

# Details Matter

## What Fiterman Hall says about WTC7; Precision Analysis at the Pentagon; East Facade of the South Tower

Wayne H. Coste  
Presentation to Boston 9/11 Truth  
November 7, 2024

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Details Matter: Fiterman Hall, the Pentagon  
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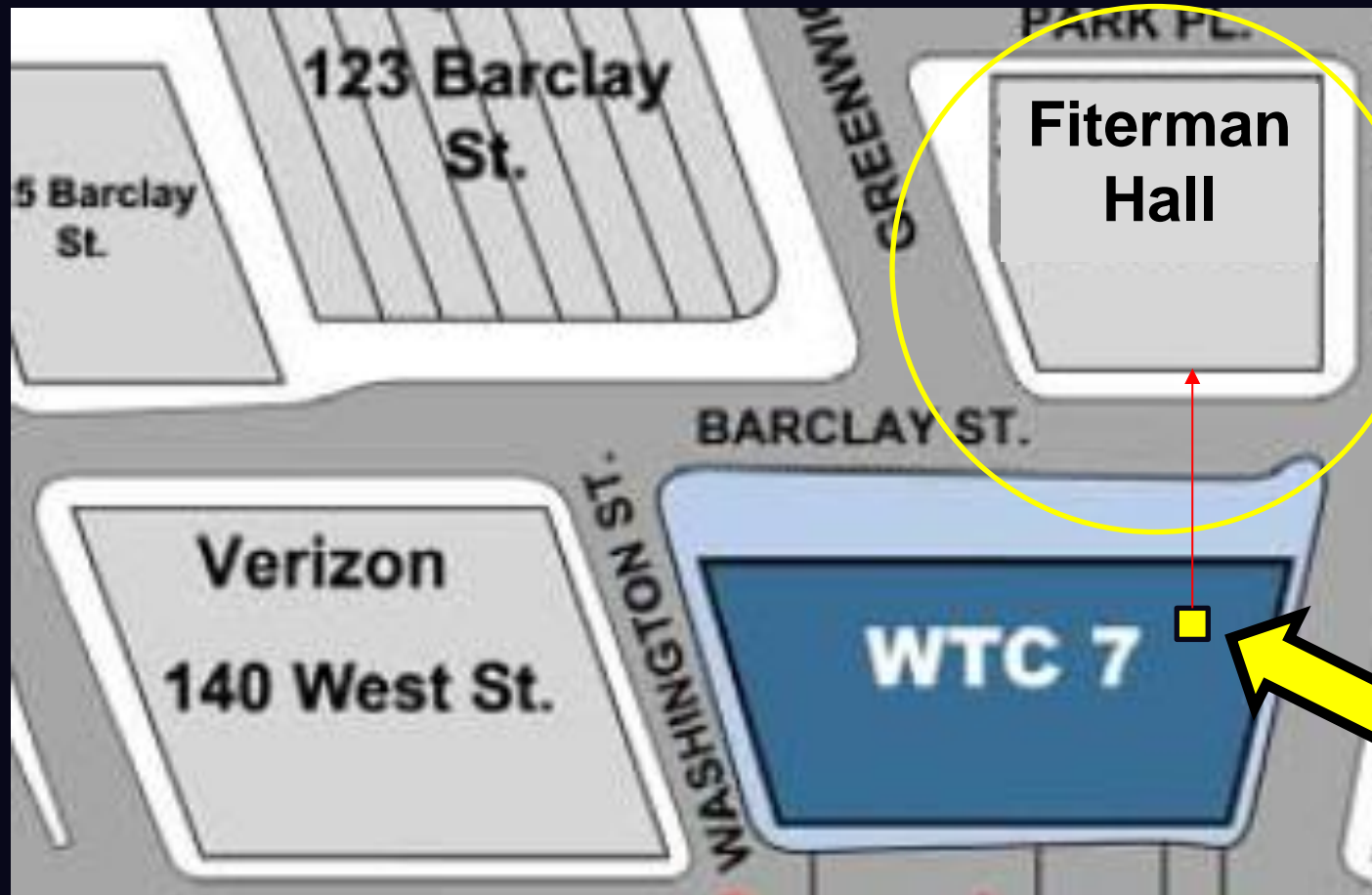
Overview

# FITERMAN HALL

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# Fiterman Hall Located Opposite from WTC7

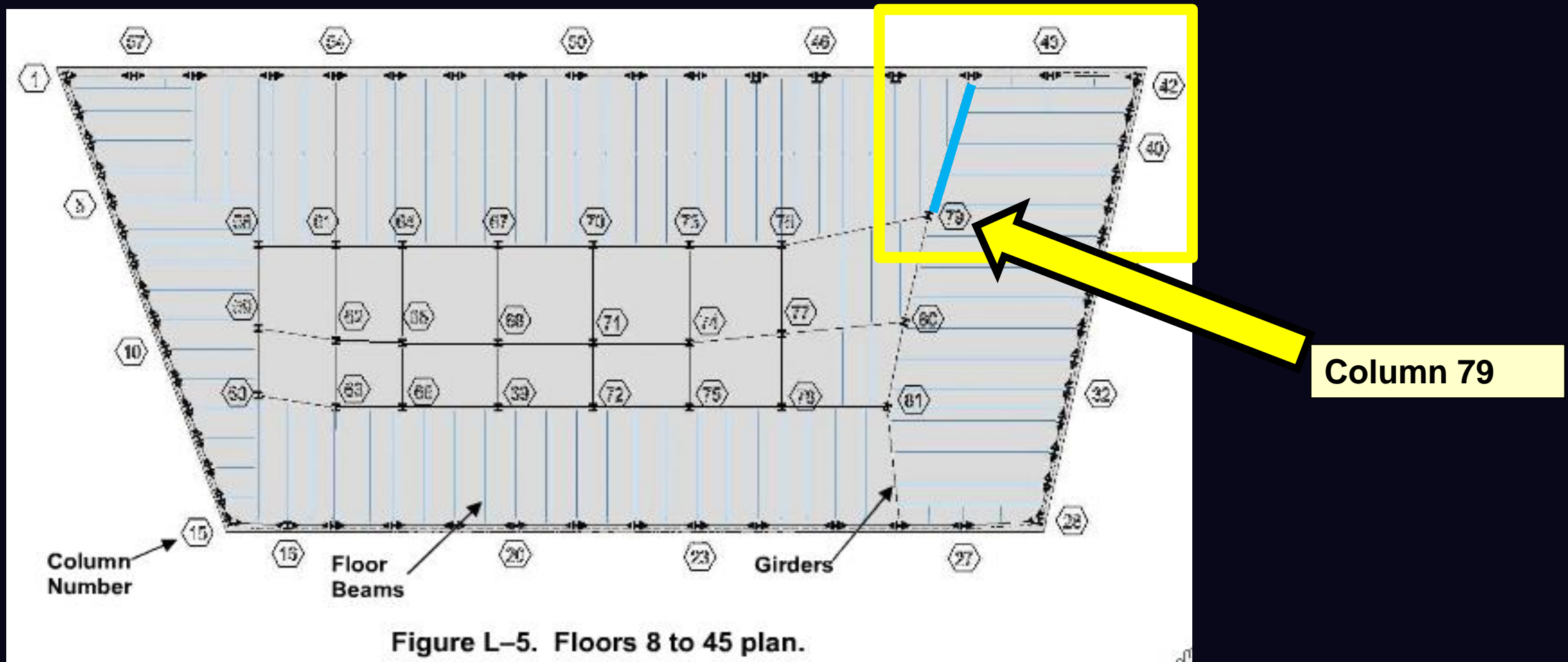


Column 79

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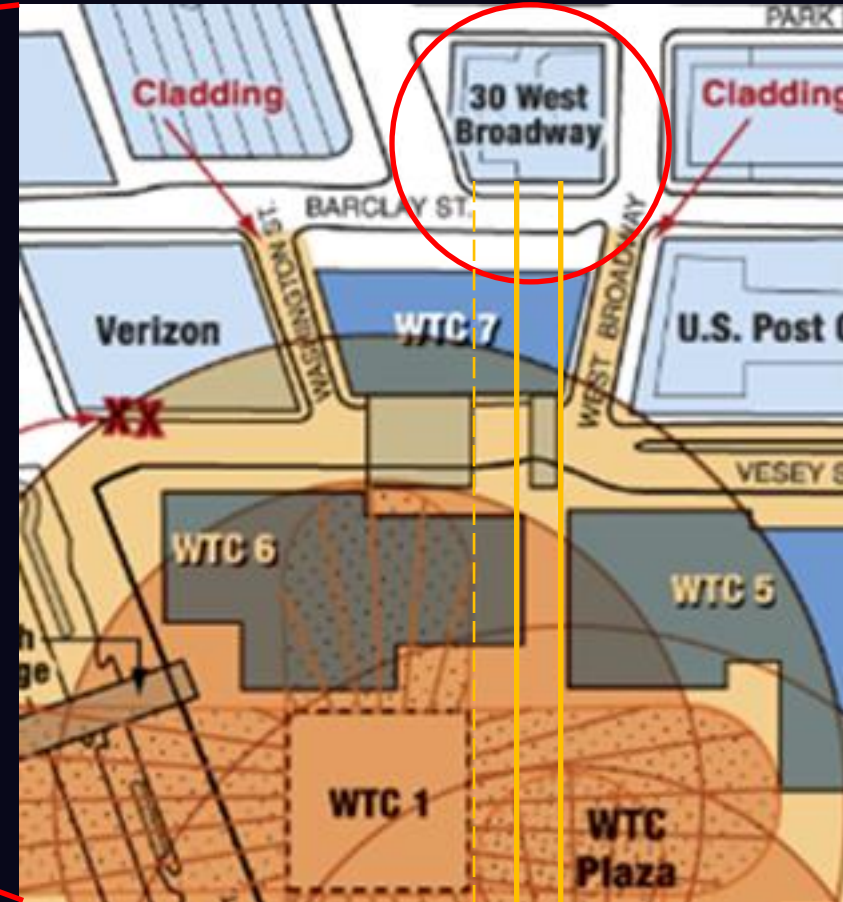
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# Location of Column 79 in WTC 7





# FEMA Diagram of WTC Complex



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# Fiterman Hall – Looking Toward WTC Site

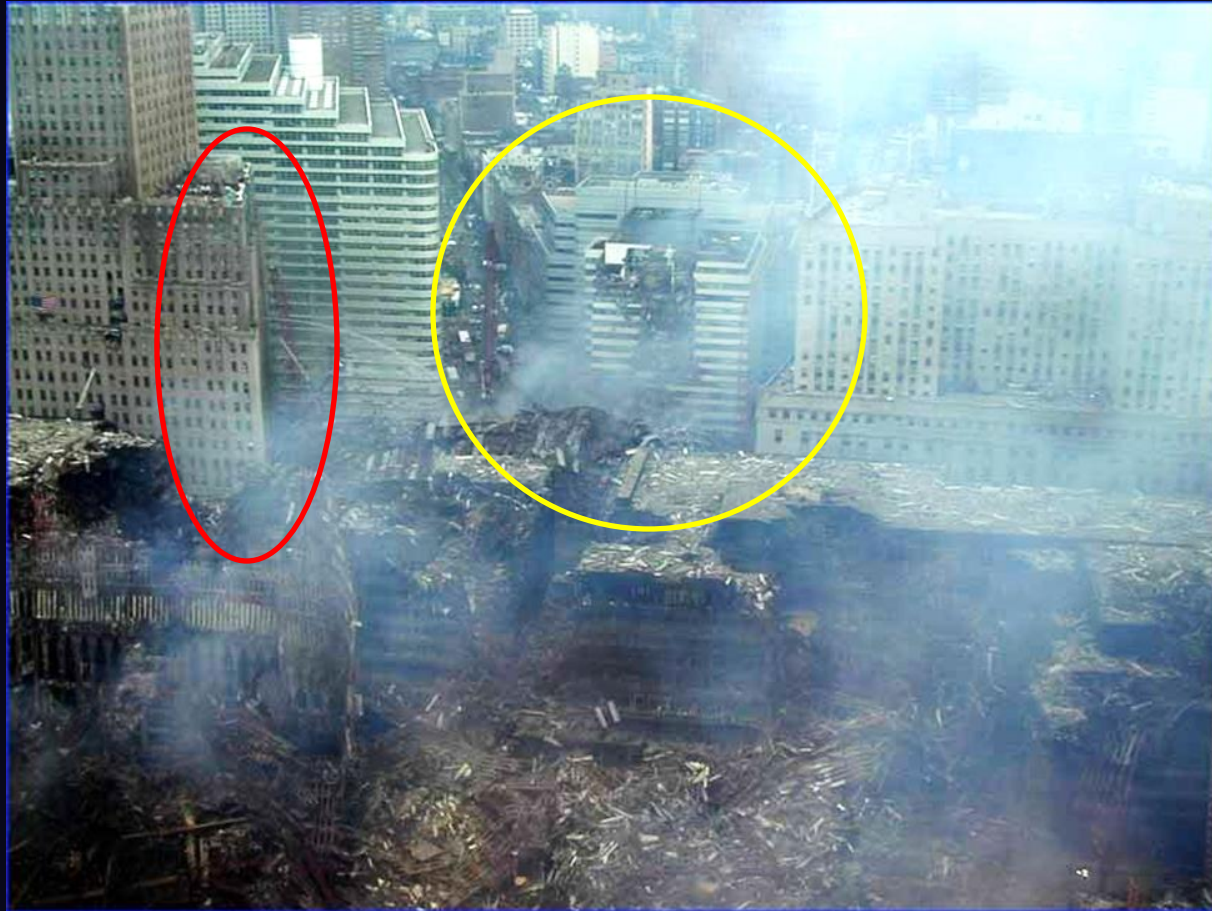


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# Fiterman Hall – Looking Over WTC 6

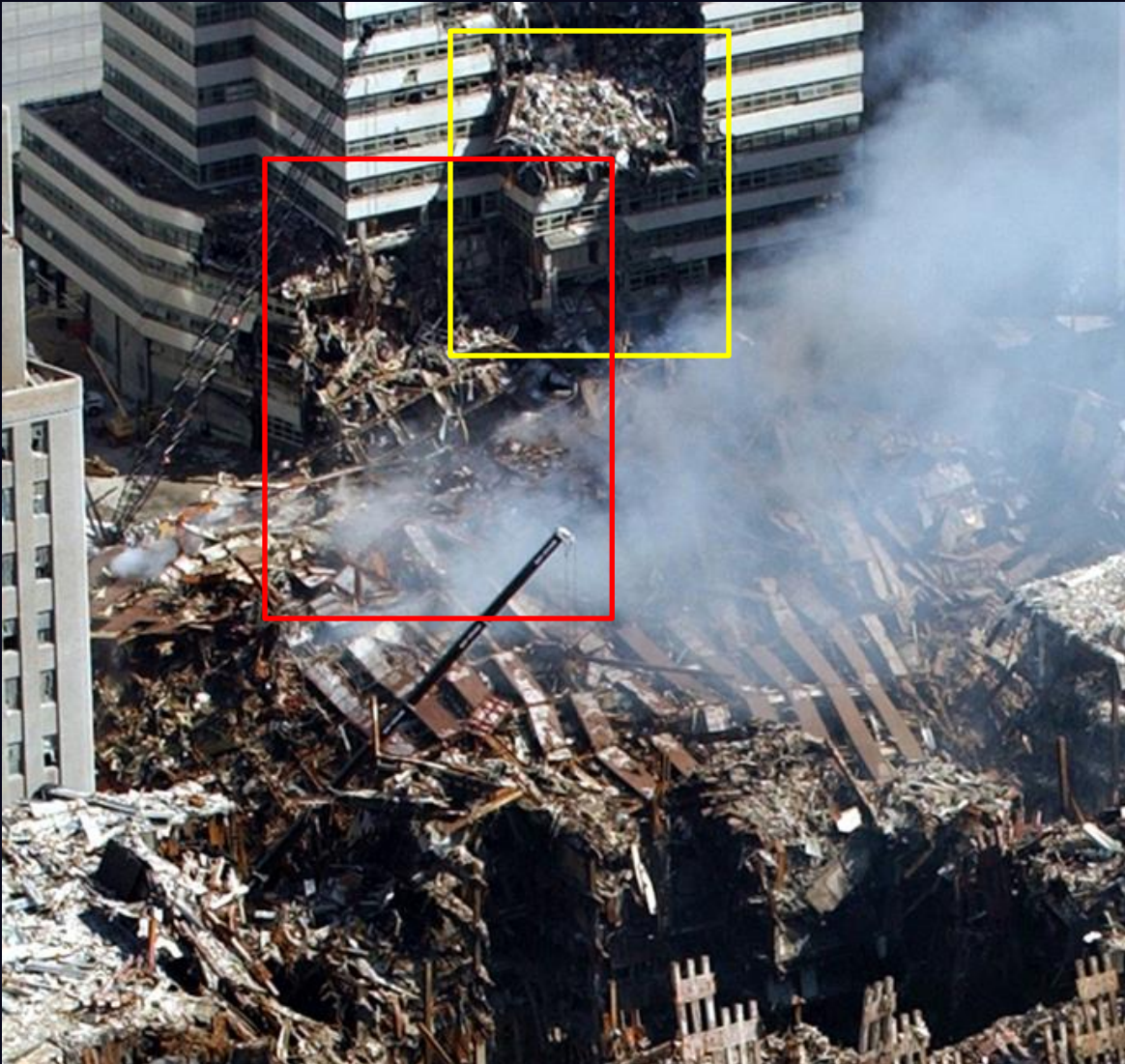


**Note that WTC7 blocked damage to Fiterman Hall from the Twin Towers**

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# Fiterman Hall – Looking Over WTC 6 & 7



**Note that there is a shelf with no significant horizontal impact damage.**

**This doesn't look like damage from a "falling / collapsing" WTC7.**

**WTC 7 "collapsed" into its footprint.**

**It looks like a section of WTC7 was propelled onto the upper 20 stories of Fiterman Hall.**

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# Debris on Undamaged Shelf and Facade



**No damage along this horizontal band that suggests a tipping / falling WTC 7 structure**

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# Fiterman Hall – Frame Steel From WTC 7



Left side has large, distinct frame consistent with WTC 7 construction

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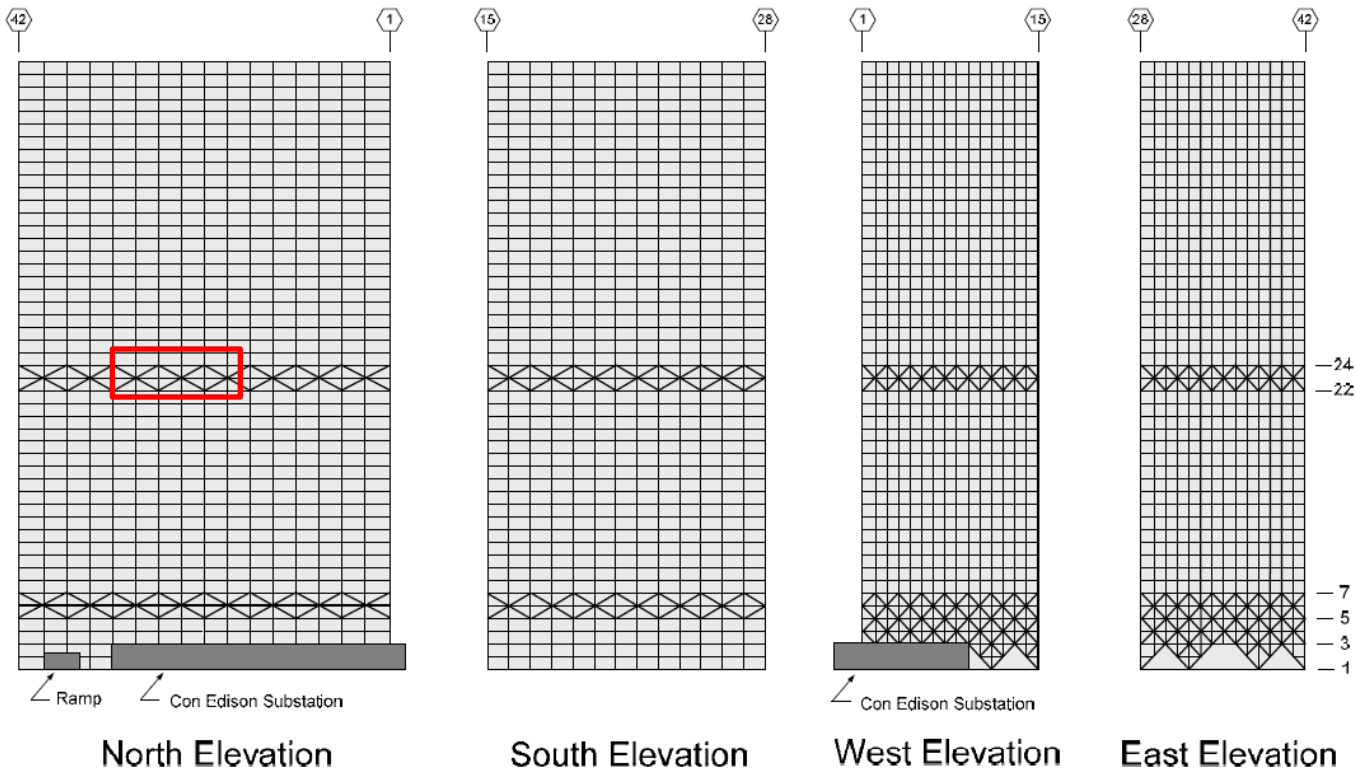
# Fiterman Hall – Frame Steel From WTC 7



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# WTC 7 Steel Frames For Wind



Wind bracing on the sides is different from the front and back

Sides have noticeable plates in the center of the X cross bracing

Red is approximate probable location of the steel frame at the side of Fiterman Hall.

