



Mark E. Watson, PE, CVS
Vice President

Qualifications

Mark Watson is a registered Professional Engineer and Certified Value Specialist (CVS). He has an in-depth knowledge of Value Methodology (VM) and the application of it to many types of construction and design related projects. Mark's experience includes value studies on a wide array of projects that cover the gamut of the design and construction industry. He has conducted value analysis, value engineering (VE), and value planning studies on roads, bridges, water and wastewater facilities, transit facilities, airport facilities, and drainage facilities, as well as buildings for education, health care, prisons, vehicle maintenance facilities, barracks, and U.S. embassy and consulate operations. The size of these projects and programs on which Mark has conducted value studies has ranged from a few hundred thousand dollars in capital costs to as high as \$6 billion. Mark has led VE studies on projects in all stages of design from the schematic/planning stage to 100% complete.

Mark has an in-depth knowledge of and experience facilitating a number of decision-making processes. Mark's particular expertise is in marrying the Value Methodology with these decision-making processes. The VM study is used to generate alternatives using function analysis and brainstorming techniques. Then, the decision making processes are used to determine which alternatives provide the greatest value enhancement to the project taking into account qualitative information such as aesthetic quality, user impacts and preferences, socio-political impacts, etc.

Education

- ◆ B.S. – Geological Engineering, 1999 – University of Missouri - Rolla

Registration

- ◆ Professional Engineer – No. 2005001059, Missouri
- ◆ Certified Value Specialist — No. 20020523, SAVE International

Employment Record

- ◆ Value Management Strategies, Inc., (2007-Present) Vice President
- ◆ Strategic Value Solutions, (2006-2007), Vice President/Senior Value Specialist
- ◆ URS Corporation (1998-2006), Value Engineering Program Manager

Professional Affiliations

- ◆ SAVE International
- ◆ Association of Engineering Geologists

Areas of Expertise

- ◆ Value Engineering Team Leader
- ◆ Choosing by Advantages Team Leader (CBA)
- ◆ Value Management/Value Planning/ Value Analysis Facilitation
- ◆ Function Analysis Concept Designs/Design Charrettes
- ◆ Constructability Reviews
- ◆ Total Quality Management
- ◆ Partnering
- ◆ Geotechnical Engineering

Representative Experience

Mark has served as a Value Engineering Team Leader on hundreds of value studies in the last ten years, for organizations such as:

- ◆ California Department of Transportation
- ◆ Kentucky Transportation Cabinet
- ◆ Utah Department of Transportation
- ◆ Kansas Department of Transportation
- ◆ Louisiana Department of Transportation
- ◆ Nebraska Department of Roads
- ◆ Transbay Joint Powers Authority
- ◆ Central Utah Water Conservancy District
- ◆ City of New York
- ◆ U.S. Army, Corps of Engineers – Louisville, New Orleans, Mobile, Fort Worth, New England, Baltimore, Omaha, Districts
- ◆ National Guard Bureau
- ◆ National Park Service
- ◆ U.S. Department of State
- ◆ U.S. General Services Administration
- ◆ Centers for Disease Control and Prevention
- ◆ Old Dominion University
- ◆ College of William and Mary
- ◆ Christopher Newport University
- ◆ George Mason University
- ◆ Virginia State University

