

# 2008 Presentation to City of Seattle URM Committee

Reid Middleton, Inc.



David Swanson, PE, SE

Alan Findlay, PE

City of Seattle  
October 31, 2008

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City of Seattle  
**Unreinforced  
Masonry  
Building  
Seismic Hazards  
Study**  
December 2007

Prepared for:  
City of Seattle Department of  
Planning and Development

Reid Middleton, Inc.

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The slide features a map of Seattle with various colored overlays indicating seismic hazard zones and the locations of unreinforced masonry buildings. The map is set against a background image of a masonry building. The text on the right side of the slide provides the title of the study, the date, and the organization responsible for the report.

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Brick Arch  
Brick sill  
Wall Anchor  
Header/Stretch Brick Course

Figure 1. Typical Characteristics of a URM Building

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A close-up photograph of a brick building facade. The image highlights several key structural features of unreinforced masonry buildings. Labels with arrows point to a 'Brick Arch' above a window, a 'Brick sill' below a window, a 'Wall Anchor' protruding from the wall, and a 'Header/Stretch Brick Course' at the top of a section of the wall. The caption below the image identifies these as typical characteristics of a URM building.

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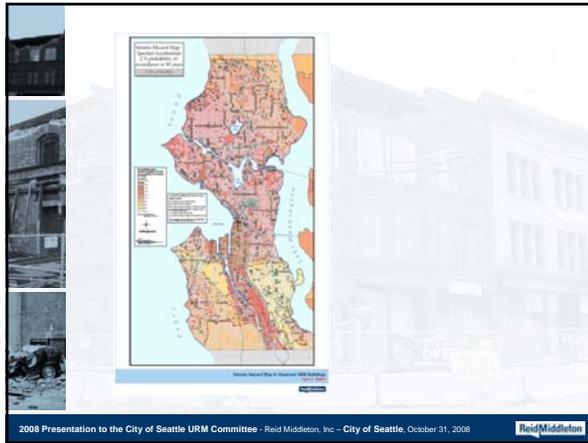
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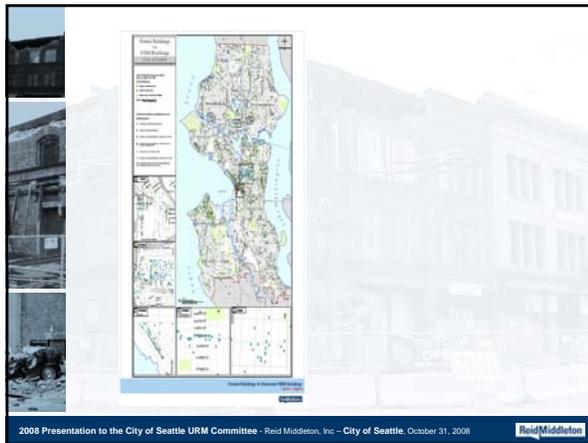
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**Table 3-1. Story Investigation of Buildings Damaged by the Nisqually Earthquake<sup>1</sup>.**

Number of Stories	Number of Damaged Buildings	Percent Damaged
7	1	1%
6	6	8%
5	11	15%
4	15	20%
3	17	23%
2	11	15%
1	13	18%
<b>Total</b>	<b>74</b>	<b>100</b>

<sup>1</sup> Information taken from the DPD's Permit Status information system.

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