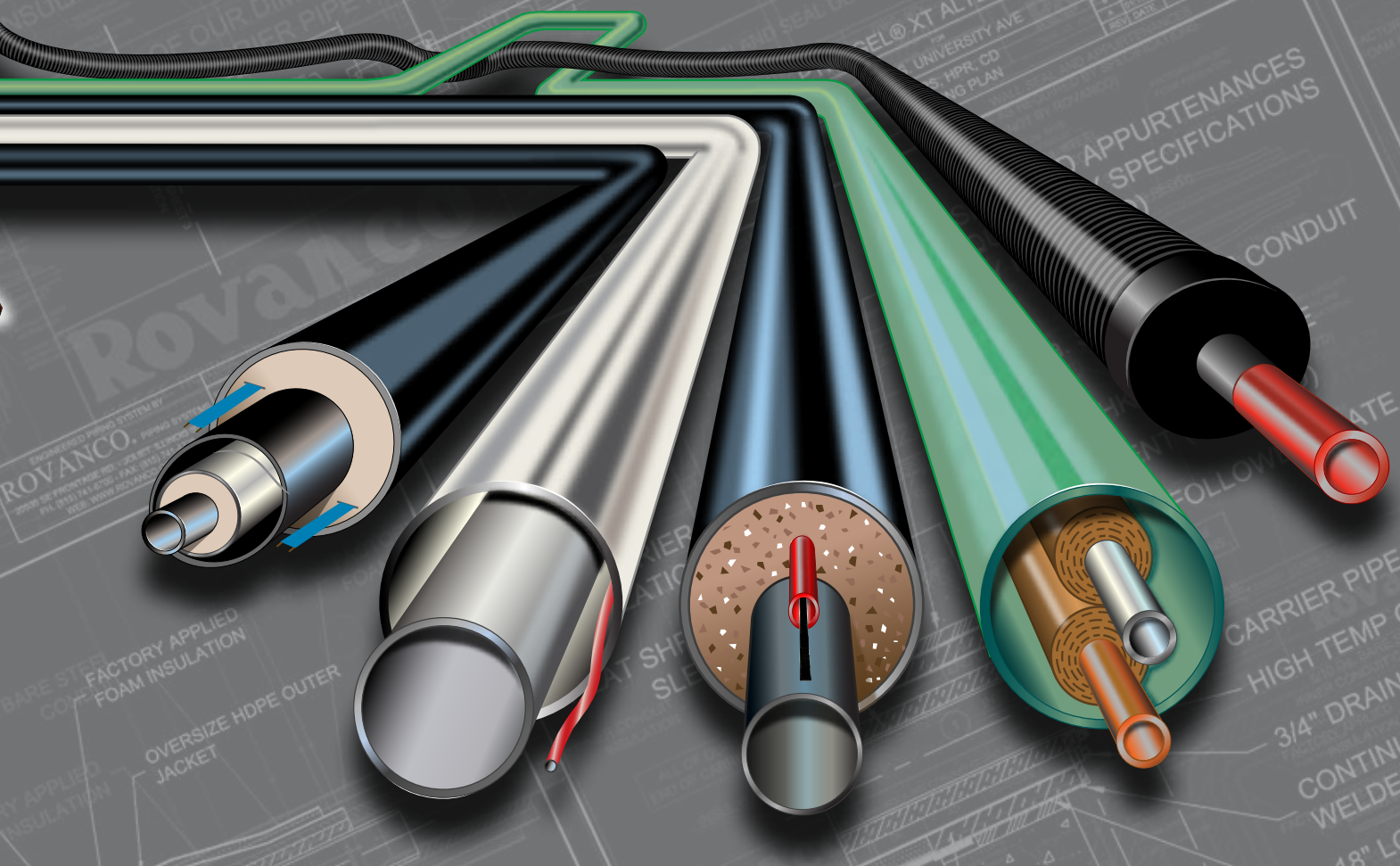
Rovanco®

Piping Systems

Providing High Quality Piping Systems Since 1969

ISO 9001:2015
CERTIFIED COMPANY

PRI Registrar
PERFORMANCE REVIEW INSTITUTE



Thousands Of Miles Of Experience™

A New Era in Pre-Insulated Piping

In 1969 Larry & Dick Stonitsch started Rovanco Piping Systems in Joliet, Illinois. Not long after, Rovanco established itself as a leading manufacturer of pre-insulated and containment piping systems in the United States.

