

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

20-07 Digester Complex Improvements:

SCOPE: The Digester #3 floating cover and the face brick on all four digester tanks is being replaced.						
Contractor: Christy-Foltz			R.E. Inspector: SDD/W Gray - Donohue			
Engineer: Donohue and Associates						
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion
11/17/20	12/01/20	12/22/20	02/17/21	03/18/21	03/18/21	9/22/2022 Substantial 10/22/22 Final
Submittals Reviewed: 9 complete /0 open						
Requests for Information (RFIs): 7 complete /0 open						
Owner Requests for Proposal/Change Order (RFPCO): 11 complete / 3 open						

Key Activities: Contractor completed the scaffolding assembly this last period. They have placed the center and intermediate ring. Several radial beams, not shown in the photo, have been placed and side sheets are being installed. There are no updates on the pending change order.



Issues: Substantial completion date is Thursday 9/22/22 and contractor will not be completed.

Pending Changes:

1. WCD 01 and WCD 02: Additional Pump Down of Digester Contents: Contract documents required SDD to bring digester liquid elevation down to 593.0 and digesters have been turned over to contractor at various liquid elevations due to pump down issues. Contractor was put on time and material for the additional pumping required.
Digester 1 – 594.50; Digester 2 - 595.80; Digester 3 – 595.33; Digester 4 – 593.00
\$ 7,584.94 -CO#4
\$ 31,668.00
2. Unit Cost Adjustment for Replacing manway hatch on Digester #1
\$ 28,776.00 -CO#4
3. Digester #1 cold joint repairs. District issued Field Order to remove damaged concrete, prepare the leaking concrete seam, and install Xypex patch along the cold joint in the concrete walls. Work is being performed on a T&M basis.
\$ 29,166.94 -CO#4
4. Delamination of coatings on Digester #3 will be addressed as contractor completes the installation of the cover. Contractor was directed to perform the work on a T&M basis.
\$ T&M



DIRECTOR OF ENGINEERING REPORT

Sep 21, 2022

20-01 Lake Shore Drive PS Replacement:

SCOPE: The lift station is being reconfigured with submersible pumps.						
Contractor: Christy-Foltz			R.E. Inspector: SDD/ C. Larimore- CDI			
Engineer: Clark Dietz Engineers, Inc						
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
12/02/20	01/05/21	02/03/21	03/24/21	04/07/21	04/07/21	4/2/22 Substantial 5/2/22 Final
Submittals Reviewed: 84 received / 83 completed / 36 Rejected						
Requests for Information (RFIs): 14 submitted/14 completed						
Owner Requests for Proposal/Change Order (RFPCO): 1 Issued/1 Completed						
Change Orders: 2 completed						

Key Activities: Contractor removed bypass pumping this last period and normal pumping operations for the station started. Fencing and Asphalt is scheduled to be finished the week of 9/16/22. Punchlist walk-through is scheduled for 09/22/22. We expect a request for substantial completion any day

Issues: Construction is beyond completion date.

Pending Changes: None

21ADM50 Front Gate, Fence, and Road Repairs:

SCOPE: Replacement of the damaged front gate, plant fencing repairs, and localized cast in place concrete work in the plant are included in this project. There are two Divisions of work to be awarded separately: 1) General/Concrete; and 2) Fence and Gate						
Contractor: TBD			R.E. Inspector: SDD			
Engineer: SDD						
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
08/11/22	08/30/22	10/04/22	xx/xx/22	xx/xx/22	xx/xx/xx	Div 1 – 120 days Div 2 – 150 days

Key Activities: There are currently 3 general contractor plan holders. Pre-Bid meeting was held as scheduled.

20ENG15 Water Tower Painting Project:

SCOPE: Power Wash, Surface preparation and overcoat of plant water tower. Included is a power wash of t wet interior for inspection, installation of the SDD logo on the tower and power wash of the gas sphere in front of the digester complex.						
Contractor: TBD			R.E. Inspector: SDD			
Engineer: Donohue and Associates						
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
08/03/22	08/17/22	09/07/22	xx/xx/22	xx/xx/22	xx/xx/xx	360 days-Substantial

Key Activities: Bids were opened this last period and there is a motion for consideration before the board to award this contract.



