Grand River Rapids: Dam Modifications

**Dam 1:** This dam is to be left alone because it is needed to maintain a minimum water level during times of low flow. The current weir can be seen below.

**Dam 2:** The design calls for the complete removal of this dam in order to keep the 100 year flood level below the current levees in the downtown area. The dam will be removed using the drawdown method.

**Dam 3:** Boulders are to be added to the up and downstream sides of the dam and a gap will be added to the center of the dam. This will give this area a more natural appearance as well as create white water.

**Dam 4:** This dam will be replaced with a rock weir. The cross section, layout, and plan views of the rock weir are shown below.

**4th Street Dam:** In order to eliminate the dangerous undertow downstream of the dam a stair step structure was designed. The structure improves safety for boaters up and downstream of the dam.