



■ Change Letter – Revision No. 37 August 31, 2012

Attached are revisions to the Falsework Manual. These changes can also be found on the SC Intranet site under “Technical Manuals”:
http://onramp.dot.ca.gov/hq/oscnetsc_manuals/

Revisions

SECTION	REMOVE	DATED	SECTION	INSERT	DATED
	MANUAL COVER Revision 36	02/2012		MANUAL COVER Revision 37	08/2012
	TABLE OF CONTENTS	02/2012		TABLE OF CONTENTS	08/2012
CHAPTER 8	TRAFFIC OPENINGS	01/1988	CHAPTER 8	TRAFFIC OPENINGS	08/2012

Background

To follow is an explanation for each manual revision or addition.

- Revisions to the Chapter 8 *Traffic Openings* include:
 - Figure 8-0 is added to illustrate when a falsework post is considered to be adjacent to roadways or railroads.
 - Figure 8-1 is revised to clarify the requirement for clearance behind the K-Rail when K-Rail is pinned or not pinned.
 - Format and spelling corrections.
 - Changes to reflect revisions in the 2010 Standard Specifications, as follows:
 - It is acceptable to substitute coil rod for falsework adjacent to traffic.
 - Approval received from Union Pacific Railroad (UPRR) for substituting coil rod for bolts for falsework adjacent to the railroad.
 - Collision posts are no longer used for the falsework adjacent to the railroad; therefore, it is deleted.
 - Information is added regarding the *Right-of-Entry Agreement* and *Service Contract* to avoid delay if these are not fully executed.
 - Vertical clearance at traffic opening commentary is added.

ROBERT A. STOTT, Deputy Division Chief
Division of Engineering Services,
Structure Construction

California Falsework Manual

Arturo Cuomo



California Falsework Manual:

Falsework Manual California. Department of Transportation. Office of Structure Construction,1988 Falsework Manual ,1977 Guide Design Specification for Bridge Temporary Works , **Bridge Falsework, Concrete Formwork, and Practical Earth Shoring** William E. Hubbard,2021-08-13 Bridge Falsework Concrete Formwork and Practical Earth Shoring By William E Hubbard Bridge Falsework Concrete Formwork and Practical Earth Shoring describes how to build bridges The book is interesting to engineers trying to learn how to build bridges and the relevant message is that the information within will present economical methods of performing the work necessary to build a bridge The author does not believe there is another text that covers this topic and it answers the questions that arise when designing bridge falsework and associated work The author hopes the reader will be able to design economical falsework and earth shoring after reading this book **Bridge Engineering Handbook** Wai-Fah Chen,Lian Duan,2023-01-06 First Published in 1999 The Bridge Engineering Handbook is a unique comprehensive and state of the art reference work and resource book covering the major areas of bridge engineering with the theme bridge to the 21st century This third volume includes sections covering construction and maintenance special topics and worldwide practice *Guide Design Specification for Bridge Temporary Works* American Association of State Highway and Transportation Officials,1995 **Manual of Instructions** California. Highway Commission. Bridge Department,1925 Biofuels Handbook James G Speight,2011-07-05 Petroleum based fuels are well established products that have served industry and consumers for more than one hundred years However petroleum once considered inexhaustible is now being depleted at a rapid rate As the amount of available petroleum decreases the need for alternative technologies to produce liquid fuels that could potentially help prolong the liquid fuels culture and mitigate the forthcoming effects of the shortage of transportation fuels is being sought The dynamics are now coming into place for the establishment of a synthetic fuels industry the processes for recovery of raw materials and processing options have to change to increase the efficiency of oil production and it is up to various levels of government not only to promote the establishment of such an industry but to recognise the need for available and variable technology This timely handbook is written to assist the reader in understanding the options that available for the production of synthetic fuel from biological sources Each chapter contains tables of the chemical and physical properties of the fuels and fuel sources It is essential that the properties of such materials be presented in order to assist the researcher to understand the nature of the feedstocks as well as the nature of the products If a product cannot be employed for its hope for use it is not a desirable product and must be changed accordingly Such plans can only be made when the properties of the original product are understood The fuels considered include conventional and unconventional fuel sources the production and properties of fuels from biomass crops wood domestic and industrial waste and landfill gas **Public Roads** ,1983 Design Solutions and Innovations in Temporary Structures Beale, Robert,André, João,2017-02-07 Temporary structures are a vital but often overlooked