Value Analysis/Value Engineering Project Studies

HIGHWAY AND TRANSIT PROJECTS

California Department of Transportation

- ◆ Clay Street Grade Separation with UPRR, Riverside County, CA
- ◆ I-80/I-680/State Route 12 Interchange, Fairfield, CA
- ◆ Milford Shoulder Widening and Rumble Strips, Lassen County, CA
- ◆ Rio Bonito Rehabilitation Project, Butte County, CA
- ◆ I-80 North Connector Project, Solano County, CA
- ◆ Route 89 Cayton Creek Rehabilitation Project, Shasta County, CA
- ◆ Route 20 O.C. Dorsey Drive Improvement Project, Nevada County, CA
- ◆ Hunter Hill Safety Roadside Rest Area Rehab, Solano County, CA
- ◆ Route 101 Rehab, Eureka to Arcata, CA
- ◆ Route 116 Safety Improvements Sonoma County, CA
- ◆ I-680 Pavement Rehab, San Ramon, Danville, Alamo & Walnut Creek, CA
- ◆ Thomes Creek Bridge Replacement, Tehama County, CA
- ◆ Doyle Drive Improvement Project, San Francisco, CA
- ◆ Cabrillo Bridge Seismic Upgrade and Rehabilitation, San Diego, CA
- ◆ State Route 62 Realignment, Yucca Valley, CA
- ◆ I-680 Roadway Rehabilitation, Alameda, CA
- ◆ 4 Lane Expressway, San Bernardino, CA
- ◆ Mohawk Street Extension, Bakersfield, CA
- ◆ West Side Parkway, Bakersfield, CA
- ◆ Mixed Flow Lane & Separation to Scott Rd, Riverside, CA
- ◆ Realign I-15/I-215 Connectors, Devore, CA
- ◆ I-5 Interchange, Los Angeles, CA
- ◆ Jackson Valley Rehabilitation, Amador County, CA
- ◆ I-805 South Corridor, San Diego County, CA
- ◆ East Merced Overhead, Merced County, CA
- ◆ SR 12 Improvements, San Joaquin County, CA
- ◆ Antioch and Dumbarton Bridges Seismic Upgrades, Contra Costa, Sacramento, Alameda, and San Mateo Counties, CA
- ◆ SR 12 Bouldin Island Rehabilitation, San Joaquin County, CA
- ◆ SR 178 and Morning Drive Interchange, Bakersfield, CA
- ◆ Rosedale Highway Widening, Bakersfield, CA
- ◆ Hageman Road Extension to Golden State Avenue, Bakersfield, CA
- ◆ I-5 HOV Lane Extension, San Juan Capistrano, CA
- ◆ Bridge Deck Replacement, Contra Costa County, CA

Kentucky Transportation Cabinet

- ◆ I-65 Lane Widening between Tennessee state Line and Natcher Parkway, Warren and Simpson Counties, KY
- ◆ I-66 and US 27 Interchange, Somerset, KY
- ◆ Gene Snyder Freeway (I-265) Interchanges, Jefferson County, KY
- ◆ Reconstruction of US-68/KY-80 between Aurora and Cadiz, KY
- ◆ Franklin County I-64 Relocation/Widening Between US-127 and US-60 at Frankfort, KY

Kansas Department of Transportation

- ◆ Reconstruction and Repair of I-70 at Salina, KS
- ◆ I-635 Major Modification at Kansas City, KS
- ◆ Reconstruction of I-35, Franklin County, KS

Various Clients & Projects

- ◆ Moynihan Station Development Project, New York City, NY
- ◆ Unweave the Weave – I-35E and I-694 Interchange Reconstruction, Minneapolis, MN, Minnesota Department of Transportation
- ◆ 3500 South Corridor Project, Salt Lake City, UT, Utah Department of Transportation
- ◆ Claiborne Avenue Bridge Replacement, New Orleans, LA, Louisiana Department of Transportation
- ◆ I-80 Rehab from Roscoe to Paxton, NE, Nebraska Department of Roads
- ◆ New Transbay Terminal Building, San Francisco, CA
- ◆ New Administration, Operation, and Maintenance Facility, Pinellas Suncoast Transit Authority, Pinellas County, FL
- ◆ US 36 Corridor and BSNF Lightrail Project, Denver, CO

CIVIL WORKS PROJECTS

U.S. Army Corps of Engineers

- ◆ Addicks and Barker Dams Granular Filters, Houston, TX
- ◆ Grand Isle Shoreline Protection Grand Isle, LA
- ◆ Seepage Control Modifications to Waterbury Dam, Waterbury, NY
- ◆ Walter F. George Dam Structural Failure Prevention
- ◆ Utility Relocations for Inner Harbor Navigation Canal, New Orleans, LA
- ◆ West Shore Lake Pontchartrain Hurricane Protection, New Orleans, LA
- ◆ Beach Erosion Prevention, East Rockaway Inlet to Rockaway Inlet and Jamaica Bay, NY

WATER/WASTEWATER PROJECTS

U.S. Army Corps of Engineers

- ◆ Canal Improvements for Woodmere and Sunnymede, Pipeline, and Swift and Canal “A” Projects, New Orleans, LA
- ◆ Comite River Diversion Project, New Orleans, LA
- ◆ Empire Lock and Flood Gates, New Orleans, LA

Central Utah Water Conservancy District

- ◆ District Water Development (DWD) Project in Northern Utah County/South Salt Lake County
- ◆ Spanish Forks Pipeline, Spanish Forks, UT

Various Clients & Projects

- ◆ Wastewater Treatment Plant Capital Improvements, Lake Charles, LA
- ◆ Sanitary Sewer Overflow Corrective Action Plan, Baton Rouge, LA

PUBLIC/GOVERNMENT FACILITIES

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| U.S. Dept. of State | <ul style="list-style-type: none">◆ U.S. Embassy Compound and Facilities, Bamako, Republic of Mali◆ New Office Building Chancery (OBC), U.S. Embassy Berlin, Germany◆ U.S. Consulate General Annex, Arnona, Jerusalem◆ U.S. Embassy Compound and Facilities, Yaounde, Cameroon◆ U.S. Embassy Compound and Facilities, Dushanbe, Tajikistan◆ U.S. Embassy Compound and Facilities, Bridgetown, Barbados◆ Staff Dependent Accommodations, Chengdu, China◆ New Consular Office Building, Seoul, Korea◆ Consular Office Building Rehab, Lagos, Nigeria◆ U.S. Embassy Compound and Facilities, Santo Domingo, Dominican Republic◆ Managua Chief of Mission Residence◆ Tbilisi Georgia |
| Government Services Agency | <ul style="list-style-type: none">◆ New United States Courthouse, Phoenix, AZ◆ William S. Moorhead Federal Building, Pittsburg, PA |
| National Park Service | <ul style="list-style-type: none">◆ Painted Desert Inn Building Improvements and Structural Stabilization, Petrified Forest National Park◆ Yosemite Lodge Redevelopment Project, Yosemite National Park◆ Curry Village Employee Housing and Cabins With Baths, Yosemite National Park◆ Stair & Elevator Locations for Bathhouses, Hot Springs National Park◆ North Rim Visitor Services, Grand Canyon National Park◆ Valley Shuttle Bus Replacement, Yosemite National Park◆ Santa Rosa Island Pier Replacement, Channel Islands National Park◆ Jim Camp Wash Bridge Replacement, Petrified Forest National Park |
| U.S. Army Corps of Engineers, Alaska District | <ul style="list-style-type: none">◆ Add/Alter Air Support Operations Squadron Training Facility, Elmendorf AFB, AK◆ Warrior in Transition Complex, Ft. Wainwright, AK◆ Rapid Deployment Facility, Ft. Richardson, AK |
| U.S. Army Corps of Engineers, Kansas City District | <ul style="list-style-type: none">◆ SOF Fort Campbell, Kentucky Battalion Operations Complex, Phase IV◆ Terrebonne Basin Barrier Shoreline Restoration, New Orleans, LA◆ Multipurpose Operation of Houma Navigation Lock, New Orleans, LA◆ Convey Atchafalaya River Water to Northern Terrebonne Marshes, New Orleans, LA◆ Whites Ditch Diversion, New Orleans, LA◆ Point au Fer Shoreline Protection, New Orleans, LA◆ Caillou Land Bridge, New Orleans, LA◆ Modification to Caernarvon and Davis Pond Freshwater Diversions, New Orleans, LA |
| U.S. Army Corps of Engineers, New Orleans District | <ul style="list-style-type: none">◆ Calcasieu River Navigation Improvements◆ Hurricane Storm Damage Risk Reduction System Improvements to Mississippi River Levees |

Various Clients & Projects

- ◆ Bachelor Enlisted Quarters, Marine Corps Base, Finegayan, Guam
- ◆ Alter Warehouse Space Building 479, Joint Base Pearl Harbor-Hickam, Hawaii
- ◆ Building 23 Lab Consolidation Project, Roybal Campus, Atlanta, GA, Center for Disease Control
- ◆ Fire Station at Marine Corps Base, Finegayan, Guam Design Transition Workshop
- ◆ Port of Tacoma Blair Hylebos Peninsula Terminal Redevelopment Project - Utilities, Tacoma, WA, Washington Department of Transportation
- ◆ SOF NSWG-3 Command and Operations Facility, Naval Station Pearl Harbor and Pearl City Peninsula, Hawaii
- ◆ Renovations to the Bossier Parish Courthouse, Shreveport, LA
- ◆ Replacement 30 Units at North Tiplao Phase 3, Naval Base, Guam
- ◆ Guam Utilities and Site Improvements – Phase 1 for NCTS Finegayan BEQ Area, U.S. Navy Base Guam
- ◆ Fire Station at Finegayan, U.S. Navy Base Guam

EDUCATIONAL FACILITIES

College of William and Mary

- ◆ New Dormitory on Barksdale Field

Christopher Newport University

- ◆ Captain John Smith Library and Information Technology Center

George Mason University

- ◆ Research 1 Building, Fairfax, VA

Virginia State University

- ◆ New Engineering and Technology Building

Old Dominion University

- ◆ New Recreation Center and Exercise Science, Sport, Physical Education and Recreation (ESPERS) Facility
- ◆ Additions and Renovations to the Batten Arts and Letters Building

University of Mary Washington

- ◆ Lee Hall Renovations and Addition, Fredericksburg, VA

Various Clients & Projects

- ◆ King George High School, King George County, VA
- ◆ Prototypical Elementary School, Stafford County, VA

MILITARY FACILITIES

- U.S. Army**
 - ◆ Human Resources Complex, Phase I, Fort Knox, KY
 - ◆ IBCI Brigade Headquarters Annex, Fort Knox, KY
 - ◆ Ground Systems Power and Energy Lab, Detroit Arsenal, MI
 - ◆ Relocate Metal Parts Mission, Rock Island Arsenal, IL
 - ◆ Tactical Unmanned Aerial Vehicles Facility, Fort Campbell, KY
 - ◆ Army Aviation Support Facility, Buckley Air Force Base, CO
 - ◆ Maneuver Area Training Equipment Site, Fort Pickett, VA
 - ◆ 1107th Aviation Classification and Repair Facility, Springfield, MO
 - ◆ Military Leadership Academy, Camp Rowland, CT
 - ◆ Combined Support Maintenance Shop, Fort Lewis Logistics Site, Tacoma, WA
 - ◆ Design and Construction of Von Braun Office Building Complex, Phase I, Redstone Arsenal, AL
 - ◆ Dining Facility at Redstone Arsenal, AL
 - ◆ Barracks Mid-Program Review Value Training Facility Upgrade, Ft Richardson, AK
 - ◆ Management Study
 - ◆ Railhead Ops Facility Phase, Ft Wainwright, AK
 - ◆ Aviation Task Force Complex, Ft Wainwright, AK
 - ◆ 3rd Air Support Ops Facility, Ft Wainwright, AK
 - ◆ Child Development Center, Ft Richardson, AK
 - ◆ Building 68 Renovation, Rock Island Arsenal, IL
 - ◆ Warrior in Transition Complex, Ft. Wainwright, AK
- U.S. Air Force**
 - ◆ ANG/AFR Squadron Operations Facility, Tinker Air Force Base
- U.S. Navy**
 - ◆ FY11 MCON P-462 SOF NSWG-3 Command and Operations Facility, Naval Station Pearl Harbor and Pearl City Peninsula