



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

22ENG44 East Headworks Grit Classifier Replacement:

SCOPE: Removal and replacement of the east headworks grit classifiers, grit removal conveyor and all appurtenances necessary to deliver a fully functioning integrated grit washing and removal system. SDD has pre-purchased grit washers, the removal conveyor, and grit dumpster distribution sweep plate. Contractor will assume responsibility for coordinating receiving, unloading, and staging equipment from the manufacturers.						
Contractor: Christy-Foltz, Inc				Original Contract Price: \$169,950.00		
Engineer: SDD						
R.E. Inspector: SDD						
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
05/10/23	05/30/23	06/15/23	06/21/23	TBD	TBD	TBD

Key Activities: Grit removal conveyor arrived this last period. District staff unloaded and stored the equipment in the inventory building until the classifiers arrive. We are still anticipating a mid-October delivery of the Grit Classifiers.

21CMP04 Fermentation Reactor Pilot:

SCOPE: The construction of a pilot fermenter system which will include installation of a new primary sludge pump in the existing Primary Clarifier Control Structure (Structure 210) and associated piping; piping modifications downstream of existing waste activated sludge (WAS) pump in the WAS Pump Station (Structure 112); a new compressed air mixing system; a steel frac tank that has been fabricated as a fermenter (Temporary Structure 100) and requires connections to primary sludge, WAS, compressed air mixing system, odorous air treatment system, and Primary Effluent Channel (Structure 022).						
Contractor: TBD				Original Contract Price: \$956,796.00		
Engineer: Black and Veatch						
R.E. Inspector: SDD						
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

Key Activities: The new primary sludge pump, frac tank, compressed air mixing system and one adjustable speed drive have been purchased and are being assigned to the contractor to assume delivery coordination.

A new SCADA screen and integration for monitoring this reactor’s operation is required for this project. That integration will be performed by an Application Engineer. Staff has used Farnsworth Group for these efforts in the past and has completed negotiation with them for that work. *There is a professional services agreement before the board for consideration.*

NON-CONSTRUCTION ACTIVITY

22ENG31 ADMINISTRATIVE OFFICE COMPLEX:

Staff has completed negotiations with Architectural Expressions this last period for this work. *There is a professional services agreement before the trustees for consideration.*

22ENG02 – Lost Bridge Force Main Renewal

A professional services agreement for the design and construction related services in replacement of Lost Bridge 10” force main was approved at the June 21, 2023 trustee meeting. Staff had a kickoff meeting with Clark Deitz Engineers (CDI) this period to launch the design effort. Preliminary investigation work is ongoing for this project. SDD will be engaging a firm to perform soil borings. One at the anticipated launch site for HDD pipe, One at the anticipated landing site, and a two additional on each side of the bridge to confirm soil characteristics below the bottom of the lake.

Dewatering Well Cleaning

Staff is unable to dewater the North Cluster of clarifiers for maintenance due to the uplift of groundwater below the tanks. There are a series of groundwater dewatering wells around each cluster of clarifiers that should enable site specific dewatering. Groundwater levels should be 20’ below the ground surface elevation before dewatering to protect the infrastructure. The wells are generally, 30’ deep. Staff has only been able to dewater the groundwater to approximately 15 ft below grade. We are obtaining quotes to enlist a well cleaning service to pressure/acid wash the well screens.

UPCOMING PROJECTS:

Collection System Master Plan - Resiliency Evaluation

The District entered into an agreement with Clark Dietz for this work in July-03.

This scope of work will focus on the NE Quadrant of Decatur. Staff anticipates this will be a multi-year master planning effort.

All requested GIS, FM and sewer profile details have been provided to Clark Dietz to begin their evaluation.

Clarifier Rehabilitation (South Cluster)

Similar to previous projects, staff is utilizing drafting services from Clark Dietz for preparing drawings necessary for this project. 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.

Development of the plan drawings is ongoing.

INTERGOVERNMENTAL ACTIVITIES

Don participated in additional meetings of the CITY, ADM and SDD “NE quadrant work group” looking at water and wastewater needs. Staff has requested ADM service partners formally supply information regarding the wastewater flows and is still waiting for those confirmations. This is to officially document the anticipated pumping demand for the Brush College pump station. This needs to be quantified quickly to confirm the assumed size and destination of the discharge force main from the station.

