



# Building Structures--Reinforced Concrete Shear Wall Buildings

Event/Date: \_\_\_\_\_ Investigator: \_\_\_\_\_

Short description of observation: \_\_\_\_\_ Date of observation: \_\_\_\_\_

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

Number	Address Street (indicate street, road, avenue, lane, etc.)	Additional Address (room, suite, floor, etc.)	City	State	Zip	Country

Alternative description or name: \_\_\_\_\_

### Map Reference

Latitude	Longitude	Direction	Thomas Bros. Page No.
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## II. Building Behavior

How many shear walls are there in the building?

Value: \_\_\_\_\_

Is the wall layout symmetrical/regular?

- Unknown
- Yes
- No

Are there any discontinuities in the walls?

- Unknown
- Yes
- No

Is damage focused at wall discontinuities?

- Unknown
- Yes
- No

What patterns exist in the shear wall damage?

- No damage
- X-shaped shear cracking in walls
- X-shaped shear cracking in piers between openings
- Cracking in spandrel beams
- Overturning tension cracks
- Crushing in compression zones
- Other \_\_\_\_\_

Is there any movement at the construction joints?

- Unknown
- Yes
- No

Rate the performance of the joinery between the shear walls and the diaphragms.

- Unknown
- Poor
- Fair
- Good

Rate the performance of the joinery between the diaphragms and the framing members.

- Unknown
- Poor
- Fair
- Good

Rate the performance of the joinery between the shear walls and the foundation.

- Unknown
- Poor
- Fair
- Good

Which parts of the reinforcement at wall openings were inadequate?

- Unknown
- Reinforcement was adequate
- No reinforcement
- Continuity problems
- Insufficient splices
- No bars perpendicular to corner cracking
- Other \_\_\_\_\_



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### II. Building Behavior (cont.)

Rate the material quality of the concrete.

- Unknown
- Poor
- Fair
- Good

Rate the material quality of the reinforcement.

- Unknown
- Poor
- Fair
- Good

Are there any problems due to poor material quality?

- Unknown
- Yes
- No

Is there adequate reinforcing steel in the shear wall boundary elements?

- Unknown
- Yes
- No

What is the orientation of the shear wall reinforcing?

- Unknown
- Vertical only
- Horizontal only
- Horizontal and Vertical
- Diagonal
- Other \_\_\_\_\_

Are there any post-construction modifications that lack adequate strengthening?

- Unknown
- Yes
- No

Is there damage to other elements due to shear wall deformation?

- Unknown
- Yes
- No

Sketches/Comments: