



ENGINEERING REPORT

February 15, 2023

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: Ballast block supports have been installed and ballast block installation is beginning. No new construction issues.

Issues: An updated progress schedule was received this last period and rejected. Several pending tasks were shortened by half without explanation as to what procedural changes were being made to affect the changes. Latest schedule projects a completion date of 03/23/23.

Pending Changes:

1. Replacing manway hatch on Digester #4 (Unit cost). \$ 28,776.00 -FINAL CO
2. Delamination of coatings on Digester #3 is being addressed as contractor completes the installation of the cover. Contractor was directed to perform the work on a T&M basis. \$ T&M

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

Key Activities: Construction is complete.

Issues: No new issues outside of liquidated damage assessment determination.

Pending Changes:

1. Additional fencing added because of requested grading modifications and fence corner relocations \$ 9,028.00
2. Additional OT hours caused by West Plant discharges. \$23,388.76.
3. Set-offs due to liquidated damages
4. Generator installation modifications (combination of new requirements issued by State Fire Marshall and Owner Requested modifications) \$9,947.17
5. Modifications to sidewalk, installation of concrete pad and bollard installation by diesel fill port. \$7,769.29
6. Tree Removal (Ameren requirement for installation of power feed) \$3,712.50
7. Additional grating in generator room \$2,734.60

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: Neumann Company Contractors				Original Contract Price: \$197,200		
Engineer: Donohue and Associates						
R.E. Inspector: SDD						
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
08/03/22	08/17/22	09/07/22	09/21/22	11/10/22	xx/xx/23	360 days-Substantial

Key Activities: Staff is waiting for a confirmation from the contractor on the expected mobilization date. We still expect the contractor to begin work late spring 2023.

NON-CONSTRUCTION ACTIVITY

ADMINISTRATIVE OFFICE MASTER PLANNING:

Staff received Request for Qualifications (RFQ) for the design a new ‘Wastewater Reclamation Office Complex’ (name to be determined later) this last period.

RFQ submittals were reviewed this last period and the selection committee agreed to short list 4 firms to make additional presentations to the committee for consideration. Those firms were (in alphabetic order):

Firm	Presentation Date / Time
Burns and McDonnell Engineering Co., Inc.	March 1, 2023 @ 1:00 PM
Crawford Murphy and Tilley Engineers	March 1, 2023 @ 2:30 PM
Dewberry Architects, Inc	March 2, 2023 @ 1:00 PM
HDR	March 2, 2023 @ 2:30 PM

Submitting firms have all been notified of their status and their presentation dates have been requested as listed in the table above.

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

Finishing touches are being put on the final capacity study report. The final report is expected to indicate sufficient excess capacity with a 5-year, 6-hr storm and that capacity is exhausted with a 25-year, 6-hour storm. The city collection system is designed for a 5-year, 3-hr storm.

21ENG04 Force Main Inspection

Finley Creek FM (16”) (5300 LF of ductile iron pipe) and the 8” Wyckles force main. Staff has received the final report from RJN and is currently reviewing the final draft.

UPCOMING PROJECTS:

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

<<No Update>>

22ENG44 – Grit Classifier and Conveyor Replacement

Bid specifications preparation continued this last period; plan sheets have been finalized. Staff received and reviewed the classifier submittal this last period it has been approved.

22ENG08 – Roofing Replacement/Repairs Project

<<No Update>>

22ENG08 – Road Repairs

The district has an ongoing roadway maintenance program. Staff is working through the asset planning for additional sealcoating needed for this spring.

East Headworks Structural Modifications

Resulting from the Grit Modeling Study, staff is reviewing the modifications required to address the grit settlement issues and is evaluating the cost of the modifications.

INTERGOVERNMENTAL ACTIVITIES

The CITY has requested additional feedback on their plans to address basement backups caused by stormwater during rain events in Basin 5/6. This issue was addressed with the CITY at our standing quarterly meeting this last period.

CITY is moving forward with the planning for a new pump station SW intersection of Brush College and Hubbard.

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

ACTIVE PROJECTS

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: Christy-Foltz				Original Contract Price: \$632,047		
Engineer: SDD						
R.E. Inspector: 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	10/26/22	11/16/22	11/15/22	Div 1 – 120 days Div 2 – 150 days

Key Activities: Demolition of existing front gate and entrance lane in progress. Entrance lane curbs and duct bank poured. Front barrier 1 wall poured (28-day break pass), barrier 2 bollard, and barrier 3 wall pour completed (awaiting final break results). Sodium bisulfite tank pad pour and access piping complete. Dechlorination road patch complete. Staff met with the sign manufacturer this last period to begin development of exterior entrance signage.

22ENG45 Primary Clarifier #5 Replacement Project:

SCOPE: Removal and replacement of the existing primary clarifier. Work will include the procurement, installation and commissioning of a new circular primary clarifier and appurtenances. Painting of UV light exposed and submerged carbon steel components, and miscellaneous electrical adjustments to facilitate the removals and commissioning of the new process unit.						
Contractor: Plocher				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	11/01/22	11/17/22	11/30/22	Mid June	330 days-Substantial 360 days - Final

Key Activities: Component delivery expected first full week in September 23'. Submittals continue to arrive, and reviews are expected to complete by first part of March. Key dates are demolition starting 08/09/23, coating removal/reapplication start 08/23/23, clarifier install start 09/06/23, and cleanup/demobilization finish 10/12/23.

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: Burdick Plumbing and Heating				Engineer: SDD		
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
09/21/22	10/11/22	11/03/22	11/17/22	01/09/22	12/20/22	180 days-Substantial 210 days - Final

Key Activities: Initial product submittal review completed by owner. Pump released for production on 01/03/23 with expected completion date of manufacturing on 09/12/23. Installation expected to proceed delivery and require approximately 45 calendar days to complete. Change of dates for substantial and final completion will follow manufacturer's firm delivery date schedule.



Memorandum

Date: February 6, 2023
To: Donald B. Miller, P.E., Director of Engineering
From: Will Gray, P.E., Donohue & Associates
Re: **Project Status Report**
2020-07 Digester Improvements Project
Donohue Project No. 13782

Project Progress Items

- The contractual substantial completion date is Sept. 22, 2022. As of this letter’s day, C-F is 137 days beyond substantial completion.
- Christy-Foltz has finished welding the intermediate support ring. They are currently working on welding the roof sheets to the structural frame. C-F is also working on ballast support frames when weather does not allow for welding work on the roof sheets.
- SDD is using a certified weld inspector (CWI) to inspect the completed welds.

Updated: 2-6-2023

	Open	Closed	Total
Submittals	0	10	10
RFI	0	8	8
Change Order Request	2	15	17
Change Orders	1	4	4

CHANGE ORDER LOG

- Change Order #1 has been executed, \$42,549.39.
- Change Order #2 has been executed, \$46,173.89.
- Change Order #3 has been executed, \$442,219.00. Add 193 days to contract.
- Change Order #4 has been executed, \$65,527.88.
- Change Order #5 has two items.



January 27, 2023

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

RE: Status Report #9
Sewer System Capacity Evaluation – Damon Avenue to Treatment Plant

Dear Mr. Miller:

In January 2023, Burns & McDonnell Engineering Co., Inc. performed the following work for the subject project:

- Finalized design storm development and performed existing conditions analysis using the calibrated hydraulic model
- Presented the findings from the existing conditions analysis in a workshop with the Sanitary District of Decatur on January 18th, 2023
- Prepared a DRAFT Hydraulic Model Report to be submitted to the Sanitary District of Decatur not later than February 1st

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