NEW WATER TREATMENT PLANT

GRIMES, IOWA

PROJECT DESCRIPTION

The City of Grimes was in need of water treatment improvements in order to meet the water demands of their growing community. The project includes the construction of a new 23,000 square feet Reverse Osmosis Water Treatment Plant, with a new administration area, four (4) RO treatment trains, chemical feed, and high service pumping. The new plant can produce 3.0 MGD of finished water upon completion, with room to expand capacity up to 6.0 MGD. The plant treats Jordan Aquifer water utilizing a direct RO treatment scheme, with finished water being blended with water from the existing lime softening plant.

PROJECT HIGHLIGHTS:

- 3.0 MGD (expandable to 6.0 MGD) direct Reverse Osmosis Water Treatment Plant.
- Treats water from Jordan Aquifer, blended with water from existing Lime Softening Plant.
- 23,000 square feet pre-cast concrete building with new administration area.
- Project funded with SRF Loan.

PROJECT TEAM:

Derick Anderson, PE: Principal-in-Charge
Gary Brons, MBA: Client Manager
Michael Washburn, PE: Project Manager
Austyn Wolfe, PE: Project Engineer
Danny Wing: On-Site Representative

PROJECT DATES

Begin Design: January 2018
Complete Design: September 2019
Begin Construction: November 2019
Complete Construction: November 2021

CONSULTANT FEES + OVERALL PROJECT BUDGET

Total Project Cost: $20,652,000
Total Construction Cost: $18,372,000
Consultant Fees (Design through Construction): $2,180,000

COST ESTIMATE

Engineer's Construction Cost Estimate: $17,800,000
Awarded Amount: $17,951,200
Final Construction Cost: $18,372,000

REFERENCE

Matt Ahrens, PE, City Engineer
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