Instructions: This form is for use in collecting data for phase two of the Concrete Coalition project: Developing a Global Database of Concrete Buildings Damaged in Earthquakes. For more information about how to use this form, see the sample form or view the demo at: http://concretecoalition.org.

Record ID: Building Name: Prepared By:

Section 1: Basic Building Information



Elevation view of 215 Fremont Street, post retrofit. (Louie International, 2011)

Country:	
State/Province:	
City:	
Latitude:	
Longitude:	
Street Address:	
Occupancy:	
Height:	Ft, m
Number of Stories:	
Number of Stories below	
ground:	
Size:	gsf, sqm
Year Built:	
Original Code:	
Modification:	
Year Modified:	
Code of Modification:	

Record ID: Building Name:	Prepared By:	
---------------------------	--------------	--

Section 1: Basic Building Information-(Continued)

Lateral Load System:	
Other Lateral Load	
System:	
Vertical Load System:	
Other Vertical Load	
System:	
Foundation:	
Building Description:	

Supplemental Basic Information:

Paste in building plans, engineering drawings or sketches

Typical interior column capital. (Amin et al., 2002)
Insert image here
Type image caption here:

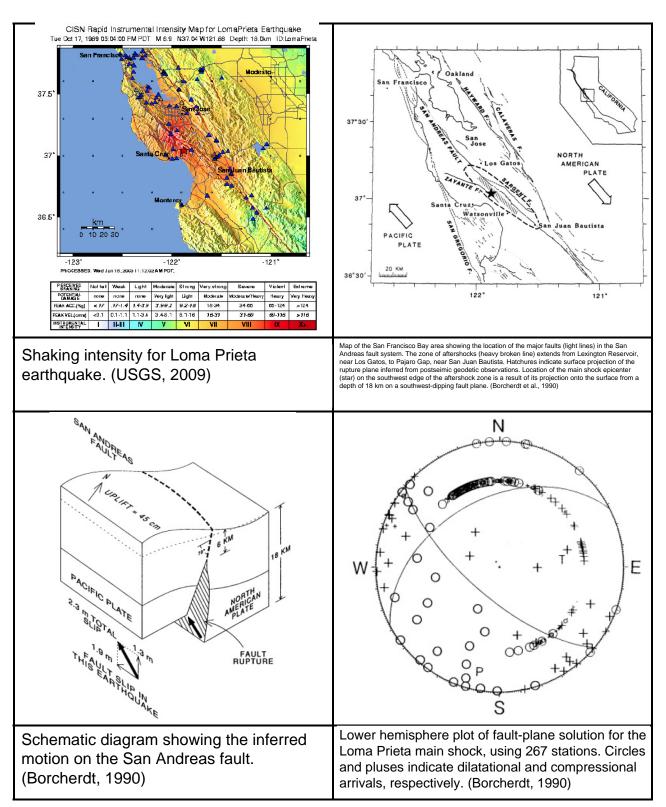
	Record ID:	Building Name:	Prepared By:
--	------------	----------------	--------------

Section 2: Earthquake Information

F .1 1 D .	
Earthquake Date:	
Moment Magnitude:	
Epicentral Distance (km):	
Local Intensity:	Intensity Scale:
Site Description:	
PGA (max horizontal):	
PGA (vertical):	
SaT:	
Ground Motion	
Recording Stations:	
Distance to Station (km):	
Station Latitude:	
Station Longitude:	
Ground Motion	
Summary:	

Additional Ground Motion Information:

Paste in earthquake maps, spectra, or figures involving the ground motion at the building site



Record ID:	Building Name:	Prepared By:
Section 3: Dam	age Information	
Performance Sum	nmary:	
Damage State Description:		
Summary of Caus Damage:	es of	

Record ID:	Building Name:		Pro	epared By:			
Section 4: Observed Design and Construction Characteristics-Construction Quality							
			Contributi	on to Observ	ed Damage		
	Notes	<u>Unlikely</u>	<u>Possible</u>	<u>Likely</u>	<u>Unknown</u>	<u>N/A</u>	
Materials			1	T			
Concrete							
Reinforcing steel							
Execution		L			l l		
Conveyance/ placement of concrete							
Rebar							
Field variance with design documents							
Other Factors							
Please Specify:							

Record ID:	Building Name:	Prepared By:

Section 4: Observed Design and Construction Characteristics-Configuration

			Contributi	on to Observ	ed Damage	
	Notes	<u>Unlikely</u>	<u>Possible</u>	<u>Likely</u>	<u>Unknown</u>	<u>N/A</u>
Plan Irregularities						
Torsion						
Perimeter boundary						
Diaphragm						
Out-of-plane offsets in lateral resisting system						
Non-orthogonal systems						

Record ID:	Building Name:		Pre	epared By:		
Section 4: Observed Design and Construction Characteristics-Configuration-(Continued)						
		Contributio	n to Observed	Damage		
Vertical Irregularities	Notes	<u>Unlikely</u>	<u>Possible</u>	<u>Likely</u>	<u>Unknown</u>	<u>N/A</u>
vertical irregularities						
Soft Story						
Weak story						
Mass distribution						
Geometric variability of lateral resisting system						
In-plane discontinuity of lateral resisting system						
Setbacks						
Change in stiffness						
Other Factors		I	ı		<u> </u>	
Please Specify:						

Record ID:	Building Name:		Pre	epared By:		
Section 4: Observed Design and Construction Characteristics-Lateral Load Resisting System-General						
			Contributi	on to Observe	ed Damage	
	Notes	<u>Unlikely</u>	<u>Possible</u>	<u>Likely</u>	<u>Unknown</u>	<u>N/A</u>
Strength				Γ	T	 1
Overall lack of strength						
Stiffness		l				
Extreme Flexibility						
Load Path				<u> </u>	<u> </u>	
Collectors/Struts						
Anchorage of nonstructural elements						
Out-of-plane capacity of walls						
Diaphragm chords						
Diaphragm openings						
Other Factors						
Please Specify:						

Record ID:	Building Name:		Pre	epared By:		
Section 4: Observed Design and Construction Characteristics-Lateral Load Resisting System-Frames						
			Contribution	on to Observ	ed Damage	
	Notes	<u>Unlikely</u>	<u>Possible</u>	<u>Likely</u>	<u>Unknown</u>	<u>N/A</u>
Columns			1		T	Г
Shear strength						
Flexural strength						
Axial load ratio (P/Ac/fc')						
"Vertical" load columns drift capacity						
Interference of frame action by infill						
Beams						
Strength relative to columns						
Shear controlled behavior						
Continuity of longitudinal reinforcing						
Loss of vertical capacity						

Record ID:	Building Name:		Pre	pared By:		
Section 4: Observed Design and Construction Characteristics-Lateral Load Resisting System-Frames-Continued						
		Contributio	n to Observed	l Damage		
	Notes	<u>Unlikely</u>	<u>Possible</u>	<u>Likely</u>	<u>Unknown</u>	N/A
Beams –(continued)						
Interference of frame action by infill						
Joints						
Interior						
Exterior						
Corner						
Other Factors		1				
Please Specify:						

Record ID:	Building Name:	Prepared By:

<u>Section 4: Observed Design and Construction Characteristics</u>-Lateral Load Resisting System-Shear Walls

			Contributi	on to Observ	ed Damage	
	Notes	<u>Unlikely</u>	<u>Possible</u>	<u>Likely</u>	<u>Unknown</u>	N/A
Shear						
Diagonal tension/compression						
Sliding shear						
Flexure/shear						
Flexure	•		I	•	1	
Compression zone buckling capacity						
Boundary reinforcing fracture/buckling						
Discontinuity of wall						
Boundary Reinforcing at openings						
Other Factors	I					
Please Specify:						

Record ID:	Building Name:		Pro	epared By:		
Section 4: Observed Design and Construction Characteristics - Lateral Load Resisting System-Infills						
			Contributi	on to Observ	ed Damage	
	Notes	<u>Unlikely</u>	<u>Possible</u>	<u>Likely</u>	Unknown	<u>N/A</u>
Unreinforced						
Interference with frame action						
Out-of-plane						
Attachment to framing						
Other Factors					_	
Please Specify:						

Record ID:	Building Name:		Pre	epared By:		
Section 4: Observed Design and Construction Characteristics-Lateral Load Resisting System-Other						
			Contributi	on to Observe	ed Damage	
Foundations	Notes	<u>Unlikely</u>	<u>Possible</u>	<u>Likely</u>	<u>Unknown</u>	<u>N/A</u>
Foundations						
Liquefaction						
Pile/pier tension capacity						
Spread footing capacity						
Other:			I	I	1	
Please Specify:						
Miscellaneous		•				
Pounding						
Surface Rupture						
Other:		L	L		l .	
Please Specify:						

Illustrations of damage:

Paste in drawings, sketches or photos of building damage

spandrels. (Schmid,
: image here
re:

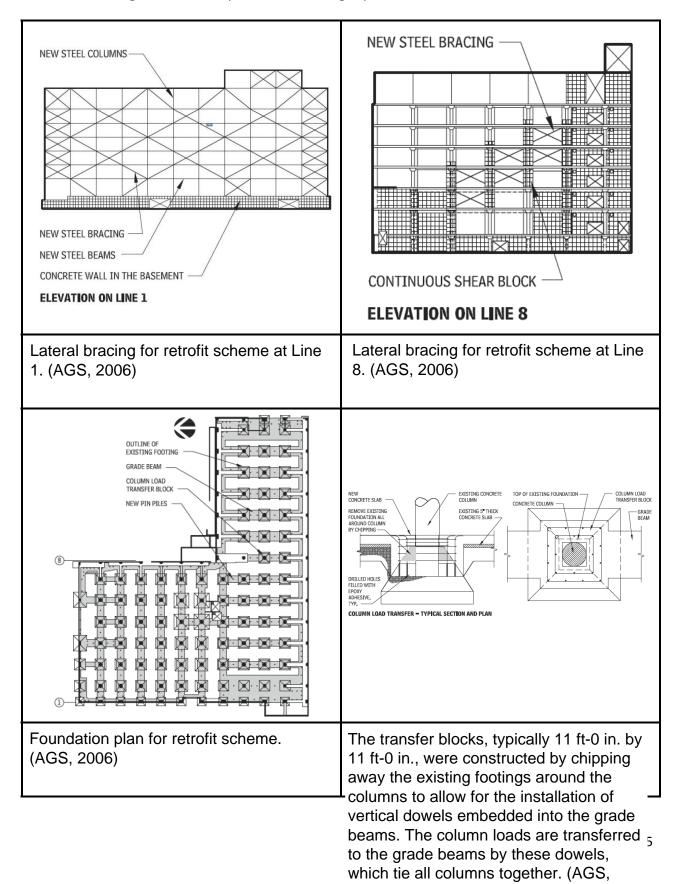
Record ID:	Building Name:	Prepared By:

Section 4: Repair and Retrofit Information

Type of retrofit or repair:	
Other:	
Performance Level:	
Hazard Level:	
Code:	
Other:	
Lateral Analysis:	
Other:	
Design Strategy:	
Retrofit Summary:	

Illustrations of Repair or Retrofit:

Paste in drawings, sketches or photos of building repair or retrofit



2006)

Record ID:	Building Name:	Prepared By:		
Additional Notes:				
Section 1				
Section 2				
Section 3				
Section 4				

Record ID:	Building Name:	Prepared By:
------------	----------------	--------------

Appendix 1: Supplemental Basic Information

File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	

Record ID:	Building Name:	Prepared By:

Appendix 2: Additional Ground Motion Location

File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	

Record ID:	Building Name:	Prepared By:

Appendix 3: Illustrations of Damage

File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Legation	
File Location	
File Caption	
File Location	
File Caption	
The Caption	
File Location	
File Caption	

Record ID:	Building Name:	Prepared By:

Appendix 4: Illustrations of Repair/Retrofit

File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	
File Location	
File Caption	

Record ID:	Building Name:	Prepared By:	
Appendix 5: References			
Citation			
Link to Purchase			
File Location			
Citation			
Link to Purchase			
File Location			
Citation			
Link to Purchase			
File Location			
Citation			
Link to Purchase			
File Location			
Citation			
Link to Purchase			
File Location			

Record ID:	Building Name:	Prepared By:	
Appendix 5: Re	<u>eferences</u> -(Continued)	
Citation			
Link to Purchase			
File Location			
Citation			
Link to Purchase			
File Location			
Citation			
Link to Purchase			
File Location			
Citation			
Link to Purchase			
File Location			
Citation			
Link to Purchase			
File Location			