# ISING TO THE CHALLENGE Anchor Helps Paver Plant Ramp Up

## Shakopee Paver Plant Ramp

Location: Anchor Block Company, Shaloper, Minnesota Scope, 300 feet (109m) of wall supporting a 107-foot (22.5m) long up dape (101), a 100 foot (30.6m) level surface and a 155-foot (465 million down slope (121)). Engineers Ron Vickery, P.E., Anchor Wall Systems General Contractors Suntam Construction Anchor Wall Supplier: Anchor Block Company

The challenge: Enable efficient, daily conveyance of millions of tons of aggregate to holding bins inside the plant.

The solution: Build a wall system that supports a ramp, allowing trucks to drive up and dump aggregate into a hopper for the conveyor system.

## The full story:

Most of the time, sand and gravel belong outside. But not so at the Anchor Block Company plant in Shakopee, Minneota, Forger about wiping your feet on their welcome maxt, because this payer and retaining wall block manufacturer is constantly moving large amounts of aggregate inside. Their recent challenge was to find a way to casily move large quantities of rock and other loads onto a conveyor system that would feed the plant with the raw materials for their products.

Ron Vickery, design engineer with Ancher Wall Systemy, was alked to design a system of retaining walk to support a range over the fifteen-foot high hopper of a conveyor system. The walls would eliminate the need for blow-grade intallation of the hopper and extensive lengthening of the conveyor system. With ramps, the hopper could be raised so that the entire conveyor system would is those ground.

Vekery says the city's aftery requirement of a guardrall or Jensey barrier provided an additional challenge to the project. Vekery motes, "We designed a Jensey barrier consisting of back-too-back Andror Wall Systems Verica" walls that topped Anchoo Wall Systems Verica" Pro" walls on both sides of the ramp. By using the blocks rather than guard raik, we were able to keep the top of the walls looking nice."



Harvey Erstad. plant manager. says the wall is serving its purpose very well, "Ir's an added convenience Trucks drive up the ramp, the driver preselects a bin and dumps the load. and then exits the ramp. The shuttle conveyor mover the load into one of six bins inside the plant."

### Anchor Wall Systems Engineer Finds Self in a Fine Pickle



Ancher Well Systems gestechnical engineer Ran Wokry insows how to odd spice to his life .cc as parttime pickle mokas: He recently enjoyed a tasta edsaccess at the Manneeto State Folk, where Wickery's Spicy Spears was the 1999 Godray Blue Röbben and the company's commitment to market Rac's pickles on greary state shales: acress the courty.

After a day of designing segmental retaining walls for commercial and public construction projects, Vickery spends the evening producing pickles, shareks to the influence of his dill-pickling mother, Mille Vickery.

Vokery's engineering skills surely influenzed the "process improvement" approach he took to his mem's milder dills. "I just kicked up the spices a little in mom's recipes to make a typpier pickled" explains Wokery. To date, finendi, family and Minnecoto State Fair judges these heardly enjayed his zingy creations.

Since installation, the ramp has been so busy that the crew haven't had time to lay pavers over the gravel-filled road. Adds Erstad, "We have trucks containing aggregate that weigh upwards of 80,000 pounds every day, and the ramp is working just fine."

The ramp has worked so well that a similar set of walls is going up across the plant yard. The new wall system will support ramps traveled by front-end loaders moving materials onto another conveyor system. It's just another example of how Anchor Wall Systems has helped this block manufacturer ramp up to do business.

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Have you risen to the challenge with an Anchor Wall Systems retaining wall installation? Contact us at 800-473-4452, ext. 217 for consideration of your story in a future issue.