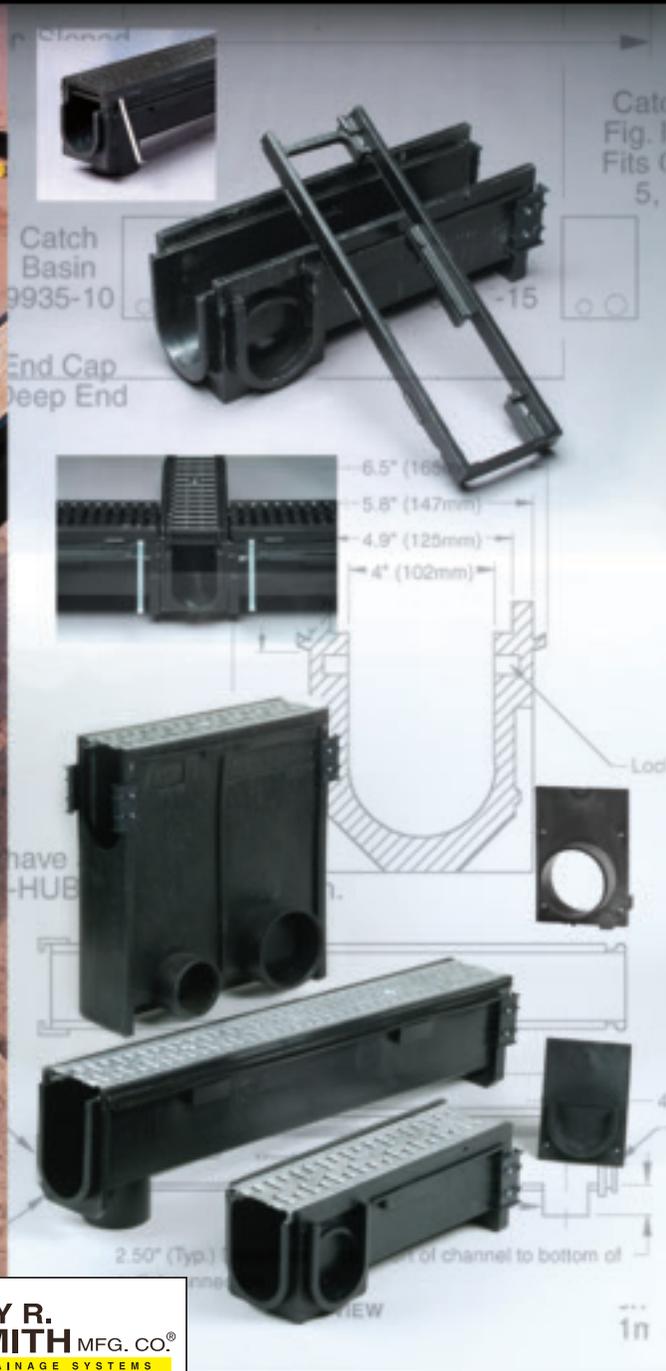


# Jay R. Smith Mfg. Co.<sup>®</sup> Drainage Systems



**Enviro-Flo<sup>®</sup> Trench Drain Series**  
**A Polypropylene Surface Drainage System**  
The Complete Contractor-Friendly Trench Drain Series  
That Replaces Cast-In-Place Trench

# A REVOLUTIONARY, CONTRACTOR FRIENDLY SYSTEM THAT REPLACES CAST-IN-PLACE TRENCHES

## Presloped Channels

- 1 meter (3.28 feet) channel sections speed installation;
- Presloped (.6%) radius channels;
- Smooth, uniform interior delivers best hydraulic performance.

## Lightweight-Easy to Handle

1. 100% polypropylene;
2. Reduces installation costs in every aspect;
3. Easiest field modification: cut, drill, machine, weld;
4. Superior chemical resistance;
5. Durable - non breakable, won't chip.

## Locking Grates

1. Complete selection to meet all requirements;
2. Positive lockdown function means grates won't wobble;
3. No frames needed on most installations.



## Enviro-Loc®

1. Mechanical interlocking joint;
2. Alignment integrity maintained;
3. With proper sealant, provides a watertight connection.

## System Features

1. Each section has a 4" molded no-hub bottom outlet connection;
2. Each channel identified with flow arrow and sequence numbers;
3. Each channel has angular full length anchoring ribs;
4. Each channel is shipped with a removable factory insert board that functions as a stabilizer and debris guard;
5. Horizontal outlet cap available;
6. Mechanical interlocking end cap.

