

MASONRY

Arizona Repair Masons/Arizona Ram Jack Case Study

QUOTE # T11020V
DATE 07/02/06
Prepared by: Terryl Day

CLIENT: 3D/I
ADDRESS: 2111 E. Highland, Ste 402B
Phoenix, AZ 85016
JOB LOC: Tempe Beach Stadium
LOC: Tempe, AZ

CONTACT:
PHONE:
FAX#
MOB/PAGE

Original Problems: The cobblestone stadium 460' long built in early 1930's was seriously deteriorated, requiring the restoration of thousands of stones, repairing some 3600' of cracks in the bleachers, sawcutting of control joints every 30' with installation of expansion material, and making various upgrades of steps, pilasters, handicap sidewalks, and curbs.

Client's goal: The project was a historical renovation by the City of Tempe, and matching of the concrete color, now a shade of brown, was of utmost importance. In addition, the city wanted to maintain the architectural style of the existing stadium, overlooking the Tempe Beach Park and newly renovated baseball field.

The picture below shows typical cracks that occurred in the vertical risers of the bleacher seating.



Pic #1 Before

In this picture, the severe deterioration of the cobblestone bleachers can be seen, in the north end of the stadium.



Pic #2 Before

Additional constraints: The Grand Opening of the adjacent Luis Gonzales Baseball Field was scheduled for September 25, 2005, and the completion date was therefore non-negotiable. Then, along the way, the City of Tempe increased the scope of work by adding a handicap ramp and concrete curbs.

Alternate solutions

- #1 Milestones were created for the project, performing crack repair and cobblestone replacement, in two phases.
- # A few temporary laborers were brought in for non-skilled work, such as setting cobblestones in place for the masons to place.
- # When it became evident the Field Supervisor for the Masonry Division was not performing well, he was released from company employment.

Ultimate Solution: The key to success was matching the concrete color for historical purposes.

Supporting Reasons: A total of fourteen color samples were made, each requiring a wheelbarrow of concrete, in order to fill a pie tin of concrete mixed with various quantities of gold and brown powders. The color matching proved essential to obtaining the approval of the project with the City Engineers, and to completing the project with satisfactory results.

Completion time: Work started July 20th, 2005, and ended September 25th, 2005.

encountered problems: In the first phase, the crew was not supervised well, and made some mistakes in mixing the proper color.

Solutions to encountered problems: The Field Supervisor was fired, for other reasons as well, and the color mix was corrected for the rest of the project. Patches were re-made where the color was wrong, which proved satisfactory, but not as perfect as desired.

Final results: The client was very happy with the finished results, a \$225K project, and had five inspectors from various departments, including Historical Preservation, involved in the approval process.



Pic #1 After

The above picture shows the south half of the stadium being worked on, overlooking the baseball field.



Pic #2 After

This picture shows the north portion of the stadium, overlooking the park.