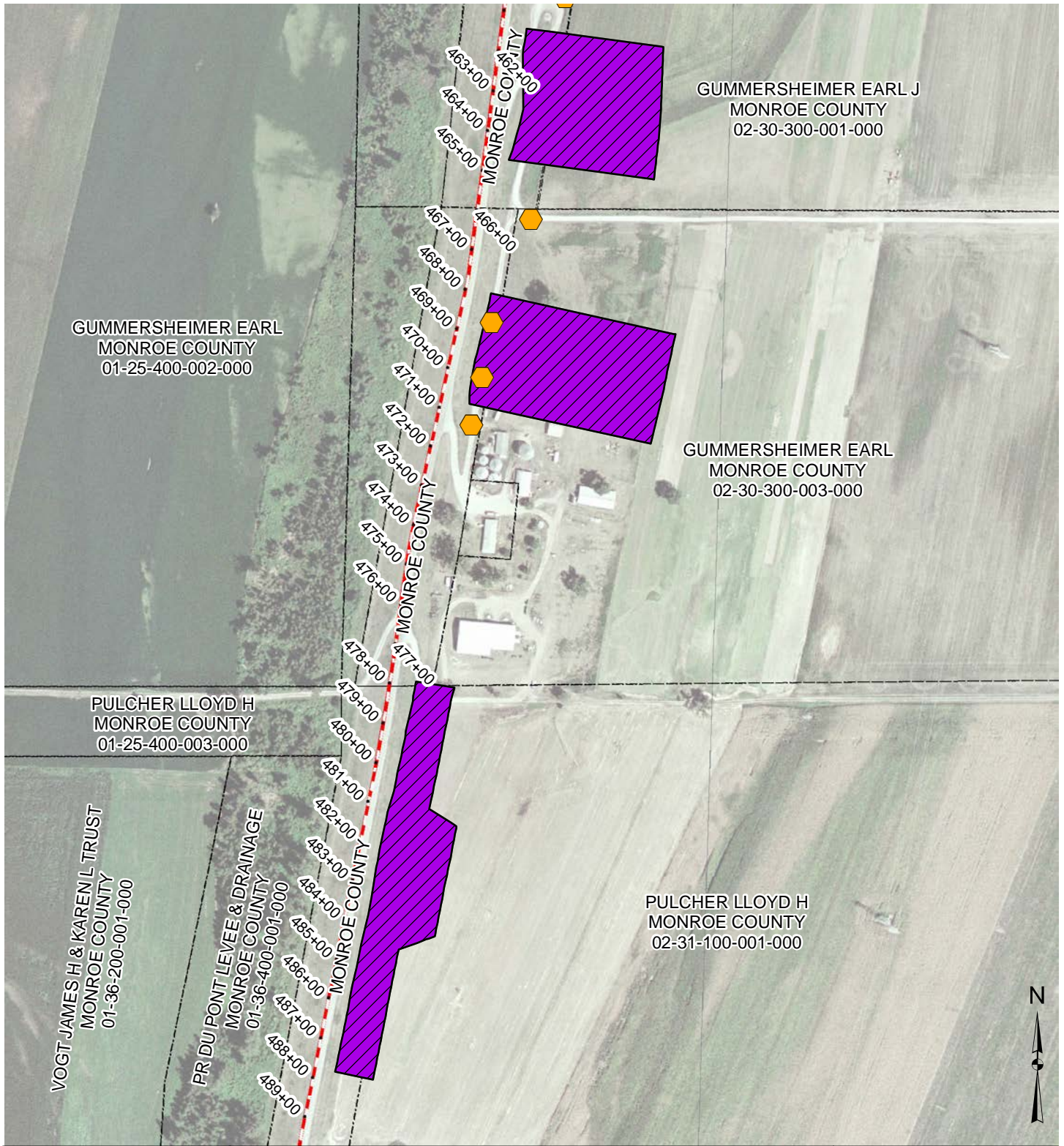
BID PACKAGE 16

PDP LEVEE SYSTEM

DESIGN STA: 437+25 TO 460+50

08/16/2017 SHEET 8 OF 16

Legend	
■	Pump Station
⬡	Relief Well
▨	Seepage Berm






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

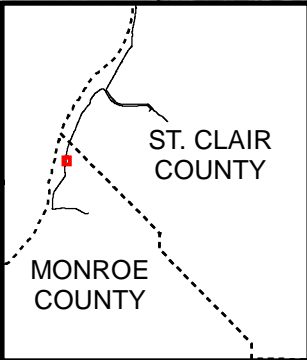
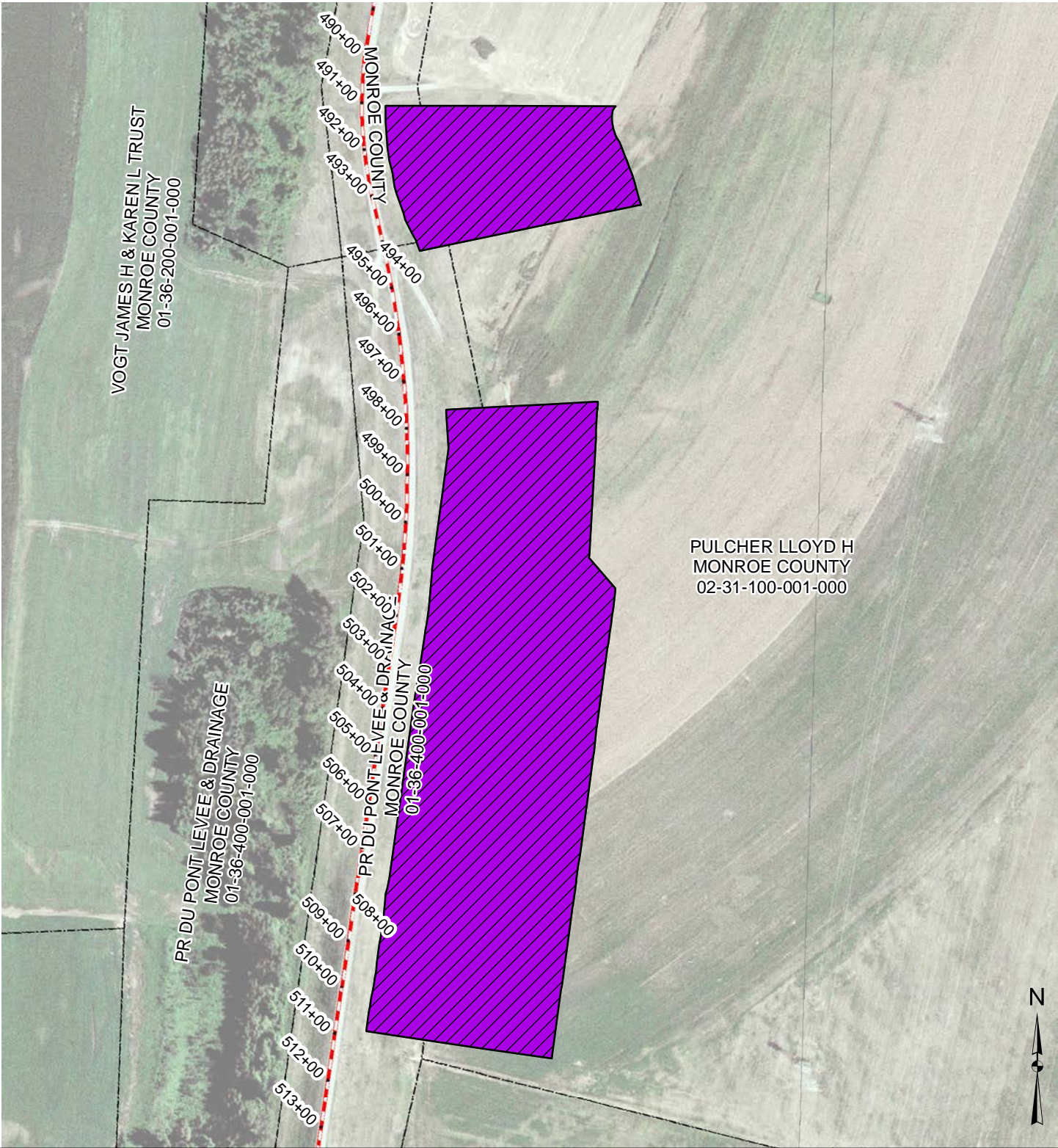
BID PACKAGE 16

