



SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT
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2010

March 19, 2010

James Fang
PRESIDENT

Bob Franklin
VICE PRESIDENT

Dorothy W. Dugger
GENERAL MANAGER

SUBJECT: Professional Reference for Simpson Gumpertz & Heger

To Who it may Concern:

DIRECTORS

Gail Murray
1ST DISTRICT

Joel Keller
2ND DISTRICT

Bob Franklin
3RD DISTRICT

Carole Ward Allen
4TH DISTRICT

John McPartland
5TH DISTRICT

Thomas M. Blalock, P.E.
6TH DISTRICT

Lynette Sweet
7TH DISTRICT

James Fang
8TH DISTRICT

Tom Radulovich
9TH DISTRICT

It is with great pleasure that I'm able to acknowledge the technical contributions of Simpson Gumpertz & Heger (SGH), to the successful delivery of the BART Earthquake Safety Program (ESP). With timely and accurate assistance from SGH, BART continues to make progress on this ambitious undertaking to retrofit its original infrastructure and improve the seismic resiliency of the entire BART system.

In particular, Dr. Wassim Naguib has been key to the successful implementation of Fiber Reinforced Polymer (FRP) technology for the first time on the BART system. The use of FRP provided a cost-effective solution to address the need to improve the ductility of the existing reinforced concrete columns. This innovative approach contributed significantly to the overall success of the \$1.2B retrofit program. BART ESP is currently on schedule to complete construction in 2014 and has had the good fortune to receive construction bids well below the original baseline budget estimates.

Any retrofit program is a race against time. Sound and timely technical input is key to winning that race. For that reason I strongly endorse enlisting the professional assistance of SGH and Dr. Naguib both now and on future projects.

Sincerely,

Tracy Johnson, P.E.
Engineering Manager
Earthquake Safety Program