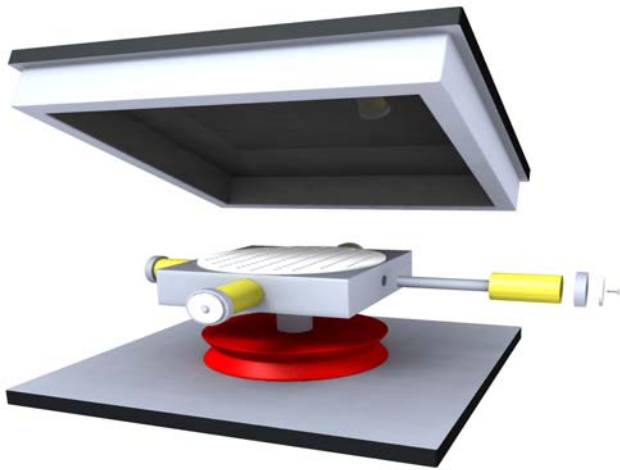


# *ERADIQUAKE Isolation Bearings*

## Design Questionnaire



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**Project**

Name/Contract No.:

Owner:

Consultant:

Contact Information:

Name:

Telephone:

Fax:

Contract Drawing Reference:

Prepared by:

Eradiquake Bearing Quantity:

Estimated Project Bid Date:

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**Structure**

Superstructure Information:

Type (Steel or Concrete):

Strength (Yield or Compressive ( $f^c$ )):

No. of Girders & Span Length(s):

Slope at Bearing Locations:

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Substructure Information:

Type (Steel or Concrete):

Strength (Yield or Compressive ( $f^c$ )):

Bearing Pedestal Dimensions:

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**Design**

Design Goal:

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Retrofit or New Design:

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Design Method - ASD, LFD, or LRFD:

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Seismic Design Data:

AASHTO Acceleration Coefficient (A):

AASHTO Soil Type Factor ( $S_i$ ):

Site Specific Response Spectrum (if applicable):

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Design Temperature Range:

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Units - English or Metric:

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Specifications (including dates/editions):

AASHTO:

State Standard:

AASHTO Guide Specification:

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Bearing Materials:

Type of Steel:

Painted or Galvanized:

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**Testing**

Specifications (including dates/editions):

AASHTO:

State Standard:

AASHTO Guide Specification:

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**Design Requirements*****LRFD Design***

<b>Units</b> Load: Displacement: Rotation:			<b>Sub- structure Location</b>	<b>Sub- structure Location</b>	<b>Sub- structure Location</b>	<b>Sub- structure Location</b>
Bearing Quantity						
<b>Service</b> Limit State (max)	Vertical Load <i>per bearing</i>	Dead				
		Live				
		Total				
	Horizontal Load <i>per bearing</i>	Longitudinal				
Transverse						
<b>Strength</b> Limit State (max factored)	Vertical Load <i>per bearing</i>	Dead				
		Live				
		Total				
	Horizontal Load <i>per bearing</i>	Longitudinal				
		Transverse				
	Rotation (+/-)	Due to all applicable loads				
		Due to fab & const tol.				
		Total				
	Movement (+/-)	Longitudinal				
		Transverse				
<b>Extreme Event</b> Limit State ( <i>Seismic</i> , max factored)	Horizontal Force Goal <i>per bearing</i>	Longitudinal				
		Transverse				
	Maximum Displacement Goal (+/-) <i>across bearing</i>	Longitudinal				
		Transverse				
Type of attachment to <b>superstructure</b>						
Type of attachment to <b>substructure</b>						

If any of the above information is not known at this time, some assumptions can be used for an estimate. For example, a typical design rotation is 0.02 radians.

**Design Requirements**

***ASD or LFD Design***

<b>Units</b>	Load: Displacement: Rotation:	<b>Sub-structure Location</b>	<b>Sub-structure Location</b>	<b>Sub-structure Location</b>	<b>Sub-structure Location</b>
Bearing Quantity					
Load <i>per bearing</i> (Denote: unfactored or factored)	Vertical	Dead			
		Live			
		Total			
Rotation (+/-)	Due to all applicable loads				
	Due to fab & const tol.				
	Total				
Service Forces <i>per bearing</i> (Denote: unfactored or factored)	Wind (W)				
	Wind on Live (WL)				
	Centrifugal (CF)				
	Longitudinal Force (LF)				
Max Seismic Force Goal <i>per bearing</i>	Longitudinal				
	Transverse				
Max Seismic Displacement Goal <i>across bearing</i>	Longitudinal				
	Transverse				
Movement (+/-)	Longitudinal	RST			
	Transverse	RST			
Type of attachment to <b>superstructure</b>					
Type of attachment to <b>substructure</b>					

*If any of the above information is not known at this time, some assumptions can be used for an estimate. For example, a typical design rotation is 0.02 radians.*