Based on erection drawings (Frankel 1985)

Figure 2-25. Exterior lateral load resisting system elevations.

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# Section With Wind Cross Bracing



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# Many Windows Broken with Frames Intact



**Damage clearly seen to the upper section of Fiterman Hall.**

**Lower section had minimal damage limited to (mostly) broken windows.**

**The scope of this damage can only be caused by propelled debris of significant mass, at height and high horizontal velocity.**

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# Close-up View of Damage

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Roberto Rabanne's Video

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# Curious Case of Roberto Rabanne's Video

- Careful observations are critical to a good investigation
- Following are two “frames” are presented for comparison
  - Taken moments apart
  - Exact moment of collapse initiation is missing from FOIA release
    - Minutes of continuous recording before and after initiation
    - Only several frames of collapse initiation is missing
  - Video is “over compressed” and detail has been obliterated
    - NCSTAR 1-9 has very sharp images from this video
    - Suggestive of intentional obfuscation that others may want to pursue
- Huge dust cloud appears just as (or before) the penthouse (begins) to move



From FOI release of video by Roberto Robane  
NOTE: Released video significantly degrade  
from the images appearing in (NIST NCSTAR) - 1-9

Next released frame shows only the WTC  
penthouse has descended (but still visible)

Smoke and debris engulf Fiterman Hall  
penthouse.

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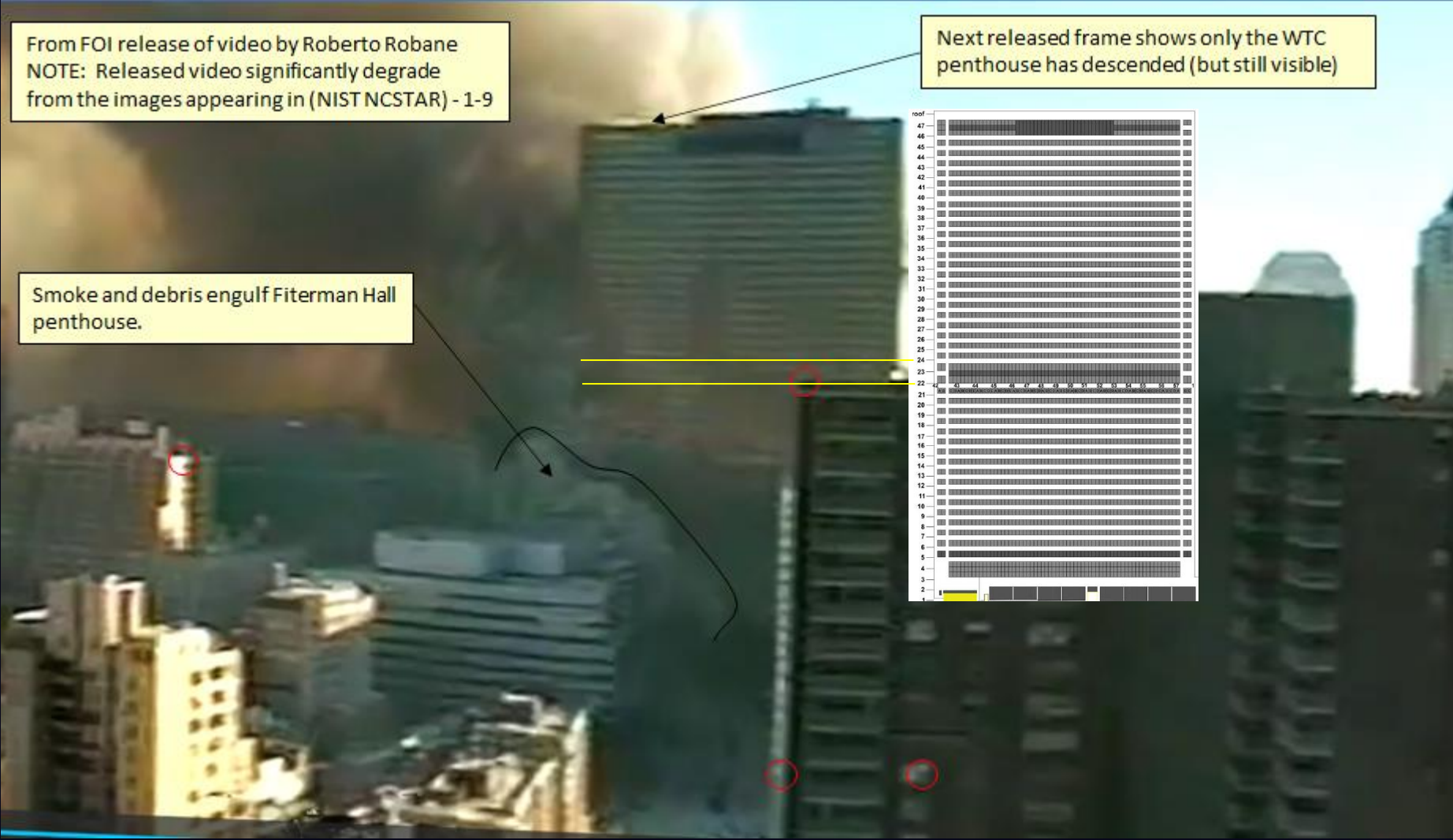
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Emerging cloud of dust and debris suggests an energetic basis for the ejection of WTC7 perimeter sections onto the Verizon building.  
NOTE: Many floor below observed fires.

Fiterman Hall penthouse now engulfed in cloud of dust and debris at NIST time of 9.0 sec

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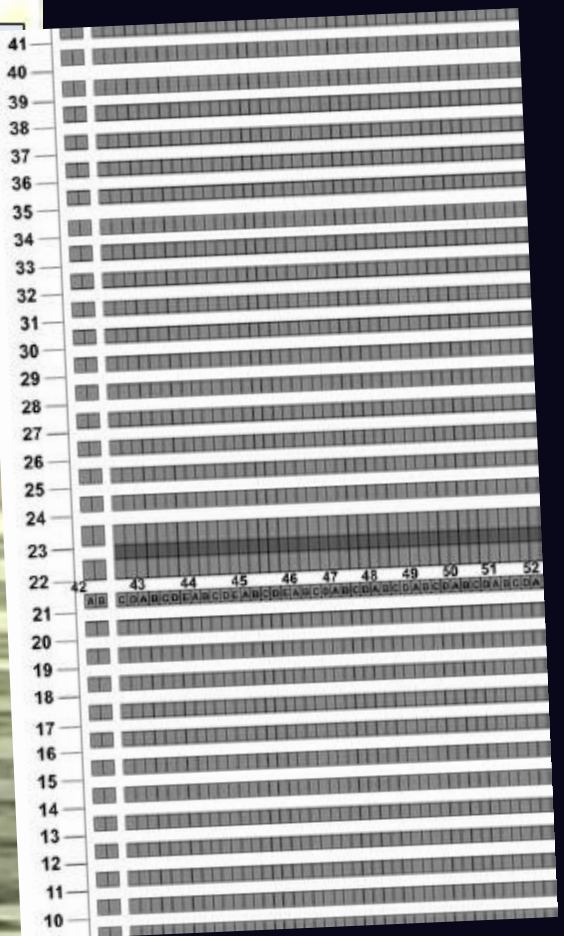


Figure 5–207. Frame from the Camera 6 video clip in Figure 5–189, showing the north face of WTC 7 9.0 s ± 0.2 s after the east penthouse began to move downward. The intensities have been adjusted.



# Before Penthouse Begins to Descend



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# After Penthouse Begins to Descend



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# Before Penthouse Begins to Descend (w/Line)



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# After Penthouse Begins to Descend (w/ Line)

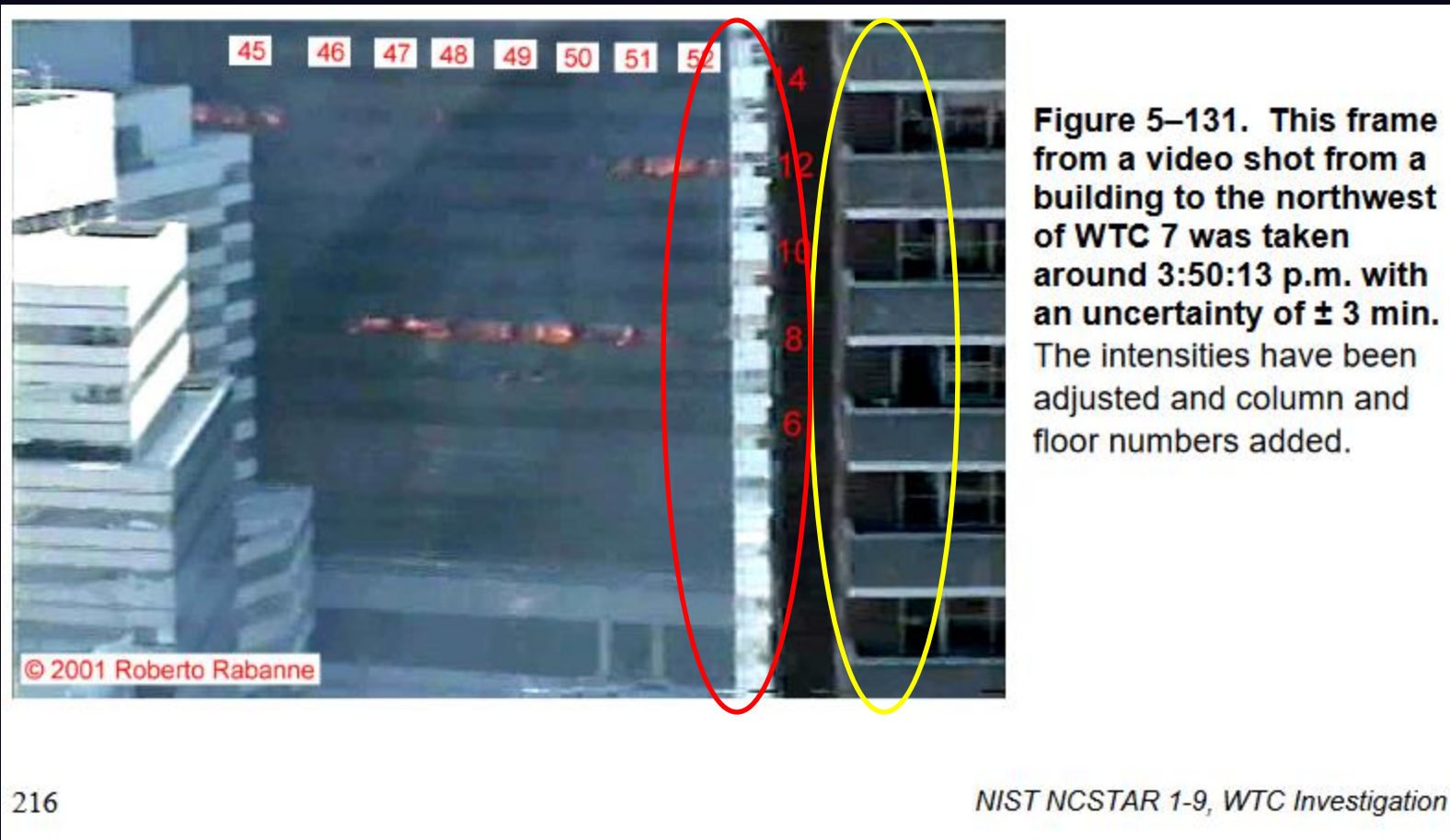


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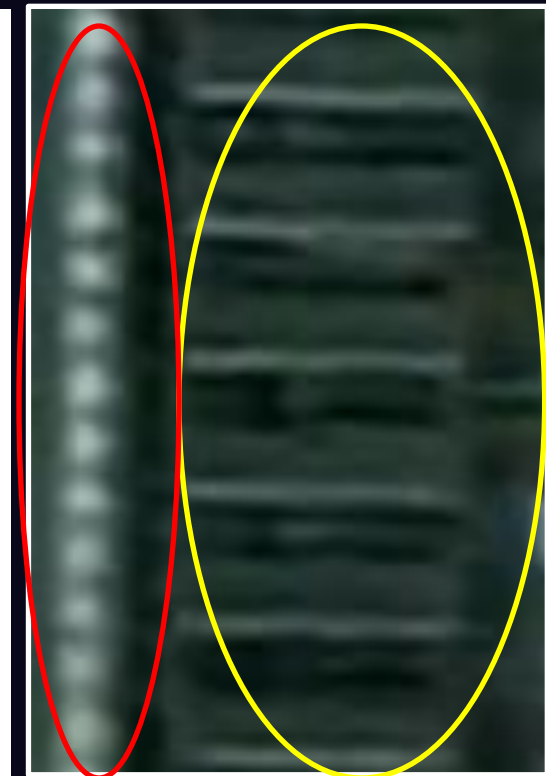
# Roberto Rabanne Screenshot in NCSTAR1-9



# Clear NCSTAR1-9 Version vs FOIA Release



Figure 5-131. This frame from a video shot from a building to the northwest of WTC 7 was taken around 3:50:13 p.m. with an uncertainty of  $\pm 3$  min. The intensities have been adjusted and column and floor numbers added.



**Best FOIA copy available has details obliterated**



A significant ejection from WTC 7

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# Analysis of WHC 7 Collapse

- Screenshots used in the NIST NCSTAR reports
- Shows ejections from middle floors
  - Approximately 22-24

- Video can be seen at:

<https://www.youtube.com/watch?v=m4SSGQ-Hf8c>

# Original Fox WTC Collapse Video

0.00



**My guess is that the videographer heard a boom and turned his camera on quickly – (e.g., initiation sequence started)**

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# Original Fox WTC Collapse Video

0.00



Same time – note the penthouse roofline

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0.25



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# Original Fox WTC Collapse Video

0.50



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0.75



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# Original Fox WTC Collapse Video

1.00



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# Original Fox WTC Collapse Video

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# Original Fox WTC Collapse Video

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1.75



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# Original Fox WTC Collapse Video

2.00



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3.00



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# Original Fox WTC Collapse Video

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# Original Fox WTC Collapse Video

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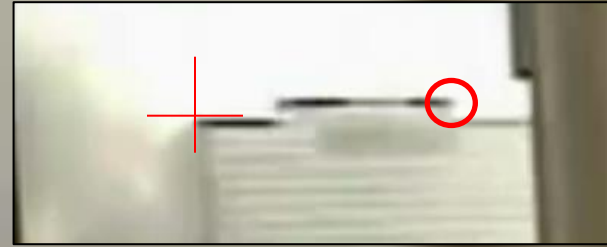
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# WTC Ejections onto Fiterman Hall

- The following is an analysis of the previous hand-held video
  - Stabilized
  - Annotated
- If the roofline is outside the stabilized frame
  - Shown in the top right corner
  - Ejection precedes movement of the penthouse
- Will go back and forth over these slides several times

0.00

Penthouse has horizontal roofline.  
Signs of ejected cloud.

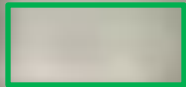
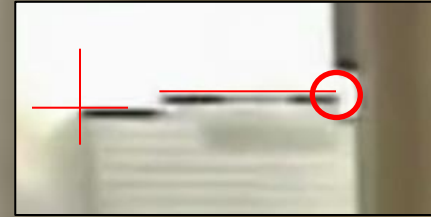


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0.25

Penthouse has horizontal roofline.  
Signs of ejected cloud.



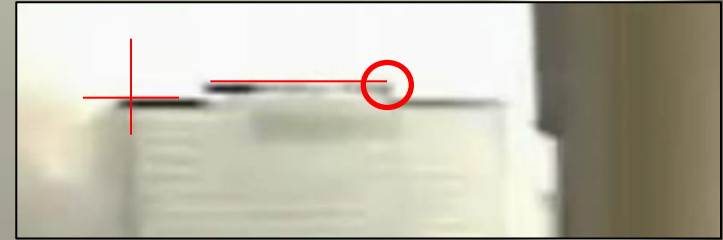
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0.50

Penthouse has horizontal roofline.  
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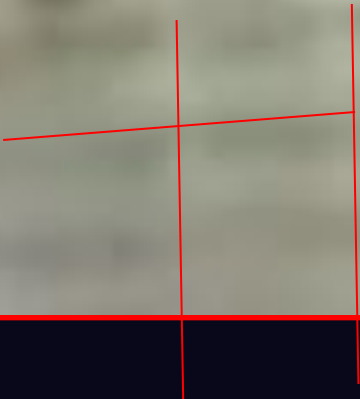
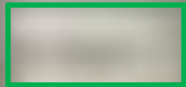
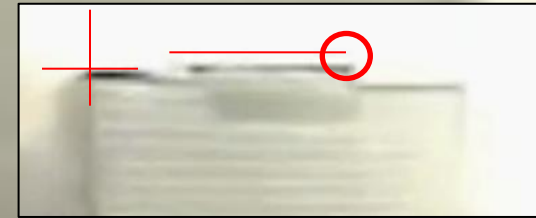


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0.75

Penthouse has horizontal roofline.  
Very limited detail is seen in ejected cloud.

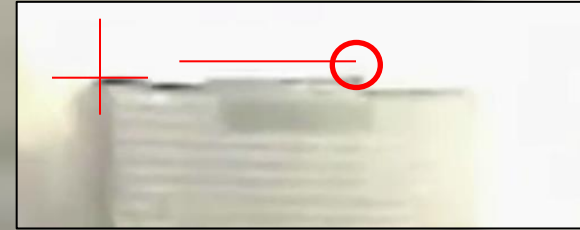


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1.00

Penthouse is clearly distorted.  
Limited detail is now seen in ejected cloud.

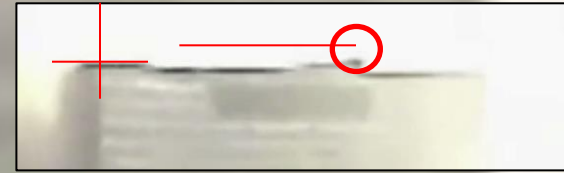


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1.25

Last view of the roofline in this video.  
Penthouse has clearly descended.  
Detail is now seen in ejected cloud (and  
penthouse has barely moved).



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2.00

Ejected cloud is clearly engulfing Penthouse of Fiterman Hall. Only 1 second from deformed roofline. I guess this is over 100 ft/sec for a dust cloud (if it started at the time the penthouse began to be deformed)



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Another View of Mid-Structure Ejections

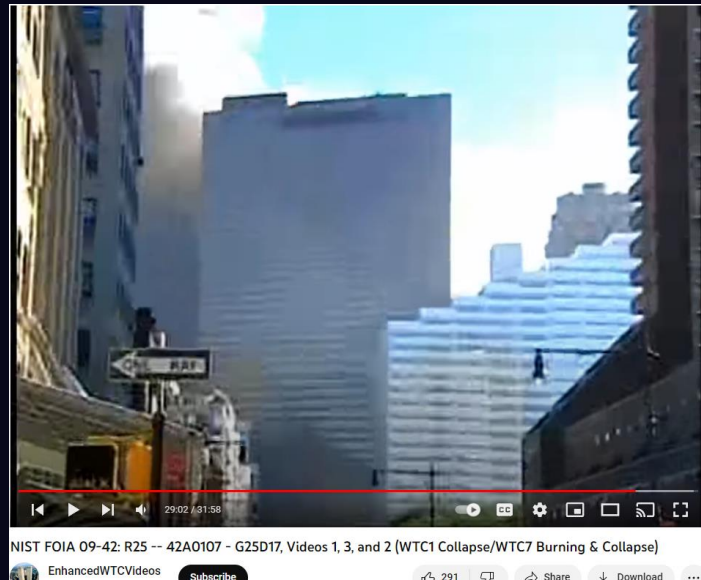
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# Another View of Mid-Structure Ejection

These three screen-shots will be overlaid after resizing. Camera is, apparently, in a moving vehicle



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Fiterman Hall

NIST FOIA 09-42: R25 -- 42A0107 - G25D17, Videos 1, 3, and 2 (WTC1 Collapse/WTC7 Burning & Collapse)

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Detailed Measurements

# THE PENTAGON

Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower



# Satellite Photo From Friday, Sept 7, 2001



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

# Baseline Dimensions

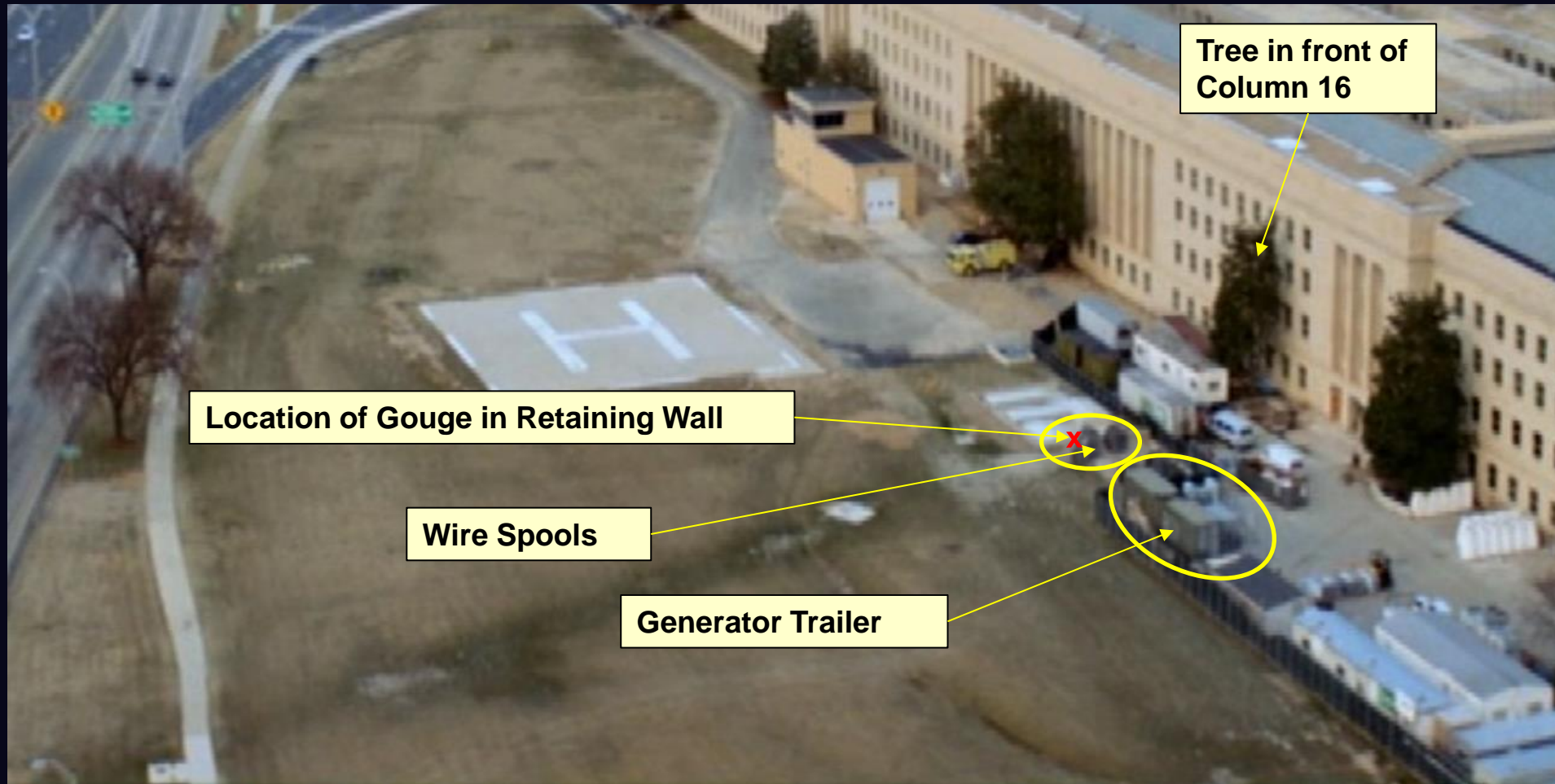


Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower



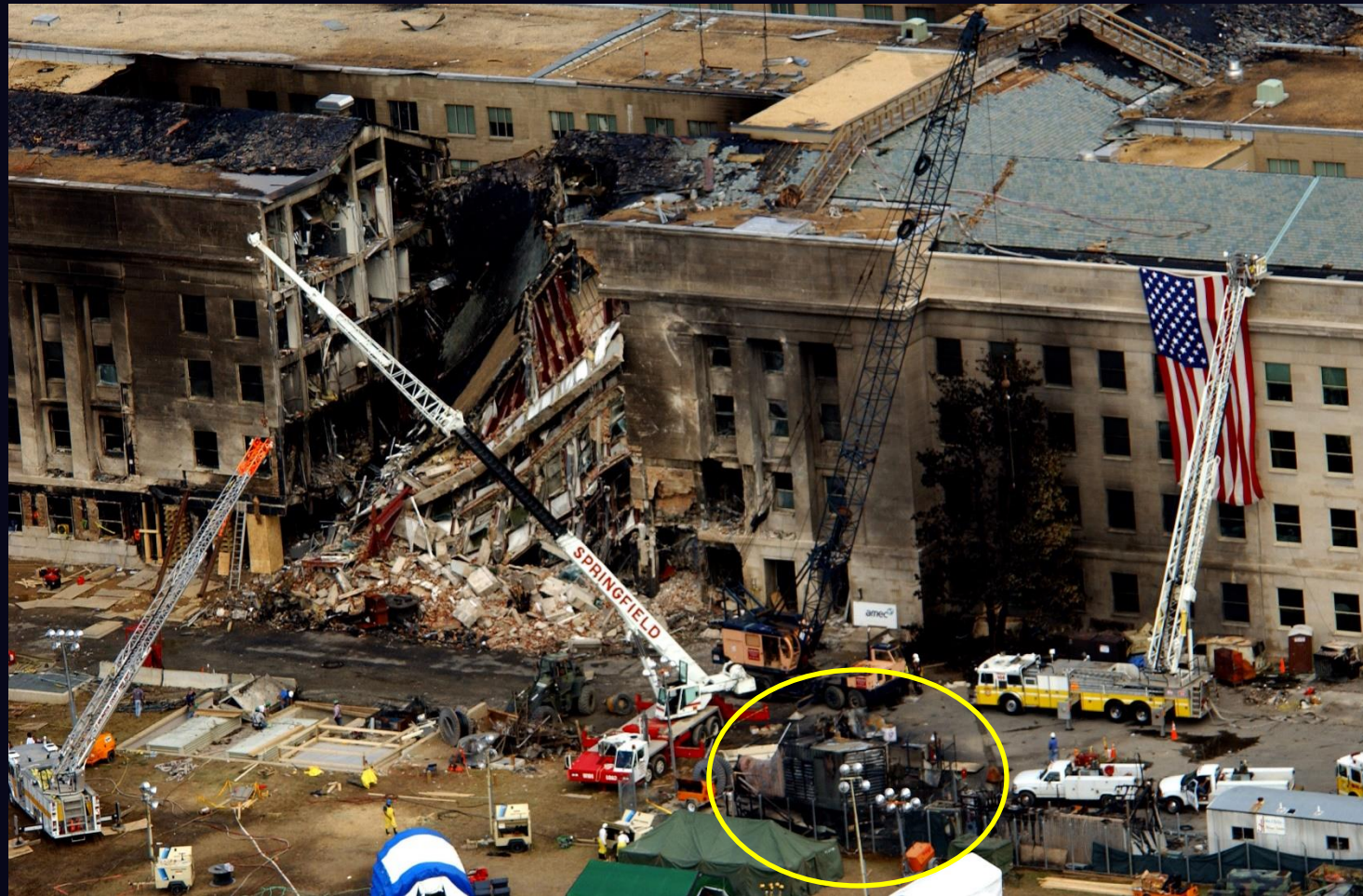
# Diesel Generator Trailer



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

# Diesel Generator Trailer

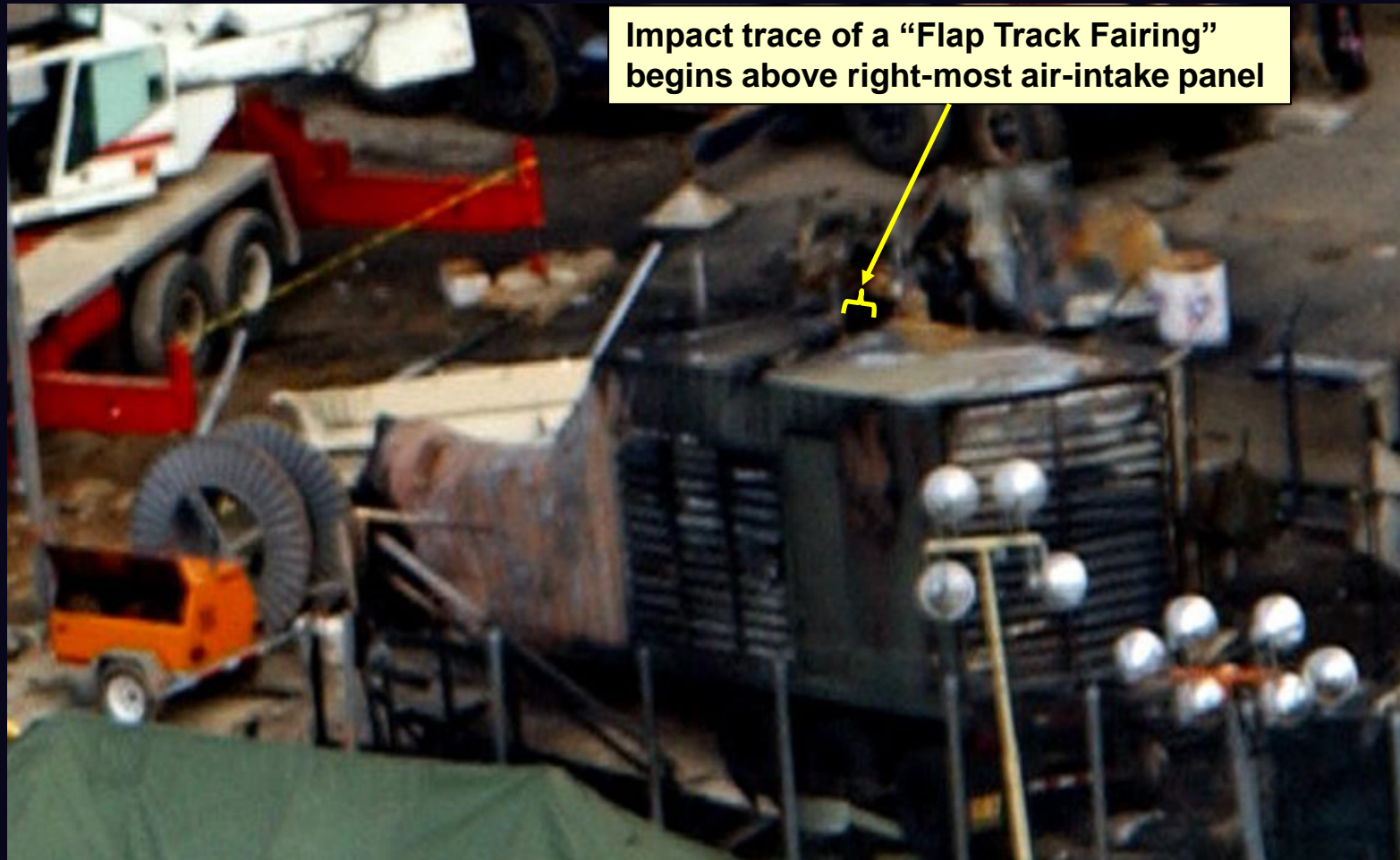


Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower



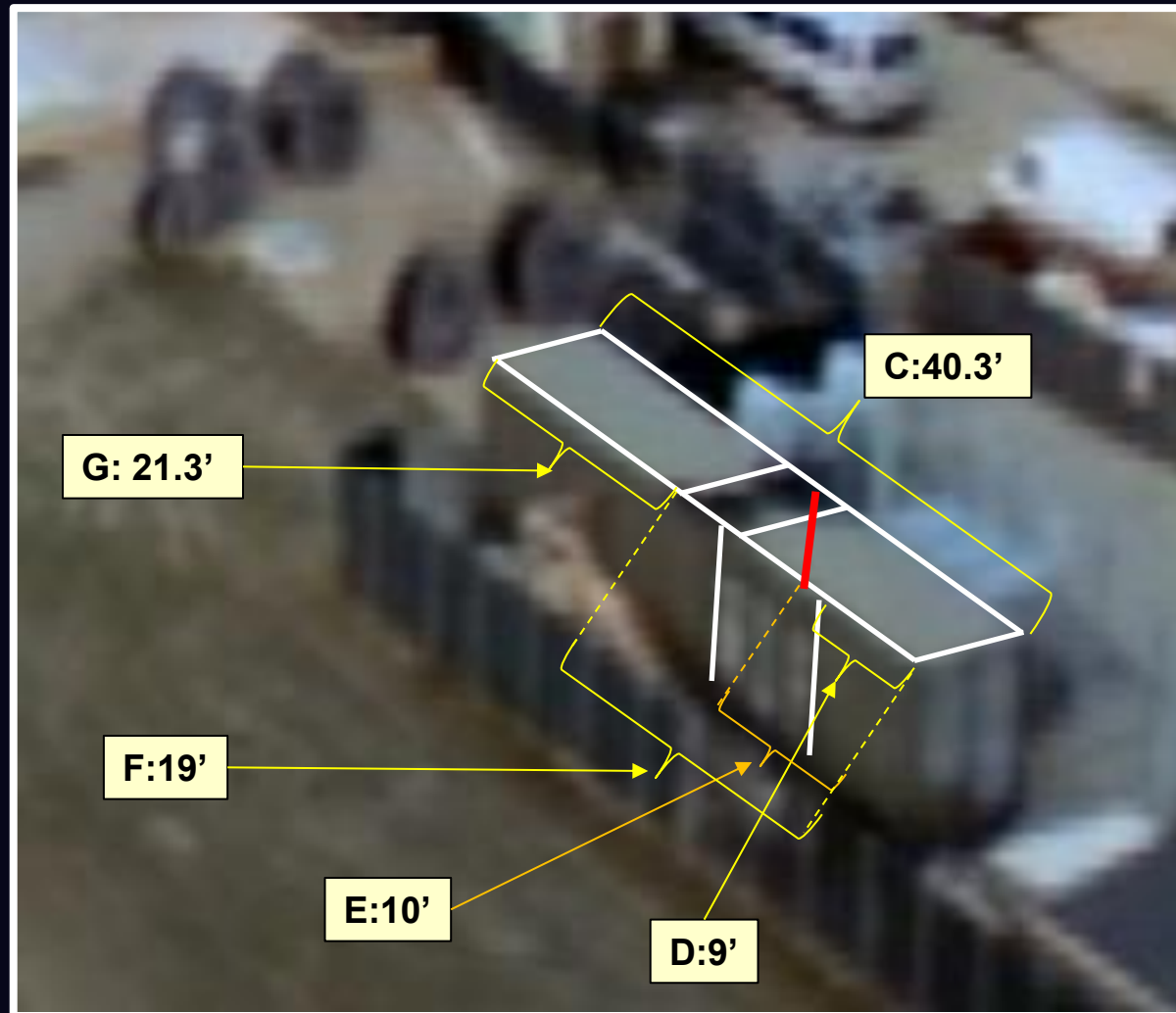
# Impact trace of a “Flap Track Fairing”



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and the East Face of the South Tower

# Dimensions of the Generator Trailer



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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 100

# Front of Trailer's Roof Sheared-off

About half of the roof sheared off ( e.g., ~20' )



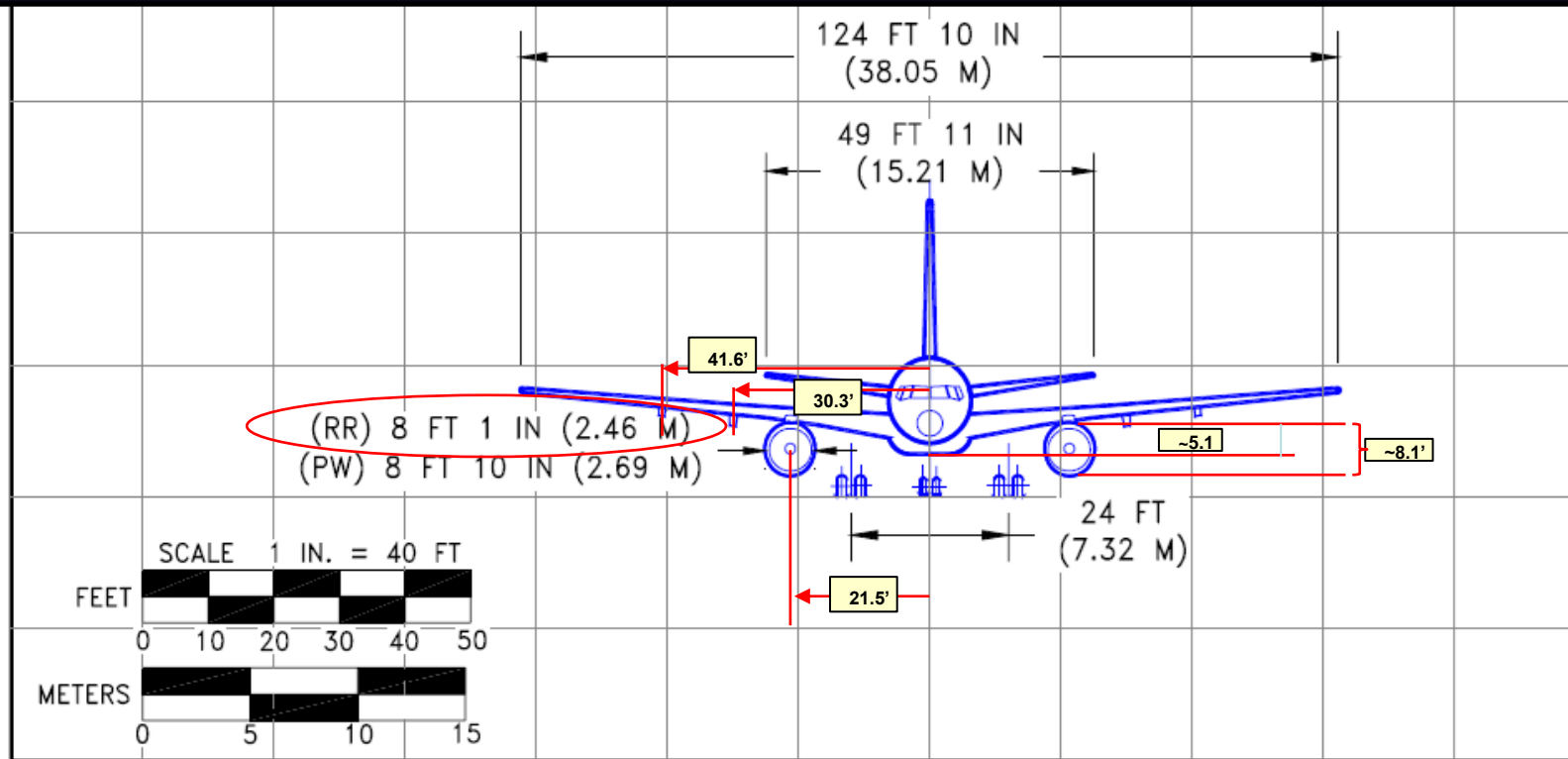
Roof of trailer clearly pushed consistent with the direction of plane impact

Pushed-over side trailer for about 1/2 length of the trailer

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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

# Boeing 757-200 Dimensions

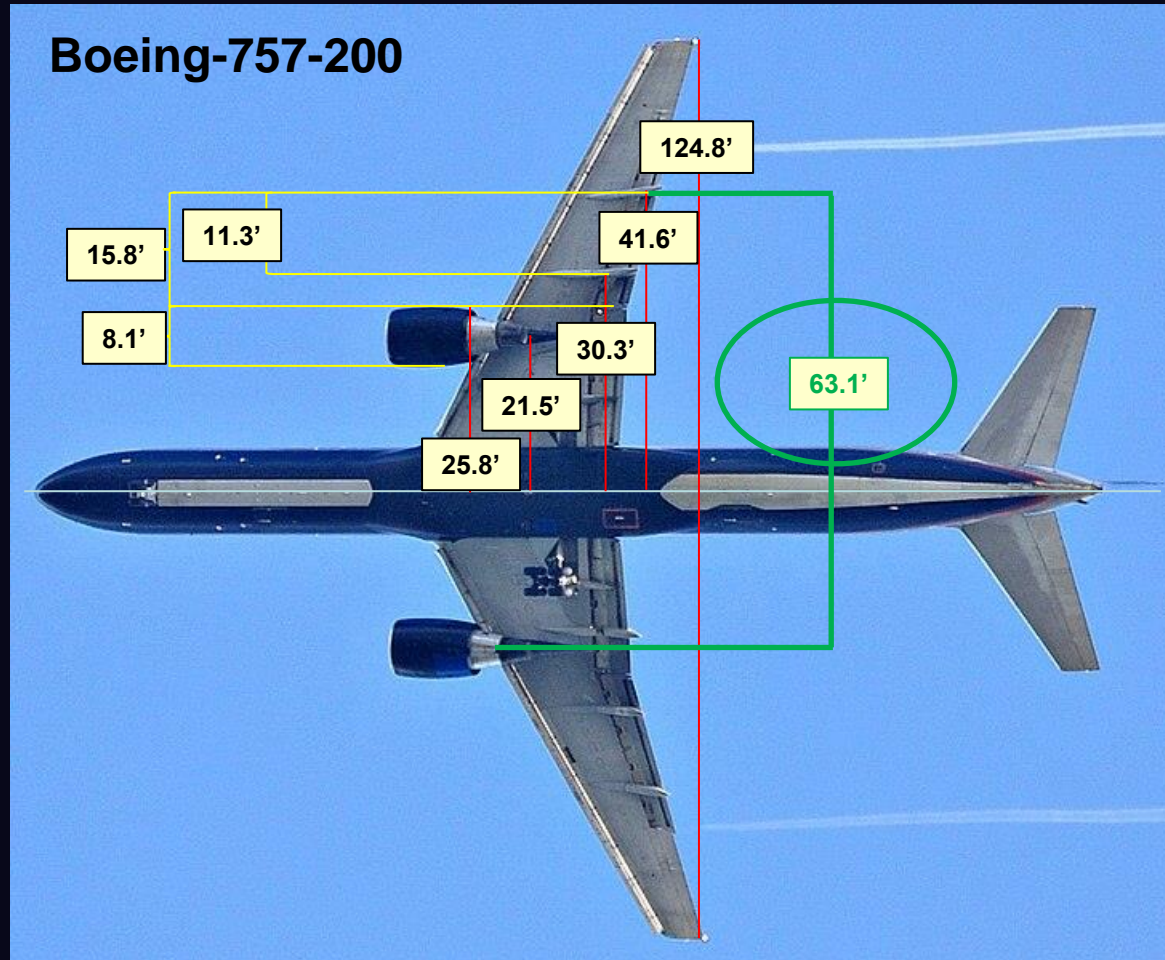


## 2.2.1 GENERAL DIMENSIONS

MODEL 757-200, -200PF



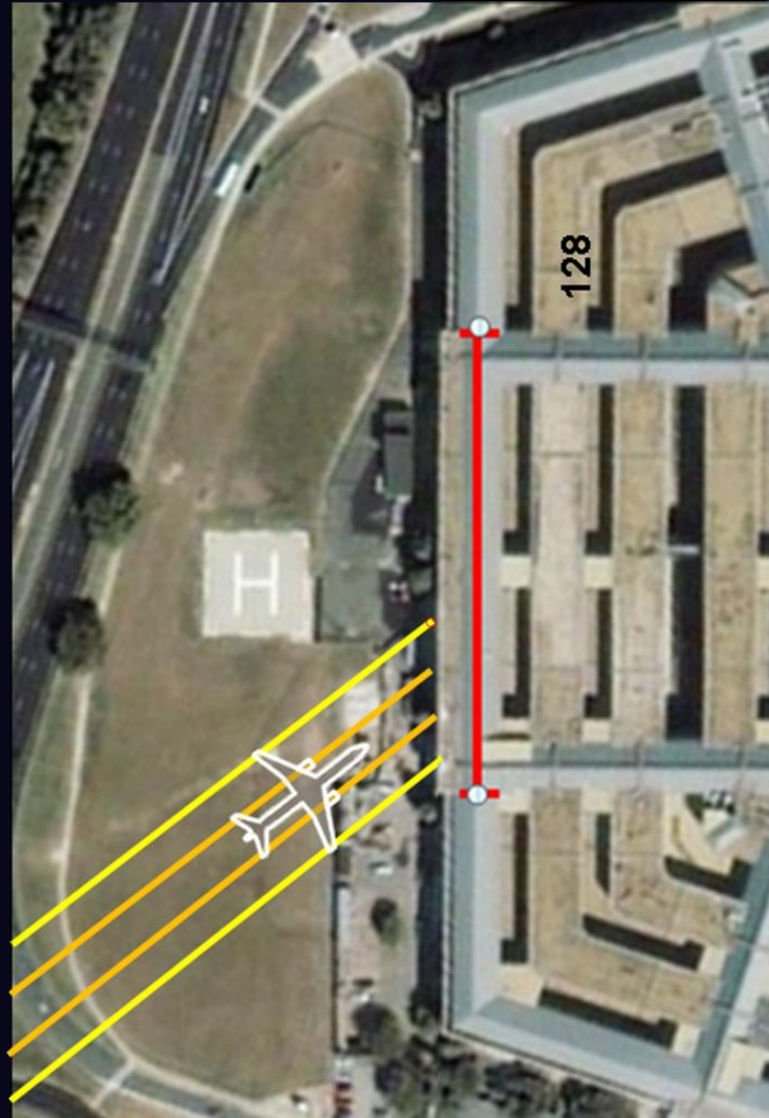
# Boeing 757-200 Dimensions



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# Approach Path of the Impacting Aircraft



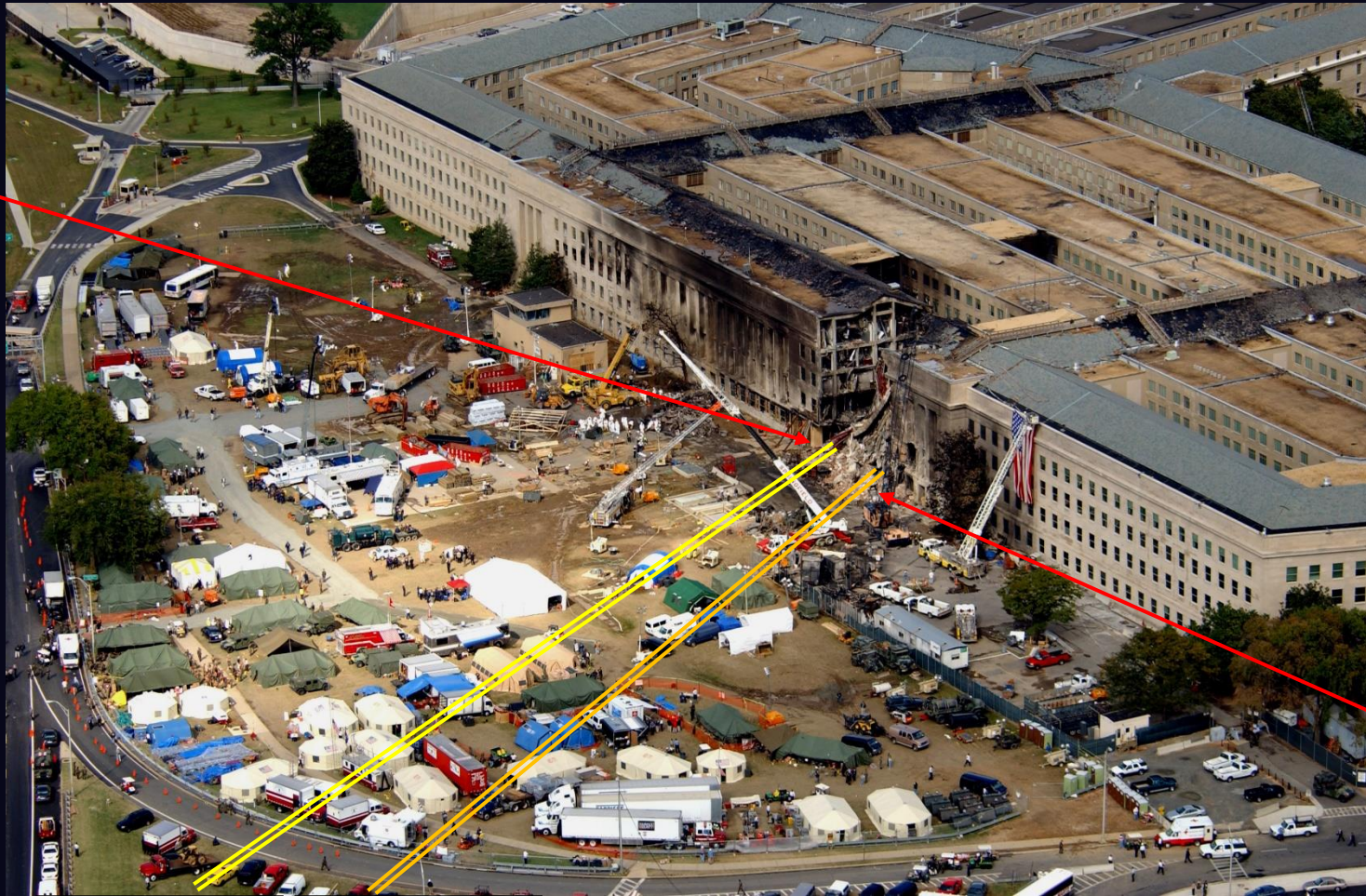
Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 104



# Right Engine Passes Along-side of Generator

Location of  
left engine  
impact between  
Columns 11 and 12  
at middle first-floor



Location of  
right engine  
impact to left of  
Column 18  
at middle first-floor

Left engine

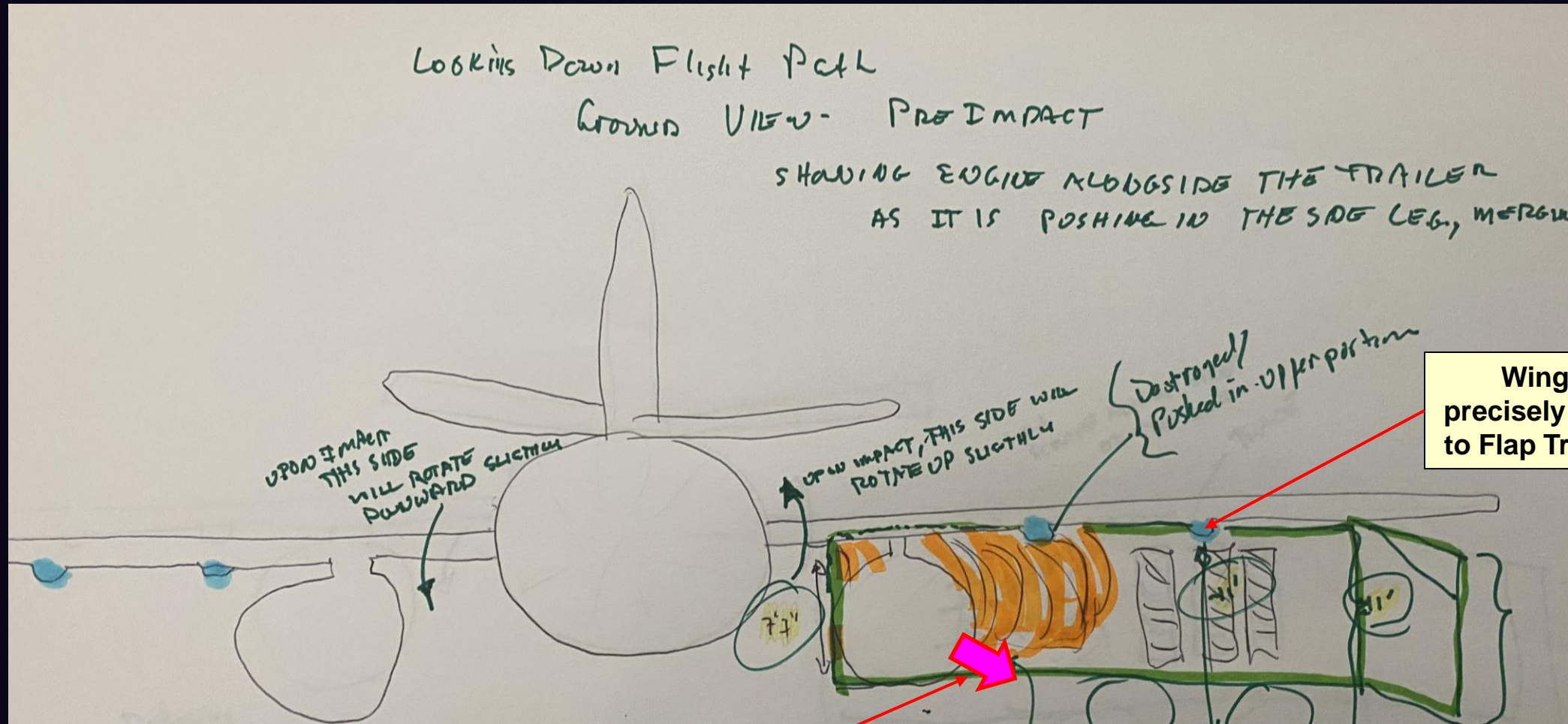
Right engine

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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 105



# Right Engine Passes Along-side of Generator



Wing height precisely known due to Flap Track Fairing

Impact forces the trailer frame to the right and down (Trailer suspension will then cause a bounce-back that will move trailer further to right)

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# Baseline Dimensions Showing Outer Fairing



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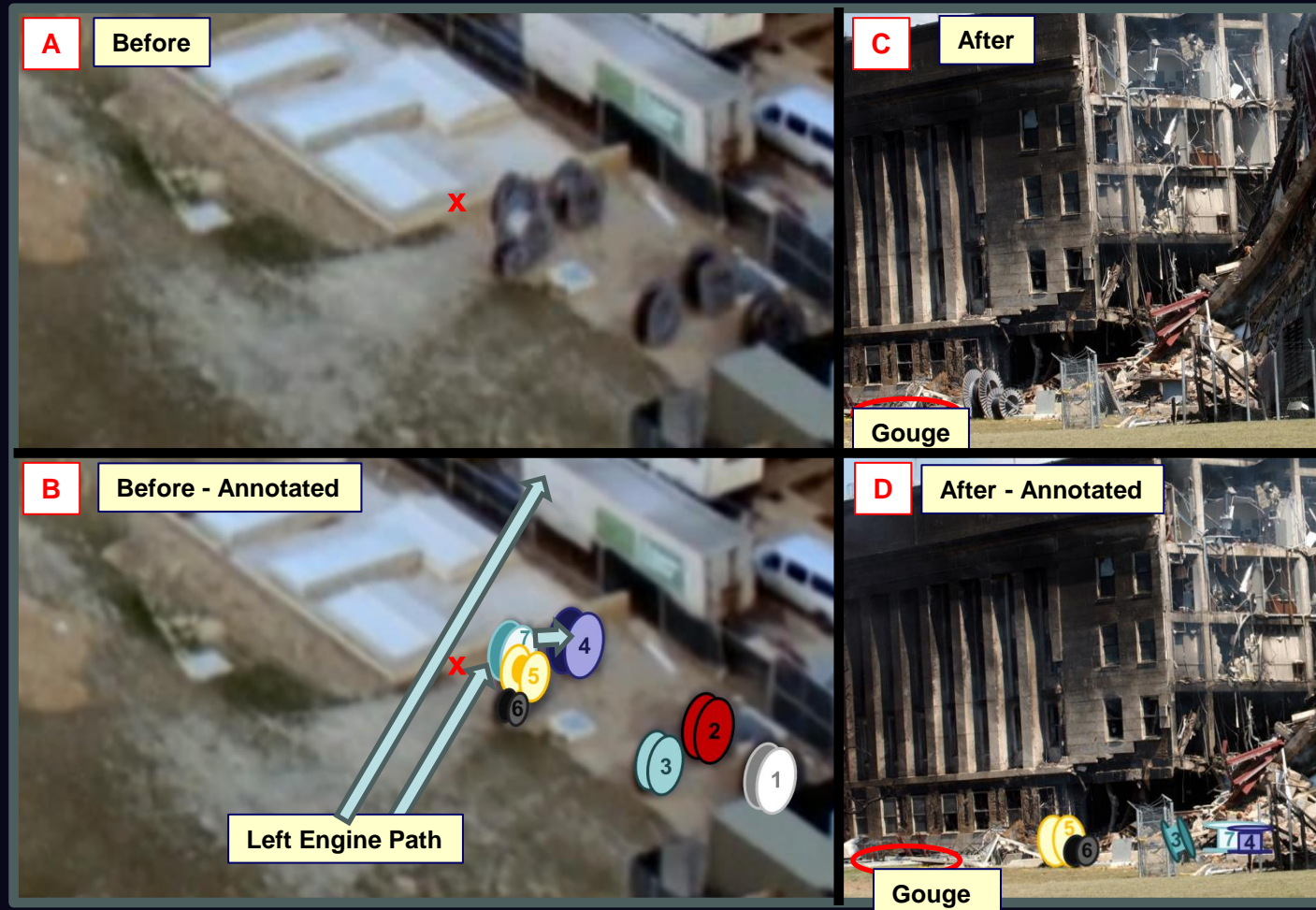
Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 107

# Location of Left Engine vs. Right Fairing





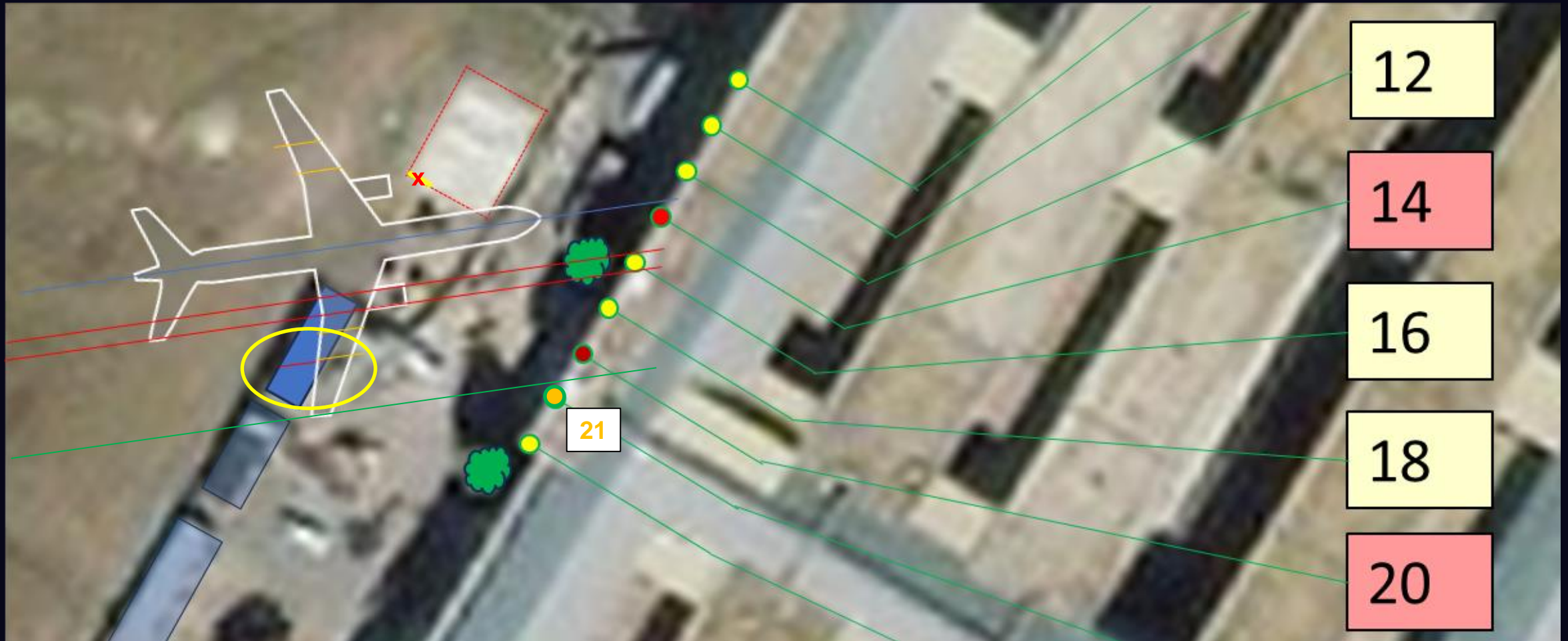
# Wire Spool #7 Impacted; Then Hits Spool #4



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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

# 757 Fairings Location Align Perfectly



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and the East Face of the South Tower



# Initial Direction of Trace



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and the East Face of the South Tower

# After Dynamic Generator Trailer Rotation



Trailer appears to have rotated about 32 degrees

The generator trailer is not a solid block of steel, but rather, it's a rectangular steel cover over a frame – with equipment inside.

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and the East Face of the South Tower



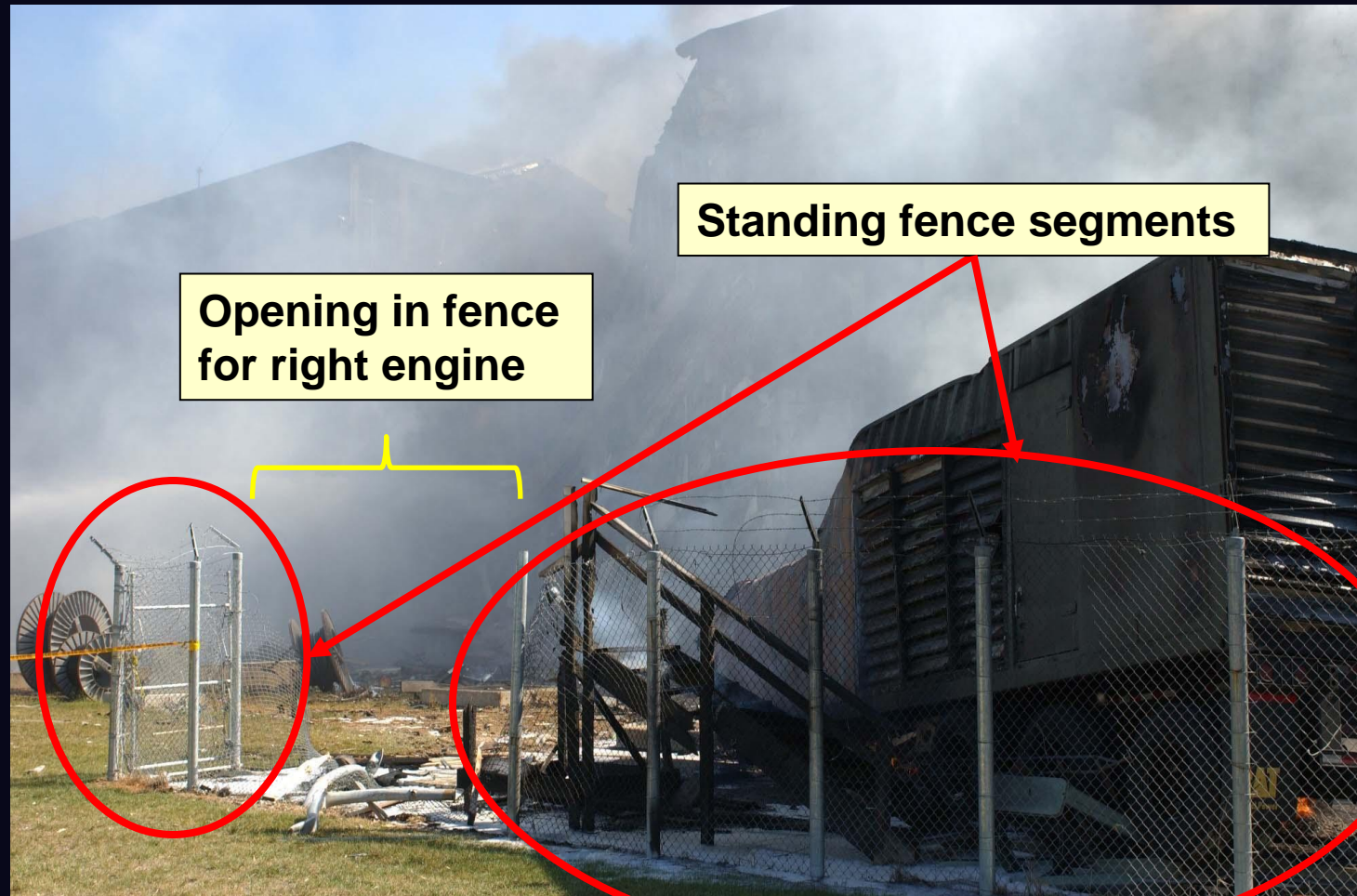
# Right Wing Impacts Column 20 Solidly



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and the East Face of the South Tower

# Opening in Fence For Right Engine



Standing fence segments

Opening in fence for right engine



# Summary

- Precision estimates are possible at the Pentagon
  - Estimated resolution of about +/- one foot
- Trace of Flap Track Fairing precisely establishes
  - Horizontal location of wing along approach path
  - Vertical height of the right wing at the generator trailer
- Path of left engine exactly impact wire spool #7
  - Knocks into wire spool #4
  - Passes by wire spools #5 and #6

The Case for Propelled Demolition

# **EAST FACE OF THE SOUTH TOWER**

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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

# South Tower Provides Many Details to Study

- Rotates about 22 degrees as it hinges from west side
  - Hinging effect is clearly seen
  - Zone 1 of east side rotates into stationary Zone 2
  - Many interesting observations can be made
- Will review sequences from
  - Onno Dejong video
  - Riviere video
    - Dean Riviere/Skidmore, Owings & Merrill (SOM) LLP

The Case for Propelled Demolition

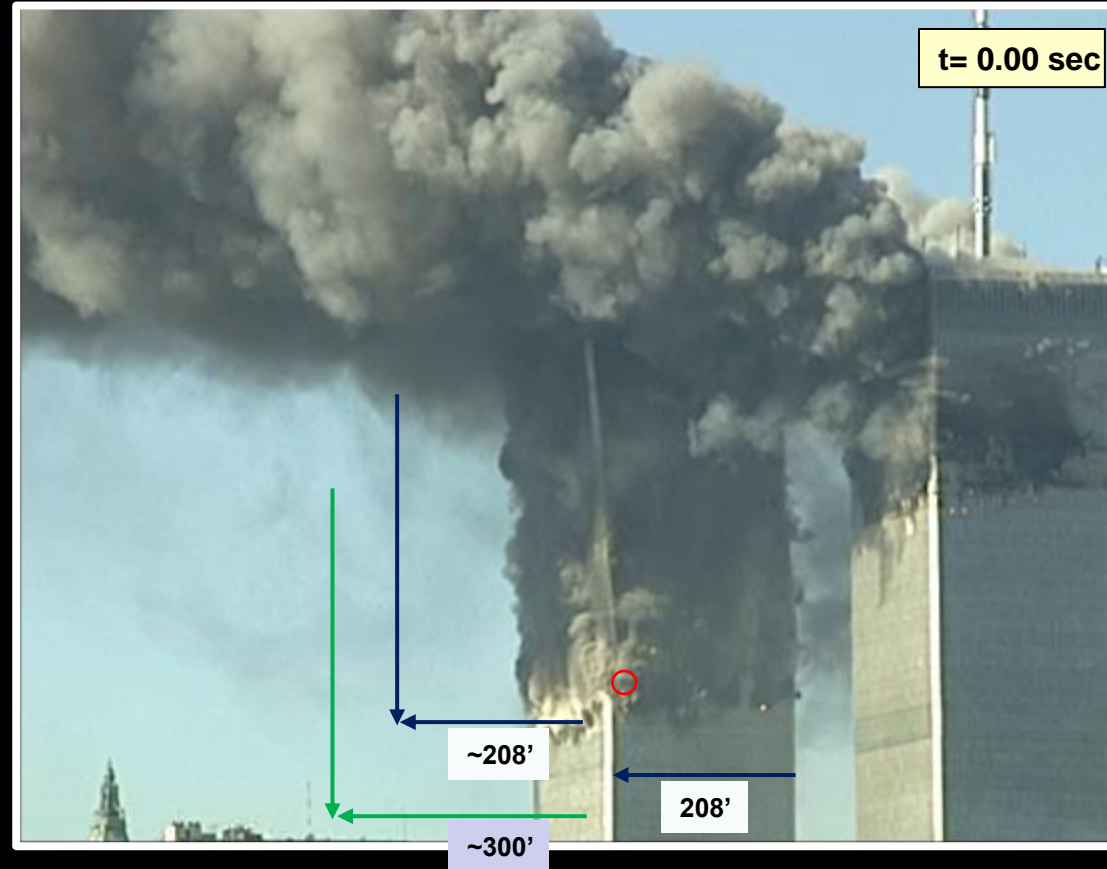
# ***ONNO DEJONG VIDEO OF THE SOUTH TOWER***

Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower



# DeJong: Initiation

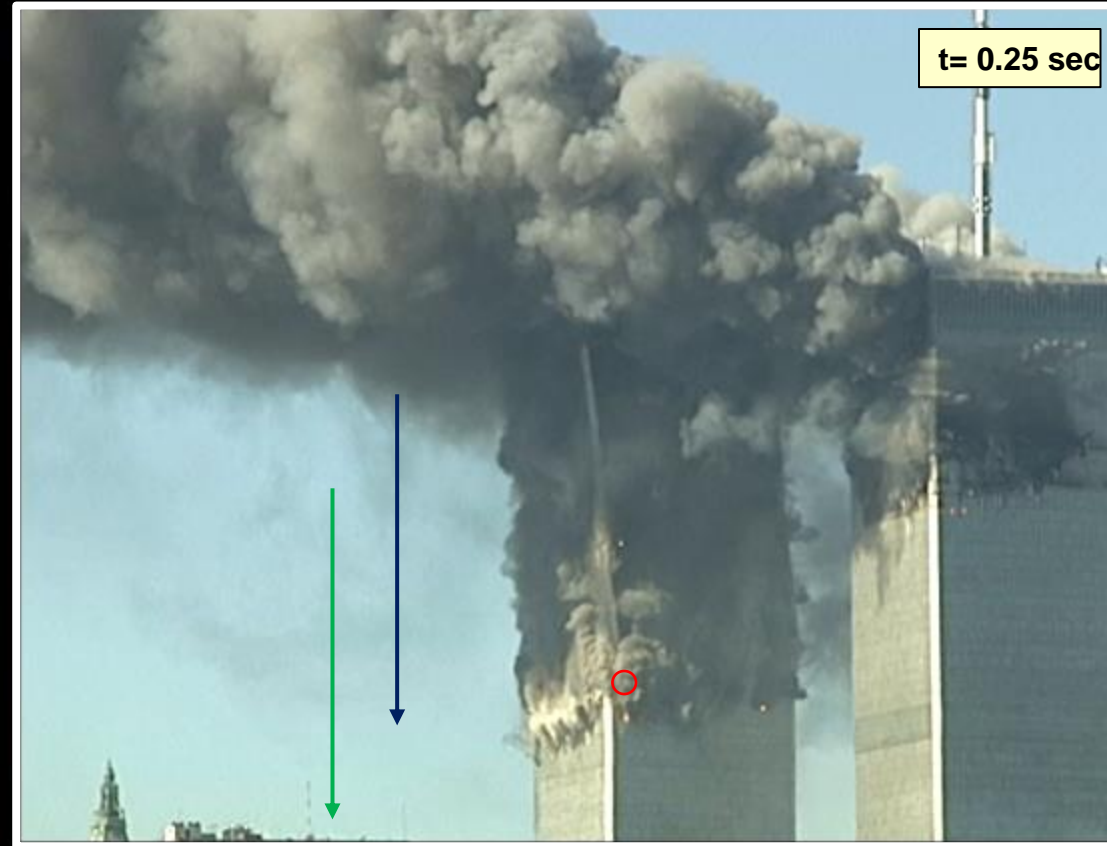


**Dimensions used in subsequent analysis**

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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

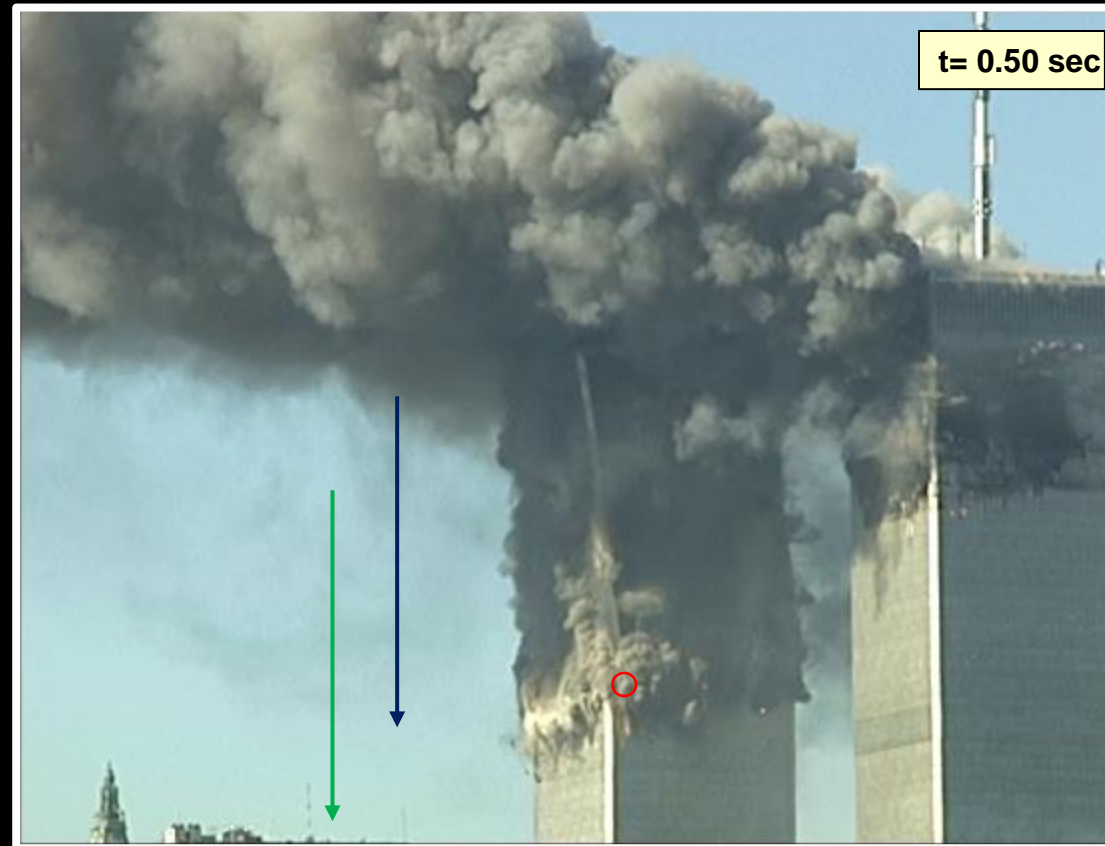
# DeJong: Initiation



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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 120

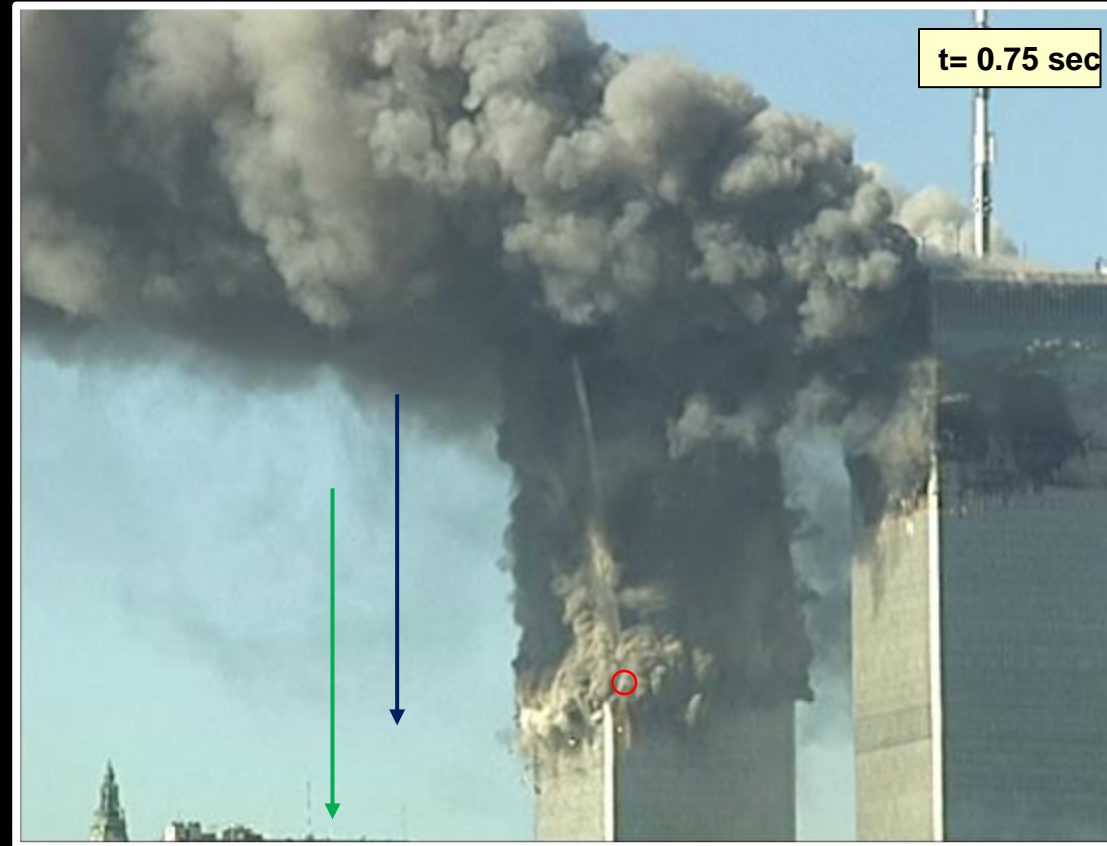
# DeJong: Initiation



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

# DeJong: Tower Tilts – Hinging Along West Side



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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 122



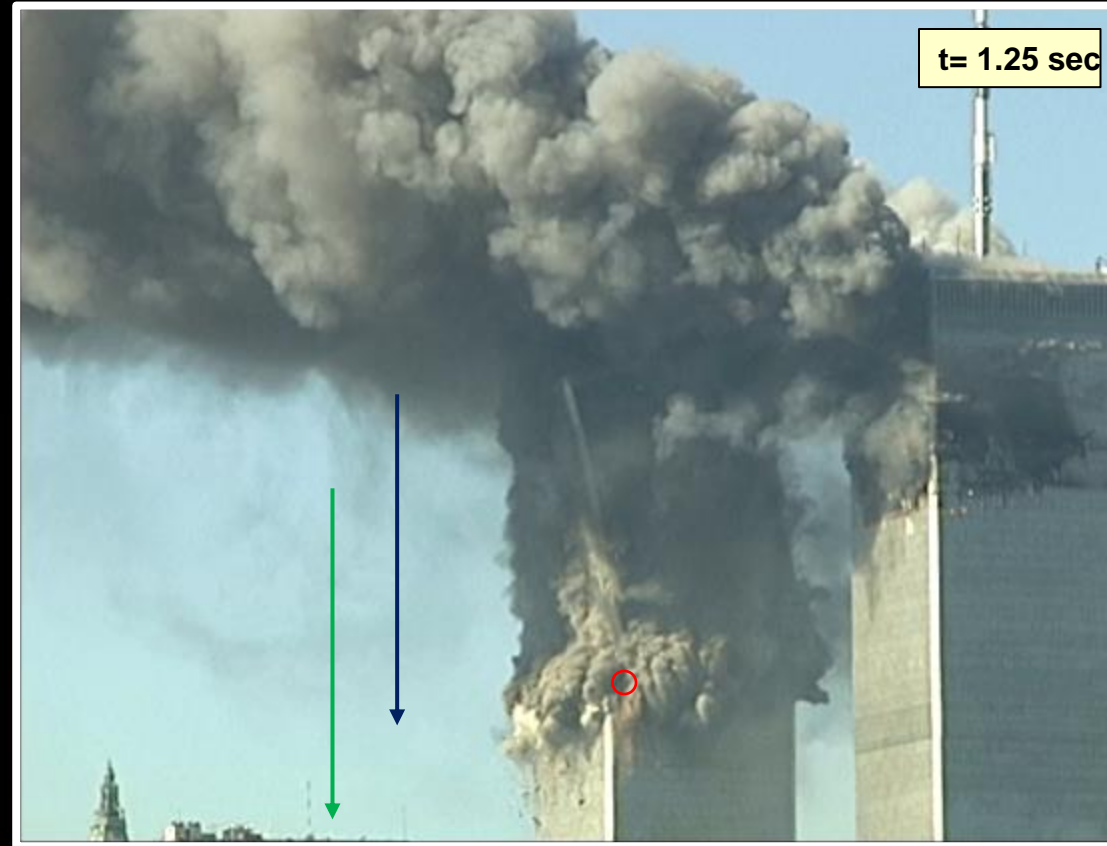
# DeJong: Tower Tilts – Hinging Along West Side



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 123

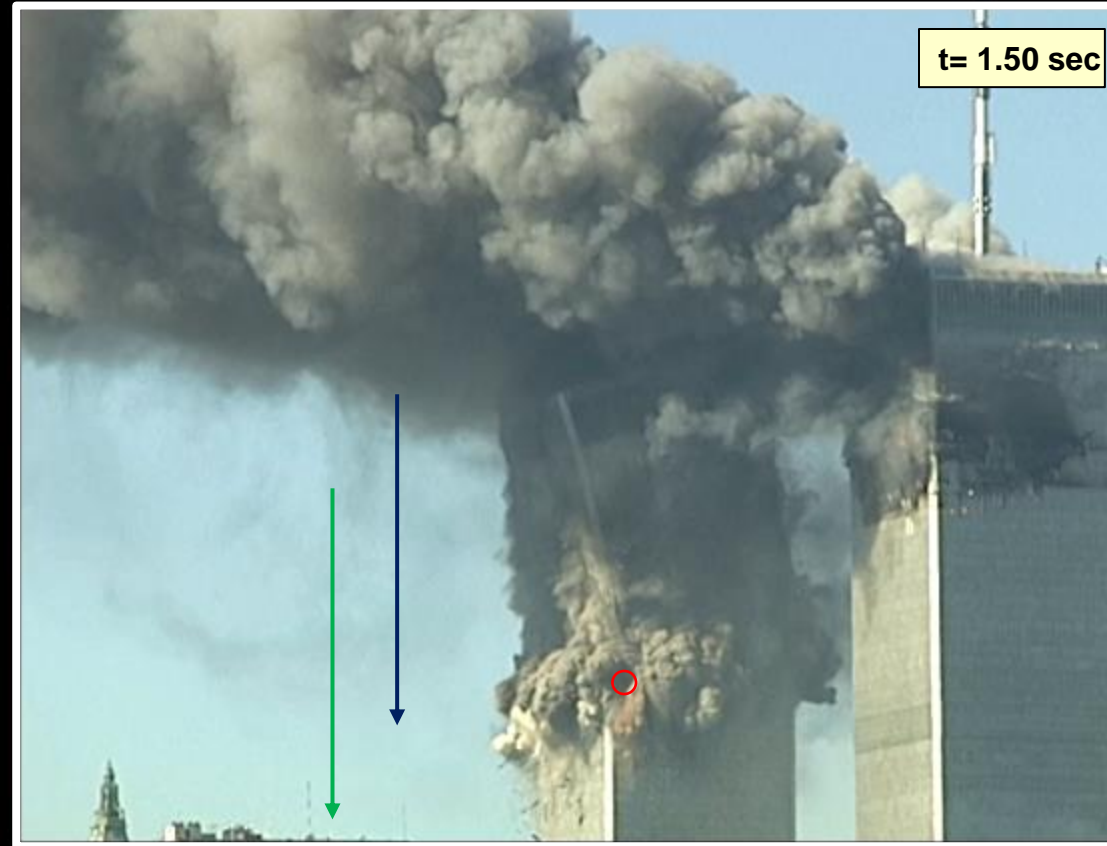
# DeJong: Tower Tilts – Hinging Along West Side



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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 124

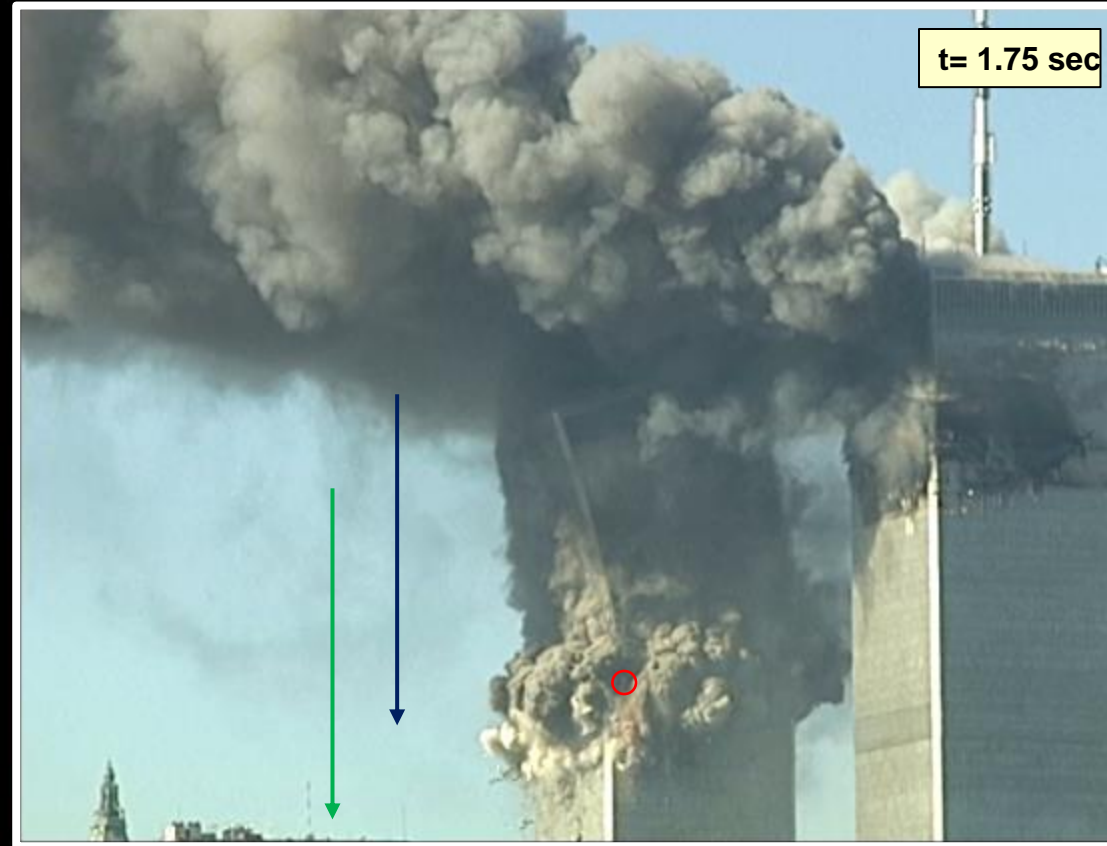
# DeJong: Tower Tilts – Hinging Along West Side



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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 125

# DeJong: Tower Tilts – Hinging Along West Side

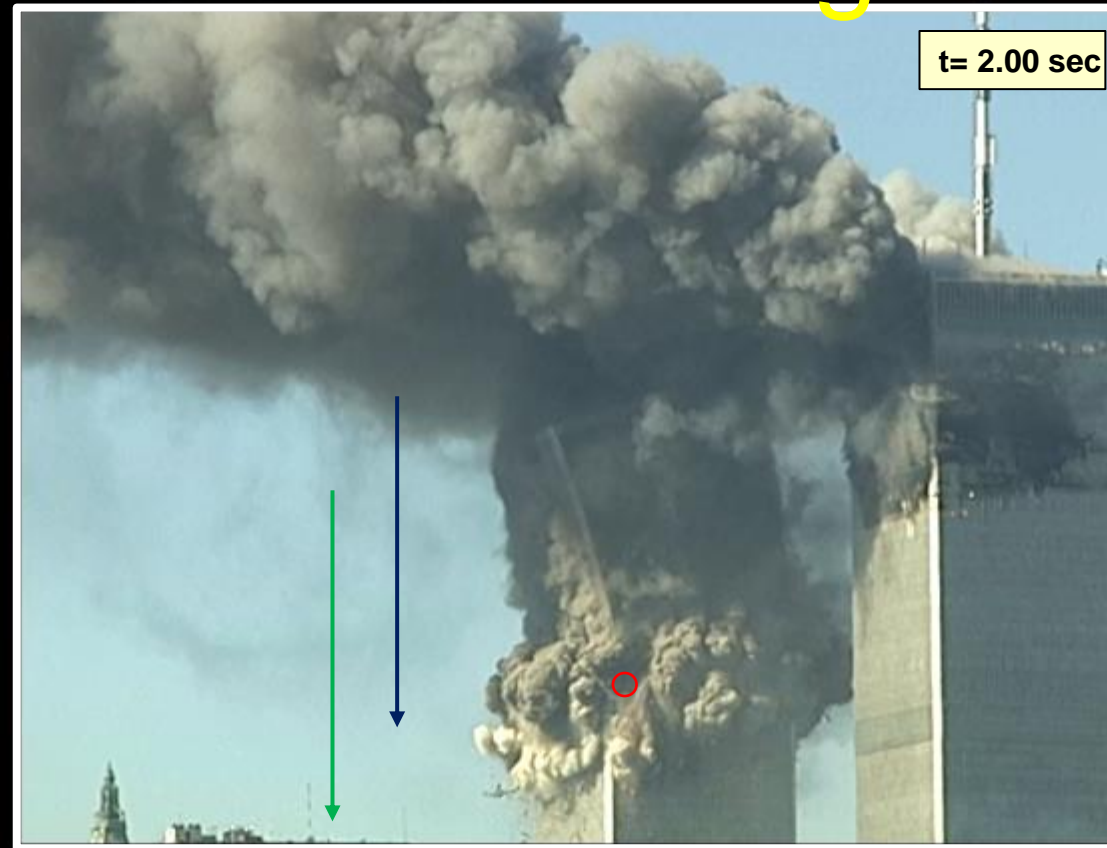


Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 126



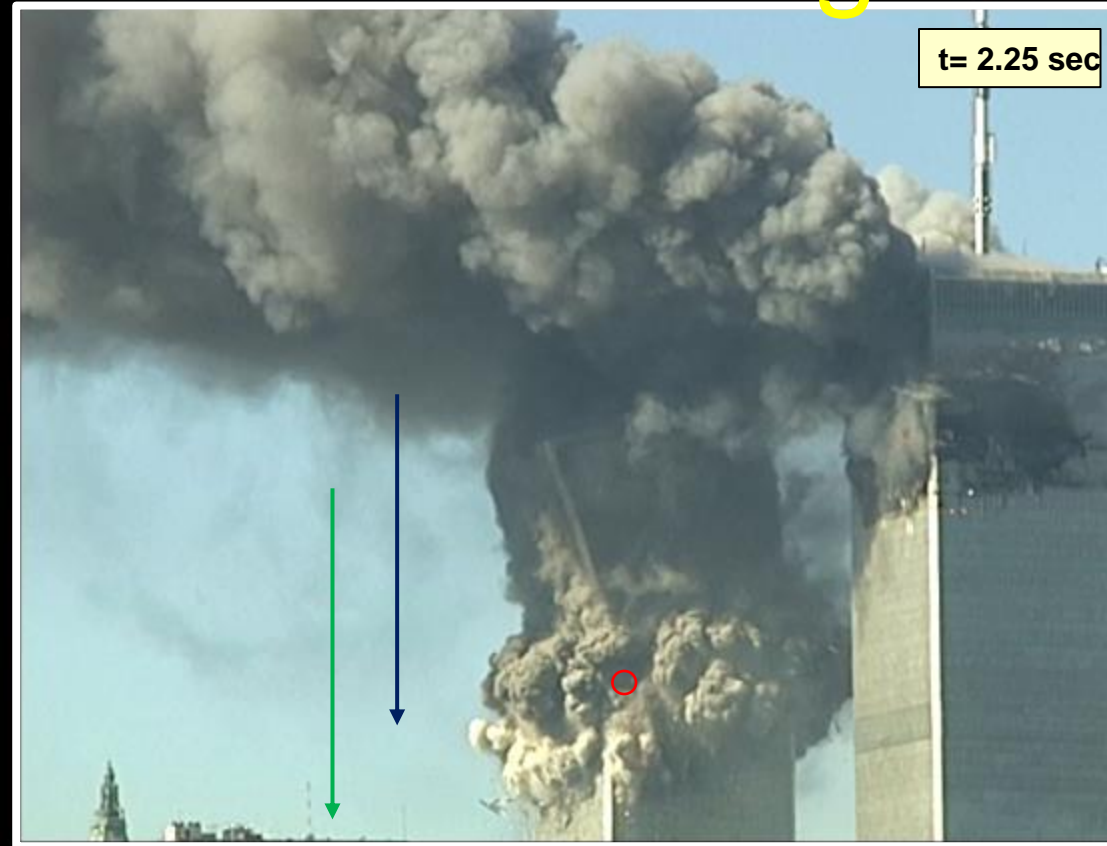
# DeJong: Tower Tilts and Begins Descending



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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 127

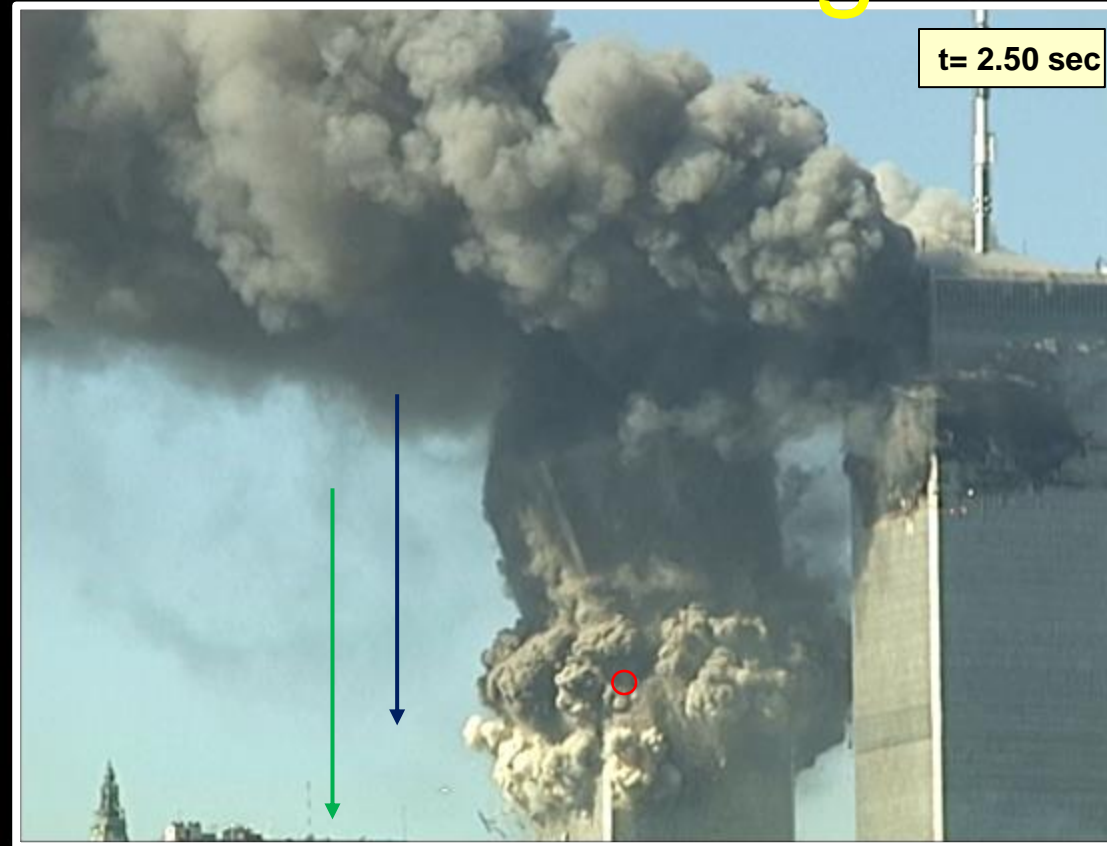
# DeJong: Tower Tilts and Begins Descending



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 128

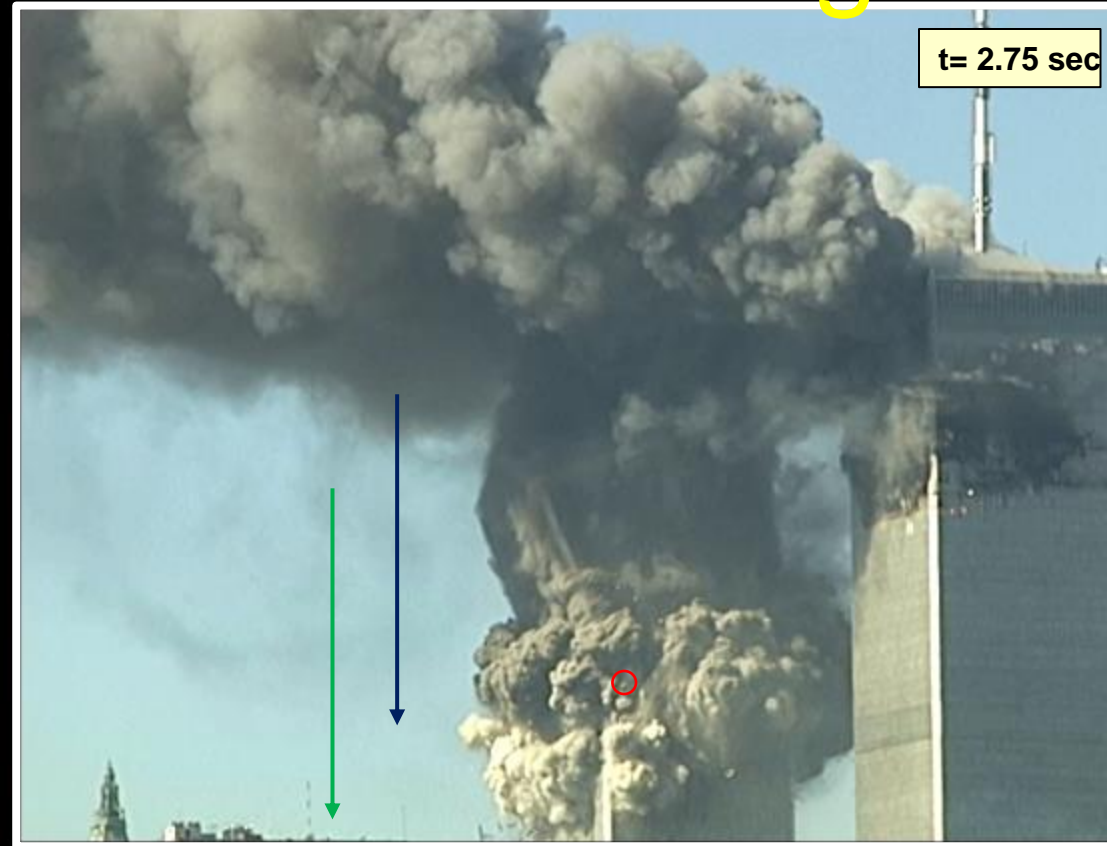
# DeJong: Tower Tilts and Begins Descending



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 129

# DeJong: Tower Tilts and Begins Descending

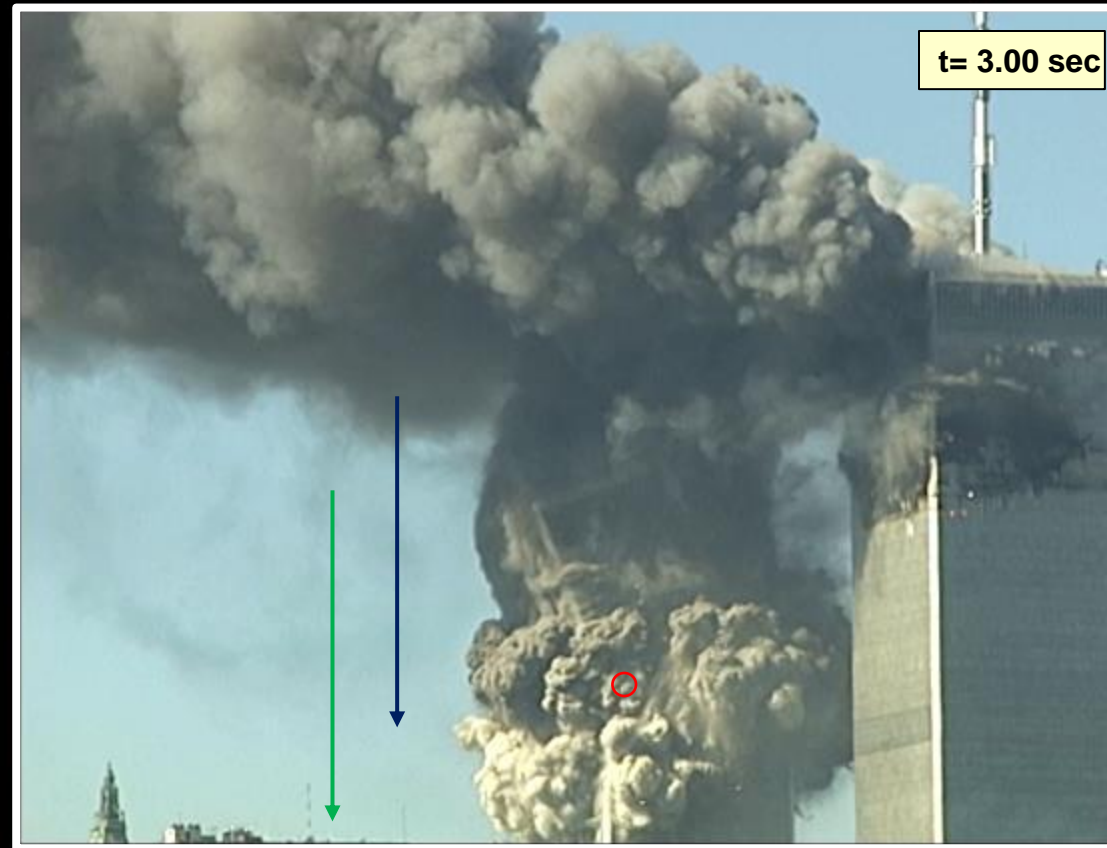


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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 130



# DeJong: Tower Demolition Moves Upward



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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

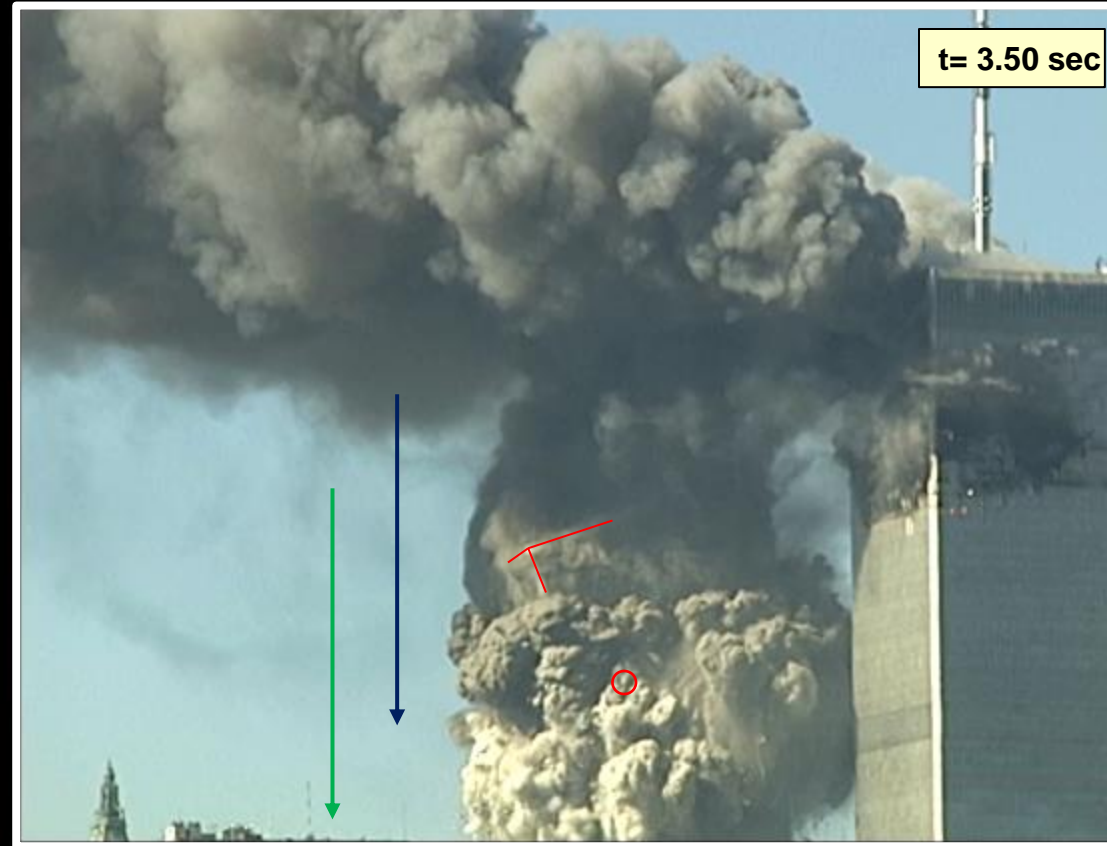
# DeJong: Tower Demolition Moves Upward



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

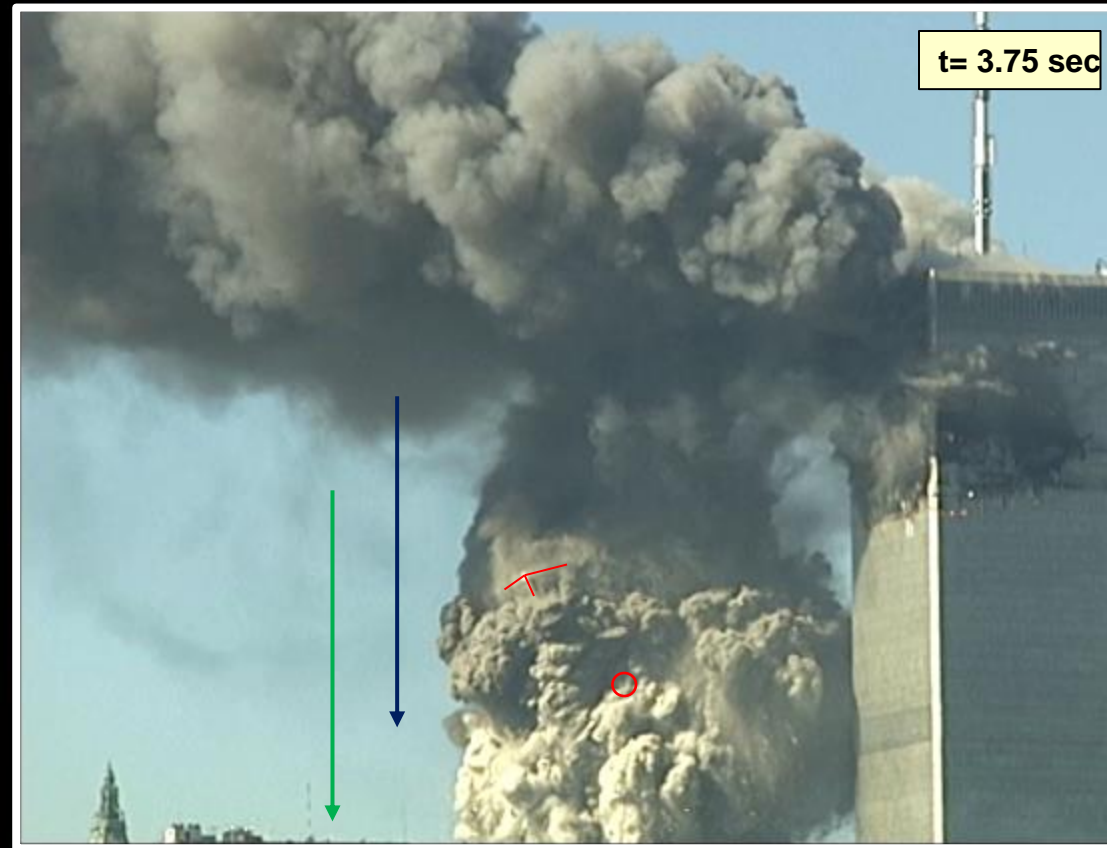
# DeJong: Tower Demolition Moves Upward



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 133

# DeJong: Tower Demolition Moves Upward

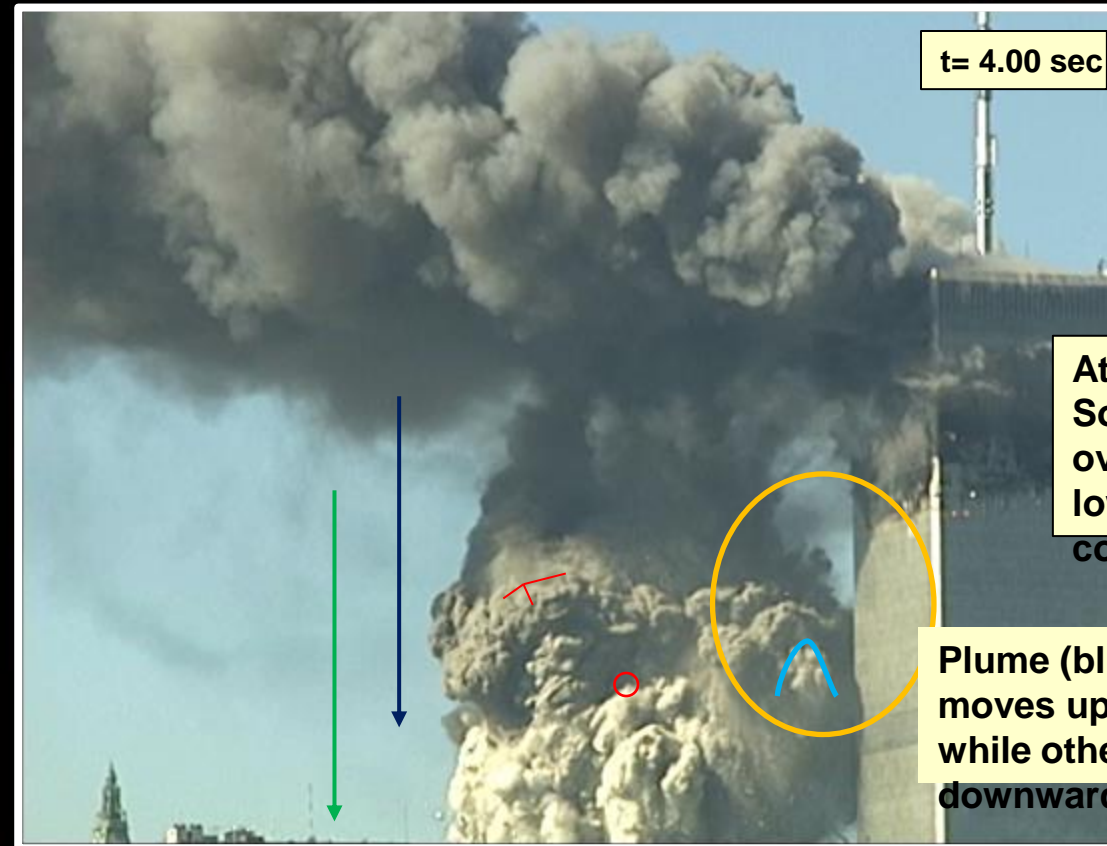


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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 134



# DeJong: Tower Demolition Moves Upward



t= 4.00 sec

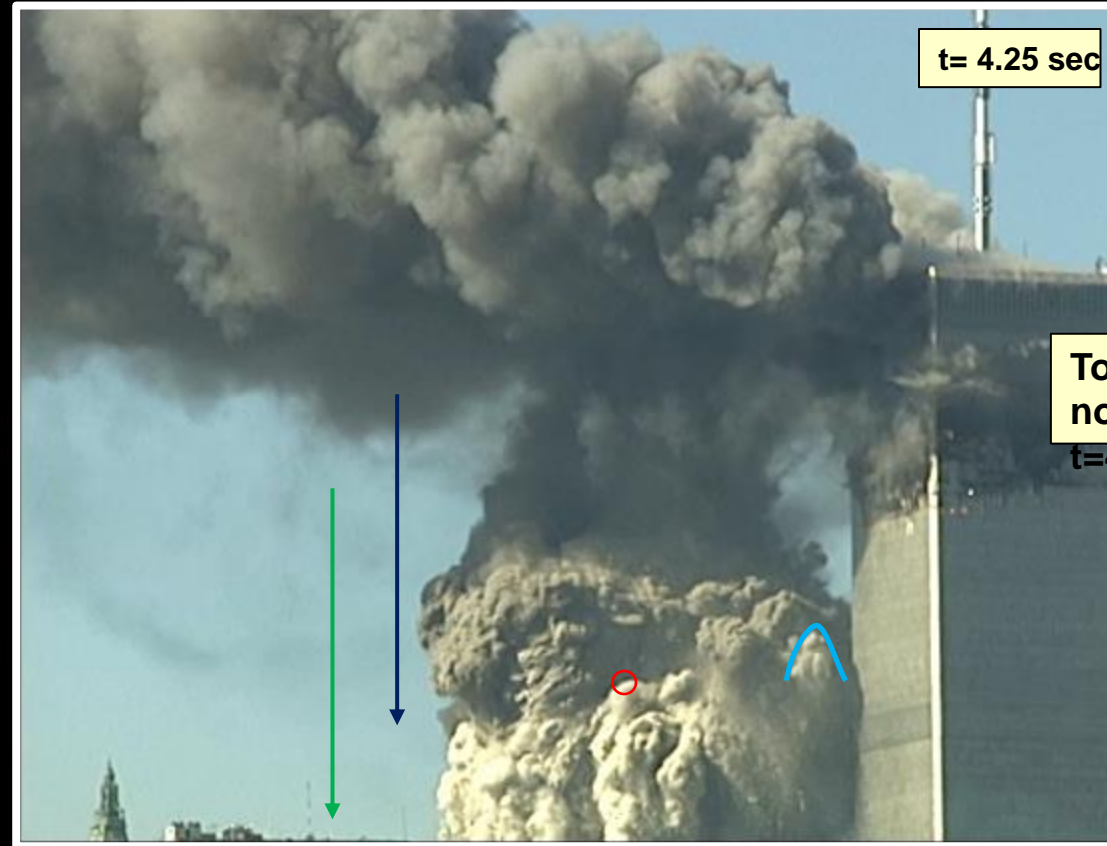
At this point, the top of South Tower is ~110 feet over the side of the lower (Zone 2) perimeter