PDP LEVEE SYSTEM

DESIGN STA: 461+35 TO 487+75

08/16/2017 SHEET 9 OF 16

Legend	
	Pump Station
	Relief Well
	Seepage Berm



USACE Authorized Level of Protection Planning and Analysis

BID PACKAGE 16

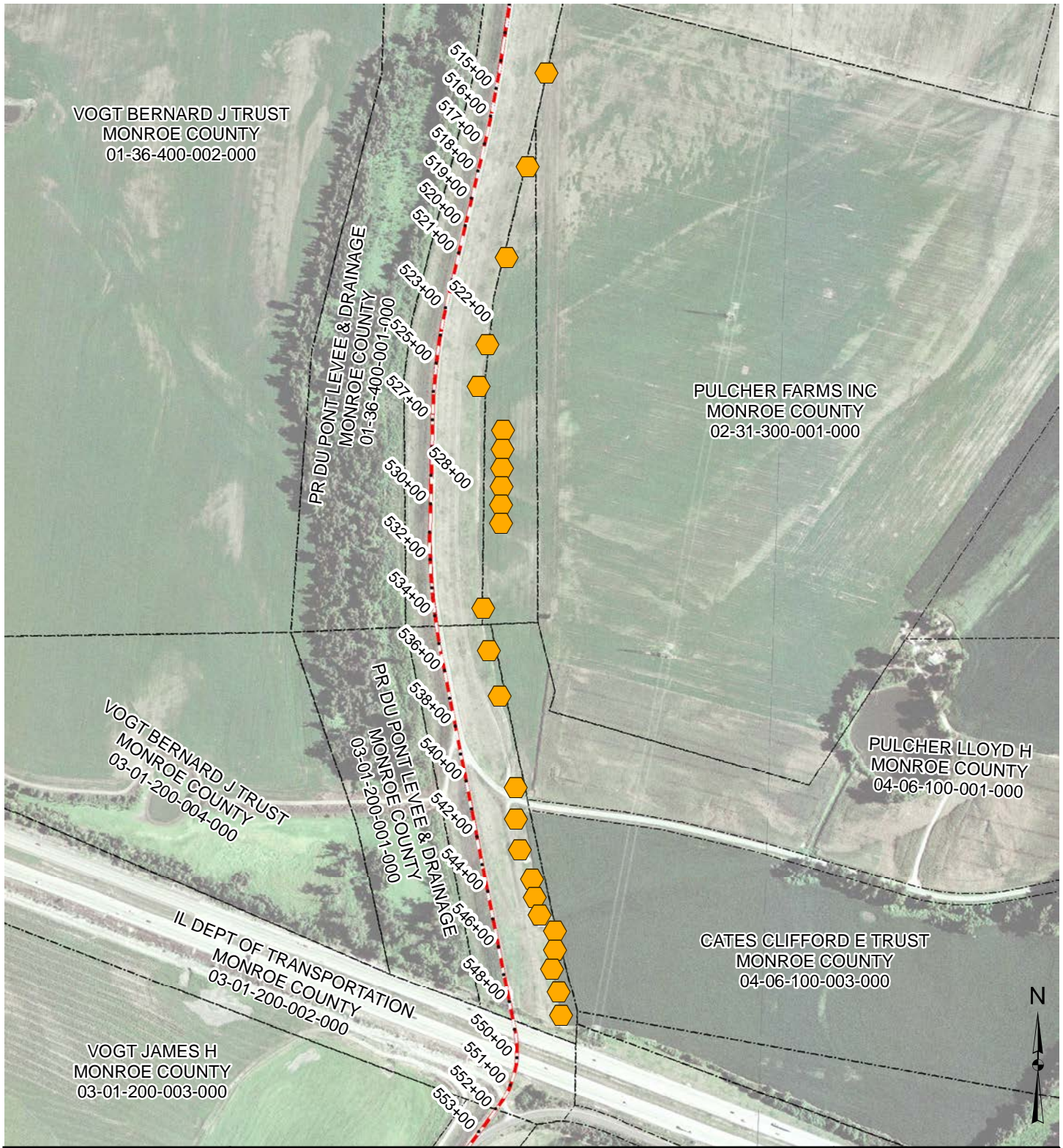
PDP LEVEE SYSTEM

DESIGN STA: 491+05 TO 510+85

08/16/2017 SHEET 10 OF 16

Legend

- Pump Station
- Relief Well
- Seepage Berm



VOGT BERNARD J TRUST
MONROE COUNTY
01-36-400-002-000

PR DU PONT LEVEE & DRAINAGE
MONROE COUNTY
01-36-400-001-000

PULCHER FARMS INC
MONROE COUNTY
02-31-300-001-000