component in the success of any construction project With the assistance of modern technology design and operation procedures in this area have undergone significant enhancements in recent years Design Solutions and Innovations in Temporary Structures is a comprehensive source of academic research on the latest methods practices and analyses for effective and safe temporary structures Including perspectives on numerous relevant topics such as safety considerations quality management and structural analysis this book is ideally designed for engineers professionals academics researchers and practitioners actively involved in the construction industry

Bridge Engineering W.F. Chen,Lian Duan,2003-02-27 The Principles and Application in Engineering Series is a series of convenient economical references sharply focused on particular engineering topics and subspecialties Each volume in this series comprises chapters carefully selected from CRC s bestselling handbooks logically organized for optimum convenience and thoughtfully priced to fit ever

Investigation of Construction Failure of the Riley Road Interchange Ramp, East Chicago, Indiana United States. National Bureau of Standards. Center for Building Technology,1982

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Formwork for Concrete Mary Krumboltz Hurd,2005 Formwork for Concrete has been written to serve a broad range of needs for information on formwork For the experience designer or builder of formwork it is a ready reference on material properties design data and construction suggestions For the engineer architect it adds guidance in relating details of the sturcture s design to the problems and

possibilities of executing them in concrete For the novice the book provides an introduction to many common formwork practices explaining basic design principles and encouraging a rational rather than rule of thumb approach to formwork book jacket

Fourth International Bridge Engineering Conference National Research Council (U.S.). Transportation Research Board,1995 Conference sessions cover bridge management systems bridge aesthetics bridge performance bridge construction long span bridges bridge loads and dynamics FRP composites and other materials bridge rehabilitation seismic response of bridges bridge bearings joints and details prestressed concrete bridges bridge structural systems bridge substructures scour and ship impact bridge fatigue and redundancy and wood bridges Intro p xi Report of the Industrial Accident Commission of the State of California California. Industrial Accident Commission,1918

Forensic Structural Engineering Handbook Robert Ratay,2009-11-05 The Most Complete and Up to Date Resource on Forensic Structural Engineering Thoroughly revised and featuring contributions from leading experts this definitive handbook offers comprehensive treatment of forensic structural engineering and expert witness delivery From exploring the possible origins of errors through investigating and analyzing failures to working with the legal profession for assigning responsibilities Forensic Structural Engineering Handbook Second Edition covers every important topic in the field The design and construction process Design and construction safety codes standards and regulations Standard of care and duty to perform First steps and legal concerns after a failure Engineering investigation of failures Origins and causes of failures Loads and hazards Design errors construction defects and project miscommunication Defects deterioration and durability Mechanisms and analyses of failures in steel concrete masonry timber and temporary structures building envelope and structural foundations Litigation and dispute resolution The expert consultant and witness

Trenching and Shoring Manual ,1977
Construction Handbook for Bridge Temporary Works John F. Duntemann,1993 **Temporary Structures in Construction, Third Edition** Robert Ratay,2012-05-06 The most complete and current guide to temporary structures in design and construction With significant revisions updates and new chapters Temporary Structures in Construction Third Edition presents authoritative information on professional practice codes standards design erection maintenance and failures of temporary support and access structures used in construction New developments and advancing technologies are discussed throughout the book and new chapters on construction and environmental loads cranes and lessons learned from temporary structure failures have been added Improve the quality safety speed and financial success of construction projects with help from this practical resource Inside 26 expert contributors cover Professional and business practices Standards codes and regulations Construction and environmental loads Construction site safety Legal aspects Cofferdams Earth retaining structures Diaphragm slurry walls Construction dewatering Underground tunneling supports Underpinning Roadway decking Construction ramps runways and platforms Scaffolding Shoring falsework Concrete formwork Bracing and guying for stability Bridge falsework Temporary structures in repair and restoration Cranes Protection of site adjacent areas

and utilities Failure of temporary structures in construction

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