



US Army Corps of Engineers

Semper Tek's Team has successfully delivered several Design-Build projects for USACE & other Federal Clients over the last 5 years. The Design-Build project scopes ranged in complexity and value for single project between \$150K to \$8M.



DESIGN-BUILD PROGRAM

The Semper Tek Team works together from start to finish, in open communication with the Owner, to deliver otherwise unachievable results. The best logical solutions are conceived when all stakeholders are in collaboration, resulting in minimized cost, schedules streamlined and efficiencies realized with the quality results. *It's the best return on investment!*

Design-Build

Reduce 15% or more off the project time-line by incorporating the construction team early on in the design process. Less documentation is needed and the Construction Phase can begin much earlier.

Control Cost towards SOW & Cost Reduction can be achieved by the continuous analysis of cost options that parallels the Design Packages. Cost can be controlled early enough in order to meet the project budget.



PROJECT RISK FACTORS

TIME

COST

DBB

Longer Project Time-lines to accommodate 3 sequential phases: Design, Bid, Construction. Adds Risk to breakdown in communication.

Low-Cost Setbacks such as less experienced and low quality bidders can affect the project. Eliminates cost verification during Design Phase.

Quality Problems

Communication Breakdown

Design Changes

Construction Delays

Cost Overruns

Scope Creep

Owner Changes

Regulatory Changes

Weather Delays

Material Price Fluctuations

Labor Shortages

Permitting Delays

Unforeseen Site Conditions

Design Errors

Construction Errors

Owner Delays

Regulatory Changes

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Usace Design Guidelines

**Limin Zhang, Ming Peng, Dongsheng
Chang, Yao Xu**



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United States Army Corps of Engineers (USACE) design manual for United States. Army. Corps of Engineers. Huntsville Division, 1993 **Engineering Guidelines for the Evaluation of Hydropower Projects** ,1997 **Resident Engineer's Management Guide** ,1994 *Guide to Bridge Hydraulics* Transportation Association of Canada, 2004 Basic hydraulic considerations Channel types and behaviour relation to bridges Basic hydraulic requirements Hydraulic design procedures Hydrologic estimates Statistical frequency analysis Runoff modeling Empirical methods High water levels and stage discharge relations Extreme floods and risk Scour protection and channel control Scour protection around bridge foundations Erosion protection of banks and slopes Design of rock riprap Cannel control works Hydraulic aspects of construction inspection and maintenance Construction Inspection Maintenance Special problems Tidal crossings Inland basic crossings Waves and waves protection Physical modeling of bridge problems Alluvial fans Debris flow and torrents

Engineering Guidelines for the Evaluation of Hydropower Projects: Other dams ,1997 Engineering Guidelines for the Evaluation of Hydropower Projects United States. Office of Hydropower Licensing, 1991 *Riprap Design Criteria, Recommended Specifications, and Quality Control* Peter Frederick Lagasse, National Cooperative Highway Research Program, 2006 TRB s National Cooperative Highway Research Program NCHRP Report 568 Riprap Design Criteria Recommended Specifications and Quality Control examines design guidelines recommended material specifications and test methods recommended construction specifications and construction inspection and quality control guidelines for riprap for a range of applications including revetment on streams and riverbanks bridge piers and abutments and bridge scour countermeasures such as guide banks and spurs **Risk Management Series; Design Guide for Improving Hospital Safety in Earthquakes, Floods, and High Winds** , Risk Management Series; Design Guide for Improving Critical Facility Safety from Flooding and High Winds , Management of Installation Directorates of Public Works United States. Department of the Army, 1997 **Biscayne Bay Coastal Wetlands Final Integrated Project Implementation Report and Environmental Impact Statement** United States. Office of the Assistant Secretary of the Army (Civil Works), 2012

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Management Guide (REMG) for Hazardous, Toxic, and Radioactive Waste (HTRW) Projects, 1994 **Dam Failure**
Mechanisms and Risk Assessment Limin Zhang, Ming Peng, Dongsheng Chang, Yao Xu, 2017-03-15 This book integrates the
physical processes of dam breaching and the mathematical aspects of risk assessment in a concise manner The first book
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and the mathematical aspects of risk assessment in a concise manner Emphasizes integrating theory and practice to better
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Project Implementation Report, 2007

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