

Inspection and Maintenance of Ancillary Highway Structures

DESCRIPTION:

This course provides training in the inspection and maintenance of ancillary structures, such as structural supports for highway signs, luminaries, and traffic signals. Its goal is to provide agencies with information to aid in establishing and conducting an inspection program in accordance with the FHWA "Guidelines for the Installation, Inspection, Maintenance, and Repair of Structural Supports for Highway Signs, Luminaries, and Traffic Signals."

OUTCOMES:

Upon completion of the course, participants will be able to:

- List and identify common visible weld defects
- Identify appropriate nondestructive testing techniques
- Identify factors that lead to corrosion and explain mitigation methods used in ancillary structures
- Define the severity of observed defects in accordance with the FHWA guidelines
- Identify defects in base/anchor rod installations
- List key issues in construction inspection of ancillary structures
- Identify repair techniques and discuss their use

TARGET AUDIENCE:

Structural engineers, material engineers, traffic engineers, field inspectors, construction supervisors, maintenance personnel, and other technical personnel involved in the installation, inspection, maintenance, and repair of ancillary highway structures. This course is not a design course; however, the information should be helpful to those working in design and specification of ancillary structures.

INSTRUCTORS:

Michael J. Garlich, S.E., P.E. is the Vice President of Collins Engineers, Inc., working in their Chicago, Illinois office. He received his BSCE and MSCE in structural engineering from Purdue University and has over 37 years of experience in design and inspection of transportation and heavy civil structures. He is a Licensed Structural Engineer in Illinois, and a Registered Professional Engineer in several states, as well as a Fellow of ASCE.

Mr. Garlich has extensive experience in the inspection of ancillary highway structures, including development of statewide inspection programs. He was the primary author of the FHWA manual "Guidelines for the Installation, Inspection, Maintenance and Repair of Structural Supports for Highway Signs, Luminaires, and Traffic Signals," and is lead instructor for the NHI course, "Inspection and Maintenance of Ancillary Highway Structures."

Eric Thorkildsen, P.E. is a Regional Manager for Collins Engineers, Inc. and oversees Collins' Albany, New York office. He received his BS structural/geotechnical engineering from Rutgers University and has more than 22 years of experience in both the public and private sectors specializing in structural engineering. While working at Caltrans he supervised a design squad of twenty professional engineers and technicians responsible for multimillion-dollar design and rehabilitation projects involving bridges, retaining structures and miscellaneous support structures.

Mr. Thorkildsen has extensive experience in the inspection of ancillary highway structures. He co-authored the FHWA manual "Guidelines for the Installation, Inspection, Maintenance and Repair of Structural Supports for Highway Signs, Luminaires, and Traffic Signals," and is an instructor for the NHI course, "Inspection and Maintenance of Ancillary Highway Structures."

Registration Procedure

- 1) Please contact Gail Ikeda at 808-956-8367 or gail@eng.hawaii.edu by **Tuesday, September 25, 2007**.
- 2) Attendance is limited to 30 participants, and preference is given to local government employees.
- 3) Private company participation is on a space available basis at a fee of \$375 per person. Registration fee may be combined with parking pass payment (\$383).

Cancellations

Please contact us if you must cancel your registration or if someone will be substituting for you. Refunds will be made if notice of cancellation is received at least 3 business days prior to the workshop date.

Parking

Parking for the East West Center is \$8 (\$4/day). If you would like a parking pass please contact us by September 25, 2007. Make checks payable to the Research Corporation of the University of Hawaii (RCUH) and mail to:

Hawaii LTAP
University of Hawaii at Manoa
Dept. of Civil & Environmental Engineering
2540 Dole Street, Holmes Hall 383
Honolulu, HI 96822

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October 9 – 10, 2007

East West Center, Jefferson Hall,
Asia Room
1777 East West Road
8:30 a.m. – 4:30 p.m.

Workshop sponsored by the
**Hawaii Local Technical Assistance
Program**

in cooperation with the
*Hawaii State Department of Transportation
University of Hawaii's Department of Civil &
Environmental Engineering
and the Federal Highway Administration*

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