## Load Rating and Application Guidelines



Pedestrian, Bicycle,  
Private Vehicle Use

9930, 9931  
(with appropriate grating)



Passenger Cars, Vans

9930, 9931  
(with appropriate grating)



Commercial Vehicles, Buses

9930, 9931  
(with appropriate grating)



Pneumatic Tire Forklift Traffic

9930, 9931  
(with appropriate grating)



Solid Tire Forklift Traffic

9931  
(with appropriate grating)

• See pages 12 and 13 for appropriate grating for load class requirements.

## ENVIRO-FLO® SYSTEM WITH ENVIRO-LOC®

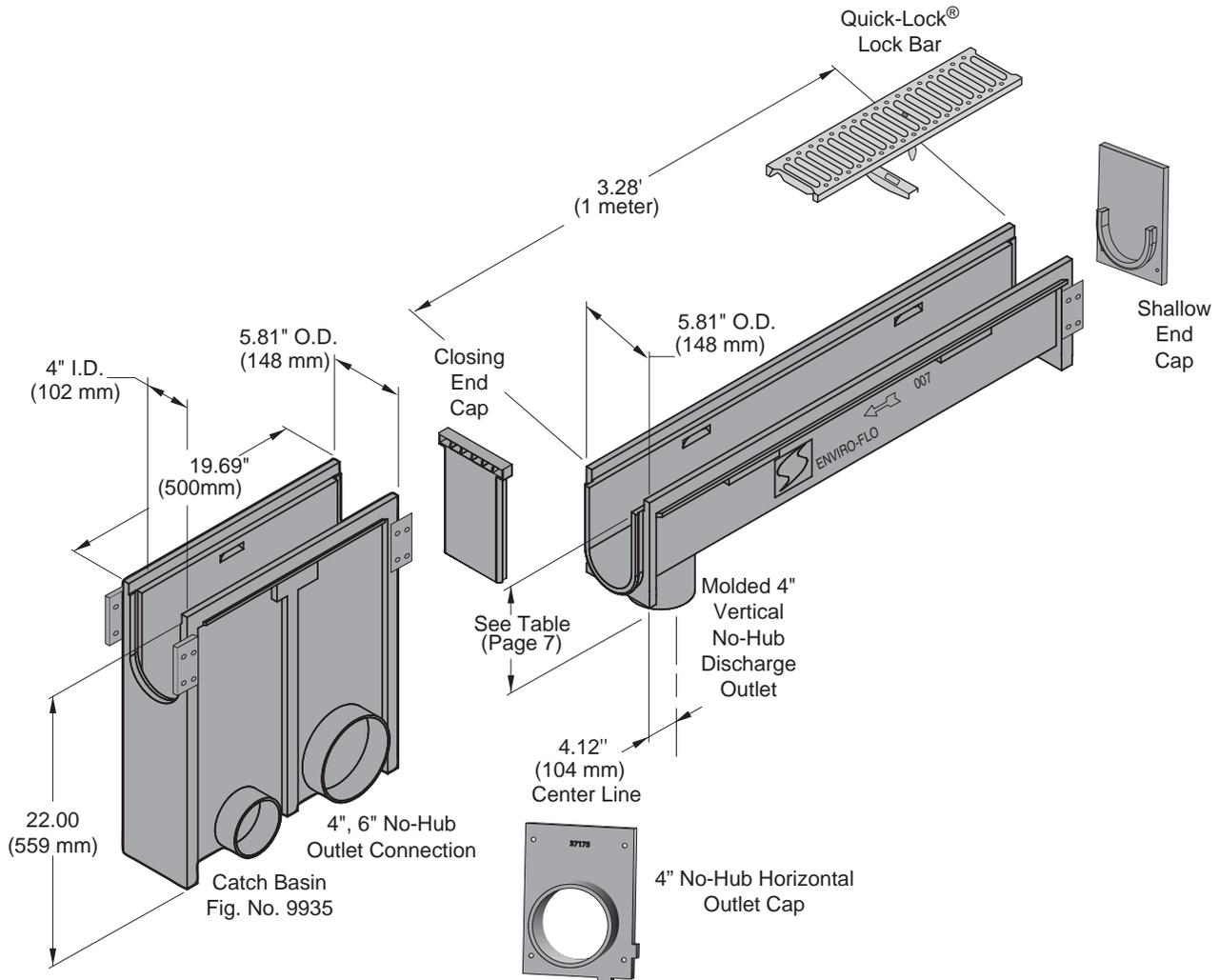
The Jay R. Smith Mfg. Co.® Enviro-Flo® Systems with Enviro-Loc® joints are so easy to install. They make formed-in-place concrete trenches non-competitive.

Simply align male and female ends of channels and slide together as illustrated in photos 1 and 2.

After making Enviro-Loc® connection, span channel joint with pre-cut factory furnished insert board (photo 3) with one-half length in each section to protect channel grate recess, prevent debris from entering channel section and to maintain proper channel and grate alignment.



# 9930 ENVIRO-FLO® TRENCH DRAIN SYSTEM



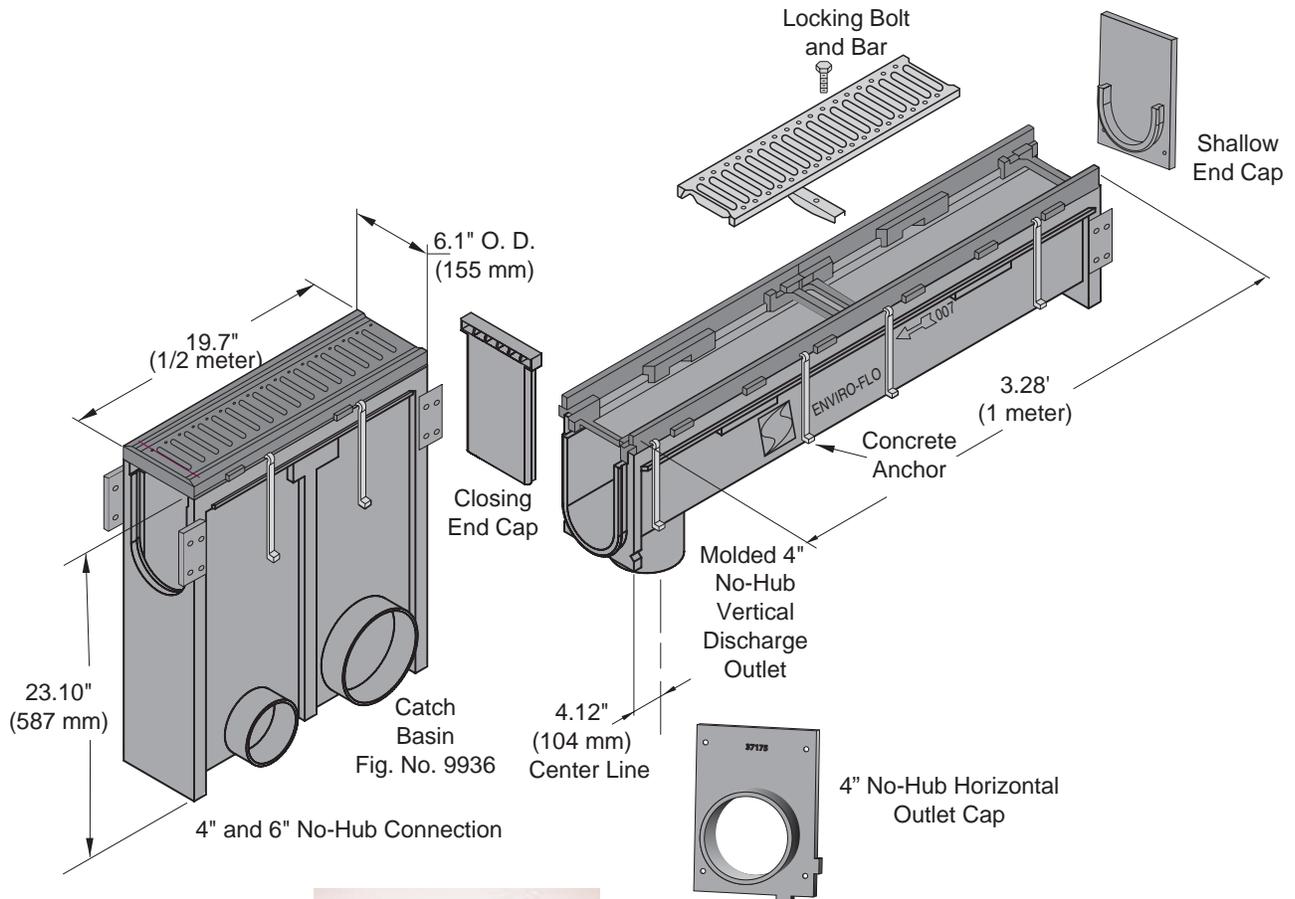
The 9930 is a sloped drainage system with 100% polypropylene channels of interlocking design with a built-in slope of .6% and radiused bottom. Recommended for light and heavy duty applications.

The 9930 channel utilizes the Quicklock® grate feature that allows the grating to be secured to the channel easily.

The 095N 1/2 meter neutral channel section features side outlet connections on each side that allows for a 90° miter turn without requiring fabrication or allows for a side outlet connection. See page 14 and 15 for details and other accessories.

A variety of channel grates are available. Refer to pages 12 and 13 for complete grating information.

# 9931 ENVIRO-FLO® TRENCH DRAIN SYSTEM



The 9931 incorporates a ductile iron frame with concrete frame anchors and grate. Recommended for situations requiring a heavy duty frame, grate and fully sloped channel, 9931 provides the perfect drainage solution. The frame and grate is capable of handling solid tire traffic and provides high resistance against impact of steel containers, struts and metal wheels.

The sturdy ductile iron framework will also accept any of the ductile iron gratings and covers to meet specific site requirements (see pages 12 and 13 for grating options). The frame adds an additional height of 1.1" (28 mm) to channel units. See chart on the next page for details of channel depth and system design.

The 9931 with frame locked down and grate is especially designed to prevent longitudinal or lateral movement.

The 095N 1/2 meter neutral channel section (inset photo) features side outlet connections on each side that allows for a 90° miter turn without requiring fabrication or allows for a side outlet connection. (Concrete frame anchor not shown on front). The complete line of 9930 accessories is available for use with the 9931.

See pages 14 and 15 for details and other accessories.

## 9930 TRENCH DRAIN SYSTEM WITH QUICKLOCK®



9930 Series QuickLock® assembly and removal of the cover grate is easier than ever.

QuickLock® is a revolutionary grate locking system designed to improve accessibility to the channels for cleaning and maintenance. QuickLock® replaces the standard bolt and bar locking device used in many other trench drain systems.

The factory assembled components that make up the QuickLock® locking system include a smooth stainless steel grate lug and a spring clip type locking bar. See illustration below.

### Assembly & Removal



The spring clip in the locking bar is designed to allow centering of the grates for final positioning.

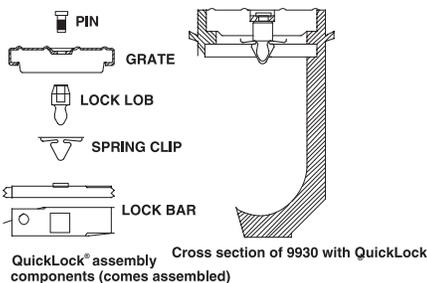


The locking force is sufficient to hold grates in place up to and including load Class C.

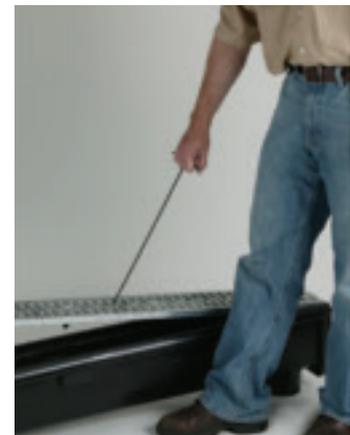


There is no need for tools to fasten the grate into the channel. The grate snaps into place with a quick impact.

QuickLock® components are preassembled to the grating and only the locking bar must be fit into place by the installer. The locking bar holds itself into the channel's locking pockets with tension side grips which can be released with a flat blade screwdriver. Removing the grates for channel cleaning is simple. A grate lifting tool, Fig. No. 9859 (shown below), is offered for removal.



Grating Available with Quick Lock®	Load Class "A"	Load Class "C"
9870-410-GP	X	
9870-420-G	X	
9870-445-SSADA	X	
9870-450-SS	X	
9870-451-SSPA	X	
9870-494-PADAB	X	
9870-494-PADAG	X	
9870-405-GM		X
9870-411-GPHD		X
9870-425-GHD		X
9870-430-SSM		X
9870-455-SSHHD		X
9870-465-SSP		X
9870-479-MD		X
9870-485-PB		X
9870-492-RC		X



**9859 QuickLock® Hook**

Designed to ease the removal of grates from trench drainage system using the QuickLock® securing method.