

Figure captions:

Figure 1 Map of affected region showing recorded peak ground accelerations in circles (in percent)

Figure 2 Acceleration time histories from the YPT station; (a) east-west component, (b) north-south component

Figure 3 Elastic acceleration response spectra for 5% damping

Figure 4 Floor plan of a 3-story building near Golcuk

Figure 5 Construction details for apartment building

Figure 6 Hollow clay tile blocks from a failed infill wall

Figure 7 Variability of building response

Figure 8 Views from a collapsed apartment building in Golcuk

Figure 9 Formation of a soft and weak story

Figure 10 Column details from (a) 1975 and (b) 1997 Turkish seismic codes

Figure 11 Typical beam and column rebar details observed by the reconnaissance team

Figure 12 Damage to nonductile reinforced concrete beam

Figure 13 Failure of lap splices in moment-frame column

Figure 14 Typical transverse reinforcement details in a damaged column

Figure 15 Shear failure of a moment frame blade column

Figure 16 Lack of transverse reinforcement in moment-frame column

Figure 17 Concentrated damage at ends of moment-frame columns due to excessive drift

Figure 18 Building collapse due to failure of beam-column joints

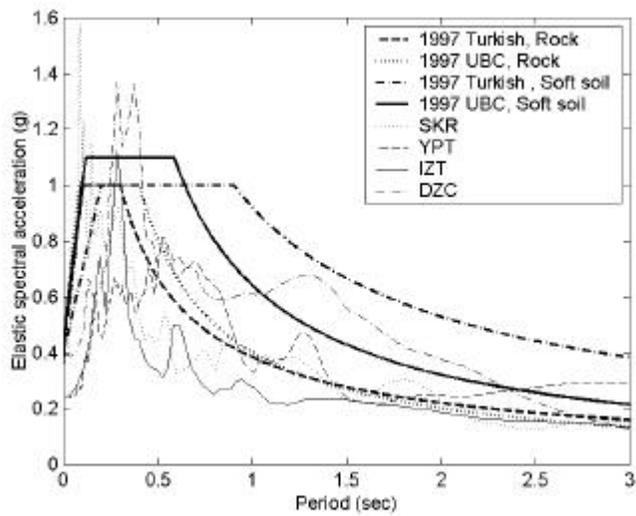
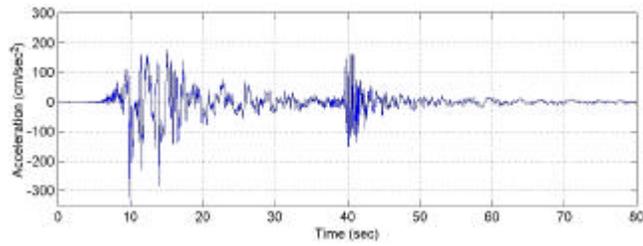
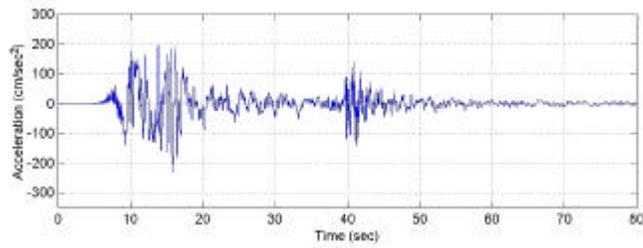
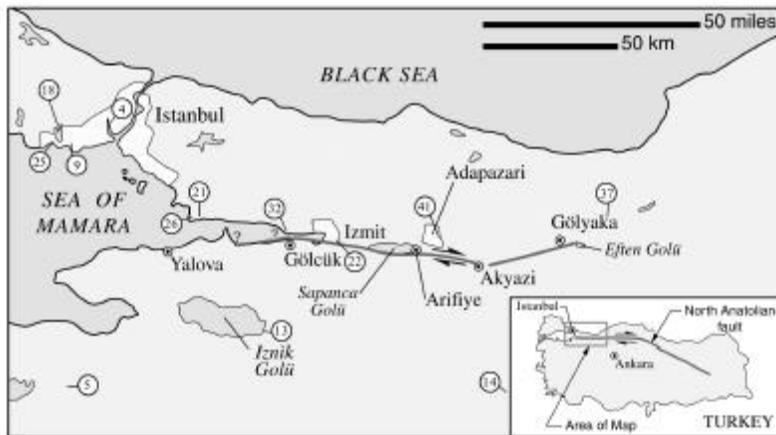
Figure 19 Damage to new moment-frame beam-column joint

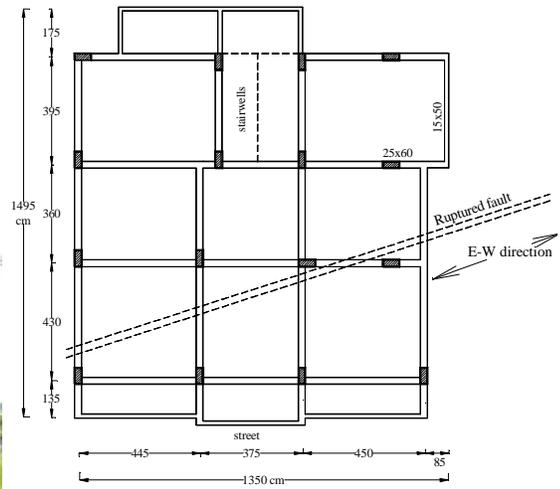
Figure 20 Undamaged apartment building in Golcuk

Figure 21 Collapsed dual wall-frame building in Adapazari, (a) view of collapsed 5-story building, (b) failure of the shear wall and perimeter columns

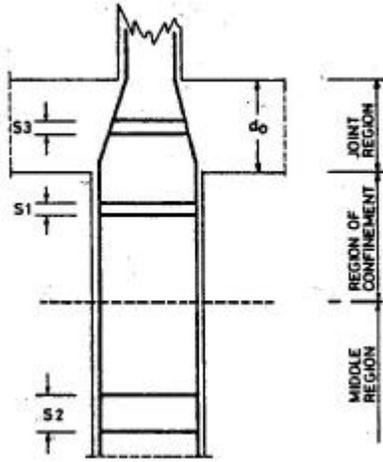
Figure 22 Damaged wall frame building due to ground failure and wall rotation

Figure 23 Shear failure of wall/blade column

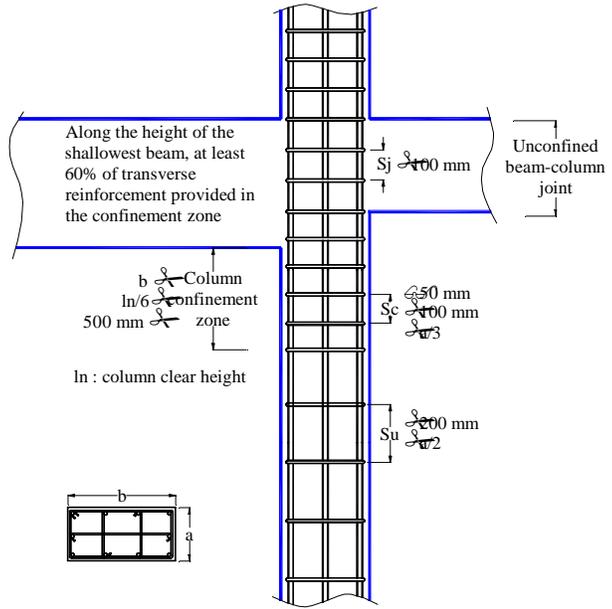








(a)



(b)