VOGT BERNARD J TRUST
MONROE COUNTY
03-01-200-004-000

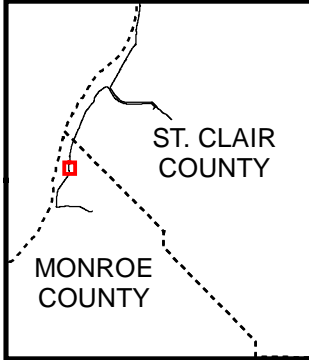
PR DU PONT LEVEE & DRAINAGE
MONROE COUNTY
03-01-200-001-000

PULCHER LLOYD H
MONROE COUNTY
04-06-100-001-000

IL DEPT OF TRANSPORTATION
MONROE COUNTY
03-01-200-002-000

CATES CLIFFORD E TRUST
MONROE COUNTY
04-06-100-003-000

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






USACE Authorized Level of Protection Planning and Analysis

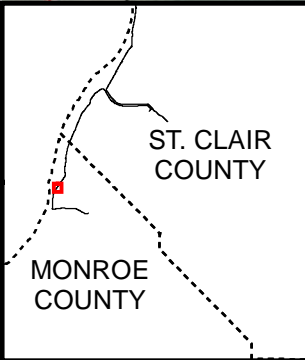
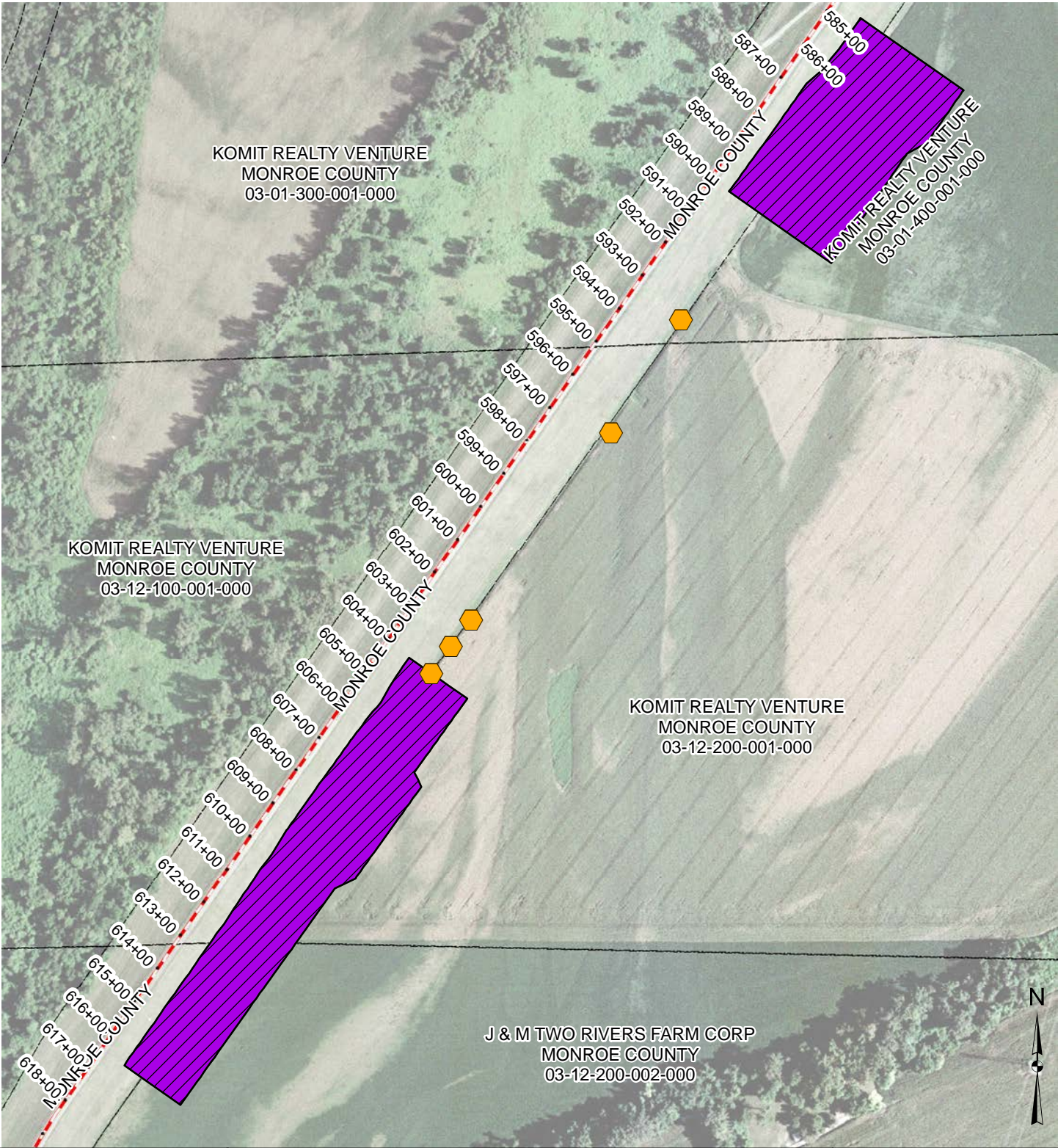
BID PACKAGE 16

PDP LEVEE SYSTEM

DESIGN STA: 514+25 TO 548+50




Legend

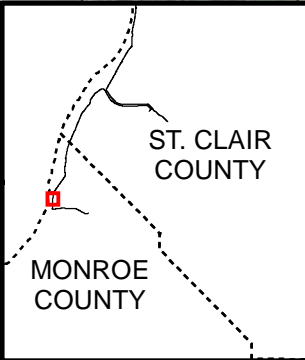
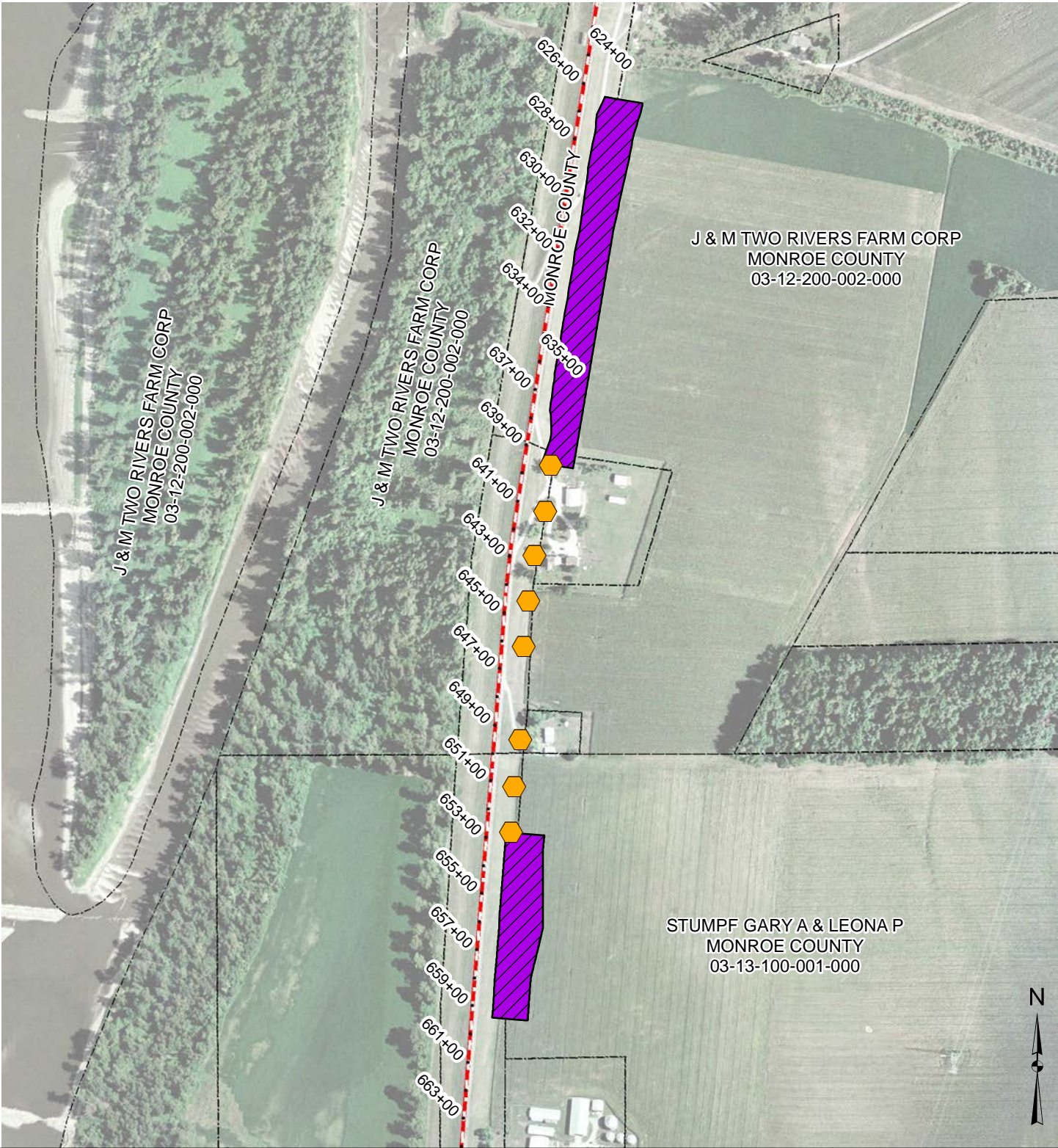
-  Pump Station
-  Relief Well
-  Seepage Berm



USACE Authorized Level of Protection Planning and Analysis
BID PACKAGE 17
FL LEVEE SYSTEM
 DESIGN STA: 584+65 TO 616+35

08/16/2017 SHEET 12 OF 16

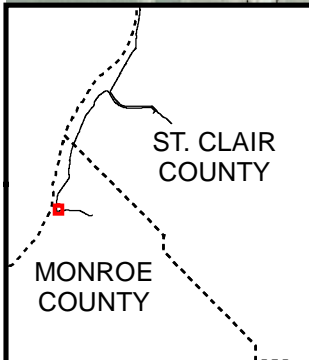
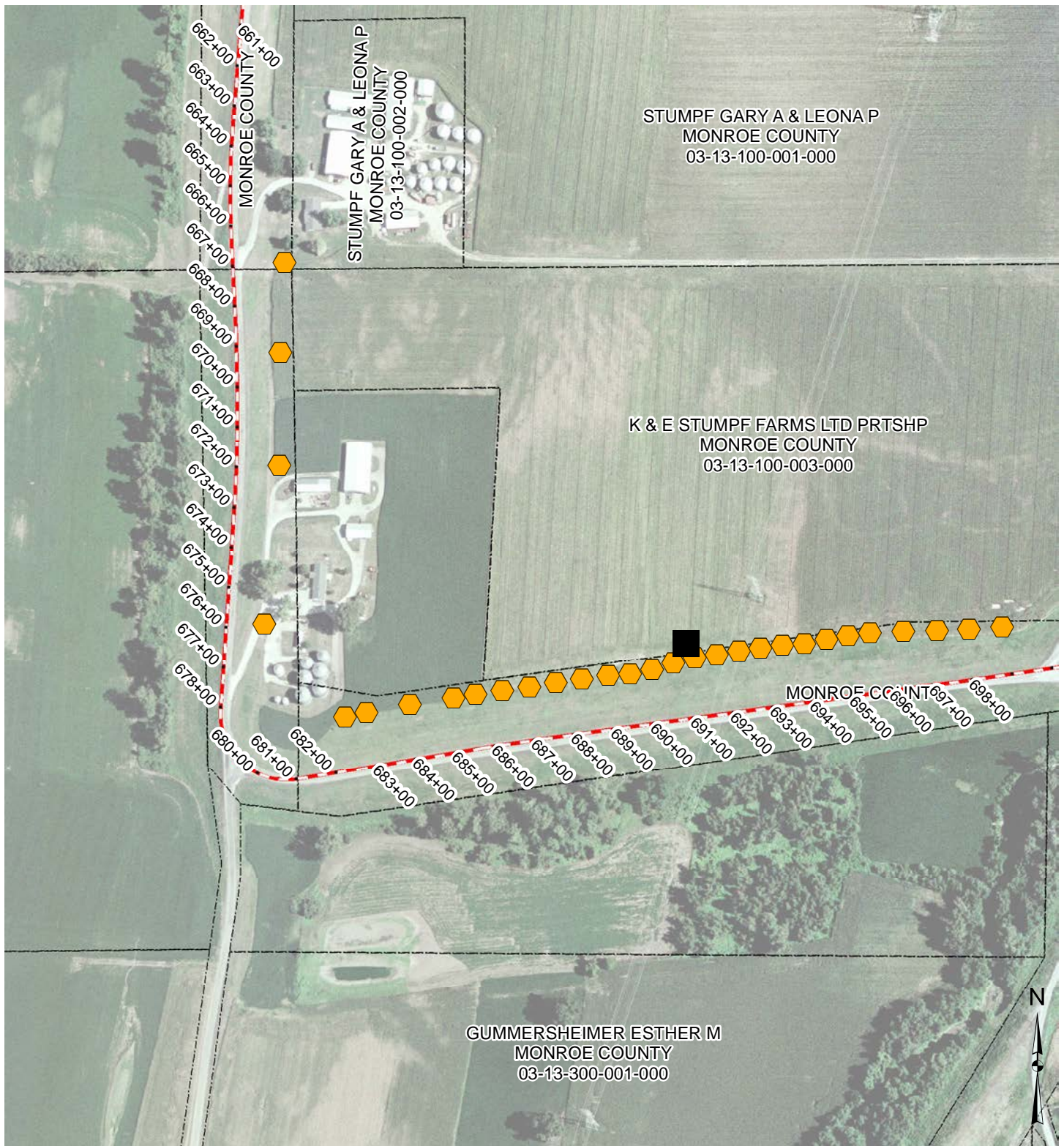
Legend	
	Pump Station
	Relief Well
	Seepage Berm



USACE Authorized Level of Protection Planning and Analysis
BID PACKAGE 17
FL LEVEE SYSTEM
 DESIGN STA: 626+35 TO 659+50




