The cleanest way to install the gas and electric associated with the Negative Edge Fire Feature is to install it inside the dam wall. This is particularly desirable when the dam wall will be visible from the yard after the pool is complete. When the components are installed in the dam wall the finished install looks like a “chin up bar” has been installed on the dam wall as shown in the photos below.

On the following pages, you will see one example of how to Install a Negative Edge Fire Feature
Introduction to the Hardware for the Negative Edge

Main Burner

Main Burner END Mounting Bracket

Main Burner MID Mounting Bracket

Typical Bracket Length: 6"

Main Burner Gas Inlet (Typically ¾” FIP)

Pilot Burner

Pilot Burner Gas Inlet (Typically ½” FIP)

Pilot Burner Electrical Connection

Pilot Burner Burner Section
The drawings on this page and following pages are for illustration purposes ONLY. The Plumbing and Electrical for YOUR Negative Edge Feature may be different!

**Plumbing and Electrical Rough In**

**Main Burner Gas Plumbing**

- Main Burner (2 Burners End to End)
- AWEIS Ignition Control Box (within 100')
- Gas Line for Main Burner (Inside Dam Wall)

**Notes**
1. Dashed Lines represent gas lines located INSIDE dam wall
2. Multiple Burners needed if Main Burner is longer than 14' (Low Gas Pressure) / 20' (Medium Gas Pressure)

**Pilot Burner Gas Plumbing & Electrical**

- Pilot Burner Gas Line (Inside Dam Wall / Gray Lines)
- Pilot Burner Electrical Conduit (Inside Dam Wall / Orange Lines)
- AWEIS Ignition Control Box (within 100')
- Main Burner
- Pilot Burner

**Notes**
1. Dashed Lines represent gas lines / electrical conduit located INSIDE dam wall
2. This feature is configured with (1) AWEIS configured with (2) Pilot Burners
3. Pilot Burner Wire Harness supplied by Fire by Design
Main Burner and Pilot Burner Rough In
(Relative to Each Other)

Step by Step Instructions for Installing the Hardware

At right you see a photo of a mockup of what a typical rough in for a Negative Edge Fire Feature should look like. The Main Burner Gas Line is above the Pilot Burner Gas Line by at least 8”. The Main Burner Gas Line size is typically a ¾” gas line and the Pilot Burner Gas Line is typically a ½” gas line. Recommended electrical conduit size for the Pilot Burner electrical wire harness is ¾”.
At right you see a photo of some of the Negative Edge Hardware being mounted to the side wall of the Negative Edge of the pool. The “Flange for Mounting Brackets” will be the supports for the Main Burner. The Compression T for the Main Burner has been installed on the Main Burner Gas Line. The Compression Coupling for the Pilot Burner has been installed on the Pilot Burner Gas Line. And the Wire Harness which is supplied with the AWEIS has been pulled through the electrical conduit.

At right you see a photo showing the Main Burner and the balance of the Mounting Bracket hardware has been added to support the Main Burner.
At right you see a photo showing the Pilot Burner has been installed by connecting it to the Pilot Burner Gas Line and connecting it to the wire harness protruding from the electrical conduit.

**Installation Complete!**