22ENG45 Primary Clarifier #5 Replacement Project:

SCOPE: Power Wash, Surface preparation and overcoat of plant water tower. Included is a power wash of t wet interior for inspection, installation of the SDD logo on the tower and power wash of the gas sphere in front of the digester complex.						
Contractor: TBD			R.E. Inspector: SDD			
Engineer: SDD						
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
09/16/22	09/27/22	10/18/22	xx/xx/22	xx/xx/22	xx/xx/xx	300 days-Substantial

Key Activities: Plans and Specs were completed this last period and the project has been advertised.

20-10 De-chlorination Facilities (Bisulfite Tanks Replacement):

SCOPE: Remove and rebuild knock out wall to facilitate removal and installation of new sodium bi-sulfite tanks. Additional tuck point repairs throughout building to be performed within project. Tank removal and installation to be performed by SDD maintenance.	
Contractor: TBD	Engineer: SDD

Key Activities: Fabrication of tanks is ongoing. Delivery ETA is between 10 and 13 weeks. Staff is developing a specification for fixing the knockout panel in the building. This work will be advertised before the next trustee meeting.

21ENG40 Replacement of Sludge Transfer Pump:

SCOPE: Remove and replace the existing Abel Sludge Transfer Pump (south) that has reached the end of its useful life.	
Contractor: TBD	Engineer: SDD

Key Activities: Plan sheets have been completed and final changes are being made to the specifications. This work will be advertised prior to the next trustee meeting.

NON-CONSTRUCTION ACTIVITY

ADMINISTRATIVE OFFICE MASTER PLANNING:

Staff is expecting the Request for Qualifications (RFQ) for architectural firms to submit on designing a new ‘Workforce and Administration Complex’ to be issued before the next trustee meeting.

21ENG51 Wet Weather Interceptor Capacity Study – Damon to Treatment Plant

Good rainfall events have allowed the flow monitoring for this work to be completed this month. Burns and McDonnell has started the data analysis.

20-17 Sewer Pre-Cleaning Televising and PACP Rating

The district utilizes NASSCO PACP ratings to standardize the condition of sewer pipes. The asset management program targets an assessment every 10 years. We perform pre-cleaning and televising in advance of final sewer cleaning to highlight areas where SDD needs to extend extra effort to clean the sewer prior to rating the pipe. The PACP rating is a professional service offered by Telescan here in Decatur. Telescan completed the last segments of sewer Pre-Cleaning this last period.

- 1. Stevens Creek North 22,646 LF 100% complete
- 2. West Mound Branch 6,361 LF 100% complete
- 3. Northside Interceptor 9,898 LF 100% complete

Integration of these reports into the GIS asset management system will be an initial task of the newly hired GIS technician.

21ENG04 Force Main Inspection

<<Update: A kickoff meeting was held on 08/23/22 for the planned inspection of the Finley Creek FM (16") (5300 LF of ductile iron pipe) and the 8" Wyckles force main. The current schedule is expecting a field recon visit the week of 09/19/22. The following week of 09/26/22 the data gathering is scheduled to take place.

Plans to inspect the condition of existing force mains is underway. A data gathering device is inserted into a live pipeline, and it travels with the wastewater while collecting pipe wall data for metallic pipes and acoustic data for all pipes, which will be used to identify leaks and gas pockets at the same time.

UPCOMING PROJECTS:

21ENG30 - East Headworks Grit Flow Modeling – Clemson Engineering Hydraulics

Staff met with the engineers in August to discuss the current state dye model results. The engineers are now modeling potential solutions to eliminate grit settlement issues.

The district experiences imbalanced grit loading through the Headworks (structure 201). This project is to build a scale model of flow/grit through structure 201.

21ENG42 – Post Anaerobic Digestion (PAD)

Staff reviewed this budgeted project with Black and Veatch (BV) in June. The district has now received the TM from BV. The TM confirms the process applicability for future BNR operations and provides the design specifications necessary under the BNR treatment systems. Staff is reviewing the TM and will offer comments back to BV prior to recommending any action on the content of the memorandum.

21CMP05 – Fairview Park Overflow Structure Modifications

The contractor is expecting to begin this work on Monday, 09/19/22. The work should be completed in 5 workdays.

The modification is to install a new manhole over the overflow weir to facilitate compliance reporting. Staff received quotes to modify the existing outfall structure in Fairview Park. One quote was received, and it exceeded the 40K procurement limit. This was largely due to the cost of stainless-steel members (20' C10x3 c-channel) that need installed to structurally support the existing cover. Staff did not award the work and is pre-purchasing the steel and will be requesting installation only quotes.

22ENG02&10 – Force Main Renewal (Lost Bridge and Country Club)

<<Update: After reviewing similar projects submitted by various engineering firms, staff has entered into negotiations with Clark Dietz Engineers out of Champaign, who is performing engineering services with SDD currently at Lake Shore Drive PS and drafting services on an as needed basis. Staff had requested project lists from engineering firms who have designed wastewater force main projects that cross over/through/underneath rivers/drinking water reservoirs. The FM renewals project includes replacement of cast iron segments of the Country Club interceptor and the Lost Bridge 10" interceptor that crosses underneath Lake Decatur. We expect to have a professional services agreement for trustee consideration at the October trustee meeting.



DIRECTOR OF ENGINEERING REPORT

Sep 21, 2022

22ENG44 – Grit Classifier Replacement

Staff has started gathering cost information for in-kind replacements of the grit classifier and grit conveyor removal system. We expect to have the information available by the trustee meeting and an update will be provided at that time.

INTERGOVERNMENTAL ACTIVITIES

None

If there are any questions, please contact me by telephone at 422-6931 ext 216, or by email at DonM@sddcleanwater.org.



September 12, 2022

Mr. Donald Miller
Sanitary District of Decatur
501 S. Dipper Lane
Decatur, IL 62522

Re: Lakeshore Drive Lift Station Replacement Project
SDD Project No. 20-01
Clark Dietz Project No. D0540030
Monthly Progress Update

Dear Mr. Miller:

This letter summarizes the work of the Lakeshore Drive Lift Station construction project for the period from July 30 to August 26, 2022. The status of the construction is as follows:

- Submittals: Christy-Foltz has sent 100 submittals, one was reviewed and returned during this period.
- RFIs: Christy-Foltz has sent 20 RFIs, none were reviewed and returned during this period.
- RFPs and Change Orders: There has been two Change Orders: CO 1 at the beginning of the project eliminated the 20-inch forcemain and CO 2 in March 2022 was for additional pipe materials. We have also sent three field orders.
- Pay Application: Christy-Foltz has sent twelve pay applications.
- Meetings: Clark Dietz prepared agendas, lead, and prepared minutes for two construction progress meeting during this billing period, at your request.
- Communications: The contractor has sent two time change requests (October 2021 and March 2022). We reviewed both, found their justifications inadequate, and response letters for both. In July we sent them a letter informing them of their failure to achieve the deadline for Substantial Completion and noting that the District intends to assess liquidated damages.
- Schedule: Christy-Foltz's most recent project schedules was submitted on July 15, 2022. As previously noted, the rate of progress of construction has increased during the last several months and the Contractor is making a good effort to finish the project. This most recent schedule shows them getting to substantial completion on August 15, 2022, 135 days after the contract date. Startup occurred on August 22, 2022 and the has been operational since then.
- Bypass pumping delays: though bypass pumping setup, startup, and testing was the primary cause of the contract delays. This system operated from December 2021 through August 2022. The bypass pump operation has been concluded since the lift station has been started up.
- Construction review: with the increased amount of work on site, we have had our design and construction technician, who is working in Decatur, visiting the site and talking to the superintendent for an hour or two, two or three times per week.

