

REQUEST FOR ENGINEERING PROPOSAL
BRIDGE REPLACEMENT PROJECT
PLACERVILLE DRIVE BRIDGE AT HANGTOWN CREEK

INTRODUCTION

The City of Placerville is inviting qualified firms to submit proposals to take this project thru the bidding process, including completion of a Preliminary Engineering Feasibility Report phase and perform Project Approval and Environmental Document (PA&ED) services (Task 1), preparation of the complete PS&E (Task 2), and Bidding and Construction Support (Task 3), all leading to the replacement of the Placerville Drive Bridge (State Bridge 25C0029), crossing Hangtown Creek. The Project is located about 0.7 miles west of where Placerville Drive crosses under Hwy. 50, and about 0.3 miles west of the Cold Springs Rd/Home Depot intersection with Placerville Drive, in the City of Placerville. The existing bridge was rated as "Functionally Obsolete" in the Caltrans Bridge Inspection Report dated August 10, 2012. A copy of the report is attached.

The City is looking for a highly qualified firm with complete knowledge of Caltrans Structure Design procedures, the Caltrans Local Assistance Manual and procedures, and the Federal Highway Administration (FHWA) Local Assistance Highway Bridge Program (HBP). The firm must also have substantial experience in California Environmental Quality Act (CEQA) / National Environmental Policy Act (NEPA) environmental review, documentation and permitting procedures. Experience in dealing with replacement of obsolete bridges, public outreach, preparation of environmental documents and bridges structures design is required.

The existing bridge is a narrow two-lane single span Concrete T Beam structure approximately 41 feet long by 28 feet wide. The new bridge is expected to be a simple span box girder or cast-in-place reinforced concrete prestressed slab approximately 85 feet in width, to include 4 lanes, median, shoulder/bike lanes, curbs, gutters, and sidewalks, a modern structure meeting current design standards. This width has been determined by the Placerville Drive Multi-Modal Study completed in 2009, which study is included as an attachment. The Hangtown Creek Comprehensive Watershed Plan, which included completion of a new hydraulic model for Hangtown Creek thru the City of Placerville, was completed in March 2012, and is also included as an attachment. In May 2013 the City received Highway Bridge Program (HBP) funds for a bridge replacement project to begin Preliminary Engineering, and copies of the application/scope definition form (Exhibit 6-A), the special cost approval checklist (Exhibit 6-B), the field review form (Exhibit 7-B), and the request for authorization to proceed with Preliminary Engineering (Exhibit 3-A) are attached.

Quincy Engineering was previously under contract with the City to develop PS&E for a bridge widening project at this location. Preliminary Engineering was originally authorized in 1997. Various challenges arose during the course of that work, including discovery of hazardous waste and cleanup (1999), State budget issues (2001-2003), Red-legged Frog habitat requiring additional studies and consultation with USFWS (2002-2004), accelerated

Civil Engineering Research Proposal Sample

Michael Brown



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Practice of Research Methodology in Civil Engineering and Architecture Amjad Almusaed, Asaad Almssad, Ibrahim Yitmen, 2025-11-20 This book offers a comprehensive exploration of research methodology providing invaluable insights for students and researchers in the AEC industry and engineering fields Through this book readers learn the theoretical and practical aspects of research design and academic writing making it an indispensable resource for anyone engaged in scholarly investigation This book covers a wide range of topics essential to robust research practices Readers explore identifying research gaps formulating problem statements crafting precise research questions objectives and aims This book delves into the philosophical foundations of different research paradigms ontological and epistemological factors that impact methodological decisions It also provides an in depth examination of qualitative methods such as ethnography grounded theory narrative analysis quantitative methods including experimental design survey techniques as well as mixed methods approaches that combine both to yield comprehensive results In addition to theoretical content this book offers practical tools like templates for research proposals and checklists for data collection These resources are designed to aid researchers in efficiently applying their knowledge in real world settings The authors emphasize clarity coherence and scholarly rigor in academic writing while providing practical techniques to overcome common obstacles faced by researchers This book is essential for researchers scholars students at all levels who seek to enhance their understanding of research methodology It provides clear guidance on structuring and organizing research articles performing literature reviews presenting findings with scholarly rigor Whether you are a novice researcher or an experienced academician looking to refine your skills or gain new perspectives on methodological practices this book is tailored to meet your needs Researchers in fields such as architecture engineering construction AEC environmental design find this work particularly beneficial Its comprehensive scope guarantees its authenticity usefulness rendering it indispensable literary essential study academic writing methodological investigation

Fundamentals of Civil Engineering Richard H. McCuen, 2011-02-22 While the ASCE Body of Knowledge BOK2 is the codified source for all technical and non technical information necessary for those seeking to attain licensure in civil engineering recent graduates have notoriously been lacking in the non technical aspects even as they excel in the technical Fundamentals of Civil Engineering An Introduction to the Proceedings of the American Society of Civil Engineers American Society of Civil Engineers, 1920 Vols for Jan 1896 Sept 1930 contain a separately page section of Papers and discussions which are published later in revised form in the society's Transactions Beginning Oct 1930 the Proceedings are limited to technical papers and discussions while Civil engineering contains items relating to society activities etc *Challenges to Civil Engineering Educators and Practitioners*, 1985 **Thermal Pollution - 1968, Hearings Before the Subcommittee on Air and Water Pollution ...** United States. Congress. Senate. Committee on Public Works, 1968 The Michigan Architect and Engineer, 1930 Civil Engineering, 1988 **Thermal Pollution,**