Noted previously, a larger energy producing partner is planning for a peak of 1.8 MGD of wastewater conveyance needs and process water/cooling tower demand that is much higher. We were notified this week that there is an ongoing evaluation that may change this amount.



DIRECTOR OF ENGINEERING REPORT

Aug 16, 2023

Staff has also been engaged in responding to questions in this NE corridor regarding a potential development that could request as much as 3 MGD of additional wastewater conveyance capacity.

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



PROJECT MANAGER REPORT

August 3rd, 2023

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ACTIVE PROJECTS

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			Original Contract Price: \$1,155,600.00			
Engineer: SDD			Sum of Change Orders: \$0			
R.E. Inspector: SDD			Total Value: \$1,155,600.00			
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	Feb 2024 (tentative)	330 days-Substantial 360 days - Final

Key Activities: Component delivery moved from October 2023 to late February 2024 (provided by Walker Process representative). There has been no change to the February delivery date.

Plocher has taken measurements in primary clarifiers #4 and #6 to include in the procurement bid package that is currently being prepared.

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			Original Contract Price: \$303,574.00			
Engineer: SDD			Sum of Change Orders: \$0			
R.E. Inspector: SDD			Total Value: \$303,574.00			
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	01/09/23	12/20/22	180 days-Substantial 210 days - Final

Key Activities: Meeting with Burdick at the start of the month and obtained project schedule. Pump removal to start mid-August. Installation expected to require approximately 45 calendar days to complete. Change of dates for substantial and final completion will follow manufacturer’s delivery.

22ENG08 Roof Replacement and Maintenance Project

SCOPE: Wet Insulation replacement and wood nailer replacement. EPDM roofing maintenance throughout complex buildings. Modified Bituminous Membrane roofing repair and replacement as needed. Metal roof panel installation and replacement of roofing system. Fluid Applied Roofing repair and replacement as needed. Miscellaneous shingles to be fixed, and granular roofs to be touched up.						
Contractor: TBD			Original Contract Price: \$TBD			
Engineer: SDD			Sum of Change Orders: \$0			
R.E. Inspector: SDD			Total Value: \$TBD			



PROJECT MANAGER REPORT

August 3rd, 2023

Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
07/13/23	07/20/23	08/07/23	TBD	TBD	TBD	90 days-Substantial 120 days - Final

Key Activities:

Received the Infrared Roofing Technologies (IRT) report on the wet insulation that needs to be replaced for this 2023 project. Bid opening occurred on 8/7. Staff received one bid for this project (\$364,460) that far exceeded the expected cost of the work. The contractor assumed a recoat of the entire surface area of several buildings, where only spot repairs were required. Staff is recommending rejection of this bid and rebidding the work.

22ENG09 Seal Coating and Road Repair

SCOPE: Removal and replacement of roadway around the Digester complex, Water tower access road, and various patches around the Sanitary District Plant. Seal coating around the Administration building, and Maintenance building. Restriping of the parking lots adjacent to the maintenance and administration buildings.						
Contractor: Dunn Company, INC.			Original Contract Price: \$196,365.00			
Engineer: SDD			Sum of Change Orders: \$0			
R.E. Inspector: SDD			Total Value: \$196,365.00			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
05/26/23	06/13/23	06/29/23	07/19/23	07/25/23	08/08/23	90 days-Substantial 120 days - Final

Key Activities: Contract awarded to Dunn Company, INC. in July. Pre-construction meeting completed as scheduled on August 8th and project schedule under review by the Engineering Department (anticipate the starting the end of August).

23ENGXX Sidewalk and Stairs Replacement Project

SCOPE: Removal and replacement of the stairs east of the Admin building, handrails and panels of broken sidewalks adjacent to them.						
Contractor: TBD			Original Contract Price: \$TBA			
Engineer: SDD			Sum of Change Orders: \$0			
R.E. Inspector: SDD			Total Value: \$TBA			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
			TBD	TBD	TBD	90 days-Substantial 120 days - Final

Key Activities: Plans sheets are complete. Technical specifications are anticipated to be completed week of 08/19/23. Advertisement of the work will occur shortly thereafter.