Trenchless Methods for Gas Service and Mainline Pipe Rehab and New Install

Mike Tjader and Collins Orton TT Technologies, Inc.

Split & Pull Pneumatic System





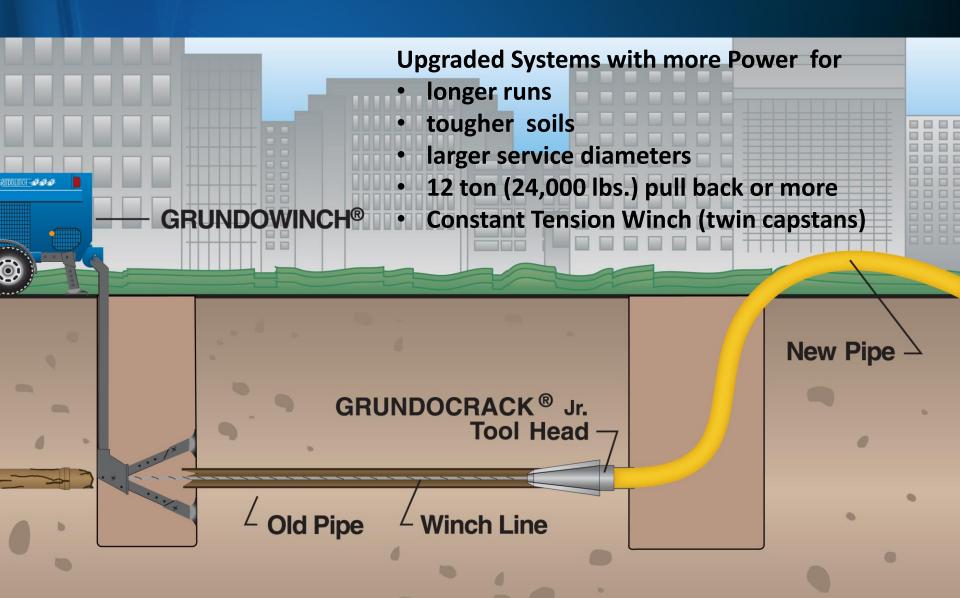


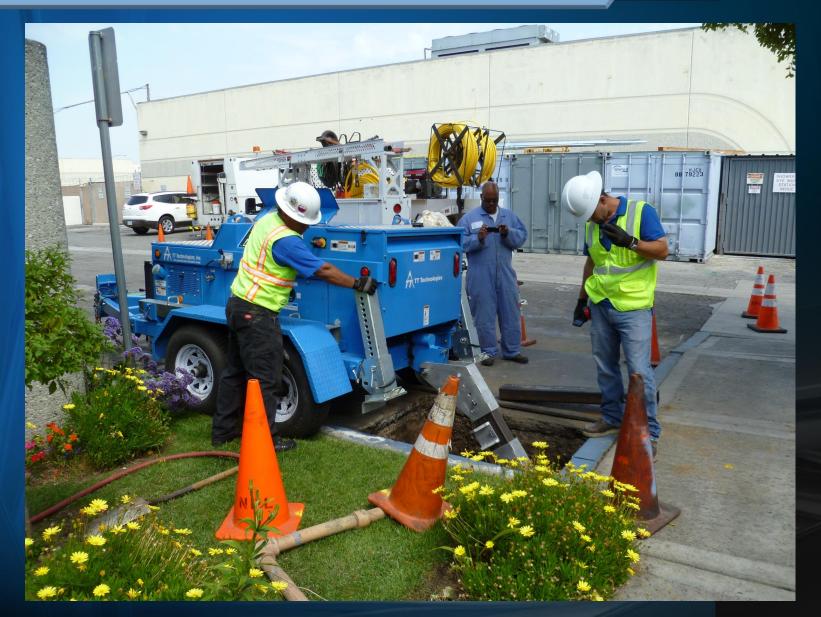
Split & Pull Pneumatic System

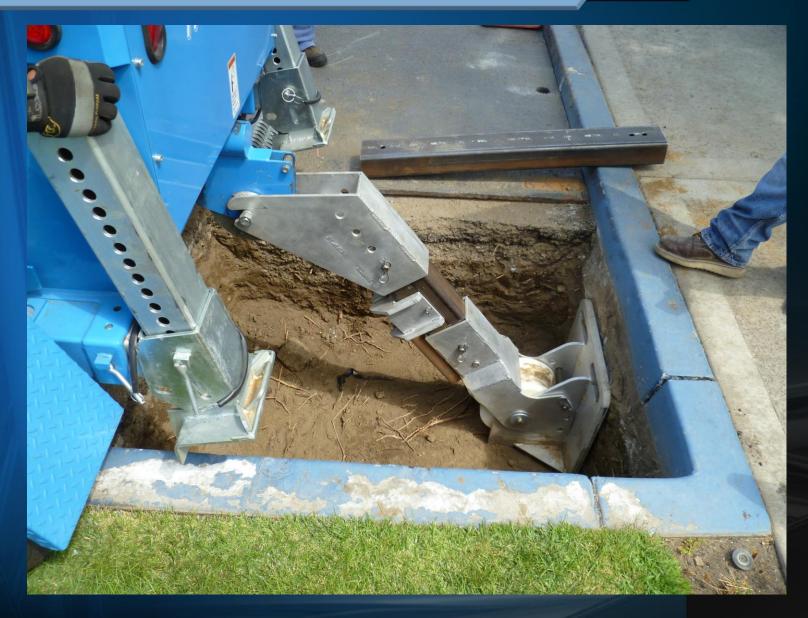












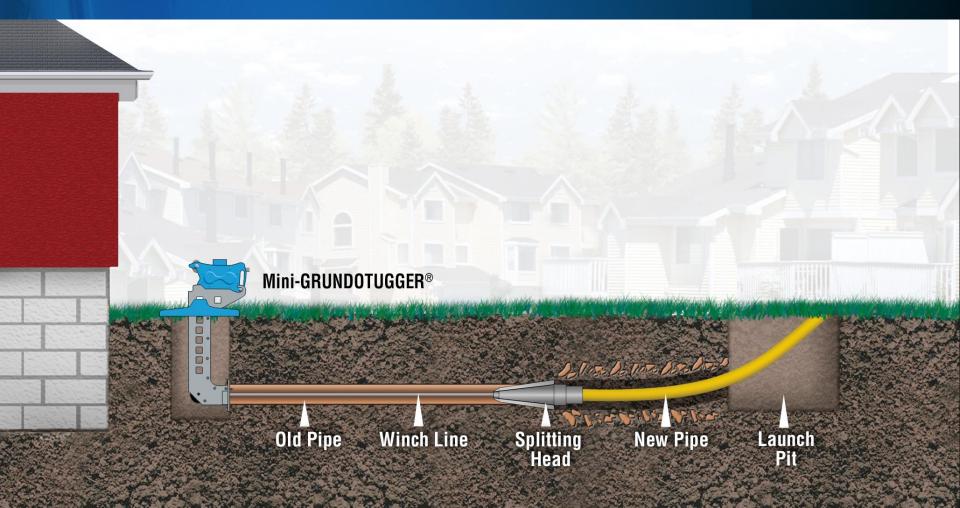
















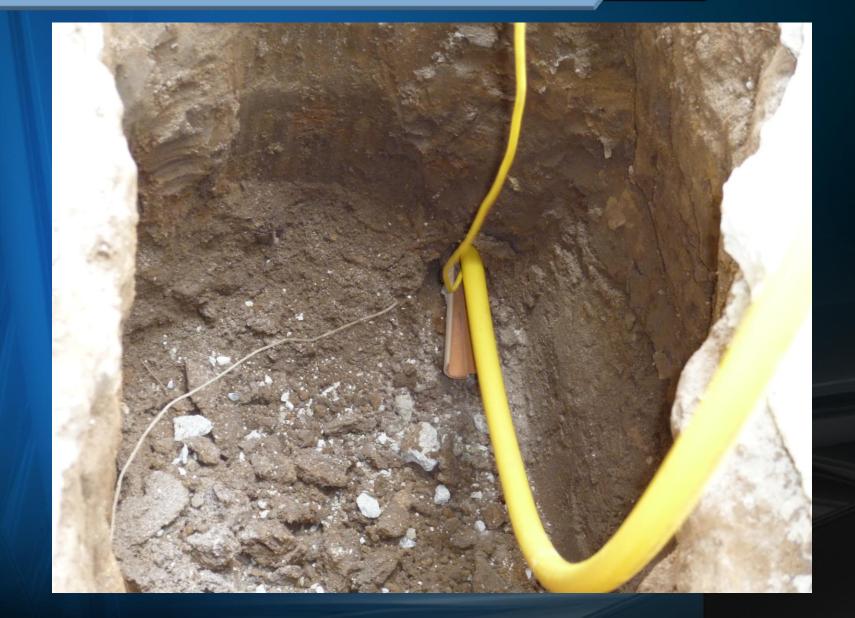












Mini-Winch Splitting System

Case Study

- Replacement from Meter to the 2" Main at the sidewalk
- Temporary Service Maintained
- 2 small excavations
- 2-Bladed Cutter to split ¹/₂" Aldyl-A pipe
- Expander Body to Expand split pipe
- New 1/2" CTS PE Replacement Pipe pulled in

Mini-Winch Splitting System

Old Connection to 2" Main



Mini-Winch Splitting System

Temporary Gas Service Supply



Mini-Winch Splitting System

Drill Guide to Make Required "Weak Link" in New Pipe



Mini-Winch Splitting System

Cutter, Expander and New 1/2" Pipe with Tracer Wire



Mini-Winch Splitting System

Splitting Process Begins



Mini-Winch Splitting System

Old Riser Removed



Mini-Winch Splitting System

Old Connection to Meter Set



Mini-Winch Splitting System

Constant Tension Winch



Mini-Winch Splitting System

6 Ton Down Hole Pulling Power



Mini-Winch Splitting System

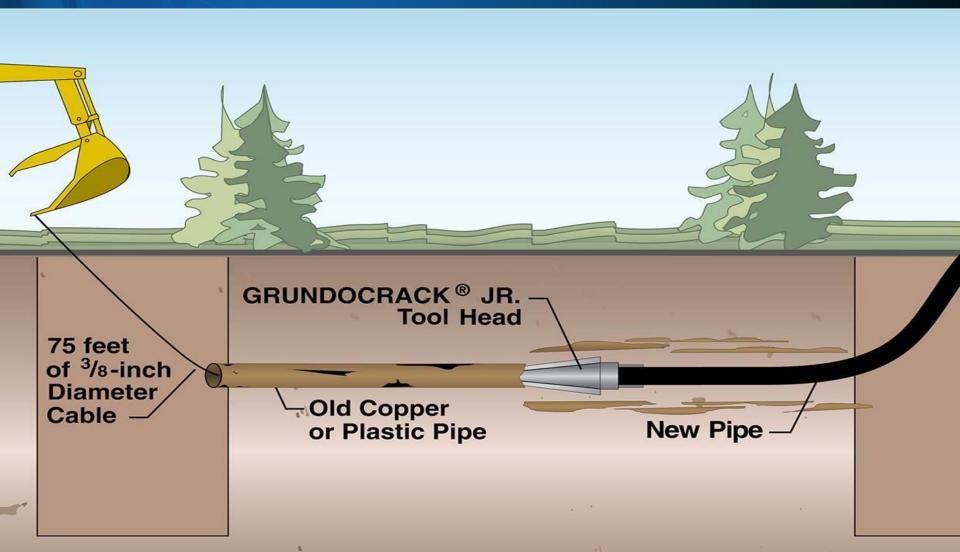
New Service Pipe



Mini-Winch Splitting System

Case Study Conclusions

- New 25' service installed with minimal excavation
- Service can be replaced with ¹/₂" or 1"
- Aldyl-A pipe split successfully
- Service splitting accomplished in a few minutes
- No damage to the new service pipe











Mini-Pipe Splitter Technology



Weak Link Installed



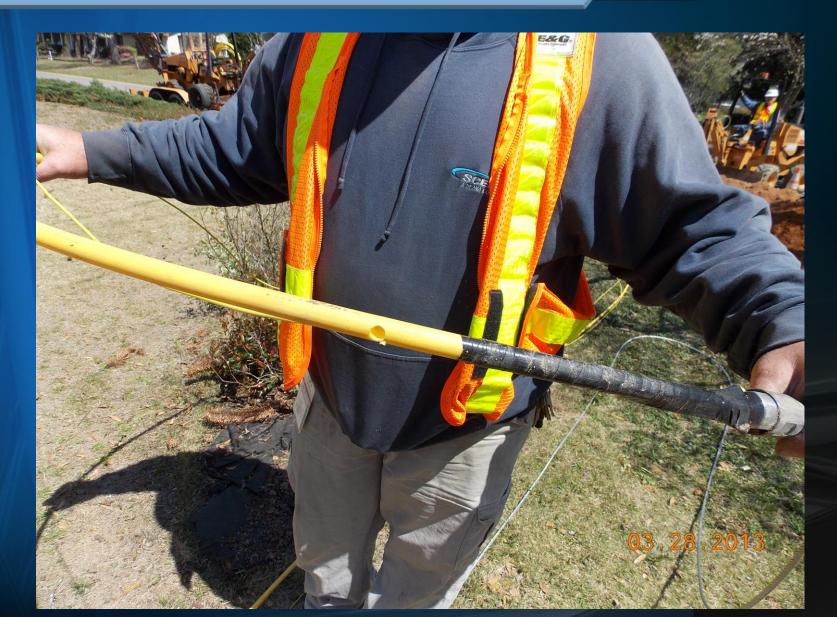












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