1968 United States. Congress. Senate. Committee on Public Works. Subcommittee on Air and Water Pollution, 1968 Reviews problem of heat discharges into waterways especially as related to steam electrical generating plants and their effects upon river ecological systems Feb 13 hearing was held in Portland Maine and Feb 14 hearing was held in Montpelier Vt pt 1 Continuation of hearings on water pollution problems caused by electric power plants Apr 19 hearing was held in Miami Fla pt 2 Appendix includes Heated Effluents and Effects on Aquatic Life with Emphasis on Fishes a bibliography by Edward C Raney and Bruce W Menzel Cornell Univ for Philadelphia Electric Co and Ichthyological Associates July 7 1967 p 1285 1374 and Water Temperatures and Aquatic Life a report by Charles B Wurtz and Charles E Renn for the Edison Electric Institute June 1 1965 p 1139 1243 pt 4 *Hearings, Reports and Prints of the Senate Committee on Public Works* United States. Congress. Senate. Committee on Public Works, 1968 Thermal Pollution--1968: Washington, D.C. February 6, 1968; Portland, Maine, February 13, 1968; Montpelier, Vermont, February 14, 1968 United States. Congress. Senate. Committee on Public Works. Subcommittee on Air and Water Pollution, 1968 Reviews problem of heat discharges into waterways especially as related to steam electrical generating plants and their effects upon river ecological systems Feb 13 hearing was held in Portland Maine and Feb 14 hearing was held in Montpelier Vt pt 1 Continuation of hearings on water pollution problems caused by electric power plants Apr 19 hearing was held in Miami Fla pt 2 Appendix includes Heated Effluents and Effects on Aquatic Life with Emphasis on Fishes a bibliography by Edward C Raney and Bruce W Menzel Cornell Univ for Philadelphia Electric Co and Ichthyological Associates July 7 1967 p 1285 1374 and Water Temperatures and Aquatic Life a report by Charles B Wurtz and Charles E Renn for the Edison Electric Institute June 1 1965 p 1139 1243 pt 4

Opportunities in Asia Civil Engineering Research Foundation, 1997-01-01 Prepared by Civil Engineering Research Foundation This book presents findings of a 1996 technology assessment mission to East Asia that examined the levels of technology use and current research and development trends in the design and construction industries of China Hong Kong Korea Malaysia Singapore and Taiwan Other areas of focus include the role of government and industry supported research and development in expediting design and construction innovation key collaborative opportunities for U S industry the development and application of cleaner design and construction technologies construction related import and export potential and processes used to introduce new technologies into practice The report makes recommendations for U S industry concerning technology needs and collaborative potential among the targeted East Asian design and construction industries Engineering, 1926 *Civil Engineering Research in Canadian Universities* University of Waterloo. Department of Civil Engineering, 1965 *Civil Engineering and Public Works Review*, 1967 *Civil Engineering Education Issues 2001* Donn E. Hancher, 2001 This collection contains 13 papers presented at the Third National Congress on Civil Engineering Education at the 2001 ASCE Annual Conference held in Houston Texas October 10 13 2001 *Canadian Journal of Civil Engineering*, 1994 **Proceedings**, 1920 Engineering Record, Building Record and Sanitary Engineer

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Table of Contents Civil Engineering Research Proposal Sample

1. Understanding the eBook Civil Engineering Research Proposal Sample
 - The Rise of Digital Reading Civil Engineering Research Proposal Sample
 - Advantages of eBooks Over Traditional Books
2. Identifying Civil Engineering Research Proposal Sample
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Civil Engineering Research Proposal Sample
 - User-Friendly Interface
4. Exploring eBook Recommendations from Civil Engineering Research Proposal Sample
 - Personalized Recommendations
 - Civil Engineering Research Proposal Sample User Reviews and Ratings
 - Civil Engineering Research Proposal Sample and Bestseller Lists
5. Accessing Civil Engineering Research Proposal Sample Free and Paid eBooks

- Civil Engineering Research Proposal Sample Public Domain eBooks
 - Civil Engineering Research Proposal Sample eBook Subscription Services
 - Civil Engineering Research Proposal Sample Budget-Friendly Options
6. Navigating Civil Engineering Research Proposal Sample eBook Formats
 - ePub, PDF, MOBI, and More
 - Civil Engineering Research Proposal Sample Compatibility with Devices
 - Civil Engineering Research Proposal Sample Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Civil Engineering Research Proposal Sample
 - Highlighting and Note-Taking Civil Engineering Research Proposal Sample
 - Interactive Elements Civil Engineering Research Proposal Sample
 8. Staying Engaged with Civil Engineering Research Proposal Sample
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Civil Engineering Research Proposal Sample
 9. Balancing eBooks and Physical Books Civil Engineering Research Proposal Sample
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Civil Engineering Research Proposal Sample
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Civil Engineering Research Proposal Sample
 - Setting Reading Goals Civil Engineering Research Proposal Sample
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Civil Engineering Research Proposal Sample
 - Fact-Checking eBook Content of Civil Engineering Research Proposal Sample
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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