The contract dates are summarized as follows:

- April 2, 2022 – Substantial Completion
- May 2, 2022 – Final Completion



In September we anticipate that the contractor will complete major construction items including site restoration work. We expect that substantial completion will be obtained this and that a punchlist will be developed and provided to the contractor.

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

August 19, 2022

Sanitary District of Decatur
501 Dipper Lane
Decatur, IL 62522

Attn: Don Miller, Director of Engineering

Re: 21ENG40 Sludge Transfer Pump Replacement
Project Status Report

Dear Don:

We are pleased to provide the following project status summary for the 21ENG40 Sludge Transfer Pump Replacement project that Farnsworth Group is working on for the District. Our most recent monthly invoice for work on this project is attached for your consideration.

1. 21ENG40 Sludge Transfer Pump Replacement:

A. Design Coordination:

- 4/7/22: FGI conducted Initial site visit to obtain field measurements and project information.
- Design review of replacement pump equipment data and information furnished by the District.
- Initial layout of two (2) replacement pump configurations for review by the District and coordination with the pump manufacturer. Conducted conference call meetings with the District to review layout options and select the option to proceed with design.
- 7/29/22: FGI submitted pre-final plan drawings for review by District staff.
- 8/2/22: District provided review comments of the pre-final plan drawing set.
- 8/3/22: FGI submitted final plan drawings with technical specifications included on the drawings. This final set incorporated the District's final review comments and should be ready for the District to solicit bids/quotes from Contractors.

- B. As of this Project Invoice #2 (Invoice No. 235771), we have billed \$15,735.60 to date on the project scope which is 85% of the total estimated fee of \$18,500.

Sanitary District of Decatur

August 19, 2022

Page 2 of 2

If you have any questions or need any additional information regarding the status of this project, please feel free to contact me any time. Thanks.

Sincerely,

FARNSWORTH GROUP, INC.

Kevin N. Hannel, PE

Sr. Engineering Manager

August 31, 2022

Don Miller, PE
 Director of Engineering
 Sanitary District of Decatur
 501 South Dipper Lane
 Decatur, IL 62522

RE: Status Report #4
 Sewer System Capacity Evaluation – Damon Avenue to Treatment Plant

Dear Mr. Miller:

In August 2022, Burns & McDonnell Engineering Co., Inc. performed the following work for the subject project:

- Collected and reviewed flow meter and rain gauge data. See our summary table below that was completed on August 23rd.

Project Name:	SDD Sewer System Capacity Evaluation			
Project No:	147122			
By:	DM			
Updated:	8/23/2022			
Meter-Days:	847			
Days of analysis:	23			

Flow Meter ID	Meter Install Date	Meter Sensor Adjustment/ Replacement	Days of Flow Monitoring	Pipe Size
FM-100	6/16/2022		76	60"
FM-101	6/15/2022		77	45"
FM-102	6/15/2022	6/30/2022	77	60"
FM-103	6/14/2022		78	48"

Flow Meter ID	Meter Install Date	Meter Sensor Adjustment/ Replacement	Days of Flow Monitoring	Pipe Size
FM-104	6/14/2022		78	30"
FM-105	6/16/2022		76	48"
FM-106	6/15/2022	6/30/2022	77	42"
FM-107a	6/16/2022		76	27"
FM-107b	6/17/2022		75	27"
FM-109	6/14/2022		78	33"
FM-110	6/13/2022		79	24"

- Analyzed a total of seventeen (17) rain events that have occurred over the duration of the project, seven (7) of which were substantial (i.e. greater than 0.2 inches of rain).
- Performed flow monitoring field services on August 1st, 2nd, 29th and 30th.
- Attended virtual progress meetings on August 18th and 26th to provide a project update to SDD.

We appreciate the opportunity to serve the Sanitary District of Decatur. If you have any questions regarding this status report, please feel free to contact us.

