

HELIX[®]

STEEL

Precast Vault

15,500 Gallon Vault



Helix Reinforced concrete provided

- Labor Savings: 72% - 65 hrs per vault
- Decrease In Steel: 71% - 3,200 fewer lbs
- More Cost Effective Production
- More Efficient Operation
- Safer Manufacturing Environment

Project Details

Category: Precast
Contractor: Colorado Precast
Location: Loveland, CO USA
Application: 15,500 Gallon Vault
Original Design: Rebar & Mesh
Helix Design: Hybrid with 45 lbs/yd3

ICC -ES 3949 | UES ER 279

 734-322-2114

 www.helixsteel.com



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15,500 Gallon Vault

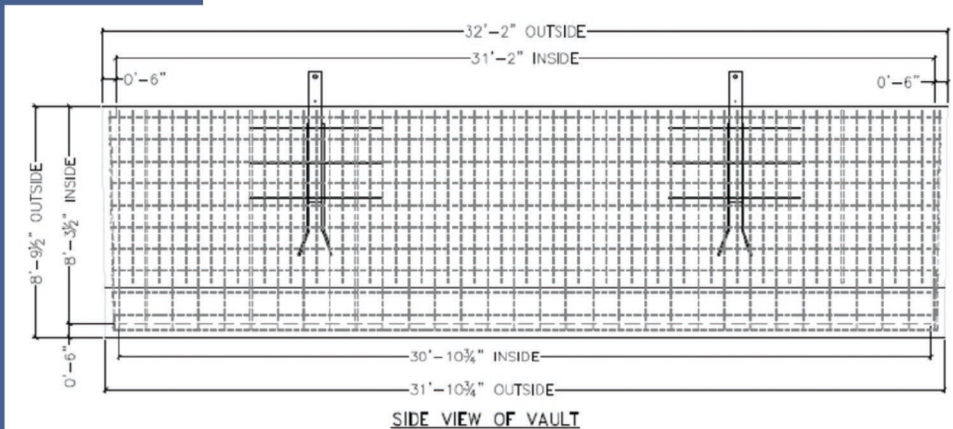
Produced by Colorado Precast, Loveland, CO, these 15,500 gallon vaults were originally designed with conventional rebar and mesh. Each tank required about 4,500 pounds of rebar and mesh and 90 hours of labor to prepare, tie and install the steel reinforcement. The Helix design was able to reduce this to only 810 lbs of steel. It reduced labor as well. "The best part is the removal of the bent u-bars of rebar. Those are so labor intensive and typically don't fit very well since the form is tapered. It's constant fight to make those fit and they don't end up where I want them. I'm pretty thrilled with how the Helix is working with our designs. It is saving a lot of labor." - Colorado Precast Engineer Kim Fenstress

The combined material and labor savings allowed Colorado Precast to produce a higher performing and higher quality product for their customer while being more cost effective and providing more efficient and safer manufacturing operations



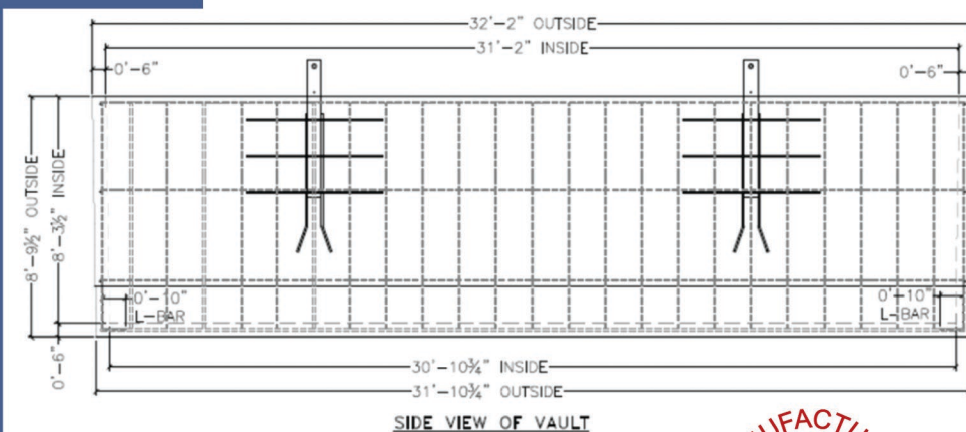
Original Design

The original design included 4,500 lbs of rebar and mesh and took 90 hours of labor to install the reinforcement.



Helix Hybrid Design

The Helix Hybrid design reduced the conventional steel by 71% and only requires 810 lbs of Helix. Using Helix also saved 65 hours of labor.



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