



Architectural and Nonstructural Elements

Event Name/Date: _____ Name of investigator: _____

Short description of observation: _____ Date of observation: _____

I. Location: (please be as detailed as possible):

a. Descriptive: _____

b. Street:

Address Number	Direction (N, S, E, W)	Street Name	Suffix (Rd, St, Ave)
Cross Street (if available):			

c. City: _____ d. County: _____ e. Zip: _____

f. Map Reference (Quad, etc.) : _____ g. Latitude: _____ h. Longitude: _____

i. Thomas Bros. Page: _____ Grid: _____ j. Station ID: _____

II. Basic Information:

Use of structure at time of earthquake: _____

Influence of architectural design: _____

Structural damage: _____

Original construction drawings available? _____

Note observations concerning damage that was hazardous, disruptive, or costly; Note performance of code or design criteria or typical construction:

III. Architectural:

Suspended ceiling: _____

Plaster, sheetrock ceilings (interior): _____

Lights: _____

Raised floors: _____

Exterior: _____

plaster, sheetrock soffits (exterior): _____

veneer: _____

Architectural and Nonstructural Elements (continued)

concrete cladding: _____

concrete block fences: _____

Exit paths blocked: _____

IV. Mechanical:

Sprinkler system: _____

Other water supply: _____

Waste plumbing: _____

HVAC ductwork: _____

HVAC equipment: _____

Elevators _____

V. Electrical:

Backup power generators: _____

UPS units: _____

Transformers, large panels: _____

VI. Contents:

File cabinets: _____

Tall shelving: _____

Computers, desktop: _____

Computers, mainframe: _____

Suggestions for further investigation: _____

VII. Miscellaneous:

Film or digital images (include filename and/or roll information): _____

Sketches/Comments/Suggestions for further investigation:



Emergency Management and Response

Event Name/Date: _____ Name of investigator: _____

Short description of observation: _____ Date of observation: _____

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II. Emergency Response:

Describe effectiveness of emergency services:

Were search and rescue operations carried out? If so, describe. Note location, nature and extent:

Did communications problems occur? _____

If so, describe--e.g., hardware problems, social/cultural problems, interaction between two:

Emergency Management and Response (continued)

Was an emergency operations plan in place? Was it followed? _____

Were temporary measures necessary, e.g., backup generators, rerouting, etc.?

Suggestions for further investigation:

V. Miscellaneous:

Film or digital images (include filename and/or roll information): _____

Sketches/Comments:



Engineered Buildings

Event Name/Date: _____ Name of investigator: _____

Short description of observation: _____ Date of observation: _____

I. Location: (please be as detailed as possible):

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Address Number	Direction (N, S, E, W)	Street Name	Suffix (Rd, St, Ave)
Cross Street (if available):			

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f. Map Reference (Quad, etc.) : _____ g. Latitude: _____ h. Longitude: _____

i. Thomas Bros. Page: _____ Grid: _____ j. Station ID: _____

II. Building Information

Building Type: _____ When Built: _____

No. of stories: _____ Basements: _____

Building configuration: _____

Vertical load system: _____ Lateral load system: _____

Condition of walls: _____ Condition of foundations: _____

Evidence of torsional response: _____

Quality of construction: _____

Strong motion recording instruments present? _____

III. Site Information

Types of soils: _____

Site: Slope: _____ % Level: _____

Sand boils present? _____

Ground faulting present? _____

IV. Earthquake Damage to Building:

Engineered Buildings (continued)

Total estimated loss:

Less than 10% _____ 10 - 50% _____ over 50% _____

Is building functional? _____ If no, why not? _____

Status of utilities: _____

Casualties: Deaths: _____ Injuries: _____ Unknown: _____

Estimated Modified Mercalli Intensity/PGA: _____

Does building warrant further investigation? _____

If yes, why? _____

V. Nonstructural Damage

Note performance of elevators, ceilings, light fixtures, sprinklers, windows, partitions, cabinets, equipment, vibration isolators, file cabinets, shelving, piping, veneer, etc. _____

VI. Miscellaneous

Architect: _____ Engineer: _____

Are plans available? _____

Where? _____

Film or digital images (include filename and/or roll information): _____

Sketches/Comments:



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II. Regional Earth Movements - Tectonic Original:

Uplift: _____ Subsidence: _____

Regional and local tilting and ground warping:

Post-earthquake gravity measurements:

Geoscience (continued)

Post-earthquake P- and S-wave velocity measurements (from aftershocks):

Pre-earthquake P- and S-wave velocity measurements:

V. Miscellaneous:

Recordings or digital images (include filename and/or identification): _____

Sketches/Comments:



Ground Deformation Form

Event Name/Date: _____ Name of investigator: _____

Short description of observation: _____ Date of observation: _____

I. Location: (please be as detailed as possible):

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Address Number	Direction (N, S, E, W)	Street Name	Suffix (Rd, St, Ave)
Cross Street (if available):			

c. City: _____ d. County: _____ e. Zip: _____

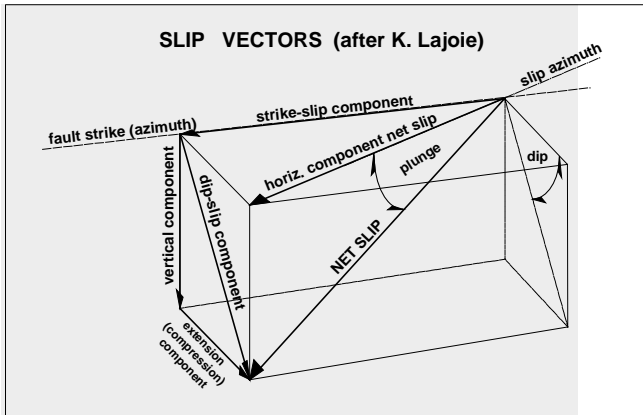
f. Map Reference (Quad, etc.): _____ g. Latitude: _____ h. Longitude: _____

i. Thomas Bros. Page: _____ Grid: _____ j. Station ID: _____

II. Surface Fault Rupture:

General description: _____

Time of observation: _____ Reverse Normal Right-Lateral Left-Lateral



Fault Strike: _____ Fault Dip: _____

Strike-slip (cm): _____ Vertical (cm): _____

Net slip length (cm) _____ Azimuth: _____°

Width of fault trace [latest rupture (m)]: _____

Slickensides, gouge, fault breccia, other: _____

Relationship of fault scarp formation and height to local geology, bedrock structure, and geomorphology (include location): _____

Any additional displacements on nearby or subsidiary faults (mainshock or aftershock)? _____

Offset as a function of depth: _____ Location: _____

Nature of Faulting (original displacement or renewed displacement on old fault trace): _____

Amount and sense of displacement: _____

Ground Deformation Form (continued)

Evidence of afterslip:

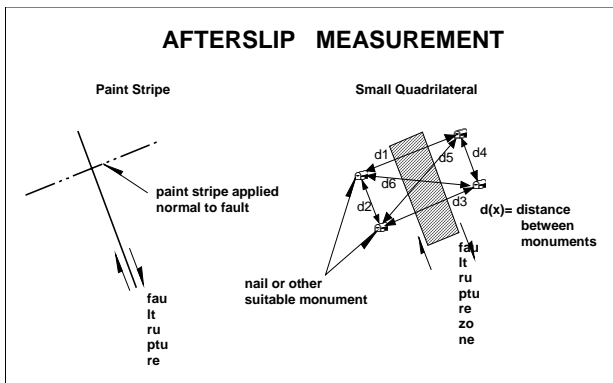
Location: _____

Amount: (cm) _____

Sense of movement: _____

Relation to aftershocks: _____

Width of principal fault zone through which new faulting took place: _____



III. Other Ground Failure:

- Landslides
- Liquefaction
- Lateral spreading
- Settlement
- Ground cracking
- Hydrologic effects (including dam failure)

Describe: _____

IV. Effects on Built Environment:

Damage and lack of damage to engineered structures (type): _____

V. Miscellaneous:

Film or digital images (include filename and/or roll information): _____

Sketches/Comments:



Industrial Facilities

Event Name/Date: _____ Name of investigator: _____

Short description of observation: _____ Date of observation: _____

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c. City: _____ d. County: _____ e. Zip: _____

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i. Thomas Bros. Page: _____ Grid: _____ j. Station ID: _____

II. Facility Information:

Facility Type: _____ When Built: _____

No. of stories: _____ Basements: _____

Facility configuration: _____

Vertical load system: _____ Lateral load system: _____

Condition of walls: _____ Condition of foundations: _____

Evidence of torsional response: _____

Quality of construction: _____

Strong motion recording instruments present? _____

III. Site Information

Types of soils: _____

Site: Slope: _____ % Level: _____

Sand boils present? _____

Ground faulting present? _____

IV. Earthquake Damage to Structure:

Industrial Facilities (continued)

Total estimated loss:

Less than 10% _____ 10 - 50% _____ over 50% _____

Is facility operational? _____ If no, why not? _____

Were operations disrupted? _____

If so, for how long? _____

To what degree? _____

Status of utilities: _____

Estimated dollar losses:

Casualties:

Deaths: _____ Injuries: _____ Unknown: _____

Estimated Modified Mercalli Intensity: _____ Estimated Peak Ground Acceleration (PGA): _____

Does facility warrant further investigation? _____

If yes, why? _____

V. Miscellaneous Data

Architect: _____ Engineer: _____

Are plans available? _____

Where? _____

Film or digital images (include filename and/or roll information): _____

Sketches/Comments:



Instrumentation

Event Name/Date: _____ Name of investigator: _____

Short description of observation: _____ Date of observation: _____

I. Location: (please be as detailed as possible):

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II. Instrument Installation

Instrument Type: _____

Instrument reading: _____

Findings: _____

III. Miscellaneous:

Digital data file (include filename): _____

Sketches/Comments:



Societal Impacts

Event Name/Date: _____ Name of investigator: _____

Short description of observation: _____ Date of observation: _____

I. Location: (please be as detailed as possible):

a. Descriptive: _____

b. Street:

Address Number	Direction (N, S, E, W)	Street Name	Suffix (Rd, St, Ave)
Cross Street (if available):			

c. City: _____ d. County: _____ e. Zip: _____

f. Map Reference (Quad, etc.) : _____ g. Latitude: _____ h. Longitude: _____

i. Thomas Bros. Page: _____ Grid: _____ j. Station ID: _____

II. Injuries/Deaths:

Did injuries or deaths occur? _____

Describe the nature and causes of injuries/deaths: _____

Describe types of structure and locations in structure where injuries/deaths occurred: _____

III. Social and Economic Impacts:

Note the segments of the community that seem most affected by this earthquake--e.g., small business, non-English speaking, residents of a certain area, etc. _____

Note the approximate location of shelters and temporary housing, with an estimate of numbers being housed: _____

Societal Impacts (continued)

Note the social and economic characteristics of the most heavily damaged neighborhoods in the affected community(ies): _____

IV. Miscellaneous:

Suggestions for further investigation:

Film or digital images (include filename and/or roll information): _____

Sketches/Comments:



Transportation Structures

Event Name/Date: _____ Name of investigator: _____

Short description of observation: _____ Date of observation: _____

I. Location: (please be as detailed as possible):

a. Descriptive: _____

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Address Number	Direction (N, S, E, W)	Street Name	Suffix (Rd, St, Ave)
Cross Street (if available):			

c. City: _____ d. County: _____ e. Zip: _____

f. Map Reference (Quad, etc.) : _____ g. Latitude: _____ h. Longitude: _____

i. Thomas Bros. Page: _____ Grid: _____ j. Station ID: _____

II. Bridge Information:

Bridge ID: _____ Route/Interchange: _____

Length: _____ Width: _____ When Built: _____

Superstructure: _____

Substructure: _____

Abutments: _____

Hinges/Bearings: _____

Skew/Curve: _____

Retrofit: _____

Pre-Earthquake Condition: _____

Strong motion recording instruments present? _____

III. Earthquake Damage:

Transportation Structures (continued)

Total estimated loss:

Less than 10% _____ 10 - 50% _____ over 50% _____

Is lifeline functional? _____

If no, effect on route: _____

Estimated time to repair: _____

IV. Site Information:

Estimated Modified Mercalli Intensity/PGA: _____

Types of soils: _____

Sand boils present? _____

Ground faulting present? _____

Foundation movement? _____

V. Miscellaneous:

Film or digital images (include filename and/or roll information): _____

Sketches/Comments:



Tsunami

Event Name/Date: _____ Name of investigator: _____

Short description of observation: _____ Date of observation: _____

I. Location: (please be as detailed as possible):

a. Descriptive: _____

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Address Number	Direction (N, S, E, W)	Street Name	Suffix (Rd, St, Ave)
Cross Street (if available):			

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i. Thomas Bros. Page: _____ Grid: _____ j. Station ID: _____

II. Wave Characteristics:

Indicate the location and type of water body where wave was observed (open coast, bay, harbor, estuary):

Indicate the direction the wave came from:

What was the water condition before the tsunami waves arrived?

Indicate the nature of the wave(s):

Did the water recede before the first tsunami wave arrived?

Give times and heights for waves at this location:

	Times	Heights
First Wave:		
Second wave:		
Third wave:		
Other waves:		

Tsunami (continued)

How far inland (in feet) did the water travel from high-tide shoreline? If you do not know, describe the place farthest inland where water was noticed:

Suggestions for further investigation:

III. Miscellaneous:

Film/Video or digital images (include filename and/or roll information): _____

Sketches/Comments: