



D. BROWN
MANAGEMENT
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Project Experience: Homeland Security

Bridges – Tunnels – Ports – Wireless – Design – Value Engineering

▶ Lessons Learned

Rapid Design & Deployment: After 9/11 there was an extreme urgency to protect our critical infrastructure. This drove timelines that were completely unheard of for projects that had never been done before.

This required improved systems for rapid design, testing, refinement and deployment.

Project Communications: Normally project communications are relatively simple but with a complex design and build project crossing multiple County lines, requiring cooperation between Cities, Coast Guard, CHP and multiple departments inside Caltrans this project required a complete re-design of the normal project communication structure.

Technology Management: The construction portion of these projects alone is challenging – on top of that we were developing technology that had never been utilized in this way before. Managing hardware and software development/integration is completely different than construction. Bringing best practices together enabled improvements in both processes.

Concept to Creation: Starting a complex project with a blank sheet of paper and a budget then guiding it through completion within that budget and meeting the performance criteria completely changes the way you look at other projects both internal and external.

The ability to view things from the 30,000 foot view and then rapidly dive into the ground-level view was crucial and honed on these projects.

▶ Infrastructure Security Projects



BASE Project

- 7 Bridges & 2 Tunnels
- Spread Over 2,000 Square Miles
- 250+ Camera & Detection Sites
- High-Speed Wireless Backbone
- 100% Internet Protocol (IP)
- Triple Redundancy Built In System
- Cellular System Backup
- Setup For Mobile Access
- View Any Camera Anywhere
- Design & Build Contract

Bay Area Security Enhancement (BASE)



Port Of Oakland

Budget \$4.7M

Lowest Bid \$11M.

16 Of 20 Primes Declined To Bid

Port of Oakland – Maritime Security Enhancement



Value Engineered \$6M In Costs Out Of System

Improved Functionality.

Provided 100% Digital Architecture With Room To Grow.

