

September 17, 2020

Lyon County Board of County Commissioners Meeting

Lyon County Utilities Projects Update - Summary

Projects In Design

- 1 Rolling A Wastewater Treatment Facility Phase 4 Expansion
- 2 Sewer Lift Station 2 Replacement
- 3 Aspen Creek Rapid Infiltration Basin

Projects In Construction

- 4 Rolling A Plant Sludge Pond Abandonment
- 5 Hwy 50 Water and Sewer Replacement - Phase 1

Projects Completed

- 6 Sewer System Flow Meter and Water Sampling System Evaluation

Lyon County Utilities Department

Project Update September 17, 2020

Project 1: Rolling A Wastewater Treatment Facility Phase 4 Expansion



Description: The project will increase plant annual average treatment capacity from 1.0 Million gallons per day to 1.4 million gallons per day. Scope includes, (1) construction of new equalization tank, flow splitting structure, two sequencing batch reactors, thickening unit, and a dewatering unit and (2) rehabilitation of existing headworks and sequencing batch reactor.

Budget: \$15.0 MM (FY 2020)
Fund - Dayton Sewer Fund (624)
Expenditures To Date - \$1.26 MM

Schedule/ Status: Design completion: Mar., 2021
- 60% design submission Oct., 2020
- 90% design - Jan., 2021
- 100% design - Mar., 2021

Construction: Sept., 2021 - Mar., 2023

Change Orders: None

Notes:

Lyon County Utilities Department

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Project 2: Sewer Lift Station 2 Replacement



Description: The project will increase sewer pumping capacity from the existing Lift 2 matching with the Rolling A plant phase 4 expansion. Scope includes a new Lift Station (#2A, 1250 gallons per minute) across the Dayton Valley Rd, 12-inch force main from the new LS #2A connecting the existing LS 3A-Rolling A plant forcemain at Sutro Rd, South Plant connection, and flow metering.

Budget: \$7.5 MM (FY 2020)
Fund - Dayton Sewer Fund (624)
Expenditures To Date - \$0.84 MM

Schedule/Status: Design completion: Nov., 2020
- 60% design reviewed in Aug., 2020
- 90% design- Oct., 2020
- 100% design - Nov., 2020

Construction: Jun., 2021 - Dec., 2022

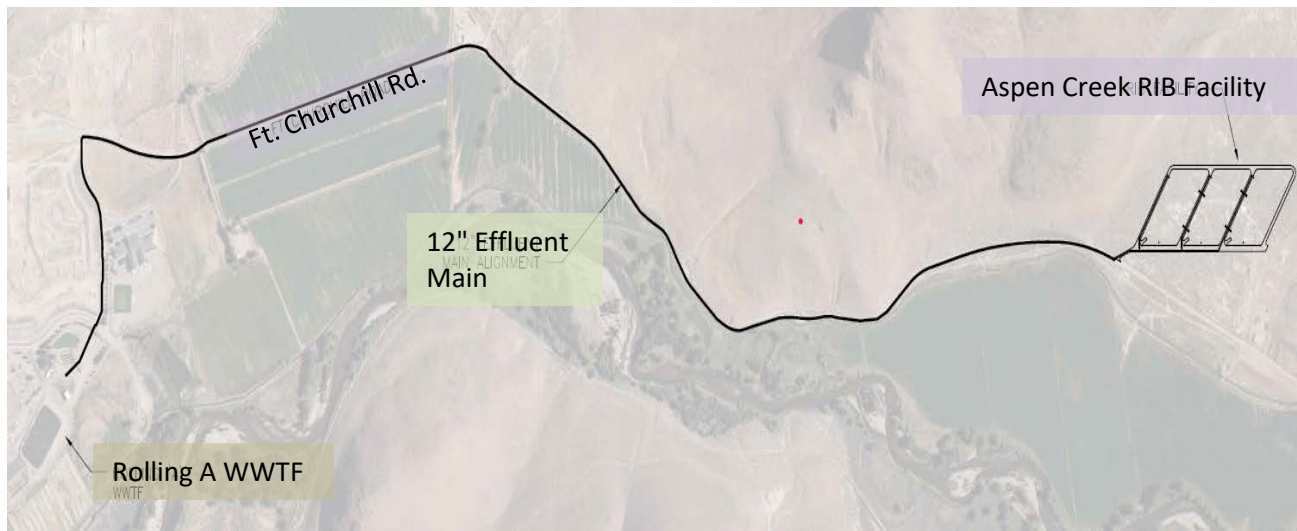
Change Orders: None

Notes:

Lyon County Utilities Department

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Project 3: Aspen Creek Rapid Infiltration Basins (RIBs)



Description: The project will provide effluent disposal capacity matching with the Rolling A Plant Phase 4 Expansion. Scope includes construction of a new 1.4 million gallon per day Rapid Infiltration Basin (RIB) facility, 12-inch forcemain from Rolling A plant to the RIB facility, and upgrade to the existing Rolling A effluent pump station.

Budget: \$6.5 MM (FY 2020)
Fund - Dayton Sewer Fund (624)
Expenditures To Date - \$0.2 MM

Schedule/Status: Design completion: Dec., 2020
- Design resumed following the property purchase agreement
- 60% design review completed in Aug., 2020
- 90% design- Oct., 2020
- 100% design - Dec., 2020

Construction: Mar., 2021 - Jul., 2021

Change Orders: None

Notes:

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Project 4: Rolling A Plant Sludge Pond Abandonment



Description: The project will clean the existing sludge storage pond. Scope includes dewatering of about 1000 dry tons of solids and disposal of about 5000 wet tons of sludge cake at the landfill (Carson and Lockwood). As part of the Rolling A plant expansion project, the pond will be converted to an Emergency Storage Basin.

Budget: \$1.9 MM (FY 2021 operating expense)
Fund - Dayton Sewer Fund (624)
Expenditures To Date - \$10,952

Schedule/Status: Construction completion: Dec. 2020
- Notice to proceed issued - Jul. 1, 2020
- About 600 tons of dry solids removed as of Aug. 2020
- Project progress is ahead of the schedule

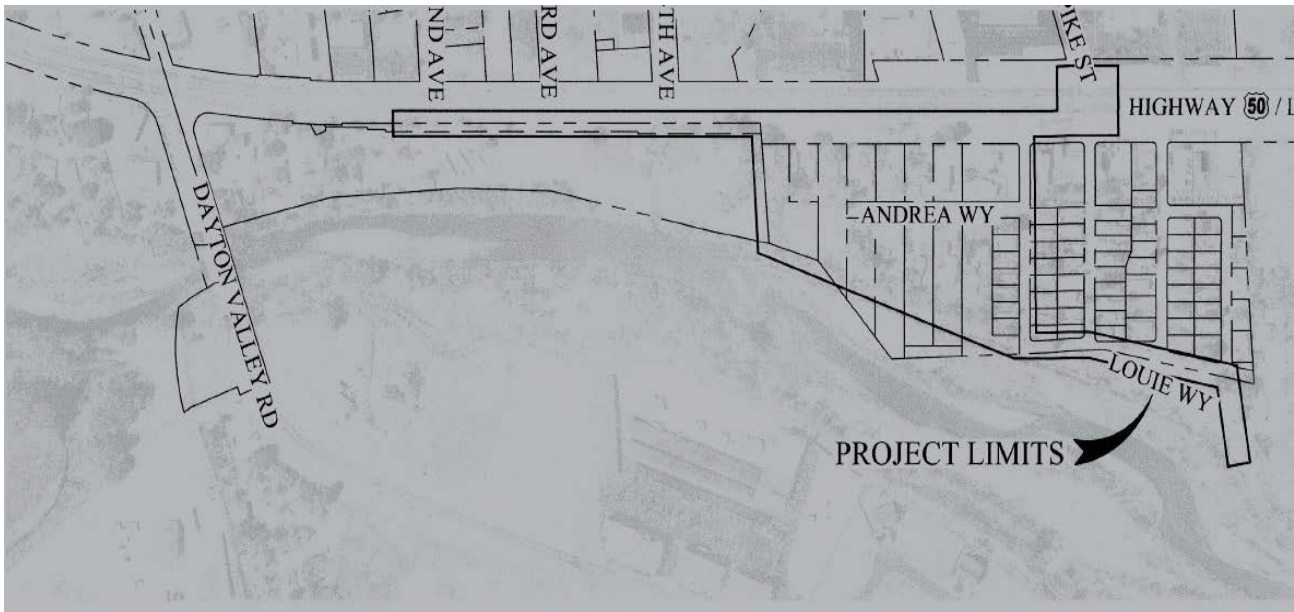
Change Orders: - \$10,000 (LS) payment to Contractor for downtime due to limited disposal at Carson City Landfill
- Additional trucking and disposal cost (2 trucks/day) at Lockwood landfill, Estimated at \$72,000 (hauling) and \$55,000 (Tipping fees)
- Additional dewatering cost to contractor if the removed solids exceed the estimated 1000 tons of dry solids (Contract price of \$792,535).

Notes:

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Project 5: Hwy 50 Water and Sewer Replacement - Phase 1



Description: The water project will repair and replace approximately 1,950 linear feet of 8-inch water main along US Highway 50.

The sewer project will repair and replace the existing damaged AC sewer line along the river and US Highway 50. Scope includes construction of approximately 2,600 liner feet of 8- and 12-inch sewer main and abandonment of 2,200 linear feet of existing sewer.

Budget: Water - \$868,000 (FY 2021)
Fund - Dayton Water Fund (623)
Expenditures To Date - \$140,000

Sewer - \$1.6 MM (FY 2021)
Fund - Dayton Sewer Fund (624)
Expenditures To Date - \$0.15 MM

Schedule/Status: Construction Completion: Apr., 2021
- Pre-Construction meeting - Sept. 2, 2020
- Notice to Proceed - Sept. 21, 2020
- Substantial completion - Feb., 2021
- Final completion - Apr., 2021

Change Orders: None

Notes:

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Project 6: Sewer System Flow Meter and Water Sampling System Evaluation



Description: The project will evaluate the flow meters and water sampling systems in the sewer collection and treatment plants for compliance with the permits and recommend improvements. Scope includes evaluation of the facilities at Rolling A Plant, South Plant and Sewer Lift Stations.

Budget: \$34,032 (FY 2021 operating expense)
Fund - Dayton Sewer Fund (624)
Expenditures To Date - \$34,032

Schedule/ Status: Project is completed in June, 2020
Estimated cost for the recommended improvements:

- Rolling A plant - \$503,000
- South plant - \$335,000
- Collection system - \$294,000

Change Orders: None

Notes: