



DIRECTOR OF ENGINEERING REPORT

Oct 16, 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

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, break room, multi-purpose meeting room.						
Contractor: Christy-Foltz			Original Contract Price: \$14,961,550.00			
Engineer: AEX			Sum of Change Orders: \$0			
R.E. Inspector: SDD			Total Value: \$14,961,550.00			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
06/25/24	07/02/24	07/30/24	09/27/24	10/09/24	10/08/24	365 days

Permit approval was received during this period. The pre-construction meeting was held and a Notice to Proceed has been issued. We expect the contractor to be mobilizing and setting up the planned storm water protection within the next two weeks.

During the pre-construction meeting, there was a concern regarding the delivery time on the electrical transformers included in this project. Contractor is being told lead time for the specified transformer is 152 weeks (almost 3 years). We are working with the electrical subcontractor to develop an alternative.

UPCOMING PROJECTS:

STUDY – WRRF Groundwater Dewatering Plan Study

Plans and specifications have been drafted, checked and require some modification. Staff is making the necessary changes now. We expect to have this project advertised within the next month.

STUDY – Detailed Assessment of Primary Clarifier Control Structure (Building 210)

Staff is working with Black and Veatch to determine a rehabilitation path forward on the existing Primary Clarifier Control Structure. The underside of the deck in 210 shows “alligator” cracking which, structurally can indicate there is an alkali silica reaction (ASR) inducing cracking of the deck. Black and Veatch structural staff has requested SDD perform a petrograph analysis on this area of the deck. The petrograph core sample is being collected by SKS engineers this week. SDD will send off for analysis.

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 Complete
95% Design for Review	Sep 20, 2024 Complete
Advertise	Oct 08, 2024 Scheduled 10/22/21
Bid Open	Dec 03, 2024
Award	Dec 18, 2024

Staff had 95% document reviews this last period with Donohue. Adjustments have been made and are back in Donohue’s internal QC review.



DESIGN – EASTSIDE INTERCEPTOR CIPP LINING

SDD entered into a design agreement with Farnsworth Group in Sept-2024 for this project. The projected timeline is:

- | | |
|--|----------|
| 1. Submission of Facility Planning Report | 12/2024 |
| 2. Topo/Boundary Survey/Easements (target) | 02/2025 |
| 3. Design Engineering Complete w/cost update | 03/2025 |
| 4. IEPA Facility Planning Approval | 06/2025 |
| 5. Advertise | 07/2025 |
| 6. Bid Open | 09/2025 |
| 7. SRF Loan Approval (if rank priority is given) | 10/2025* |
| 8. Final Award | 11/2025* |

*Because the funding for this project is an SRF loan, there is dependence on the loan being made available prior to final award.

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.

INTERGOVERNMENTAL ACTIVITIES

1. 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. 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. The project timelines have been slipping with the ADM service partners delaying their start-up dates.
2. Staff coordinated with the CITY this last period to secure the permit for the administration building.
3. *Coordination with the CITY IT department to prepare an intergovernmental agreement between the CITY and the SDD. Note the intergovernmental agreement is attached. It includes a draft (to be finalized after work is completed) of the change order for the Lost Bridge Road FM upgrades that the CITY will reimburse SDD for upon completion.*

If there are questions, please contact me at 217-422-6931 ext 216, or by email at DonM@sddcleanwater.org.



PROJECT MANAGER REPORT

October 16th, 2024

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ACTIVE PROJECTS

22ENG02 Lost Bridge Force Main Replacement

SCOPE: Installation of a 14-inch force main under Lake Decatur via horizontal directional drilling, abandonment of existing 10-inch force main route, installation of piping, connections, valves, valve vaults and fittings, paving improvements, site restoration, and other ancillary improvements.						
Contractor: Burdick Plumbing & Heating Co.			Original Contract Price: \$2,986,151			
Engineer: Clark Dietz			Sum of Change Orders:			
R.E. Inspector: SDD			Total Value: \$2,986,151			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
				6/25/24	7/25/24	3/21/25

Key Activities: ECI Contacting experienced difficulties drilling through sand and gravel formations and mechanical issues have caused delays in the pilot bore. The project is currently 2 weeks behind the planned boring schedule.

