This guide is written to help first time installers of SlowStop® FlexRail properly layout and install this guardrail system. Although installation is simple and straightforward, we will share our experiences with you here for best practices.

Your first step should be to review SlowStop® Bollard installation instructions and gather the necessary tools. In addition to the tools called out in those instructions, you may also need the following:

- Tape measure with both metric and imperial units
- Adjustable wrench
- Chalk line
- Rebar scanner

Also please review the FlexRail PC Guardrail Installation drawing for details on part locations. Both documents can be downloaded at www.slowstop.com/resources/installation/. Be sure to also review any layout documents created specific for your installation.

1. We recommend first laying out all components in the approximate location they will be installed. This will help you to visualize assembly. Note below that there are two types of optional end caps. One is indented, and goes with the non-indented side of the guardrail. The other is straight, and goes with the indented side. This diagram shows a single rail with two end caps. Multiple rails can be added together by overlapping straight end over indented ends as the attachment point. Also, one or more rails might be custom cut shorter than 4.34 meters (171") overall length in order to protect the desired area.
2. Choose an anchor point for your first base installation. By installing one base then loosely fitting the rail together, you can be sure to properly space bases and not rely solely on measurements. Standard center holes on the rail are 2000mm (78.75”) apart. However this can vary if a rail has been cut short for a custom install. Those holes will be rounded drilled holes instead of oblong.

3. Keep anchor holes away from concrete edges by the length of the anchor (5”) when at all possible. It is also best to avoid cracks. This is a good time to scan for rebar and readjust anchor hole locations if you have a scanning device. When using the base as a template for drilling, be sure to keep the hole at least ¼” from the anchor slot to avoid having the anchor hang up on the base. Tighten the base completely and insert a pipe with the hole facing the front.

4. This is a good time to snap a chalk line using the first base as an alignment feature.
5. Attach a FlexRail section to the first post. If you have chosen an end post, also install the end cap. Install using the carriage bolts and plastic base provided. Center rail holes require only one carriage bolt. End cap and connecting points require three (two short bolts in addition). In the example below we’ve chosen the center post. Note that at this point the bolt is only hand tightened to allow for adjustment when other posts are installed. It is sometimes necessary to pound the head of the carriage bolt into the plastic in order to get the nut started on the other side. Alternatively, install without the lock washer, tighten to draw in the head, then loosen and install the lock washer. Add the set screws to the base and hand tighten. Remember to completely tighten later when installation is complete.
6. Set the next base in place but do not anchor yet. Loosely install the pipe and align the base to the proper location to ensure holes align and that the rail will be straight when installed. Mark hole locations for the base then remove the base to drill holes. Do not try to drill anchor holes with the rail and base in place as it will force you to drill the front anchor holes at an angle.

Note that this is a male (indented) end cap and fits behind the rail. It requires three attachment bolts (one long, two short).
7. Repeat this process with the rest of the bases, proceeding in a line. Each base should be 2000mm (78.75") apart from each other unless there is a custom cut piece. Align that base carefully with the proper hole to hole distance. Make sure to go back and fully tighten all fasteners when complete.

This image shows the last installed post with end cap when completed. Note that it is the straight (female) end cap that fits in front.