PRODUCTS | SERVICES
Total Underground Solutions Since 1982

Slide Rail Systems
“Dig and Push” method of installation eliminates the need for vibratory hammers, increases production by 50% and decreases labor by 30% to 40% on average versus conventional sheeting.

Slide rail systems are extremely versatile and can be used to shore simple pits or very elaborate excavations with utility problems, overhead clearance problems and difficult soil conditions on various projects.

ICON is known as the original pioneer of this type of shoring system in the U.S. ICON’s slide rail shoring systems are made of high yield, Grade 50 steel and are comprised of lineal panels, rails or posts and bracing that enable the contractor to install 2-, 3- and 4-sided pits and trenches for a variety of excavations and different soil conditions. ICON manufactures slide rails in either a single, double or triple rail design with a choice of Roller Rail Frames (Struts) or Fixed Position Braces for the contractor to choose from.

WHERE CAN A SLIDE RAIL SYSTEM BE USED?
ICON’s Slide Rail system can be utilized on numerous excavations for:
- Large and small sewer lines
- Large water mains
- Tunnel access pits or shafts
- Tank installations
- Environmental remediation and clean-up
- Large and small diameter vaults
- Pump stations, lift stations, wet wells, manholes and junction boxes
- Bridge footings and wing walls
- And many more

WHAT MAJOR AGENCIES AND AUTHORITIES HAVE USED THE SLIDE RAIL SYSTEM?
ICON’s slide rail system has been approved for use by the following agencies and authorities as an effective solution for temporary tight sheeting.

Agencies:

Public Companies:
Exxon, Shell, Citgo, Sun Oil Co., PSE&G, Con Edison, Long Island Lighting Company, PECO, GSX Railroad, Consolidated Rail Corporation, Norfolk Southern Railroad, Merck Pharmaceuticals, Pfizer Pharmaceuticals, Bristol-Myers Squibb, etc.
HOW DO YOU INSTALL A SLIDE RAIL SYSTEM?
ICON’s slide rail system is installed simultaneously as the trench or pit is excavated. Start by excavating the trench to 4 feet deep. Next, install the rails and plates and then square up the system. Continue to dig on the inside of the system removing the excavated soil as needed. Add more panels and rails incrementally using the “dig and push” method until the required sub-grade is reached.

Sheet and shore around existing or adjacent utilities, safely and quickly.
• With the use of ICON’s internal and utility crossing frames, utilities can be easily sheeted and shored as you advance the system.
• Vertical panels, overlapping sheeting or vertical wood can be inserted into the crossing frame to shore around the existing utility.

Rebracing or tying back of the slide rail system allows the contractor to remove all cross bracing.
Removal of cross braces can be easily done by tying back to large-wide-flange steel beams.
• Rebrace pit designs are available up to 40’ W x 62’ L and a maximum of 20’ in depth.

Triple slide rail systems are used for large, deep and difficult jobs
• Built to last for even the largest and toughest soil conditions.
• Can sheet as deep as 36’ in C60 soil.
• Can provide up to a 15’ working room clearance under the bottom brace.

4-WAY RAILS are specially designed for use on environmental remediation sites.
• Allows the contractor to continue working without having to backfill the system and reinstall.
• Installation of plates down the backside of the rail allows you to move in any direction from your original starting point.
• Install multiple cells and maintain a solid wall of plates between your clean backfill and contaminated soil. before the concrete vaults were installed.

The above picture shows a 1 bay slide rail pit 13.12’ x 13.12’ inches away from an existing multi-story building for a soil remediation project.

4-SIDED PITS AND TRENCHES
Work In Tight Areas
• Installation and excavation take place together, decreasing costs by 50%.
• Minimal vibration during installation minimizes damage to adjacent utilities and surrounding buildings.
• More working room wall-to-wall without the use of inside waler beams.

The pictures to the right show a multiple bay slide rail trenching system being used under an existing Metro-North railroad bridge for the installation of concrete encased duct banks.
Kinsley Construction - York, PA
In Swiftwater, Pennsylvania, Kinsley Construction installed a large slide rail pit, 38' long x 32' wide x 16' deep for the final installation of two large concrete vaults 4' away from traffic on Route 611. Shown in the picture, a pipe ramming operation was performed by Linde Enterprises before the concrete vaults were installed.

Conti Enterprises - Plainfield, NJ
In New Brunswick, New Jersey, Conti Enterprises installed a multiple bay slide rail pit 105' long x 16' wide x 16' deep for the construction of the concrete median bridge piers for the New Street Bridge in the middle of busy Route 18.

Spazzarini Construction - Enfield, CT
In Avon, Connecticut, Spazzarini Construction installed a 5 bay Triple slide rail trenching system, 100' long x 15' wide x 20' deep for the construction of concrete retaining walls along Route 44 for the CTDOT.

Bell BCI - Bethesda, MD
In Bethesda, Maryland, Bell BCI installed a multiple bay slide rail pit system with many utility frames, 36' long x 16' wide x 22' deep. On this particular project ICON effectively shored around 5 existing 36” utility lines that crossed the excavation.
Reliable Contracting & Equipment Co. Inc. - Chicago, IL.

In Chicago, Illinois, Reliable Contracting Company Inc. installed several slide rail pit systems on the Dan Ryan Expressway for the installation of water, sewer mains and manholes and junction boxes. The slide rail systems supplied by ICON were 36' long x 16' wide and ranged from 24' to 36' deep in various locations up and down the eight-lane superhighway.

W.L. Hailey & Company Inc. - Nashville, TN.

In Richmond, Virginia, W.L. Hailey & Company Inc. rented a multiple bay slide rail pit system, 65' long x 20' wide x 16' deep for the installation of a concrete bypass structure for a major water main construction project.

Washington Group/Lane Construction (AJV) - Louisville, KY

In Louisville, Kentucky, Washington Group/Lane Construction (AJV) rented several slide rail pit and trenching systems for the installation of a run of large 12' x 12' box culverts for a major construction project at the McAlpine

Andrew Papac & Sons - South El Monte, CA.

In California, Andrew Papac & Sons installed a multiple bay slide rail trenching system, 100' long x 10' wide x 28' deep for the installation of a major 60' diameter RCP sewer project.
ICON EQUIPMENT DISTRIBUTORS, INC. LOCATIONS:

Corporate Address • 300 Ryders Lane • East Brunswick, NJ 08816
Toll Free: (800) 836-5011 • Fax: (732) 254-0101 • www.iconjds.com

BRANCHES

New England Location
North Haven, CT

Maryland Location
North East, MD

Pennsylvania Location
Myerstown, PA