Following closely in their footsteps, Larry's son, Chad Godeaux, and Dick's son, Todd Stonitsh, grew up in the pre-insulated piping industry. In 2016, Chad and Todd took over day-to-day operations at Rovanco and run the business in its entirety today.

Todd Stonitsch & Chad Godeaux

Just a Few of the Thousands of Miles of Projects Rovanco has Successfully Completed

Institutions
- Cornell University
- Northwestern University
- Princeton
- Stanford
- University of Connecticut
- University of Florida
- UIC (Chicago)
- Vanderbilt
- Iowa State University
- University of Minnesota
- Michigan State
- University of Delaware

Pharm & Biotech Facilities
- Pfizer
- DuPont
- Wyeth-Ayerst
- Merck
- Avecia
- Novartis
- Janssen
- Centocor

Hospitals
- Big Fork
- Mayo Clinic
- Providence
- Cleveland Clinic
- Kaiser

Energy Companies
- Commonwealth Edison
- Trigen
- Noresco
- Cordia
- Citizens Thermal
- Veolia
- WE Energies

Industrial
- BP Whiting
- General Motors
- Boeing
- IBM
- Getty Oil *(108 miles)*
- Alaskan Pipeline

Airports
- Miami International
- Indianapolis
- Reagan National
- Chicago O'Hare International
- Dulles

Railroads
- Norfolk & Southern
- BNSF
- CP Railway
- Grand Junction
- Union Pacific

Military Bases
- Ft. Wainwright
- King Abdul Aziz Military Base *(740 miles)*
- Ft. Greeley
- Pearl Harbor
- Vance Air Force Base

Waste Water Treatment Plants
- Sullivan County Biomass
- Stickney
- Ann Arbor
- Monroe
- Cambridge

Housing Authorities
- Chicago
- Chicopee
- Boston
- Lynn
- Will Rogers

Miscellaneous
- White House
- Statue of Liberty
- Freedom Tower
- National Archives, Washington, D.C.
- Yellowstone National Park

Thousands Of Miles Of Experience™

Insul-800 and Rhinocoat® High Temp Conduit Systems for steam distribution, condensate, high temp water, process fluids and fuel oil. These systems arrive on-site as a complete, trouble-free, long lasting, watertight heat distribution system.

- U.S. Government approved Conduit Systems are Class “A” (DDT) type drainable, dryable & air-testable
- Pre-manufactured at Rovanco assures uniformed quality & eliminates any field fabrication
- All systems are engineered & factory fabricated to your specifications
- Both systems are available with Pyrogel® XT-e insulation encasing the carrier pipe – which is featured on Rovanco’s “Elite” Conduit piping lines

Insul-800 Elite Hi Temp Conduit with Pyrogel® XT-e & 400˚F Hi Temp Polyisocyanurate Foam. Also shown with optional RhinoJoint

Rhinocoat® Hi Temp Conduit with 400˚F Hi Temp Polyisocyanurate Foam Carrier Pipe Insulation

Insul-800 systems ordered with RhinoJoints™ & Amerlock carry a 10-year warranty. Amerlock pictured to the right

① Insulations used for carrier pipes and/or outer conduit can be urethane foam, 300˚ & 400˚F polyisocyanurate foam, mineral wool and Pyrogel® XT-e.

② These Conduit piping systems have carrier pipe sizes (1/2” through 36”) and are available in a wide range of materials including; Schedule 40 & 80 carbon steel, stainless steel, copper and others upon request.

③ Outer jacket or conduit casing can be a variety of materials including; HDPE, carbon steel, stainless steel and spiral seam galvanized. Other materials may be available upon request.

