



City Council Study Session Report

Subject: 3Kings Water Treatment Plant – Year One Construction Summary
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Department: Public Utilities
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Executive Summary

On February 20, 2020, Park City issued a Notice to Proceed for the demolition of the existing Golf/Parks Maintenance Building and the Spiro Water Treatment Plant. Subsequently, on March 2, 2020, a Notice to Proceed was issued for the construction of the 3Kings Water Treatment Plant (3KWTP). Construction of the facility continues at a rapid pace, remaining on schedule. Additionally, the construction of other M-I-W related projects, including the Spiro Mine Tunnel Reconstruction and 3KWTP Off-Site Utilities and SR-248 Transmission Line Improvements, has progressed throughout the past year.

Summaries of the work accomplished during Year One are provided below. A short presentation, highlighting construction activities over the last year, will be presented at the Council meeting.

3KWTP - Construction Summary

Construction Manager/General Contractor: Alder Construction Company
Alder Construction: Project Manager - Val Martin; Site Superintendent - Ron Erikson
Construction Engineer: Jacobs - Mario Garza, Resident Engineer
Major Subcontractors:
Demolition: Grant MacKay
Electrical: Skyline Electric
HVAC: United Team Mechanical

Project Construction Summary

- All demolition work was completed;
- A temporary pedestrian walkway was installed to mitigate pedestrian access/construction vehicle conflicts along Three Kings Drive;
- Thiriot Spring temporary pumping and disinfection system was completed and operational throughout summer and fall of 2020;
- Work has been focused primarily on below grade structures such as water bearing basins under buildings (Disinfection/Pumping Bldg., Backwash Waste Building, and Gravity Thickeners);
- 40 to 60 workers are typically on site daily and are shuttled to and from the site from remote parking;
- Approximately 5,500 cubic yards of concrete has been poured over the past year;

- Under building water operational basin and under slab piping for the Backwash/Waste/Filter/Adsorber/Solids Building is installed. Walls are under construction;
- Under building clearwell water basin for the Disinfection/Pumping Building is installed and masonry walls are under construction;
- Pump/Poly Building floor and masonry walls are installed. Roof and interior work is progressing;
- The Gravity Thickener basins and concrete walls are installed;
- Chemical Building containment areas and masonry walls are installed;
- Excavation for the Flocculation/Sedimentation Building has been completed;
- Filter and adsorber vessels have been fabricated and are locally warehoused;
- Filter press equipment has been manufactured and is locally warehoused; and
- Gravity thickener equipment is being prepared for install.

COVID-19 Impacts / Mitigation Efforts

- COVID-19 health protocols have been implemented at the site;
- Sequencing of the construction activities has been revised to better accommodate worker social distancing and compartmentalize personnel to limit impacts in the event of positive COVID-19 tests.
- Direct project impact to construction personnel: approximately 4,500 lost-time hours due to COVID-19 during the first year of construction.
- Site meetings are limited and virtual meetings being used where possible. Virtual Project Office software was successfully implemented to streamline communications with field, office, and at-home personnel;
- Manufacturer and Vendor supply streams are being constantly monitored and key components are being ordered and locally warehoused to prevent project schedule delays.

Public Outreach

Communications with the neighborhood is ongoing, consistent with COVID-19 restrictions), and the Park City Project Webpage continues to be maintained and updated regularly (to access the site, please go to [click here.](#))

Spiro Mine Tunnel - Construction Summary

Construction Manager/General Contractor: Harrison-Western Construction
 Construction Engineer: Lithos Engineering

Project Construction Summary

- The first 50 feet of the mine tunnel was removed due to highly unstable soils. The tunnel in this area is to be rebuilt and the hillside replaced/restored;
- An additional 350 feet of the tunnel has been stabilized using soil nailing and shotcrete application;
- Replacement of tunnel water conveyance piping and collection structures in the first 400 feet of the tunnel is currently underway; and

A link to the plans for the final Spiro Tunnel Entrance Plaza is as follows:

<https://pclaserfiche.parkcity.org/laserfiche/Docview.aspx?db=PCMC&docid=51316#?openmode=PDF>

Off-Site Utilities and Improvements - Construction Summary

Golf Course Ponds CM/GC: Alder Construction Company

SR-248 Pipelines General Contractor: Silver Spur Construction

Project Construction Summary

- Phase 1 of the SR-248 Water Transmission Lines (within Kearns Blvd. from Wyatt Earp Way to Zions Bank) is complete, pavement restored, and operational – 13,495 feet of pipe installed. UDOT is scheduled to repave SR-248 in 2021;
- Phase 3 of the SR-248 Water Transmission Lines (across golf course from SR-224 to the 3KWTP) is complete – 1,200 feet of pipe installed;
- Spiro Tunnel and 3KWTP water conveyance piping installation within the Park City Golf Course Back Nine area has been completed;
- A new sanitary sewer lateral across the Park City Golf Course Back Nine area, serving the 3KWTP, has been completed; and
- Dredging of the Golf Course ponds in the vicinity of the PayDay Condos started at the end of January 2021, immediately following the end of the pond's use for snowmaking purposes.

Projects Financial Summary

The financial summary table reflects the construction costs for M-I-W related projects for the last year. Engineering related services and special inspections and testing are not included in amounts.

Expenditures Summary thru Feb. 2021	Amount
Contracts Total	\$99,274,511.00
Total Paid to Date	\$26,975,994.36
Remaining to Pay	\$72,298,516.64
Estimated Work Complete	36%

Project Construction Year One Summary

To be presented at the City Council meeting.