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)

<table>
<thead>
<tr>
<th>Address</th>
<th>Additional Address</th>
<th>City</th>
<th>State</th>
<th>Zip</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>Street</td>
<td>(indicate street, road, avenue, lane, etc.)</td>
<td>(room, suite, floor, etc.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Alternative description or name:__________________________________________________________________

Map Reference

<table>
<thead>
<tr>
<th>Latitude</th>
<th>Longitude</th>
<th>Direction</th>
<th>Thomas Bros. Page No.</th>
</tr>
</thead>
</table>

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 ________________________________

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 ________________________________

Is there any movement at the construction joints?

☐ Unknown
☐ Yes
☐ No
### 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:**