

## CASE STUDY

### MediTrac<sup>®</sup> CMT for New Construction Bulk Oxygen Underground

- Saves Time
- Saves Money
- Increases Installation Options

**Product:** MediTrac<sup>®</sup> CMT Medical Gas Piping System

**Location:** PAM Rehabilitation Hospital, Winter Garden, FL

**Contractor:** Doug Egner Plumbing & Medical Gas LLC



PAM Rehabilitation Center in Winter Garden, FL

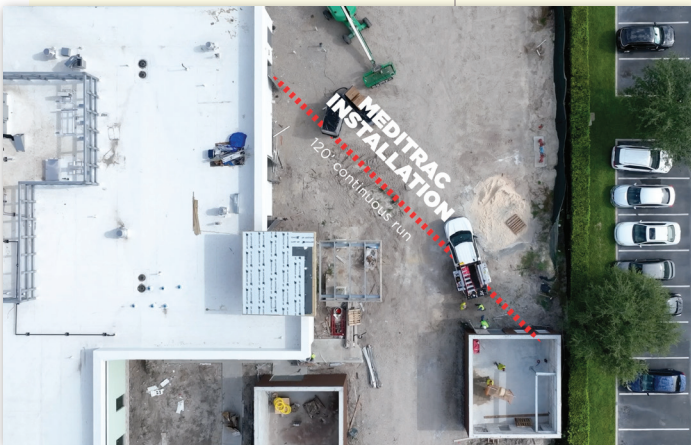
#### Project Overview

Doug Egner Plumbing & Medical Gas LLC was contracted to install a 120 foot run of 1-inch medical gas piping to connect the bulk oxygen pad to a new PAM rehab facility being built. Having years of experience installing underground medical gas piping runs, Doug Egner understood the challenging working conditions underground medical gas piping systems present to his installation team, the general contractor and other trades on a new construction jobsite. Traditional brazed cleaned and capped copper is typically installed in an open trench over multiple working days preventing construction vehicles from accessing the jobsite around the installation area.

Doug Egner proposed MediTrac corrugated medical tubing (CMT) to the GC, facility owner and engineering firm because it provides a safer, less disruptive and quicker installation process than traditional cleaned and capped copper. Doug and his team installed a 3-inch non-metallic conduit early in the construction process between the bulk oxygen pad and the location where the medical gas piping system would rise into the new building. Once the conduit was installed it was buried and made the site easily accessible for all trades through the entire construction process.

Months later as the building was coming closer to full completion and occupancy, Doug and his team returned to pull the 1-inch MediTrac CMT through the conduit. Setting the reel on a baker's scaffold to elevate it above the conduit entrance made pulling the MediTrac CMT through the conduit a smooth and easy process. The installation crew utilized a cable puller at the conduit end located inside the facility and pushed the MediTrac CMT down into the conduit from the bulk oxygen pad completing the entire pull in under 15 min.

The non-metallic conduit was sealed with caps and Fernco couplings on each end making it watertight. Next the MediTrac 1-inch CMT fittings were attached to the MediTrac tube utilizing a tubing cutter with an oversized wheel, a razor knife to score the jacket, lineman's pliers to remove the jacket and two large crescent wrenches to tighten down the MediTrac fittings. An initial 55 PSI pressure test lasting over 24 hours

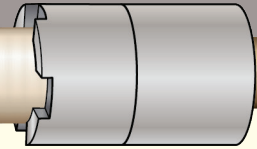


Pipe routing overview

(continued)

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*(continued from front)*



*Feed end*



*Final cut*



*Fitting make up*



*Completed fitting*

was completed to ensure there were no leaks at the fitting connections. Doug's team connected the MediTrac fittings to the traditional copper pipe at the bulk oxygen pad, engaged the anti-tamper sleeves on the MediTrac fittings, and initiated a final 160 PSI pressure test.

#### Conclusion

Utilizing MediTrac CMT in place of traditional cleaned and capped copper simplified the entire installation process. The continuous run of 1-inch MediTrac CMT eliminated 100% of underground joints, minimizing the potential for contamination during the installation process and leak points underground as the building ages and settles. MediTrac CMT and the pull through method reduced disruption on the job site and [provided a safer, less disruptive and quicker installation process than traditional cleaned and capped copper.



*To view a time-lapse video of MediTrac CMT being installed at PAM Rehab in Winter Garden FL please scan the QR Code.*