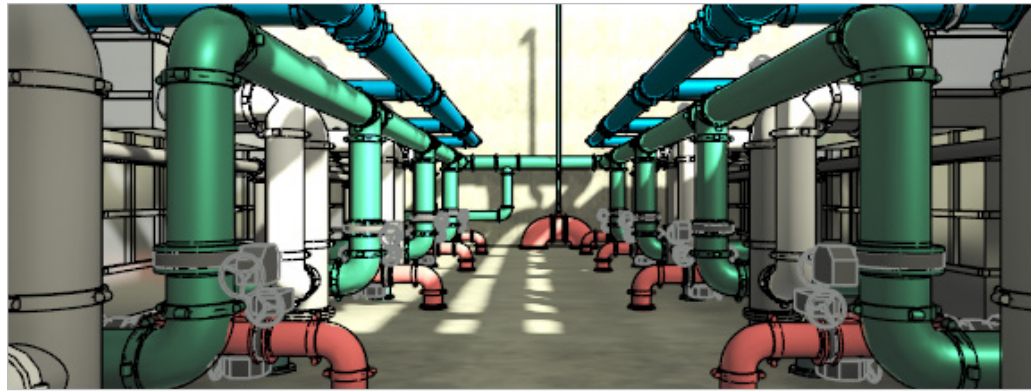
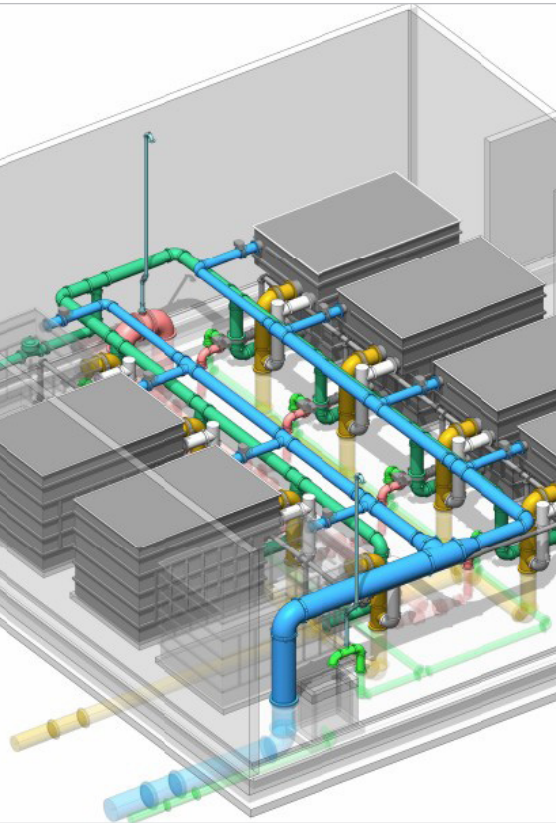


DE SOTO WATER TREATMENT PLANT IMPROVEMENTS



PROJECT OVERVIEW

PROJECT / CUSTOMER:

De Soto Water Treatment Plant

LOCATION:

De Soto, KS

PRODUCT / SOLUTIONS:

Virtual Design & Construction
(VDC) Services

CHALLENGE:

The project required accurate, field-ready documentation for an intricate network of pipes, valves, and fittings (PVF) across both above-ground and below-ground segments of the filter building and transfer pump station, compounded by tight schedules, coordination across multiple trades, and no margin for error.

SOLUTION:

Our Virtual Design & Construction (VDC) Services team provided comprehensive 3D modeling and shop drawings that eliminated ambiguity, minimized RFIs, and set the stage for smooth field installation.

OUR ADVANTAGES:

- Dedicated VDC experts and leading-edge 3D modeling technology
- Streamlined material procurement and delivery
- Enhanced project management and stakeholder coordination

BACKGROUND

In the heart of De Soto, Kansas, the city planned vital improvements to its Water Treatment Plant, designed to strengthen water infrastructure, improve operational efficiency, and ensure clean, safe water for generations to come.

Our VDC team was tapped as a trusted partner to deliver high-quality shop drawings and models that brought clarity, confidence, and coordination to a complex construction effort.

PROJECT SCOPE:

The De Soto Water Treatment Plant Improvements Project presented a familiar yet high-stakes challenge: ensuring accurate, field-ready documentation for an intricate network of pipes, valves, and fittings (PVF) across both above-ground and below-ground segments of the filter building and transfer pump station.

With tight schedules, coordination across multiple trades, and no margin for error, the client needed more than just standard submittals; they needed precision, foresight, and a partner who could visualize the project before a single spool was laid in the field.

METHOD:

At the core of our delivery was our VDC Services team.

We provided a full suite of shop drawing services for the filter building (both above and below grade) and the transfer pump station, carefully modeling and detailing every PVF component to align with the client's engineering specs and construction sequence.

By delivering detailed, coordinated, and actionable shop drawings, our team helped ensure that every valve and fitting in the system fit perfectly.

Using cutting-edge tools and deep product knowledge, our team developed highly coordinated models that eliminated ambiguity, minimized RFIs, and set the stage for smooth field installation.

THE SOLUTION: FERGUSON

The client's decision to partner with Ferguson was rooted in our proven value, reliability, and specialized VDC capabilities. By combining our deep Waterworks knowledge, in-house modeling talent, and commitment to client success, we are uniquely positioned to bridge the gap between design intent and field reality, contributing significant advantages to the project teams:

Product-Specific Expertise: Unlike generic CAD or BIM consultants, our VDC team is deeply embedded in the PVF product landscape, ensuring every model reflects real-world fittings, lead times, and compatibility.

Integrated Workflow: Our shop drawings go beyond compliance; they serve as tools for procurement, installation planning, and field execution.

Error Prevention: By identifying and resolving spatial conflicts and constructability concerns during the design phase, Ferguson reduced costly on-site revisions.

Time Savings: Our coordinated drawings accelerated submittal approvals and installation timelines, keeping the project on track.