NDUSTRY UPDATE Should building codes address segmental

retaining walls?

If you live in California and plan to boild a segmental retaining unall, your project man meet the Uniform Building Code (URC). If you build the saw will in Florida, the Sundard Building Code (SPC) applies. And if you're in Chios. In Washiou'll Building Code, which is adopted by many states cast of Minnesota and north of Tlemesce, offers general segmental retaining wall requirements. Standards in a given region may include minimum requirements regarding the deemity and agregate prey within bode, prosynthetic meets and no orthogonal programs.

One Nation, One Code

By the year 2000, the three codes powerning building construction that have citiscensed the U.S. will consolidate under the new International Building Code (IRCs). According to bearing that have taken place than far, the code that is emerging will not specifiedly address segmental retaining walls, but only retaining walls in pureal. Carrently, the segmental retaining wall in dustry, through the National Concrete Masonty Association (NCMA), has in own guidelines contained within the NCMA Design Manual for Segmental Retaining Walls.

The Search for a Solution

Together with Sam Yarosh, the project manager and owner's representative. Greene looked for the most conserfictive wall solution. They carnined cast-in-place, the T wall and several retaining wall products. Almost immediately it was obvious that a segmental retaining wall solution offered up to 25 percent cost savings over cast-in-place due to the large footing a cast-in-place wall would require in a tall near vertical as officiation.

Greene solicited materials bids from three segmental retaining wall manufacturers, one of which was Grinnell Concrete, in Spartan, NJ with the Anchor Diamond* retaining wall block. The decision came down to which one had the best engineering and was the most practical to use in terms of constructability and price," according to Greene.

Says Greene, "I liked the Anchor Diamond block. The grid is pinched in by the lip on the Diamond instead of the pin system that concentrates the tensile stress on the pins. The Diamond block spreads the tensile force over the wider area of the grid."

Genes say. The Diamond block coordinates nicely with the construction proces, because Anchor Will Systems wall can be built in segments. This feature has all great oil a pile to complete a footing for a building. A cast-in-pice opinin wouldn't have worked because it has to be cereited all a once. The natural bown onlor of the Diamond block also complements the stone facing on the buildings and the wouldned returnment.



Customer Service Seals the Deal

According to Chris McAllitere, tales rechnician for Grinnell, they lunded the project in large part due to the attentive service the company provides. Generit agrees. "During the final proporal process, an Anchor Wall Systems enginers, a googied apresentation and McAllitere visited the sine," he recalls. "They were very thorough in answering all of our questions, providing solutions our concerns about soil conditions, height limitations, constructability—even down to our concerns about final engineering designs." Greene also appreciated the access he was given to Anchor's expertise. "The engineers were very open with their analysis – they weren't afraid to show me their calculations at every step, which meant I didn't have to guess."

Steady Progress

Green and Varnh are pleased with the progress of the intuitiation by Rold Woods Penning Wild Spersens team. Says Greene, "Last years we were able to build the contractors to start construction of two buildings. Now we're jointly working on the southern half of the first wall and the entire length of the second wall to allow sufficient ground stabilization to start two more buildings and put in the emergency access road."

By the end of spring, roughly 20,000 feet of wall will have been completed on the site. An additional 15,000 to 18,000 feet will be installed by the end of the year. Pending approvals, Fox Hills may build additional housing units on the site that would require and additional 30,000-40,000 square feet of retaining wall.



