



DIRECTOR OF ENGINEERING REPORT

Jul 17, 2024

District Engineering manages projects, consultants, contractors, and equipment suppliers. Consultant reports and Project Managers reports are included in this section along with details regarding the status of the associated study, design, or construction projects.

**ACTIVE PROJECTS**

**21CMP04 Fermentation Reactor Pilot:**

SCOPE: A pilot fermenter system has been installed to determine the best operating parameters for BNR and familiarize staff with operation of a fermenter.						
Contractor: Burdick			Original Contract Price: \$956,796.00			
Engineer: Black and Veatch			Sum of Change Orders: \$(108,900.00)			
R.E. Inspector: SDD			Total Value: \$847,896.00			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
03/24/23	04/04/23	05/09/23	06/21/23	07/31/23	07/24/23	12/21/23 Subst 01/20/24 Final

**Key Activities:** Continuing to run hot weather testing on Scenario C. In coordination with the Black and Veatch plant modelers, staff is looking at testing fermenter behavior with Soy Molasses. BV is working through a protocol for testing at this time.

No update on the final change order paperwork from the contractor.

Change Item: Install an additional valve in underground piping to allow decant water from the South Sludge Lagoons to be pumped to a different location in the P2 channel. This modification eliminated the need to isolate the frac tank from a shared discharge point when decanting is required from the lagoon. This was done on a T&M basis.

**22ENG02 Lost Bridge Force Main Renewal**

SCOPE: Project involves the installation of approximately 2700 LF of horizontally directionally drilled fusible PVC plus tie into the Lost Bridge road pumping station (East side of Lake Decatur) and connect to an existing force main on the West side of Lake Decatur.						
Contractor: Burdick			Original Contract Price: \$2,986,151			
Engineer: Clark Dietz			Sum of Change Orders: \$0			
R.E.I.: SDD/CDI			Total Value: \$2,986,151			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
04/05/24	04/15/24	05/01/24	05/22/24	06/24/24	06/24/24	Sub – 150 days Final – 270 days

**Key Activities:** The June 24<sup>th</sup> pre-construction meeting was held as scheduled, the Notice to Proceed was issued at that time. This project will impact city roadway traffic and be very visible to the public at large. We are awaiting the project schedule, which is past due, from the contractor. The project requires 2 weeks advance notice to mobilization and 2 weeks advance notice of road closures to allow contractor and staff time to communicate with the public.

**23MNTxx Damon Ave. Pump Station Upgrades**

SCOPE: Project involves removal of existing electrical utilities and installation of a dual service switchboard and ATS, a new 1600 AMP CT enclosure and removal and re-installation of two underground conduit duct banks.
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Contractor: Engineer: AEX R.E. Inspector: SDD				Original Contract Price: Sum of Change Orders: \$0 Total Value:		
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
06/18/24	07/02/24	08/01/24	8/21/24			Sub – xxx days Final – xxx days

**Key Activities:** Prebid meeting was held as scheduled. This portion of the work at DAMON has been bid before. No contractors were present at the prebid, but it was expected that previous planholders would not attend. We open bids on 08/01.

**23ENG45 Primary Clarifiers 4 and 6 Procurement**

SCOPE: Pre-procure equipment to replace mechanisms in clarifiers #4 and #6.						
Contractor: Kusters Water Engineer: SDD R.E. Inspector: SDD				Original Contract Price: \$1,296,742 Sum of Change Orders: \$0 Total Value:		
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
03/12/24	N/A	05/01/24	05/31/24	06/10/24		365 days

**Key Activities:** Kusters Water arrived on site 07/10/24 to take measurements for the clarifiers. Fabrication will commence following approved fabrication drawings. Specifications for the installation contract have been created and have been reviewed. Staff expects the installation contract will be out for bid in August.

**22ENG31 ADMINISTRATIVE WORKFORCE CENTER**

SCOPE: Construction and commissioning of a new 26,000 sq ft Administration Building. The building includes the addition of a new Wastewater Treatment Plant laboratory facility, administration offices, maintenance offices, operation control room, multi-purpose Board room and locker facilities.						
Contractor: TBD Engineer: AEX R.E. Inspector: SDD				Original Contract Price: \$xxx Sum of Change Orders: \$0 Total Value:		
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
06/25/24	07/02/24	07/30/24	08/17/24	xx/xx/xx	xx/xx/xx	365 days

This project was advertised this last period and bids are to be opened on July 30<sup>th</sup>. Staff has issued 2 addendums to date. Coordination meetings between AEX and SDD have continued this period to answer questions as they come up.

