



**Holben, Martin & White's 40+ years of project experience include:**

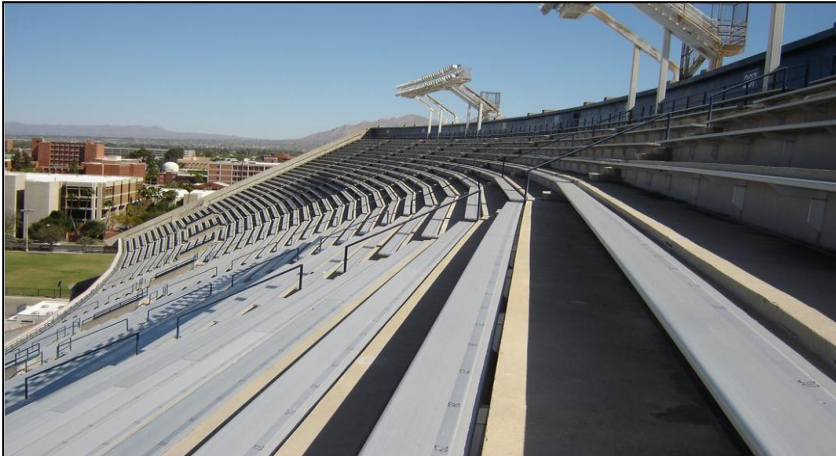
✓ Vehicular Bridges	✓ Ped. Bridges	✓ Educational	✓ University Fac.	✓ Offices
✓ Health Care	✓ Military Facilities	✓ Municipal Fac.	✓ Observatories	✓ Airports
✓ Commercial	✓ Recreational Fac.	✓ Dormitories	✓ Aircraft Hangars	✓ Libraries
✓ Parking Garages	✓ Industrial Fac.	✓ Laboratories	✓ Sports Facilities	✓ Museums
✓ Investigations	✓ Warehouses	✓ Renovations	✓ Correctional	✓ Towers

## University of Arizona Football Stadium Structural Audit, Tucson, AZ

Holben, Martin and White performed a thorough structural audit, investigation and evaluation of the UA Football Stadium as to structural degradation due to corrosion or other factors.

Specifically, he investigated the post-1950 constructed sections of the upper east and west seating sections.

After collecting and collating all of this data, HMW generated a detailed report with repair recommendations and identified



Our Construction Administrator, Rick Nowak, meticulously inspected and photographed areas of the stadium for deficiencies in structural elements, including reinforced concrete, structural steel, and the various repair efforts enacted throughout the last 50+ years.

those areas needing immediate attention.

Warren White, P.E. was the Structural Project Manager for this challenging project.

Bill Vos of the University of Arizona was the contact person. This Project was completed in 2009.

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## **San Diego National Wildlife Refuge Complex San Diego, California**

The project consists of two single-story structures for the U.S. Fish and Wildlife Service at the San Diego National Wildlife Refuge Complex.

The Administrative Headquarters Visitor Contact Station will cover approximately 4,800-SF, and the Service Building will contain 2,600-SF. The new facilities will house a conference/resource room, volunteer workspace, offices for various staff members, a work room/office supply storage, file storage room, staff break room, staff restrooms, locker room with

clean-up shower/bathroom, janitor's closet, utility room/mechanical room, electrical room, IT/telecommunications room and a service shop with space for storage of two vehicles, equipment/tool/supply storage, field workspace with a sink, and maintenance staff desk.

Bryan E. Holben, P.E. is the structural engineer for this project. Our client is Line & Space. Henry Tom, AIA is the Project Architect. Project will be completed in 2011 with an estimated construction cost of \$4,900,000.

## **Sabino Canyon Road Bridge Deck Restoration Tucson, AZ**

This project for the Pima County Department of Transportation consisted of the restoration/ rehabilitation of the existing north- and southbound bridge deck surface and the approach slabs over the Tanque Verde Wash.

Project included site investigation to assess the present condition of the bridge deck, reviewing existing bridge drawings and bridge deck investigation report.

HMW directed that concrete cores be removed from the bridge deck and had them tested for chemical contamination or corrosion, possibly

from de-icing operations or other factors.

In addition, HMW provided Pima County DOT with construction plans, calculations, and special provisions for bridge deck, approach slabs, and deck joint restoration. HMW will also provide construction support for the rehabilitation of the existing concrete bridge deck surface and roadway approaches.

Project will be completed in 2010. The Project Engineer is Warren White, P.E. Dave Zaleski is the Project Manager for Pima County DOT.



*Happy 2010*

*We wish to thank all of our clients for the past 40 years of cooperation and teamwork and look forward to the next 40 years of future commitment to Tucson's future.*



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## HMW News

HMW received a "Citation Award" from the Arizona Masonry Guild in October, 2009 for the University of Arizona Intercollegiate Athletic Facilities.

This multi-faceted project was comprised of three distinct elements totaling 29,100-GSF: Richard Jefferson Indoor Practice Facility (26,400-GSF); Mary Roby Gymnastics Training Facility Expansion (2,400-GSF); and the 300-

GSF Hillenbrand Aquatic Center Diving Pool and Tower (pictured). All were constructed via CMAR by Lloyd

Construction.

The final budget for entire project was \$20,000,000 and it was completed in 2008.

Our client was TMP/Breckenridge Group Architects and

Thomas C. Griffis, P.E. was the Lead Structural Engineer.

