

Curtains consisting of wooden battens, hinged together by brass links, are supported by frames suspended from a bridge.

The curtains have for their base a rolling, cast-iron shoe of the form of an archimedean spiral, and they are rolled by an endless chain by means of a travelling windlass. The curtains have any lateral travel limited by guides in the supporting frames.

The supporting frames are suspended by joints to the lower floor of the bridge. They are formed of built-up members and have their lower ends resting against large cast steel step castings, embedded in the concrete.

The frames are raised and lowered by means of travelling electric cranes operated from the service floor.

The Permanent Dam will raise the upper level 7 feet, and the further raise of 14 feet will be accomplished by means of the curtain dam.

At the end of the navigable season, the curtains are rolled up, removed, and stored away, and the curtain frames are raised, leaving unobstructed passage for the ice and spring freshet.

On the upper deck there will be a general traffic highway floor of reinforced concrete and a bascule lift will be erected over the lock chamber.

On the east side of the river a repair shop is being erected with a complete equipment to perform all necessary field repairs.