

Platoro's Crest of the Dam Project Summation

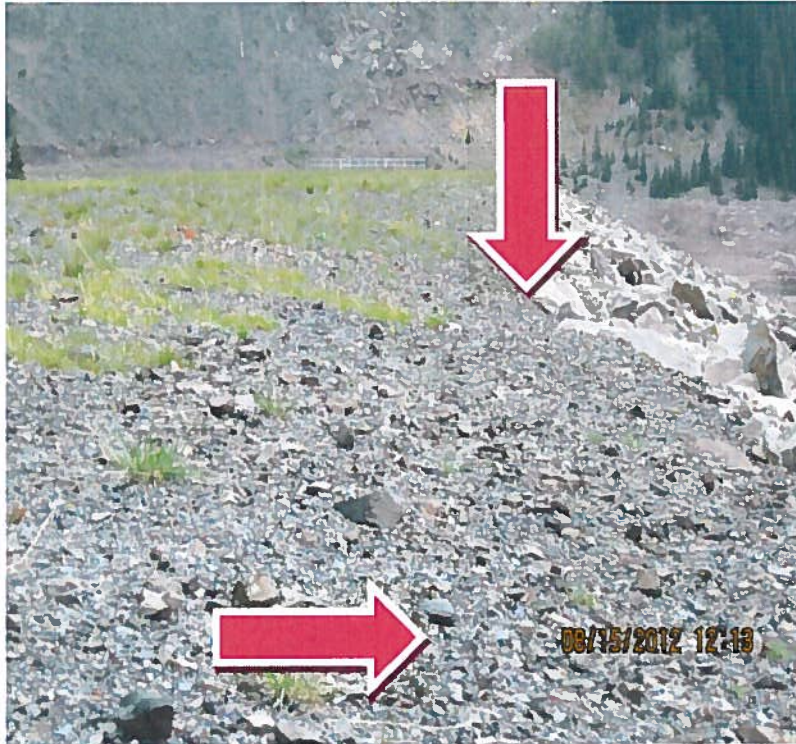
October 30, 2012

The work on Platoro's Crest of the Dam, was a CWCB funded Project. This project was collaboration between the Colorado Water Conservation Board, the Rio Grande Basin Roundtable, and the Conejos Water Conservancy District.

In order to maintain the integrity of the Platoro dam during high water and flooding events, the Crest of the dam was re-rocked and graded. The rock, gravel, and grading are what protects the impermeable center "core" of the dam during high water and possible flooding events. It is necessary to maintain this area of the dam so as not to incur operational restrictions to either capacity or day to day operations because of safety concerns.

Robin's Construction and its sub-contractors hauled the rock to the top of the dam, stockpiling as much as space would provide. While still hauling rock, Robins began placing rock to the upper portion of the dam on both the upstream and downstream bank. The Rock was placed in such a manner so that both edges remained "square" and not rounded because of settlement. After the rock was placed, a 3/8 minus grade of gravel was placed and graded to seal and even the crest. The rock and gravel had to be placed in a manner that would not interfere with Dam's settlement survey points. Robins' was very careful to not disturb these sites while still covering the crest evenly with the rock and gravel.

On October 17th the physical work on the dam was completed. Attached are pictures that show the work and the project stages.



This picture shows the “sloughing” of the edges and the rounding effect of the rock settling, this exposes the small rock to wind erosion that could ultimately expose the core.

The rock was stockpiled for as needed use along the crest of the dam



Each Rock was placed individually by the excavator. It was a very time intensive job.



This picture shows the rock placement before the final gravel and grading.



This is after the final gravel and grading. Notice the orange outline, this is a survey settlement point for the dam.



The arrow in the final picture demonstrates the "square" edges of the crest.



This is what the final project looks like. It is very clean, precise, and exactly what we were expecting.