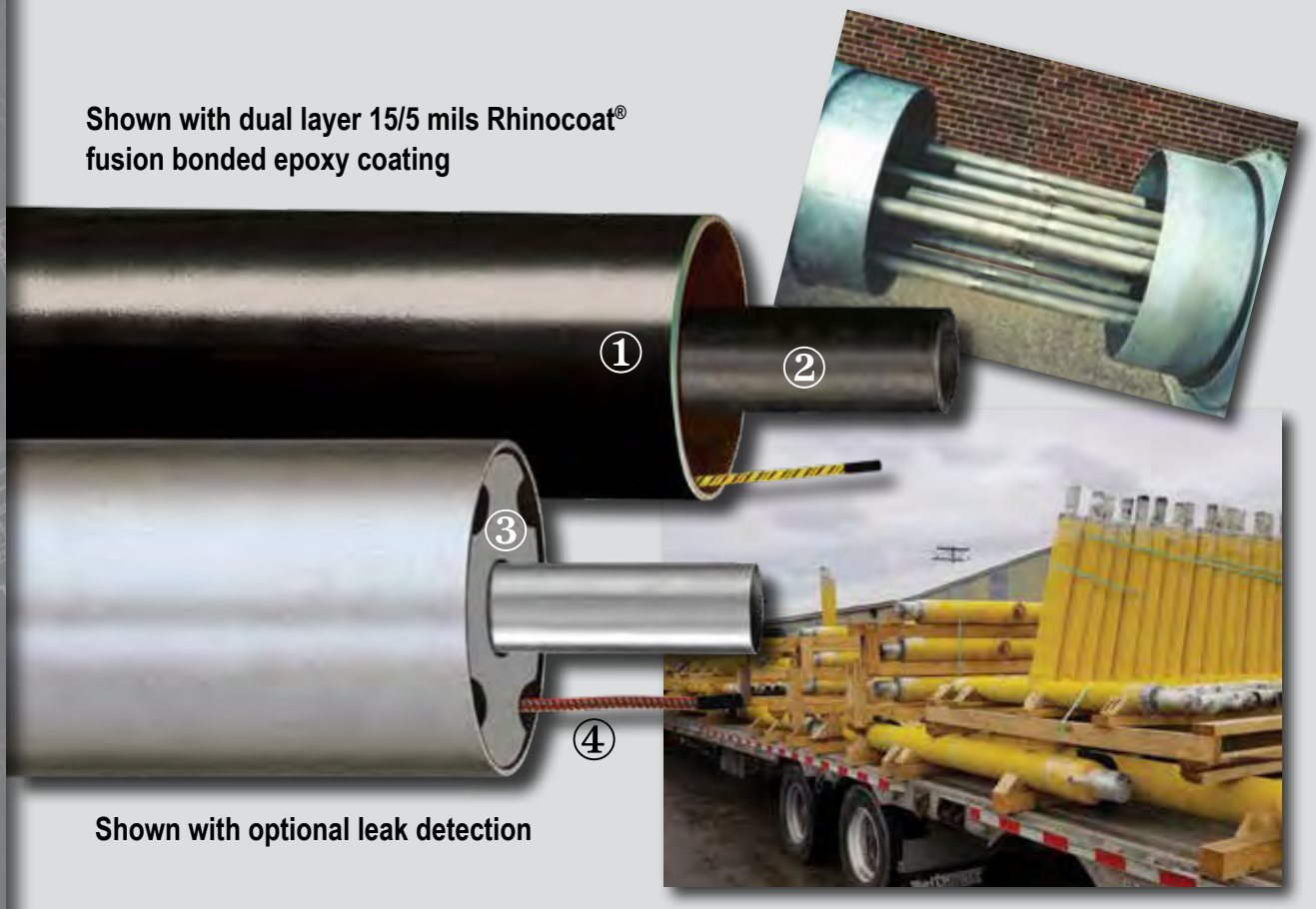
④ Rovanco’s Rhinocoat® consists of a carbon steel outer jacket protected with a dual coat 15/5 fusion bonded epoxy. This 20 mils of total coating is 40% thicker than the world wide standard. Hot dipped galvanized or red mil coating over carbon steel can be used for above ground applications.

Double Wall Containment

Containment Piping System pre-engineered & pre-fabricated for transferring heating oil, natural gas, chemicals, jet fuel, solvents, process waste, gasoline and acids.

- Contains fluids within the piping system that could leak out of the primary pipe
- Protects personnel from exposure or contaminating the soil, ground water or air with contents of carrier pipe
- Can be manufactured with more than one inner carrier pipe made of the same or different materials
- Flexible stainless steel containment piping system available
- Special supports guide & center the pipes allowing them to freely expand and contract
- Typically made of carbon steel, stainless steel, FRP or PVC, but a wide selection of both carrier pipe and jacket materials are available
- Available with heat trace and leak detection

Shown with dual layer 15/5 mils Rhinocoat® fusion bonded epoxy coating



Shown with optional leak detection

① A variety of outer jacket options including fiberglass, PVC, 10 gauge steel conduit with hot dipped galvanized or red mill *(Above Ground)* and 10 gauge steel conduit with Rhinocoat® 15/5 dual layer (20 mils total) of fusion bonded epoxy coating *(Below Ground)*.

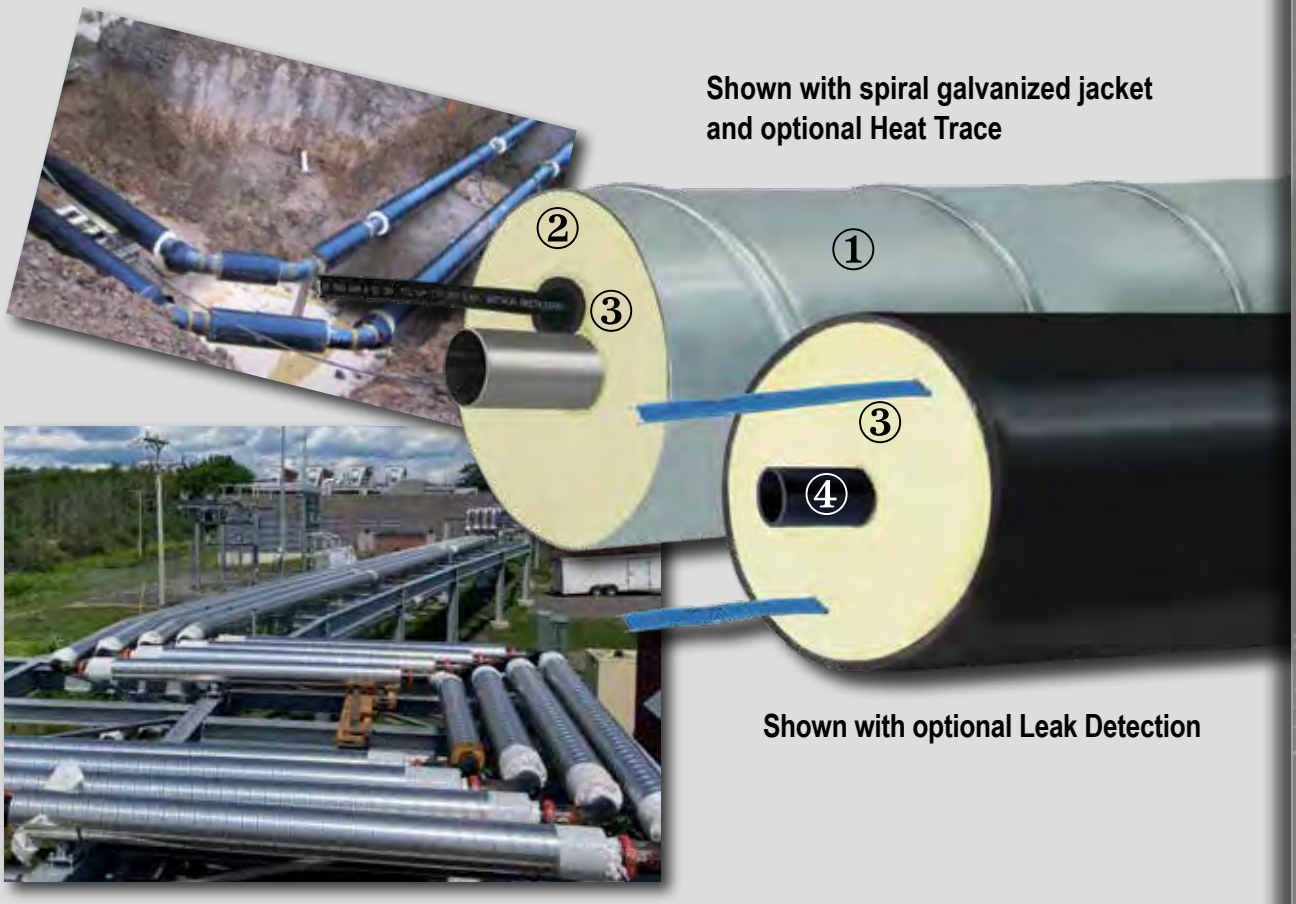
② Numerous carrier pipe options are available including carbon steel, stainless steel, FRP and PVC.

③ Carrier pipe aligned and supported within casing by centering supports in air space area every 10'.

④ Available with optional leak detection able to detect any liquid.

Pre-Insulated Foam Systems designed to be a thermally efficient and an energy saving way to transfer liquids at temperatures ranging from -350˚ F to 400˚ F for above and below ground applications.

