

# CPI Foundation

Increasing Readiness for Our Veterans, Our Infrastructure, Our National Parks



## Project Profile: Windy Gulch, Alcatraz Island

**project** Site Feature Repair

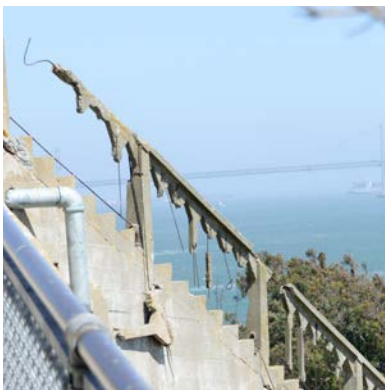
**objectives** Military-to-Civilian Career Training, Historic Preservation, Visitor Access to Closed Area

**team** Military Veterans, Active Duty Military Service Members

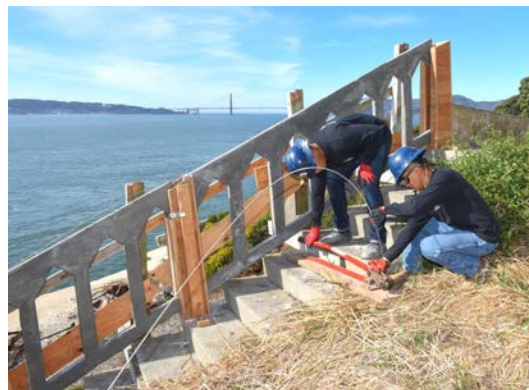
**completed** Fall 2017

**owner** National Park Service

**location** Alcatraz Island, Golden Gate National Recreation Area, San Francisco, California



Before: Deteriorated conditions, no visitor access



In Progress: Precast concrete panels built off-site, moved & temporarily held in place while team built concrete posts & hand rail in place (Golden Gate Bridge in background)



After: Area now accessible for visitors

### Project Highlights

- **Outcomes:** New precast concrete railing panels, new concrete cast-in place hand-rail and posts with footings into historic stair, new railing system below stair, historic stair treads repaired, reopened to public after many years of closure
- **Special Considerations:** Difficult logistical and safety challenges working next to cliff and transporting materials, equipment, generators, and precast panels weighing nearly 300 pounds to the remote site while ensuring no disturbance to nesting birds
- **Work Items:** Research historic configuration, assess existing conditions, develop site specific safety plan, selective demolition, build formwork and safety barriers, install reinforcing, install wire mesh for life safety in railing panel openings

## PROJECT PROFILE details Windy Gulch, Alcatraz Island



Visit and on-site instruction from industry executive



CPI constructed safety railing in place during project



Removing formwork from completed precast panel



Transporting 300-pound precast concrete panel up hill



Work site with difficult project access from below



Completed stair railing from cliff side



Constructing walkway at base of stairs



Installing welded wire mesh for visitor safety



Completed project open to the public

## CPI FOUNDATION PROJECT & TECHNICAL CAPABILITIES

- Expert staff engage hands-on and manage teams of highly qualified and vetted members of our active duty armed forces preparing for transition to civilian careers
- Self-perform concrete, wood, steel, & composite construction as design-build projects coordinated with owners; larger projects include self-performed work in addition to managing consultants & sub-contractors
- Repair, new construction, and historic preservation projects in urban, remote, wilderness, and marine areas include historic structures & site features; visitor & utility facilities; trails; water utility systems; projects that improve access, health, safety, & recreation, including ADA access; roads; bridges; tunnels; and parking lots
- Leader in advancing innovative technological solutions to structural and infrastructure challenges that collectively promote durability, sustainability, and comply with preservation, environmental, & other regulations

The CPI Foundation is a proven public/private partnership program working with the U.S. Departments of Defense and Interior, and with industry companies across the country. The program benefits the United States and its taxpayers by combining the strengths and needs of three national concerns: our military veterans, our infrastructure, and our national parks. Helping avoid potential military-to-civilian transition pitfalls, CPI offers career preparation & placement and hands-on training programs for transitioning active duty service members at all levels from all service branches while completing construction, repair, deferred maintenance, and safety/access projects in national parks and public lands.