The City has an interest in getting a fiber optic line under the lake to connect schools and fire stations to the public network. SDD was approached about the possibility of our boring contractor pulling another conduit at the same time along with the 14" force main we currently have under contract. Utilizing the SDD existing drilling operation for this conduit will save the City in excess of \$500,000, pending success of the pull.

Pending Changes

Item	Description	Est. Value
1	PVC pipe supplier requested to use blue pipe under the lake instead of green that was specified. Credit of \$545/pipe section was negotiated. (55 sections of pipe)	\$(30,000)
2	Additional pull of 2" fiber optic conduit (City Reimbursement)	\$82,000

24ENG17 Sewer Televising and Rating

SCOPE: Request for Proposals submitted to televise 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:			
R.E. Inspector: SDD			Total Value: \$143,396.25			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
02/29/24	03/14/24	03/28/24	05/16/24	06/04/24	06/04/24	10/31/24

Key Activities: Total pipe length for the 2024 project is 57,420 lineal feet and all televising is complete. Finalized PACP reports are expected to delivered on schedule.



PROJECT MANAGER REPORT

October 16th, 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: Christy-Foltz			Original Contract Price: \$84,650			
Engineer: SDD			Sum of Change Orders:			
R.E. Inspector: SDD			Total Value: \$84,650			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
07/02/24	07/16/24	08/06/24	08/06/24	09/10/24	09/17/24	120 days

Key Activities: Notice of Award issued on 9/10/24 and the pre-construction meeting was held on 9/17/24. Panels are ordered with a 6 week lead time. Construction is expected to commence in early November with a projected 3-week completion time

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: General Fence			Original Contract Price: \$158,863			
Engineer: SDD			Sum of Change Orders:			
R.E. Inspector: SDD			Total Value: \$158,863			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion Dates
07/02/24	07/30/24	08/29/24	09/30/24	10/17/24	10/17/24	120 days

Key Activities: The payment bond and certificate of insurance have been received from General Fence Co. and submitted to legal counsel for review. The notice to proceed will be issued during the pre-construction meeting.

22COL12 Damon Ave. Pump Station Upgrades

SCOPE: Project involves installation of two new electrical service duct banks, installing pre-procured dual service switchboard and ATS, and installation of contractor supplied 1600amp CT cabinet and electrical service meter bases.						
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	7/9/24	8/1/24	9/27/24	9/27/24	10/15/24	90 days

Key Activities: The notice to proceed was issued to expedite ordering and delivery of the CT cabinet and meter bases. Significant delays in receiving meter bases is expected due to supplier limitations. Project timelines will be adjusted as needed to accommodate the lack of available supplies.



PROJECT MANAGER REPORT

October 16th, 2024

23ENG45 Primary Clarifiers 4 and 6 Procurement

23ENG45 Primary Clarifiers 4 and 6 Installation

SCOPE: 1. Procure new Primary Clarifiers and; 1. Installation of pre-procured mechanisms in clarifiers #4 and #6.						
Manufacturer: Kusters Water			Purchase Price: \$1,296,742			
Contractor: TBD			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
03/12/24 - P	N/A	05/01/24	05/31/24	06/10/24		365 days
09/03/24 - I	10/1/24	10/29/24				180 days

Key Activities:

<<No Update on Delivery of Equipment>> Submittals have been approved and fabrication drawings approved. Specifications for the installation contract have been created and have been reviewed.

Bid documents for the installation of the owner purchased Primary Clarifiers mechanisms (#4 & #6) were advertised this period and pre-bid meeting was held October 1st. Two prime bidders are currently listed for the installation project and were represented at the pre-bid meeting.

22ENG43 Dewatering Wells West Cluster Relocation

SCOPE: Boring and installation of three 36" diameter wells to dewater the west cluster of nitrification clarifiers.						
Contractor:			Original Contract Price: \$			
Engineer: LRE Water			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

Key Activities: Design specifications are being finalized and Bid documents for the installation of 3 wells will be advertised within 30 days.