

TRI-LOC CASE STUDY

Fall 2018



Trinity Products' Weldless Interlock System

PROJECT:

City of Redmond Far West Sewer Interceptor Improvement Project
WW 17-01

LOCATION: Redmond, OR

OWNER: City of Redmond, OR

CONTRACTOR: Jack Robinson and Sons, Inc.

SUBCONTRACTOR: Stadeli Boring &

Tunneling

SOIL CONDITIONS: Mostly Rock - Some Clay



SCOPE: Install 330 linear feet of 42" OD x .500" steel casing pipe for a 30" gravity sewer interceptor via directional bore. The installation was on an 11% grade through solid rock at the Redmond Dry Canyon wall at the Spruce right-of-way alignment near the intersection of NW 23rd Street.

INSTALLATION: Most contractors shy away from rock boring, but when others walk, Stadeli Boring & Tunneling rises to the occasion. Equipped with a Robbins SBU rock head, Stadeli got to work. Anticipating rock and cobble on an installation requiring precise location and slope, Stadeli poured a concrete wall at the face of the launch pit to help guide the casing pipe and keep it on course. Stadeli hit a vein of clay about 40' in. At 80' they hit the rock and boulders they were anticipating. With penetration rates slower than usual due to the rock, Stadeli increased their chances for success by selecting Trinity Products to provide their Spiral Weld Tri-Loc Weldless Interlocking Steel Casing pipe in 20' lengths.

RESULTS: There was a slight learning curve getting used to a weldless interlock. Stadeli had not used a similar product in about three years because of the cost prohibitive price charged by another vendor. In the soft clay, the 3-Tooth joint took a bit more pressure to go together, but when rock was hit after the first 40', things moved along beautifully.

TESTIMONIAL: "Going quite well as far as line and grade. We thought maybe at 10' or 30' we'd see a drop, but at 80' we were still holding both line and grade. I'd say I'm pretty satisfied with everything here so far"
– Larry Stadel, Stadeli Boring & Tunneling

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PROJECT DETAILS:

- Equipment - American Augers Boring Machine Equipped with Robbins SBU Blockhead 48/54 - 900 Machine – 450 tons of push
- Failure to use the drive ring resulted in some egging of the pipe initially. When the Trinity Products provided drive ring was used, the pipe remained true and round for the entire installation
- Carrier Pipe – 30" PVC Gravity Sewer Main
- Obstacles on the job - Soil Conditions and Grade: hard rock, cobble and pockets of clay along with an 11% grade were encountered and spiral weld steel pipe had no issues