Kiely Family of Companies
*Horizontal Directional Drilling*

KIELY

# ENSURING SAFETY

## Advanced installation solutions to optimize impact and minimize cost

Kiely Family of Companies (KIELY), an ENR 400, 500, and 600 company provides design-build services for the utility and energy industries. Established in 1952, KIELY is dedicated to keeping our nation's infrastructure strong, secure, and connected, enhancing our client's position with responsive service, from concept to completion.

Limiting environmental impact and traffic congestion while being cost conscious, KIELY has been installing unground pipelines by means of Horizontal Directional Drilling (HDD) throughout the Northeast for more than four decades.

And unlike traditional open-cut trenching methods, the HDD method limits disturbance to the surface by drilling underneath existing driveways, highways, waterways, environmentally sensitive areas, highly congested areas, and other obstacles, enabling us to expedite project schedules.

## Creating Safe and Efficient Solutions With Our Qualified Team

We understand that our customers are challenged with a multitude of problems when developing and installing pipelines. Our HDD Services minimize disruptions to traffic, require less site restoration, and can be safely installed through protected areas.

Our highly trained team members adhere to strict HDD anti-collision standard operating procedures, while utilizing top line equipment for best results.

**HDD Services Include:**

- Gas, Oil, Water, Sewer, Electrical, Communications
- Steel, HDPE, or FPVC
- In House: Design, Welding/Fusion, Testing, and Tie-In

## Horizontal Directional Drilling Process

Prior to the start of drilling operations, all subsurface utilities are identified, and existing utilities are manually exposed before drilling past the exposed utility. Once all obstructions are identified, our drilling crew begins drilling the pilot bore by utilizing a directional drill bit and locating technologies, establishing inclination and azimuth, enabling the navigation of the bore path. The driller will start at the designed entry point and continues drilling through the designed drill path until the exit point is reached. Drill cuttings and fluid are returned to the entry point throughout the pilot process.

Following the pilot bore, reaming begins. Reaming involves swapping the directional drill bit for a reamer tool with an array of cutters and drilling fluid jets. This tool is rotated through the pilot, gradually increasing the diameter of the hole until it is sized properly to fit the pipeline or URD conduit.


## Finalization and Installation

Our team of in-house welders and fusers fabricate the pipeline or conduit near the exit point. Once the enlarged boring or drilling is complete, the pipe is pulled from the exit point on a swivel through the pilot hole into its final position. The final step is to tie-in the pipe to the existing infrastructure.

Our walk over guidance system works for any length up to 60’ deep, with wire-line guidance for any depth and length.

Our in-house HDD Fleet includes the following:

- 36x50 & 40x55 Rigs
  Capable of drilling 2” - 8” pipe 1000’ or more
- 10x120 Rigs
  Capable of drilling up to 24’’ pipe on short runs (up to 16’’ on longer runs and depths)

Our professional drillers use best in class equipment and technology to ensure optimized results and the safest solutions for our customers.

KIELY performs our services with vision, innovation, integrity and excellence, responding to unique requirements to deliver success for both our customers and their stakeholders.

We invite you to explore the benefits of a business relationship with KIELYAs our customer, you can expect individual attention, reliable service, open lines of communication, cost-effective solutions and strict adherence to your project schedule.

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