08/16/2017 SHEET 13 OF 16

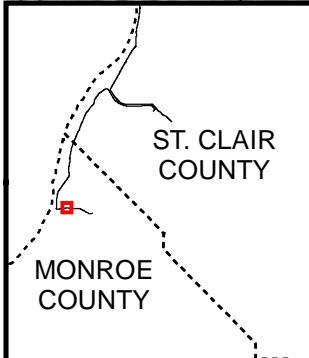
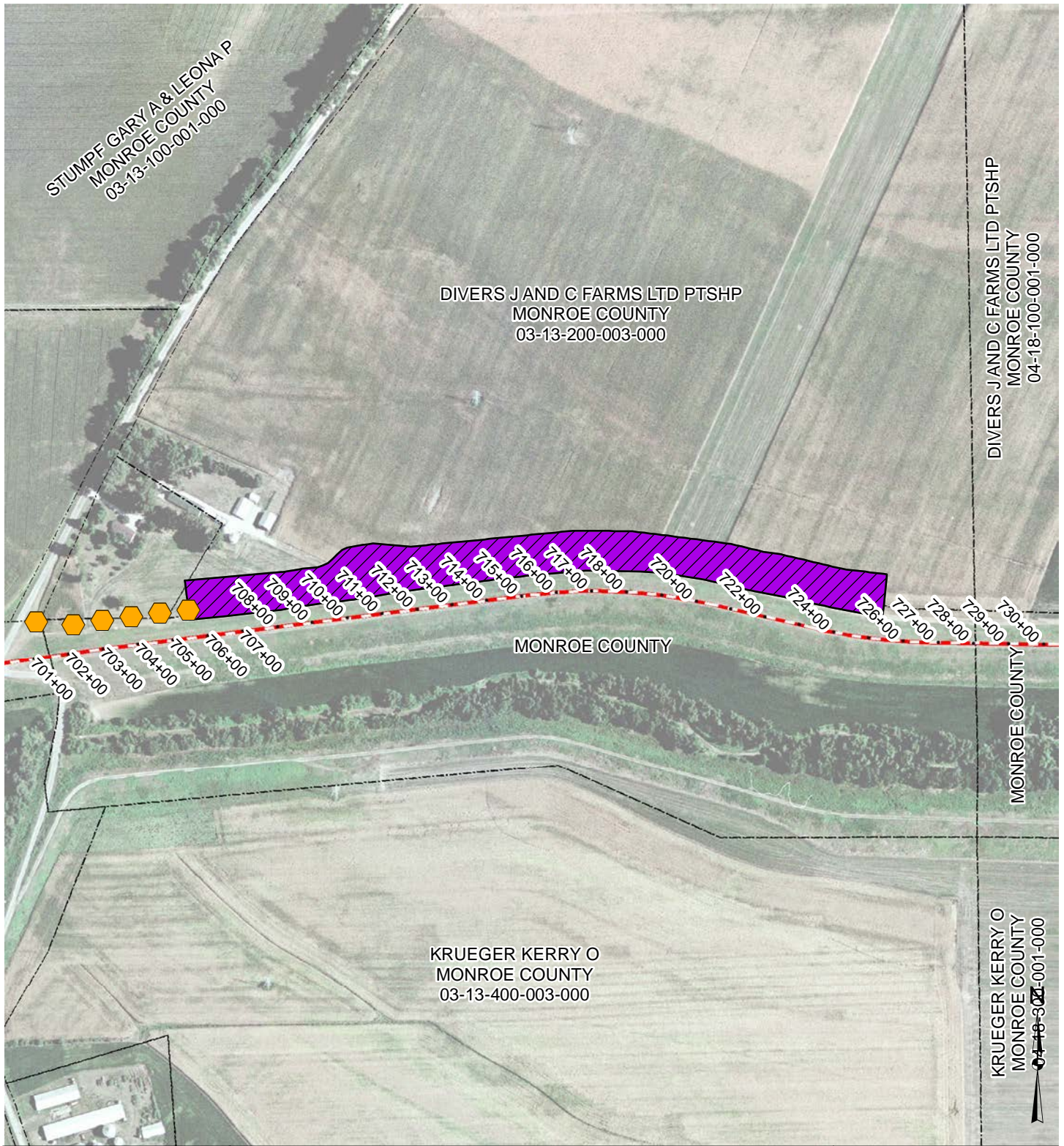
Legend	
■	Pump Station
⬡	Relief Well
▨	Seepage Berm



USACE Authorized Level of Protection Planning and Analysis
BID PACKAGE 17
FL LEVEE SYSTEM
 DESIGN STA: 667+00 TO 699+00

08/16/2017 SHEET 14 OF 16

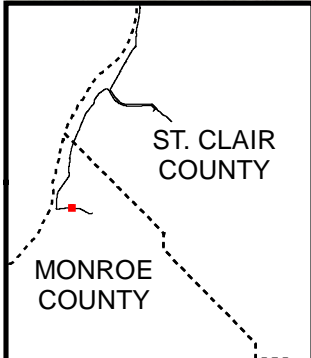
Legend	
	Pump Station
	Relief Well
	Seepage Berm



USACE Authorized Level of Protection Planning and Analysis
BID PACKAGE 17
FL LEVEE SYSTEM
 DESIGN STA: 701+00 TO 725+50

08/16/2017 SHEET 15 OF 16

Legend	
■	Pump Station
⬡	Relief Well
▨	Seepage Berm



USACE Authorized Level of Protection Planning and Analysis

BID PACKAGE 17




FL LEVEE SYSTEM

DESIGN STA: 732+00 TO 735+25

08/16/2017

SHEET 16 OF 16

Legend

-  Pump Station
-  Relief Well
-  Seepage Berm



Memo to: Board of Directors
From: Chuck Etwert
Subject: Amec Foster Wheeler Work Order Amendments
Date: August 14, 2017

With the completion of the 100-Year projects taking longer than originally anticipated and design and construction responsibilities changing as a result the Corps' utilization of the Risk Informed Design Process, there are four Work Orders with Amec Foster Wheeler that need to be amended for Period of Performance and/or funding authorization.

Amec Foster Wheeler will explain the amendments at the meeting

Work Orders with Funding and/or Period of Performance Adjustments:

Work Order #1 – Program Management Services - Amendment 4

Extending Period of Performance from December 31, 2017 to December 31, 2019
Authorized Funding increase of \$400,000, from \$2,169,600 to \$2,569,600

Work Order #2 – Preliminary Design Services - Amendment 2

Authorized Funding deduction of \$602,000, from \$3,220,494 to \$2,618,494

Work Order #3 – Subsurface Investigation/Relief Well Testing - Amendment 5
Construction Services

Authorized Funding increase of \$110,000, from \$6,888,333 to \$6,998,333

Work Order #14 – Metro East Sanitary District Authorized Level - Amendment 3
Field Investigation and Design

Authorized Funding increase of \$851,600 from \$6,077,432 to \$6,929,032

Copies of each Work Order Amendments are attached.

Recommendation:

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

Work Order #1 – Program Management Services - Amendment 4, extending the Period of Performance to December 31, 2019 and increasing the authorized level of funding by \$400,000, from \$2,169,600 to \$2,569,600, and

Work Order #2 – Preliminary Design Services - Amendment 2, decreasing the authorized funding by \$602,000, from \$3,220,494 to \$2,618,494, and

Work Order #3 – Subsurface Investigation/Relief Well Testing Construction Services - Amendment 5, increasing the authorized funding by \$110,000, from \$6,888,333 to \$6,998,333, and

Work Order #14 – Metro East Sanitary District Authorized Level - Amendment 3, increasing the authorized funding by \$851,600, from \$6,077,432 to \$6,929,032 for a net increase of \$759,600.



**WORK ORDER NO: MSA01-WO01 AMENDMENT 4
PROGRAM MANAGEMENT SERVICES**

Issued Pursuant to Master Services Agreement Effective **August 16, 2017**,
By and Between
Amec Foster Wheeler, Environment & Infrastructure, Inc. (Amec Foster Wheeler)
and
Southwestern Illinois Flood Prevention District Council (CLIENT)

CLIENT Office:	<u>104 United Drive</u> <u>Collinsville, IL 62234</u>	Amec Foster Wheeler Project No:	<u>563170001</u>
CLIENT Contact:	<u>Charles Etwert</u>	Work Order Type: (Check One)	
Amec Foster Wheeler Office:	<u>15933 Clayton Road</u> <u>Suite 215</u> <u>Ballwin, MO 63011</u>	Time and Materials (rates attached)	<u>X</u>
		Fixed Price	<u> </u>
Amec Foster Wheeler Contact:	<u>Jon Omvig</u>	CLIENT Reference No:	<u>n/a</u>

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 Levee and Sanitary District, and Fish Lake Drainage and Levee District.**

3. PERIOD OF PERFORMANCE: **August 18, 2010 through December 31, 2019**

4. AUTHORIZED FUNDING: **\$400,000**

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**

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

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

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

**Attachment A
Scope of Work**

**WORK ORDER NO: MSA01-WO01
Program Management Services
Amendment #4**

Amec Foster Wheeler Project No: 563170001

Scope of Work per Work Order 01, as amended.

WORK ORDER 01 SUMMARY:

Total for Original Agreement	=\$1,469,000
Total for Amendment 1	= N/A
Total for Amendment 2	=\$ 700,600
Total for Amendment 3	= N/A
Total for Amendment 4	=\$ 400,000
Total for Work Order 01	=\$2,569,600

**Attachment A
Scope of Work**

**WORK ORDER NO: MSA01-WO02
Preliminary Design Services
Amendment #2**

Amec Foster Wheeler Project No: 563170001

Scope of Work per Work Order 02, as amended.

WORK ORDER 02 SUMMARY:

Total for Original Agreement	=\$3,220,494.00
Total for Amendment 1	= N/A
Total for Amendment 2	=\$ (602,000.00)
Total for Work Order 02	=\$2,618,494.00



WORK ORDER NO: MSA01-WO03 AMENDMENT 5

SUBSURFACE INVESTIGATION/RELIEF WELL TESTING CONSTRUCTION SERVICES

Issued Pursuant to Master Services Agreement Effective **August 16, 2017**,
By and Between
Amec Foster Wheeler, Environment & Infrastructure, Inc. (Amec Foster Wheeler)
and
Southwestern Illinois Flood Prevention District Council (CLIENT)

CLIENT Office:	<u>104 United Drive</u> <u>Collinsville, IL 62234</u>	Amec Foster Wheeler Project No:	<u>563170001</u>
CLIENT Contact:	<u>Charles Etwert</u>	Work Order Type: (Check One)	
Amec Foster Wheeler Office:	<u>15933 Clayton Road</u> <u>Suite 215</u> <u>Ballwin, MO 63011</u>	Time and Materials (rates attached)	<u>X</u>
		Fixed Price	<u> </u>
Amec Foster Wheeler Contact:	<u>Jon Omgig</u>	CLIENT Reference No:	<u>n/a</u>

1. SCOPE OF WORK: *** No Change ***
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: **\$110,000**
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**
Date: _____
Address: **104 United Drive**
Collinsville, IL 62234

By: _____
Name: **Jon Omgig**
Title: **St. Louis Office Manager**
Date: _____
Address: **15933 Clayton Road, Suite 215**
Ballwin, MO 63011

**Attachment A
Scope of Work**

**WORK ORDER NO: MSA01-WO03
Program Management Services**

Amendment #5

Amec Foster Wheeler Project No: 563170001

Scope of Work per Work Order 03, as amended.

WORK ORDER 03 SUMMARY:

Total for Original Agreement	=\$5,688,333.00
Total for Amendment 1	=\$ N/A
Total for Amendment 2	=\$1,200,000.00
Total for Amendment 3	=\$ N/A
Total for Amendment 4	=\$ N/A
Total for Amendment 5	=\$ 110,000.00
Total for Work Order 03	=\$6,998,333.00

**Attachment A
Scope of Work**

**WORK ORDER NO: MSA01-WO14
Metro East Sanitary District Authorized Level Field Investigation and Design
Amendment #3**

Amec Foster Wheeler Project No: 563170001

Scope of Work per Work Order 14, as amended.

AMENDMENT 3 – (08/16/2017)

Addition of 35 MESD Deep Cutoff Wall Borings to Scope of Work

Add 35 Borings (including drilling, oversight & logging, lab work, railroad fees) to the original scope of work:

- | | | |
|----------------------|----------------------|-------------------|
| 1. 16-MESDCW-101 | 13. 16-MESDCW-121 | 25. 16-MESDCW-320 |
| 2. 16-MESDCW-103 | 14. 16-MESDCW-301 | 26. 16-MESDCW-508 |
| 3. 16-MESDCW-105 | 15. 16-MESDCW-303 | 27. 16-MESDCW-513 |
| 4. 16-MESDCW-107 | 16. 16-MESDCW-305 | 28. 16-MESDCW-517 |
| 5. 16-MESDCW-109 | 17. 16-MESDCW-309 | 29. 16-MESDCW-518 |
| 6. 16-MESDCW-111 | 18. 16-MESDCW-311 | 30. 16-MESD-LS03 |
| 7. 16-MESDCW-111DMT | 19. 16-MESDCW-311DMT | 31. 16-MESD-LS05 |
| 8. 16-MESDCW-113 | 20. 16-MESDCW-313 | 32. 16-MESD-LS07 |
| 9. 16-MESDCW-115 | 21. 16-MESDCW-315 | 33. 16-MESD-LS09 |
| 10. 16-MESDCW-116DMT | 22. 16-MESDCW-316 | 34. 16-MESD-LS11 |
| 11. 16-MESDCW-117 | 23. 16-MESDCW-316DMT | 35. 16-MESD-LS13 |
| 12. 16-MESDCW-119 | 24. 16-MESDCW-318 | |

Amount for 35 Additional Borings = \$545,600

Lab Work Associated with 35 MESD Deep Cutoff Wall Borings:

Perform necessary lab work associated with the 35 MESD deep cut off wall borings

Amount for Lab Work = \$293,000

Land Access & Railroad Fees:

Cost for obtaining right of entry agreements (fees), costs for required railroad flaggers during boring work, and labor to obtain all necessary site access.

Amount for Land Access & Railroad Fees = \$13,000

Total Amendment #3 = \$851,600

WORK ORDER 14 SUMMARY:

Total for Original Agreement	=\$5,972,432
Total for Amendment 1	=\$ 475,000
Total for Amendment 2	=(\$ 370,000)
Total for Amendment 3	=\$ 851,600
 Total for Work Order 14	 =\$6,929,032



Memo to: Board of Directors

From: Chuck Etwert

Subject: Amec Foster Wheeler Work Order 17
Life-Cycle Cost Analyses for FEMA Improvements

Date: August 14, 2017

As identified in the budget assumptions, it is the Council's intent to work with each levee district in establishing funding sources, if needed, for the maintenance and operation of the 100-Year Improvements and the Authorized Level Improvements being built by the Council.

Under Work Order 17, Amec Foster Wheeler will be prepare life cycle costs for each of the FEMA flood protection bid packages that have been constructed. Now that the 100-Year improvements have been built, it is essential that the levee districts have the funds to properly maintain and operate them.

Husch Blackwell will work with each district, analyzing funding alternatives that may be available to fulfill the costs identified.

Life cycle costs will be prepared for the following Bid Packages:

- Bid Package 01 – Gravity Drain and toe Drain Rehabilitation
- Bid Package 2A – Fish Lake Levee District Pump Station
- Bid Package 2B – Levee Pump Stations
- Bid Package 2C – Pump Station Site 12 Force Mains
- Bid Package 03 – Underseepage Control Improvements
- Bid Package 04 – Seepage Control Improvements and Pump Station Site 09 (Phillips reach #2) (MESD Station 1209+00 to 1242+00)
- Bid Package 05 – Seepage Control Improvements
(Excludes MESD Station 1209+00 to 1242+00)
- Bid Package 06 – Seepage Control Improvements
- Bid Package 7A – Upper Cutoff Wall
- Bid Package 7B – Lower Cutoff Wall

Amec Foster Wheeler will prepare a report for each levee district that summarizes the anticipated annual costs for the life of the feature with detailed backup and cost buildup included.

A copy of Work Order 17 is attached to this memo.

Recommendation: Authorize the Chief Supervisor to execute Work Order 17 with Amec Foster Wheeler Environment & Infrastructure Inc. for the Life-Cycle Cost Analyses for FEMA Improvements, as shown in the attachment, in the amount of \$92,000.

**Attachment A
Scope of Work**

WORK ORDER NO: MSA01-WO17

Amec Foster Wheeler's services will include preparation of anticipated life cycle costs for all improvements constructed as part of the following Southwestern Illinois Flood Prevention District Council's Southwestern Illinois Levee Certification Design Projects:

- Bid Package 01 – Gravity Drain and Toe Drain Rehabilitation
- Bid Package 2A – Fish Lake Levee District Pump Station
- Bid Package 2B – Levee Pump Stations
- Bid Package 2C – Pump Station Site 12 Force Mains
- Bid Package 03 – Underseepage Control Improvements
- Bid Package 04 – Seepage Control Improvements and Pump Station Site 09 (Phillips Reach #2)
(MESD Station 1209+00 to 1242+00)
- Bid Package 05 – Seepage Control Improvements
(Excludes MESD Station 1209+00 to 1242+00)
- Bid Package 06 – Seepage Control Improvements
- Bid Package 7A – Upper Cutoff Wall
- Bid Package 7B – Lower Cutoff Wall

Deliverable shall be a series of four reports (one for each levee district) that summarizes the anticipated annual costs for the life of the feature with detailed backup and cost buildup included as appendices.



Memo to: Board of Directors
From: Chuck Etwert
Subject: Election of Officers for 2017-2018
Date: August 14, 2017

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

The election of officers will take place on August 16, 2017 at the end of the Council's Board meeting.