

Outstanding Shotcrete Project Award Winner

2008 Outstanding Architectural Project

ASANTE

The ASANTE project consisted of six aqueduct structures, two sign walls, and a faux bridge that was actually two massive retaining walls. The structures were part of an elaborately designed lake-oriented main entry for a new housing community by Lennar Homes in Surprise, AZ. With the exception of the brick veneer and column caps, all components of each structure were constructed with shotcrete.

Shotcrete significantly reduced construction time. The sign walls and aqueducts were 6 ft (1.8 m) thick and up to 14 ft (4.3 m) high with various radii and arched block outs. The faux bridge walls were 22 ft (6.7 m) high with integral water fountain columns that were another 6 ft (1.8 m) higher. One challenging and unique feature was the exposed board formed areas—which the architect wanted to resemble concrete—placed prior to the concrete industry’s use of plywood in forming systems. Another was the various colored shotcrete sills and wall caps. This project was a natural for shotcrete considering all of the variables involved with each structure.

Outstanding Architectural Project

Project Name:
ASANTE

Project Location:
Surprise, AZ

Shotcrete Contractor:
Fisher Shotcrete, Inc.*

General Contractor:
Pacific Aquascape, Inc.

Architect/Engineer:
McGough Group

Equipment Supplier:
Ready Mix, Inc. (RMI)

Project Owner:
Lennar Homes

*Member of the American Shotcrete Association



Shotcrete being placed for one of the faux bridge retaining walls. A total of 180 yd³ (138 m³) were placed in one shift for each of these massive footings



The two sign walls presented numerous forming challenges. This is a 6 ft (1.8 m) thick wall with an arched opening within a curved section

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Access for forming the water column crowns was from scaffolding 20 ft (6 m) off the ground on both sides of the wall



The sign wall with veneer being applied. Note the detail at the top with the sill, cap, and the 10 ft (3 m) long x 6 ft (1.8 m) wide x 2 to 4 in. (51 to 102 mm) thick cantilevered sill, all done with integral colored shotcrete



Placing colored shotcrete for the arched sills on the bridge walls. Note the board-formed sections within the water columns

These shotcrete structures are part of the stunning entry feature for one of Lennar's master planned communities in Surprise, AZ

