Education

MS Civil Engineering with emphasis on Environmental Engineering, Stanford University, 2013

BS Environmental Engineering, Oregon State University, 2012

Licenses

Professional Engineer, Oregon

Joshua R. Miner, P.E.

Josh Miner has worked on a wide variety of modeling and master planning projects. He has dedicated his planning work to water distribution system modeling, water distribution system resiliency planning, wastewater collection systems, water system feasibility studies, and wastewater treatment facilities planning. His project experience includes interpretation of flow monitoring, water consumption, and demographics analysis for the purpose of building water system models, and to support the development of capital improvement plans.

Wastewater Planning and Design

→ Staff engineer for the final design of Solids Handling Dewatering Improvements for the City of Bend, Oregon. Carollo is working with the City to identify and implement needed improvements, including: optimizing dewatering; selecting the right solids processing equipment; evaluating process control optimization; polymer system upgrades; and ventilation for staff safety and building protection. Josh assisted with the development solids loading projections and dewatering technology alternatives analysis.

→ Staff engineer for the Willow Lake Water Pollution Control Facility Cogeneration Upgrade Project, City of Salem, Oregon. The project includes a new cogeneration facility housing a 1,100 KW engine, electrical equipment, ancillary processes, site piping, and upgrades to the existing cogeneration facility. Josh was responsible for the process mechanical design of the dewatering system and thickening system.

→ Staff engineer for the EchoWater Tertiary Treatment Facilities Project, Sacramento Regional County Sanitation District, California. Josh assisted with the final design of the flash mixing systems, the waste filter backwashing system, and other ancillary components of the Granular Media Filtration facility.

→ Project engineer for the Willow Lake Water Pollution Control Facility Clarifier Evaluation for the City of Salem, Oregon. Performed a detailed condition assessment of aging clarifiers to plan for long-term upgrades that will improve reliability and to develop a Capital Improvement Plan. The evaluation included four primary clarifiers and five secondary clarifiers.

→ Staff engineer for the Rock Creek AWTF Centrifuge Installation for Clean Water Services, Oregon. Preliminary design for the installation of two new centrifuges, as well as improvements to the odor control system.

→ Staff engineer for the Willow Lake Water Pollution Control Facility Solids Handling Improvements Project, City of Salem, Oregon. The project includes installation of two new dewatering centrifuges, two new rotating drum thickeners, polymer systems, and ancillary systems in two existing buildings. Josh assisted with the process mechanical design for all components of this project.

→ Staff engineer for the Spring Street Sewage Treatment Plant Upgrades Final Design, City of Klamath Falls, Oregon. The progressive design-build project is focused on the conversion of existing aeration basins to the bio-mag process, which uses ballasted flocculation to achieve increased performance within the existing footprint. The project also includes significant upgrades for several key process areas: headworks screening, influent pump station, aeration basins, secondary clarifiers, polymer systems, and magnetite recovery. Josh was responsible for design of secondary clarifier mechanism replacements.

→ Staff engineer for the Portland BES Tryon Creek Secondary Upgrades, City of Portland, Oregon. The purpose of this project was to evaluate in detail the secondary treatment process upgrades recommended in the 2014 Facility Plan and progress them to final design. Improvements will include implementation of SRT control, aeration basin modifications, secondary clarifier mechanism replacements, installing a rotating drum thickener, and WAS pump station improvements. Josh is responsible for the process mechanical design of the new rotating

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Awards

Other Accomplishments

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drum thickener, associated polymer systems, and WAS pump station improvements.

→ Staff engineer for the Fall City General Sewer System Plan, King County, Washington. The general sewer plan evaluated alternatives for constructing, operating, and financing a centralized wastewater treatment system in Fall City. The Plan includes planning level capital and operating cost estimates for utility management, a collection system, wastewater treatment, and effluent management/recycling system.

→ Staff engineer for the 2018 Combined Sewer Overflow Plan Update, King County, Washington. This plan will update the 2012 LTCP and include refined cost estimates, schedule and project priorities, and assumptions. The Plan will ensure that project recommendations reflect environmental, social, and financial goals to meet current needs, consider stakeholder interests, and address Consent Decree requirements. Josh assisted with the Existing Facility Assessment and Optimization task and was responsible for delivering the findings to the County in a memorandum. Josh also developed conceptual wet weather treatment station layouts for new combined sewer overflow control alternatives.

→ Staff engineer for the Recycled Water Master Plan for Clean Water Services. Assisted with the development of a recycled water cost model, which identified potential customers, customer demands, and the capacity of existing wastewater treatment processes for producing recycled water.

→ Staff engineer for the design of Payne Pump Station for Clark Regional Wastewater District. This project included removal of an existing pump station, micro tunneling for a new gravity sewer, and installation of a new force main in addition to the construction of the new pump station. Assisted in site layout, preparation of cost estimates, and preparation of materials required for permitting.

→ Staff engineer for the Ammonia Treatment and Biosolids Dewatering Improvements Project for the City of Longmont, Colorado. To meet new ammonia limits set by the Colorado Department of Public Health and Environment this $30 million progressive design-build project included expansion of secondary treatment capacity and incorporation of side stream treatment to meet more stringent daily effluent ammonia limits.