

50% DRAFT PROGRESS REPORT

To: Village of Kronenwetter
Leonard Ludi, DPW & Interim Administrator

From: Robert J. Roth, PE

Re: Lift Station 8 & Lift Station 4 Upgrade

Date: January 31, 2024

The Village of Kronenwetter's LS8 and LS4 project has commenced to a 50% design level and summary documents are attached with this memo.

- ❖ This memo, including a Summary of Project Items (Section 6 of the 50% Design Report)
- ❖ 50% Draft Design Report
- ❖ 50% Plans
- ❖ 50% Preliminary Estimates

The estimate for the LS8 project including soft costs and contingencies is \$1.6 million, with a 100% potential allocation to TID#2.

The estimate for the LS4 project including soft costs and contingencies is \$1.3 million, with a 58% allocation to TID#2.

The following key design elements are included in this lift station project:

1. Replacement of LS8 to an 8' diameter concrete wetwell and above-ground valve vault.
2. Replacement of 4" forcemain to 6" or 8" forcemain depending on specific pump operating point selection.
3. Possible elimination of existing air release manhole.
4. Addition of natural gas generator and automated transfer switch, estimated at 60 KW. This was not included in the original estimate.
5. Extension of 277/480 3-phase power to LS8 site.
6. Continuation of existing LS8 during construction.

7. Replacement of existing 8" diameter interceptor sewer from forcemain discharge to LS4 (Nelson Road Interceptor), to 12" diameter. This was not included in the original estimate.
8. Replacement of LS 4 to an 8' diameter concrete wetwell and above-ground valve vault.
9. Replacement of existing 4" forcemain to 6" or 8" forcemain, depending on specific pump operating point selection.
10. Addition of natural gas generator and automated transfer switch, estimated at 75 KW. This was not included in the original estimate.
11. Continuation of existing LS4 during construction.
12. Continuation of existing 208 3-phase power at LS4.
13. Replacement of existing 8" diameter interceptor sewer from forcemain discharge, along Old Highway 51 Road, towards LS5 (Nelson Road Interceptor), to 15" diameter. This was not included in the original estimate.
14. Evaluate/possible addition of manhole coatings as part of the construction capital cost to abate deterioration from hydrogen sulfide effects, from LS4 to LS5.
15. Site restoration and road restoration throughout the length of the project.

Please contact me with any questions or if additional information is needed.

Sincerely,

ROTH PROFESSIONAL SOLUTIONS



Robert J. Roth, PE
Project Engineer

