



IN REPLY REFER TO:

HRT4/12-464165R

HONOLULU AUTHORITY for RAPID TRANSPORTATION

Daniel A. Grabauskas
EXECUTIVE DIRECTOR AND CEO

BOARD OF DIRECTORS

Carrie K.S. Okinaga, Esq.
CHAIR

Ivan M. Lui-Kwan, Esq.
VICE CHAIR

Robert Bunda
William "Buzz" Hong

Donald G. Horner

Keslie W. K. Hui

Damien T. K. Kim

Glenn M. Okimoto, Ph.D.

David K. Tanoue

Wayne Y. Yoshioka

May 3, 2012

The Honorable Ernest Y. Martin, Chair
and Members
Honolulu City Council
530 South King Street, Room 202
Honolulu, Hawaii 96813

Dear Chair Martin and Councilmembers:

In response to Councilmember Anderson's question raised during the Council meeting on April 25, 2012, on how the Honolulu Authority for Rapid Transportation (HART) came up with the \$5M amount for demolition of rail constructed work between the periods March 2012 through January 2013, we provide the following:

Response: The cost of construction activity during this period is estimated to be \$114 million. The components of this construction work includes the following:

- Site Preparation
- Foundation
- Columns
- Structure
- Roadway Improvements (including drainage, and site restoration)
- Maintenance of Hawaii Department of Transportation Right of Way

Not all of the work will require demolition. We believe only the above ground elements of the constructed work will require demolition and removal. The estimated cost of the above ground constructed elements totals \$20 million. The above ground constructed work that we believe will require demolition and removal includes columns and the top five (5) feet of foundations, and restoration of the site.

A typical column contains approximately fifty (50) cubic yards of concrete and approximately fourteen thousand five hundred (14,500) pounds of reinforcing steel. The section of foundation top that will require removal consists of approximately ten (10) cubic yards of concrete and approximately two thousand three hundred (2,300) pounds of reinforcing steel. We believe the contractor will be able to salvage some of the concrete that will be crushed and reused for road material (in road construction). We also believe the contractor will be able to salvage the reinforcing steel. The contractor will also include any cost expected to comply with environmental requirements, obtain any permits and restoration of the area from which columns/foundations were removed.

On average we believe the cost of demolishing and removal of a typical column, including contractor mobilization, mark-up and overall contingency of fifteen (15) percent will be \$34.5 thousand per column.

The Honorable Ernest Y. Martin, Chair
and Members
Page 2
May 3, 2012

We estimate one hundred forty (140) columns will be erected with supporting foundations along the West Oahu/Farrington Highway and Kamehameha Highway sections of the rail line between March 2012 and January 2013. If required to demolish and remove the columns, we estimate the cost will be \$4.8 million – rounded to \$5 million.

If you should have any questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Grabauskas', with a long horizontal flourish extending to the right.

Daniel A. Grabauskas
Executive Director and CEO

cc: All Councilmembers
Douglas S. Chin, Managing Director
Michael R. Hansen, Director of Budget and Fiscal Services
HART Board of Directors