Sincerely,

Paul St. Aubyn, PE
 Project Manager

Sanitary District of Decatur, IL

Water Tower Painting / SDD Project No. 20ENG15

Tuesday, September 6, 2022

Item Number	Items	Approx. Quantity	Unit	Tecorp, Inc		Jetco, Ltd.		Neumann Co. Contractors, Inc.		Engineer's Estimate	
				Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
				Bid Bond: 5% Addendum? Y Bidder Form? Y MBE/DBE? Y		Bid Bond: 5% Addendum? Y Bidder Form? Y MBE/DBE? Y		Bid Bond: 5% Addendum? Y Bidder Form? Y MBE/DBE? Y			
1	All Work Except For tems No. 2 Through No. 8	1	LS	\$10,000.00	\$10,000 00	\$15,700	\$15,700	\$20,600.00	\$20,600	\$12,000.00	\$12,000
2	Surface Preparation and Topcoating Exterior Surfaces of 300,000 gallon Water Tower	1	LS	\$142,000.00	\$142,000.00	\$148,581	\$148,581	\$115,700.00	\$115,700	\$150,000.00	\$150,000
3	Power Wash Wet Interior Surfaces of 300,000 gallon Water Tower	1	LS	\$18,000.00	\$18,000 00	\$20,700	\$20,700	\$7,500.00	\$7,500	\$6,000.00	\$6,000
4	Power Wash Exterior Surfaces of Gas Holding Sphere	1	LS	\$8,500.00	\$8,500.00	\$17,840	\$17,840	\$14,000.00	\$14,000	\$6,000.00	\$6,000
5	Contingency Allowance	1	LS	\$5,000.00	\$5,000.00	\$5,000	\$5,000	\$5,000.00	\$5,000	\$5,000.00	\$5,000
6	Dry Interior Platform Coatings	1	LS	\$55,000.00	\$55,000 00	\$55,290	\$55,290	\$23,300.00	\$23,300	\$60,000.00	\$60,000
7	Unsuitable Dry Interior Coating Touch Up	1500	Sq-In	\$10.00	\$15,000 00	\$5.35	\$8,025	\$3.00	\$4,500	\$5.00	\$7,500
8	Wet Interior Access Tube Coating	1500	Sq-In	\$10.00	\$15,000 00	\$5.35	\$8,025	\$4.40	\$6,600	\$5.00	\$7,500
TOTAL, AS READ				\$268,500.00		\$279,161.00		\$197,200.00		Engineer's Estimate	
TOTAL, CORRECTED				\$268,500.00		\$279,161.00		\$197,200.00		\$254,000.00	



Donohue & Associates, Inc.
1605 South State Street, Suite 1C | Champaign, IL 61820
217.352.9261 | donohue-associates.com

September 12, 2022

Sanitary District of Decatur
501 S. Dipper Lane
Decatur, IL 62522

Attn: Mr. Don Miller, PE
Director of Engineering

Re: Water Tower Painting / SDD Project No. 20ENG15
Bid Award Recommendation Letter

Dear Don,

On September 7, 2022, the District opened sealed bids for the Water Tower Painting project. As the attached Bid Tabulation shows, three bids were received. The low bid was received from Neumann Company Contractors of Merrilan, Wisconsin who's Bid was \$197,200.00.

Donohue estimated that the project would cost approximately \$254,000.00. As one can see, the low bid has come in 28.8% below the engineer's estimate. Donohue has worked with Neumann Company on a past construction project in 2017, and we view them to be a responsive and responsible contractor. Donohue recommends the contract be awarded to Neumann Company Contractors.

Enclosed please find three (3) copies of the Notice of Award and one copy of the Bid Tabulation. If the Board approves the award of this contract during its next meeting, please sign all three copies and ***forward all three copies of the Notice of Award back to me*** and I will have Neumann sign them as well. Eventually, I will re-send it back to you with all the signed contract documents in a bound specification booklet ("executed contract"). Please call me at 217-903-4437 if you have any questions about this.

Sincerely,

DONOHUE & ASSOCIATES, INC.

Terrence K. Boyer, P.E.
Project Manager