- Rovanco will do a heat loss analysis to show you how much you can save with our pre-insulated foam piping systems
- These systems have the capabilities to be heat traced by means of steam, glycol or electrical
- These systems can also be monitored by a leak detection cable that runs the length of the system
- Proprietary, non-corrosive spacers ensure pipe is centered within the casing, allowing an equal amount of polyisocyanurate foam to surround carrier pipe
- Dramatic labor savings for field insulation and jacketing of joints and fittings
- Can be manufactured to EN253 standards including Nordic Leak Detection



Shown with spiral galvanized jacket and optional Heat Trace

Shown with optional Leak Detection

① Outer jacketing is available in many different materials including, PVC, fiberglass, HDPE, spiral lock seam galvanized, aluminum or stainless steel.

② Foam insulation can be polyurethane, 300˚ or 400˚F polyisocyanurate foam in nominal thickness. Infrared heat sensing device is used to scan the full length of the pipe checking for any voids after filling with foam.

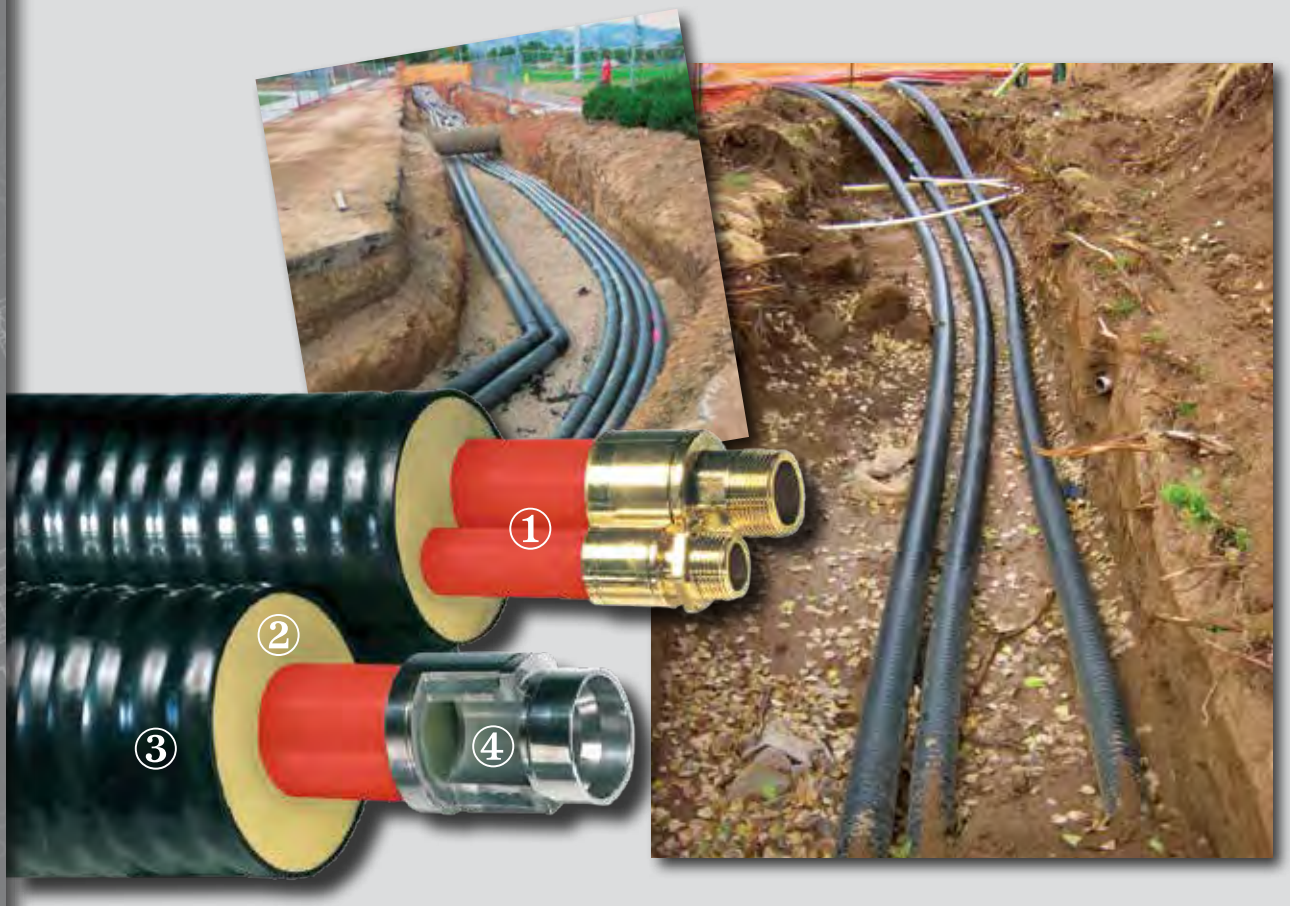
③ Optional Heat Trace and Leak Detection is available on all systems.

