



Pre-Benched Manholes Explained:

Sewer manholes are usually classed as either “**Sanitary**” or “**Storm**”. Sanitary sewer systems carry effluent to a treatment facility or lagoon and a Storm sewer system carries storm water runoff.

What Tri-Kon Precast will do for you:

- For most Sanitary manholes, we place a rubber gasket in the manhole barrel for each pipe entry and exit point (a.k.a. “invert”). We use “A•lok” rubber gaskets to ensure a tight seal with the pipe at the entry/exit points in the manhole. These A•lok gaskets are designed for use with SDR 35 and 28 sanitary pipe (a common pipe used for sanitary lines).
- If you require a Storm manhole where the engineer has specified “ribbed” pipe such as Ultrarib or Boss 2000, we generally place a “blockout” in the manhole for each invert. You will need to use grout to close up any gaps between the pipe and manhole. If you are using SDR 35 or 28 pipe for your storm sewer, we recommend using the A•lok gaskets.
- As part of our standard manhole offering, we pour a “base” (encase the barrel into a base) and “pre-bench” (create a channel inside the manhole that directs the flow of effluent/water out of the manhole). See below for photo examples.

Example #1:

Pre-Benched Sanitary Manhole with A•lok Rubber gaskets.
Note the channel inside the manhole to direct effluent flow – this is what we term as “benching” a manhole.



Example #2:

Pre-Benched Storm Manhole with Blockout.



Customer Supplied Information and Manufacturing Process:

- Customer supplies a copy of the project blueprints OR details that contain: Rim Elevation, Invert Elevations, and orientation of inverts, showing angles.
- Our staff will interpret the blueprints or customer supplied details and will construct a shop drawing for each manhole. Shop drawings are forwarded to the customer for approval prior to manufacturing.
- Once our customer signs the shop drawings, manholes are placed in the production schedule. The barrel with gaskets or blockouts is poured on the first day, followed by benching the next day (generally a 2 day process).

Please note: plan on a minimum of 2 weeks to manufacture any based and benched manholes