SDD has engaged with Liaison LLC out of Decatur for technology design services for the new board room, huddle rooms, and library. The district has received a cost proposal for the technological materials/labor to outfit the rooms.



**UPCOMING PROJECTS:**

**STUDY – WRRF Groundwater Dewatering Plan Study**

Scope: Martha Silks is the Lead Hydrologist for LRE Water, SDD has a long history with her as she has served on teams working with dewatering issues in the plant dating back to the early 2000’s. LRE has delivered a draft of the report outlining 3 site dewatering plans and costs associated with each. Staff is reviewing the report.

Schedule:

Task 1 - Data Gathering	Complete
Task 2 - Development of Dewatering System options	<del>Apr-24</del> Complete
Task 3 - Prepare 20-year life cycle costs for the options	<del>May-24</del> Complete
Deliverable: Final Report – Draft report has been received for review.	

The three site alternatives include 36” dewatering wells at various locations. Staff has executed an agreement with SKS engineers to inform well design depths. Soil borings were completed the week of 6/17/24 along with a sieve analysis to determine the size of the well screens. We have received the sieve analysis and are expecting the soil borings week ending 07/20/24. LRE has been requested to incorporate those results in their final report.

**STUDY – Detailed Assessment of Primary Clarifier Control Structure**

Staff is working with Black and Veatch to determine a rehabilitation path forward on the existing Primary Clarifier Control Structure. Concerns regarding structural, mechanical and electrical integrity were identified in the preliminary condition assessment completed in the summer of 2023. Structural components to be included will be confirmed during design. Based on the findings of the preliminary condition assessment anticipated are concrete repairs, drain and crack repairs, and repair of exposed reinforcing steel. Building mechanical issues to be resolved include makeup air units/heaters as well as replacement of the A/C units, and electrical issues to be resolved include replacing the transformer and vacuum switch. BV will be on site 07/16/24 for a further evaluation on the repairs needed in this structure.

**DESIGN – Digester #1 Cover Replacement**

Project kickoff meeting was held with Donohue and Associates for the design work associated with digester #1 cover replacement project.

Schedule:

50% Design for Review	Aug 16, 2024
95% Design for Review	Sep 20, 2024
Advertise	Oct 08, 2024
Bid Open	Nov 05, 2024
Award	Nov 20, 2024

**DESIGN – Final Clarifier Upgrades Project**

<<No Update>> The project includes replacement of 3 isolation gates on the influent channels, painting 2 carbon steel clarifiers, performing maintenance work on the clarifier floors, and repairing 8 isolation gates in the nitrification aeration tanks.

Final plan drawings have been received. Plans and Specifications development will commence again once the Dewatering Well drilling work is advertised.



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### **INTERGOVERNMENTAL ACTIVITIES**

1. Attended SDD and IEPA meeting (with Heppler Broom) to introduce the Integrated Planning approach to be incorporated into the SDD permit required NARP (Nutrient Assessment Reduction Plan).
2. Staff has continued participating in meetings as needed with the CITY and ADM for the “NE quadrant work group” looking at water and wastewater needs in this corridor. The force main routing for the City’s new Brush College pump station has been modified to traverse the street side of the houses along Damon Ave. City is continuing to attain the easements for the force main. Clark Dietz Engineers are working with the City on that design. Staff is coordinating the upgrades identified at the DAMON pumping station with the NE Quadrant Master Plan recommendation of creating an additional passage underneath the railroad to the West of the station.
3. Quarterly meeting with the CITY has been postponed to 7/30/24.

If there are questions, please contact me at 422-6931 ext 216, or by email at [DonM@sddcleanwater.org](mailto:DonM@sddcleanwater.org).



**PROJECT MANAGER REPORT**

**July 17th, 2024**

District Engineering manages projects, consultants, contractors, and equipment suppliers. Consultant reports and Project Managers reports are included in this section along with details regarding the status of the associated study, design, or construction projects.

**ACTIVE PROJECTS**

**23ENG22 McKinley Interceptor Repair**

SCOPE: Removal of approximately 115 ft of failing 48-inch centrifugally cast fiberglass pipe and replacement with PVC pipe. After the repair is made, the entire manhole to manhole gravity sewer segment is to be CIPP lined. Restoration will require slope stabilization with geofabric and rip rap.	
Contractor: SAK	Original Contract Price: \$841,365.00
Engineer: SDD	Sum of Change Orders: \$0
R.E. Inspector: SDD	Total Value: \$841,365.00

**Key Activities:** Asphalt repairs are complete. The final punch list includes minor soil erosion and over-seeding expected to be completed by July 26. Staff is expecting final paperwork during this next period to close the project.

**23MNT21 Sodium Bisulfite Tuck Pointing**

SCOPE: Sodium Bisulfite Building tuck pointing project includes tuck pointing and replacing bricks as necessary, replace lintel over the north wall louver, and replacement of caulking and performing concrete repair as necessary.	
Contractor: Berglund Construction	Original Contract Price: \$59,000
Engineer: SDD	Sum of Change Orders: \$0
R.E. Inspector: SDD	Total Value:

**Key Activities:** All work is satisfactorily completed. Staff is expecting final paperwork during this next period to close the project.

**24ENGXX Sewer Televising and Rating**

SCOPE: Televis and rate conditions for the Northeast Interceptor, Pershing Rd. Bypass, Route 51 Bypass, Old Main Interceptor, New Main Interceptor, and Eastside Interceptor.						
Contractor: Telescan Inc.			Original Contract Price: \$143,396.25			
Engineer: SDD			Sum of Change Orders: \$0			
R.E. Inspector: SDD			Total Value:			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
02/29/2024	03/14/2024	03/28/2024	5/16/24	6/4/24	6/4/24	10/31/24

**Key Activities:** TeleScan Inc. completed video inspection of the Eastside Interceptor (10,730 ft.) and the Northeast Interceptor (19,706 ft.). Total length for 2024 project is 57,420 lineal feet and is currently 53% complete. Preliminary video and PACP reports for the Eastside and Northeast Interceptors are under review.

**NOTE –** The Eastside interceptor inspection has identified significant degradation since the last inspection. Staff budgeted the design for a lining project this fiscal year and began negotiations with Farnsworth Group this period for the design services of CIPP lining and manhole repairs of this sewer.



**PROJECT MANAGER REPORT**

**July 17th, 2024**

**24ENG44 Building 044 Safety Improvements**

SCOPE: Project involves installation of FRP panels and louvers on the 044 building to extend the existing siding to the concrete block wall. This effort will eliminate precipitation blowing into the ferrous Chloride tank retention area.						
Contractor:				Original Contract Price:		
Engineer: SDD				Sum of Change Orders: \$0		
R.E. Inspector: SDD				Total Value:		
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
07/02/24	7/16/24	8/6/24				

**Key Activities:** Bid specifications are advertised.

**24MNT07 Fence Replacement**

SCOPE: Project involves removal of approximately 1,500 feet of existing 6' chain link fencing along the east side of the plant and installation of 8' aluminized 1" mesh security chain link fencing and replacement of approximately 66 feet of fencing at the Damon Ave. pump station.						
Contractor:				Original Contract Price:		
Engineer: SDD				Sum of Change Orders: \$0		
R.E. Inspector: SDD				Total Value:		
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
07/02/24	7/30/24	8/15/24				

**Key Activities:** Bid specifications are advertised.



July 5, 2024

Mr. Don Miller, P.E.  
Sanitary District of Decatur  
501 S. Dipper Lane  
Decatur, IL 62522

Re: Monthly Progress Update  
CD Project No. D05400050  
**Lost Bridge Force Main  
Invoice No. 12**

Dear Mr. Miller:

This letter summarizes Clark Dietz's work for the Sanitary District of Decatur that was performed from June 1 through June 28, 2024.

**Work Completed this Month**

- Held a pre-construction meeting.
- Coordinate contractor's contract.

**Work Anticipated for Next Month**

- Prepare conformed set of construction documents.
- Shop drawing review.
- Contractor coordination.

Please call me at 217-373-8933 if you have any questions.

Very Truly Yours,  
Clark Dietz Inc.

Andrea W. Bretl, P.E.  
Project Manager