④ Carrier pipe sizes range from 1/4" to 36" and can be copper, steel, HDPE, PVC, PERT, PP-RCT, fiberglass, stainless steel or ductile iron. Other carrier pipe materials available upon request.

Rhinoflex® Flexible Pre-Insulated

The Rhinoflex® Flexible Pre-Insulated Piping System for heating hot water, chilled water, domestic hot & cold water, brine lines, snow-melt, low temp condensate, glycol, radiant heating and low temp solar applications.

- Perfect for traversing curves and going around corners or obstacles
- Flexible characteristics result in few or no underground joints
- Saves up to 60% in labor costs – a total installed savings of 25 to 40%
- The lowest installed cost of any pre-insulated pipe & 25-year warranty
- Continuous coils up to 2,500 feet in length
- More than 2,000 miles installed in the U.S. & 40,000 miles worldwide
- No expansion/contraction issues & all components are non-corrosive
- Rovanco's Rhino Roller reduces labor and installation time



① **PEX-A -** Crosslinked polyethylene for hot service up to 204°F.
PE - High density polyethylene is suitable for temperatures up to 140°F and as low as -20°F. Available in single or dual carrier pipe configuration.

② The high thermal efficiency of the urethane foam allows for a smaller jacket size & promotes lower heat losses.

③ The polyethylene outer jacket is the heaviest in the industry so provides maximum protection while being highly flexible due to its corrugated construction.

④ A variety of fitting options & materials available, including PEX & HDPE electrofusion weld fittings; brass compression fittings & brass or steel press-fit fittings.

Steel Pre-Fabricated Manholes

Rovanco's Pre-Fabricated Steel Manholes arrive at the job site pre-fabricated, pre-piped and pre-insulated. These leak-proof, self-contained, ready to install manholes are a time and cost-saving alternative to pre-fabricated concrete or pour-in-place manholes.

- Manholes play an important role in your underground heat distribution system
- Create a dry ventilated environment for your valves, steam traps and expansion joints
- Dramatically reduce construction costs by as much as 50%
- Factory coated with 2-part marine grade epoxy
- Equipped with a 50 year cathodic protection system
- Shape of manholes can be square or rectangular.
- Large size range – up to 45' long, 10' wide, and 10' high
- Totally welded steel construction that is factory pressure tested & leak proof
- Accelerate manhole installation – streets can be re-opened in one day instead of 5 or more days
- Optional Leak Detection ready

Shown with optional Leak Detection

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Piping Systems

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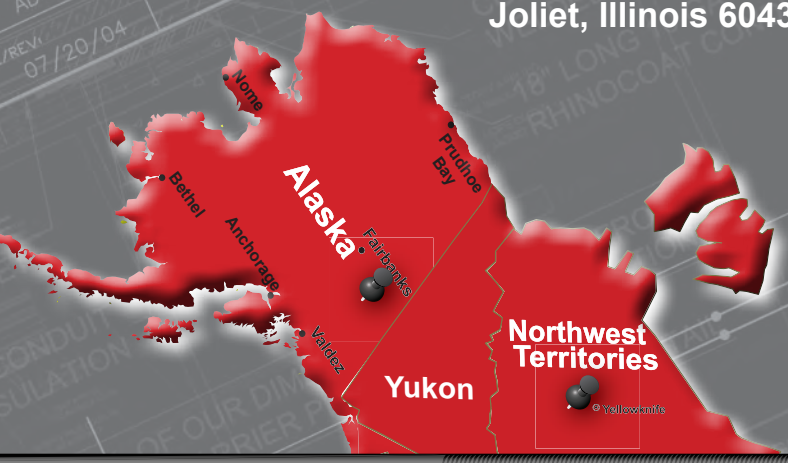

Service Is Provided By A Network Of Experienced Representatives