

Figure 5–199 shows the north face 5.0 s after the east penthouse began moving downward. These two frames were taken from the Camera 2 long distance and Camera 3 West Street views. The time is 1.5 s after the corresponding views shown in Figure 5–197. There have been relatively minor changes in the appearance of the north face over this period. In the Camera 3 shot, it can be seen that additional glass has broken out of windows on the east side of the face. Open windows are visible at multiple locations from the 37th floor to the 43rd floor. The light coming through the open roof is apparent for windows on the 46th and 47th floors. In the longer distance view, the top of the tear-drop shaped light area that was observed moving down the north face is just visible above the buildings in the foreground. Most of the shape has already moved out of view. No other major visible changes were evident over the 1.5 s period.



Figure 5–199. Cropped frames from the Camera 2 video clip in Figure 5–185 and the Camera 3 video clip in Figure 5–186, showing the north face of WTC 7 5.0 s $\pm$ 0.1 s after the east penthouse began to move downward.

The intensities have been adjusted.

5.7.4 Global Collapse of WTC 7

The global collapse of WTC 7 started 6.9 s $\pm$ 0.1 s after the east penthouse began its descent into the building. Thus, the actual time when the east penthouse first began to descend into the roof of WTC 7 was 5:20:45 p.m. $\pm$ 1 s. The initial movement of the north face occurred at the roofline at the east penthouse location and at the eastern side of the screenwalls on the roof. The most rapid initial descent was near the screenwall, and this structure appeared to be sinking into the building.

Figure 5–200 shows views of the north face, shot by Cameras 2 and 3, 0.6 s after this motion was first detectable. Comparison of the Camera 3 shot with the corresponding view in Figure 5–199 shows that the top of the north screenwall has moved downward on the east side. This is most easily seen by noting the variation in the height of the screenwall above the top of the north face parapet. In the more distant Camera 2 shot, the line running along the top of the north screenwall and the west penthouse appears to be slanted downward toward the east.