



FIG. 3—VIEW OF FOREBAY FROM CLIFF ABOVE POWER-HOUSE SITE

This view is not panoramic, as it is three separate photographs taken from the same point, looking south, west and north. Note crushing plant at right.

and spaced at 4 ft. intervals in both directions, will hold the concrete wall to the rock. Each bolt will extend downward into the rock at an angle of about 30 deg. from horizontal, and will be grouted in; it will be bent up vertically at the upper end, which will be embedded in the concrete.

There will be three concreting plants at work on the side walls, while three or four other plants will pave the floor of the canal. With the exception of an 18-ft. strip along the centre line of the canal, the floor will be entirely paved before the adjoining side walls are poured. The floor will be of 2-in. minimum thickness, with 6-in. as the maximum thickness. Where the rock is so uneven that depressions of a greater depth than 6 in. must be filled, loose stone will be used up to within 6 in. of the top.

The floor will be screeded and floated. This will be done without any difficulty on account of the 18-ft. strip which will be left along the centre of the canal, and which will be paved after the side walls are constructed, and on account of the 2-ft. strip which will be left along each wall and which will be poured as a part of the wall. In the 48-ft. rock section, for example, two slabs, each 13 ft. wide, will be laid along the canal 18 ft. apart and approximately 2½ ft. from the rock wall on the side.



FIG. 4—SCALING TOWER IN ROCK CUT NEAR FOREBAY

Each of the plants for paving the floor of the canal will consist of a 1-yd paving mixer (with chute) mounted on a flat car. On this car there will also be an overhead bin to hold sand and crushed stone, and a cement platform. The cement will be chuted in bags to the platform from the con-



FIG. 5—SHOVEL NO. 1 IN ROCK CUT

struction railway, and the sand and stone will also be chuted from specially arranged dump cars to the overhead bin. Surmounted upon the bin will be a frame-work that will carry the chute as a part of the concreting plant, so that the chute will move right along with the plant.

After the two parallel floor slabs are poured, a track will be laid along each of them, and upon this pair of tracks will run the concreting equipment for the construction of the side walls. Each of the three sets of equipment for the construction of the side walls will consist of two "batteries" of forms and one concreting plant. Each "battery" will be made up as follows:—

Two flat cars on each track will be bolted together and cross girders will bolt the cars on one track to the cars on the other track. Upon this portable structure will be erected a light steel tower, the top beams of which will overhang the lower portion of the structure and will span the canal prism from one wall to the other. From the end of these top beams will hang a steel frame-work to which will