Plume (blue highlighted) moves upward quickly while other debris falls downward

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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

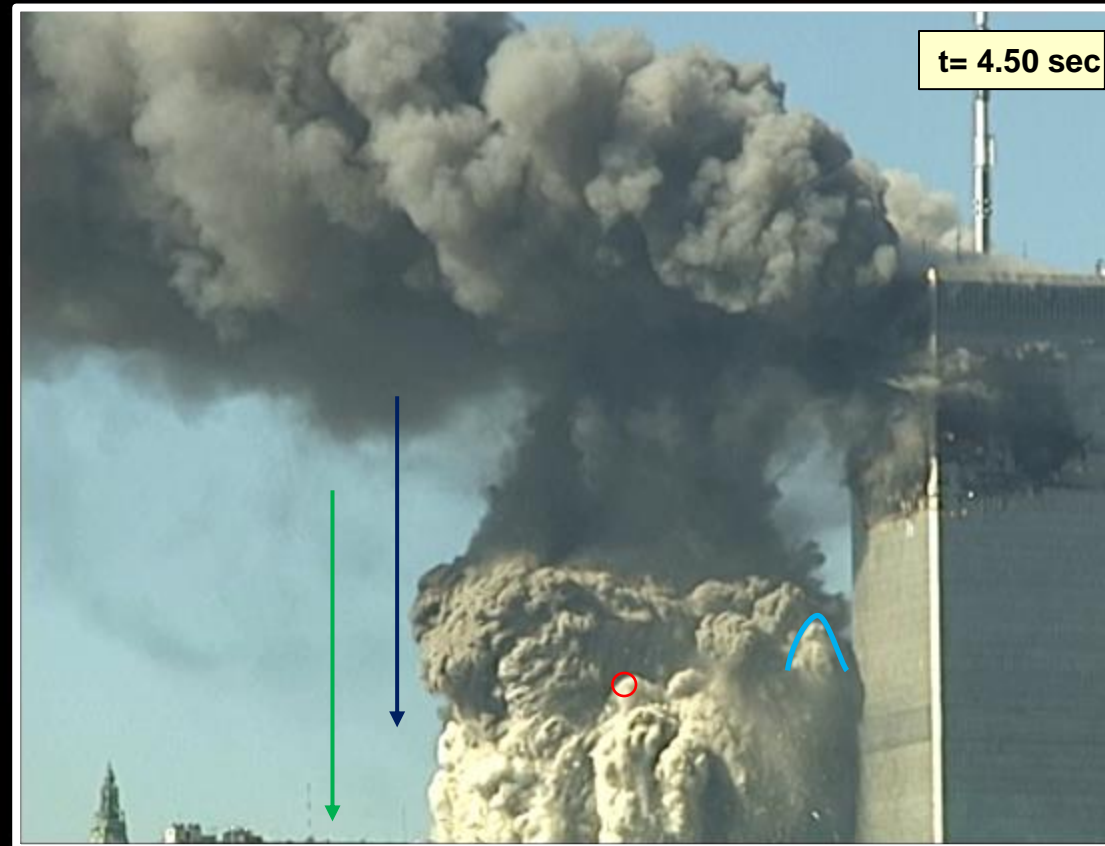
# DeJong: Top Obscured



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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 136

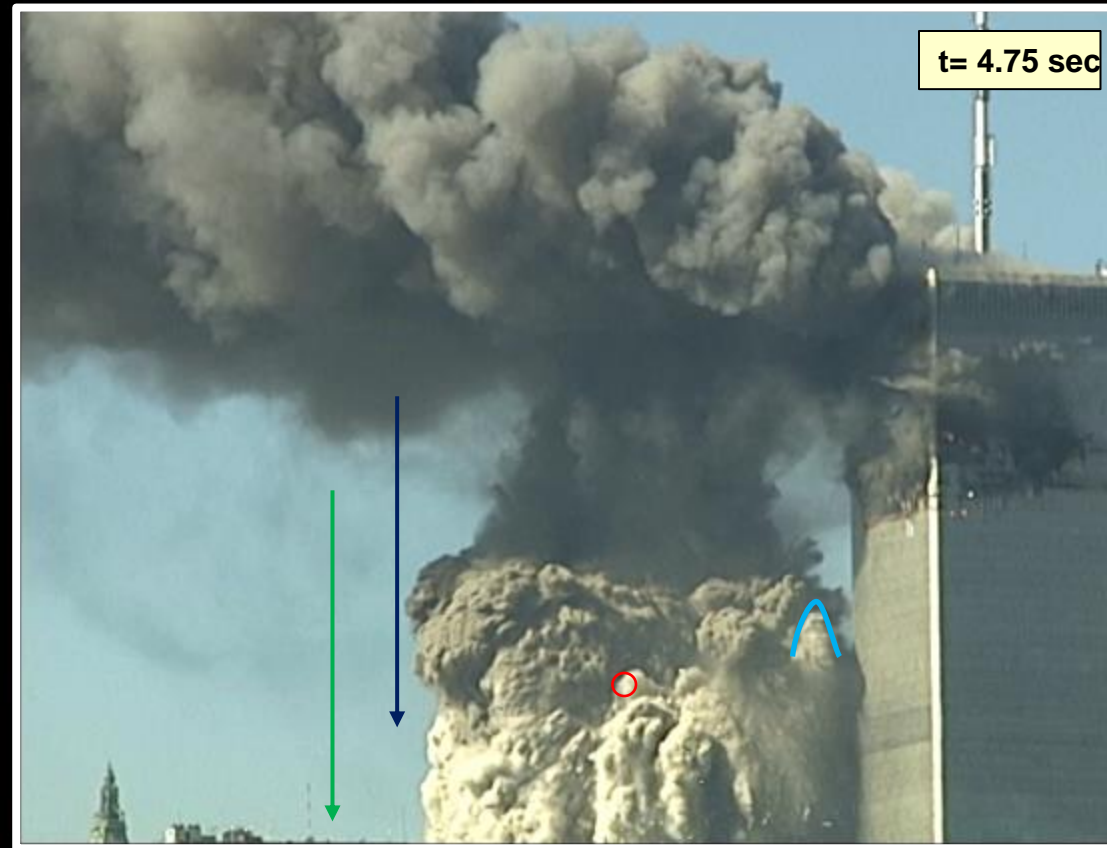
# DeJong: Top Obscured



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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 137

# DeJong: Top Obscured

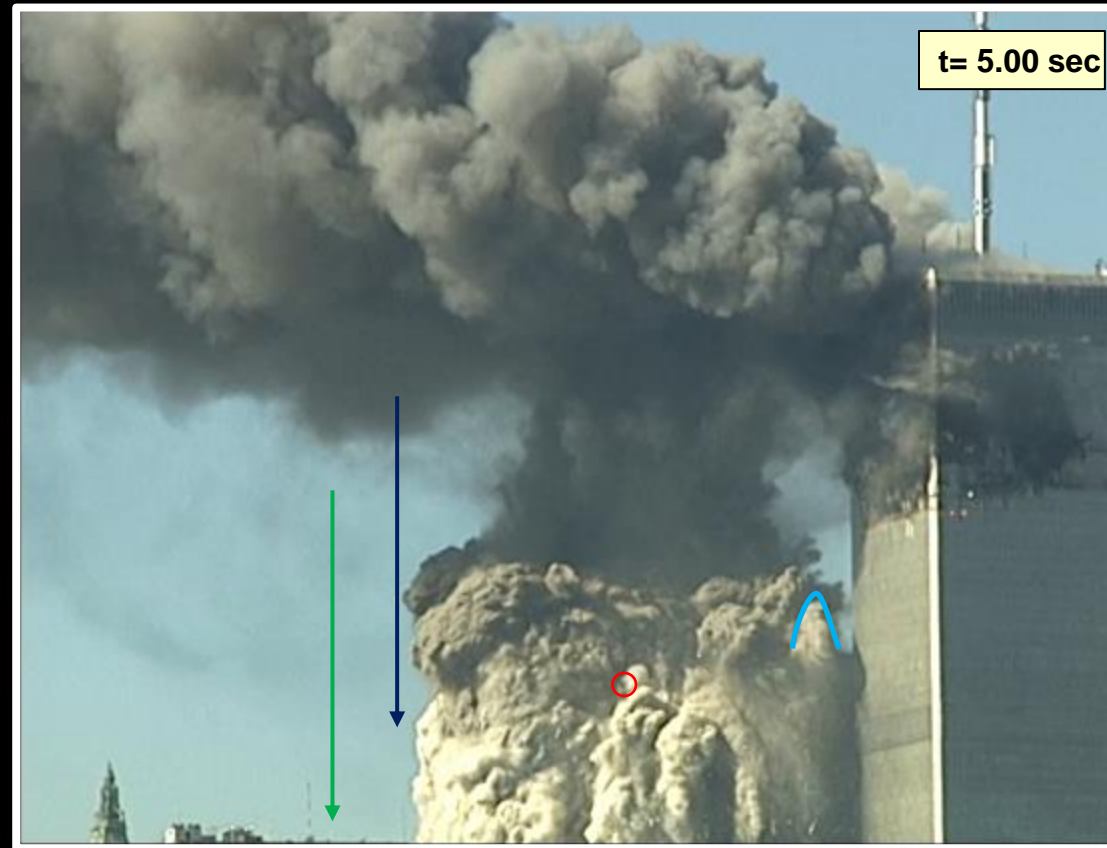


Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: [Fiterman Hall, the Pentagon](#)  
and the [East Face of the South Tower](#)



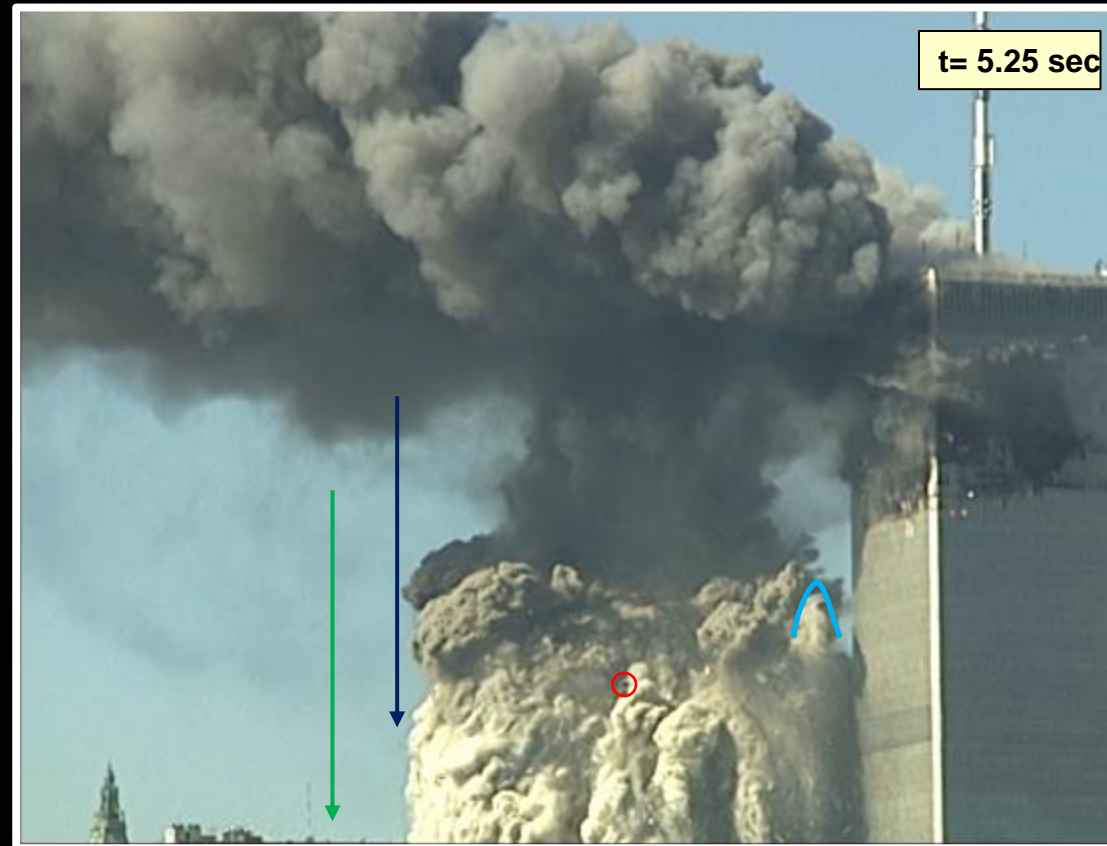
# DeJong: Top Obscured



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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 139

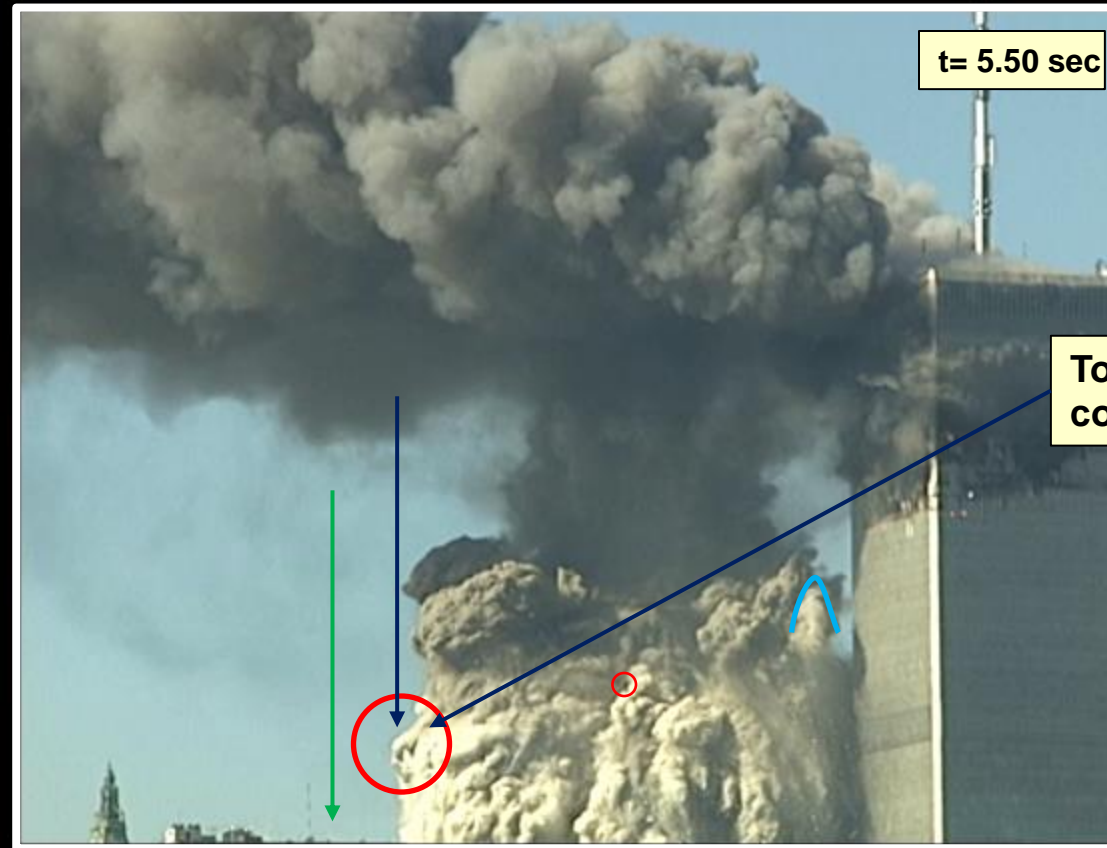
# DeJong: Top Obscured



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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 140

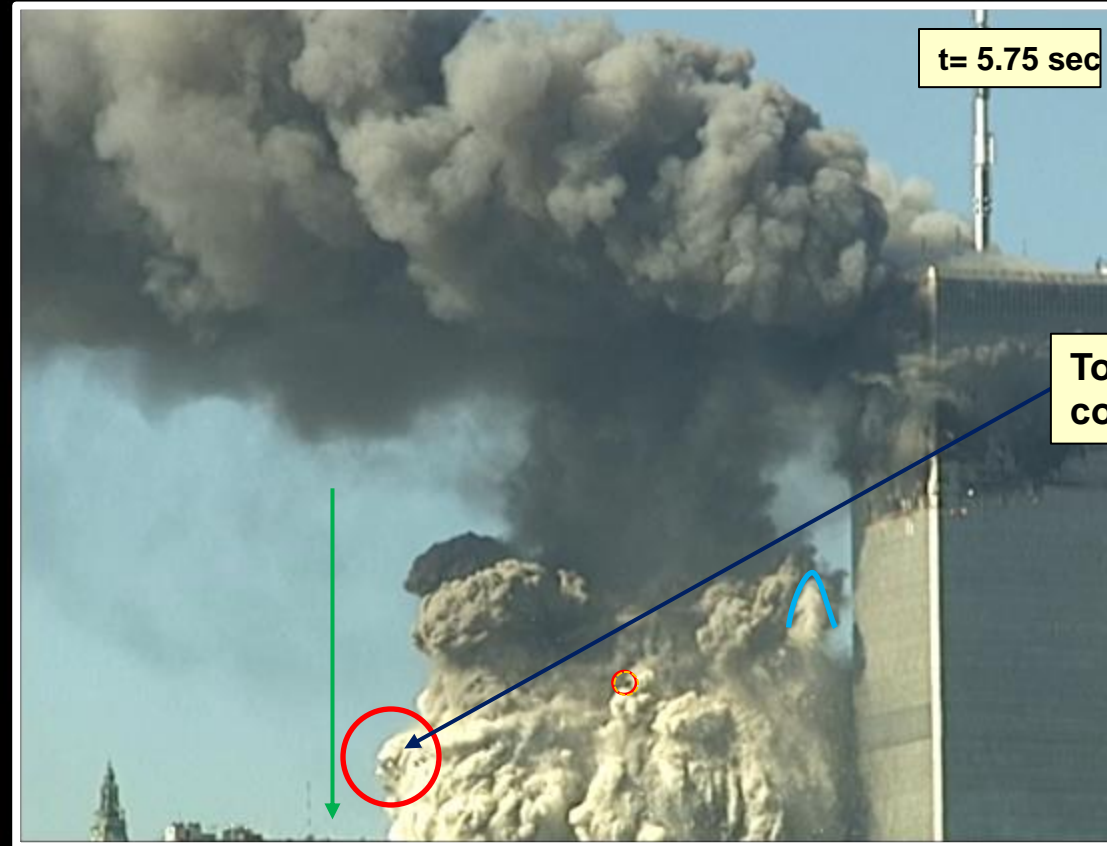
# DeJong: Columns "Surf"



t= 5.50 sec

Top of perimeter columns appear

# DeJong: Columns "Surf"

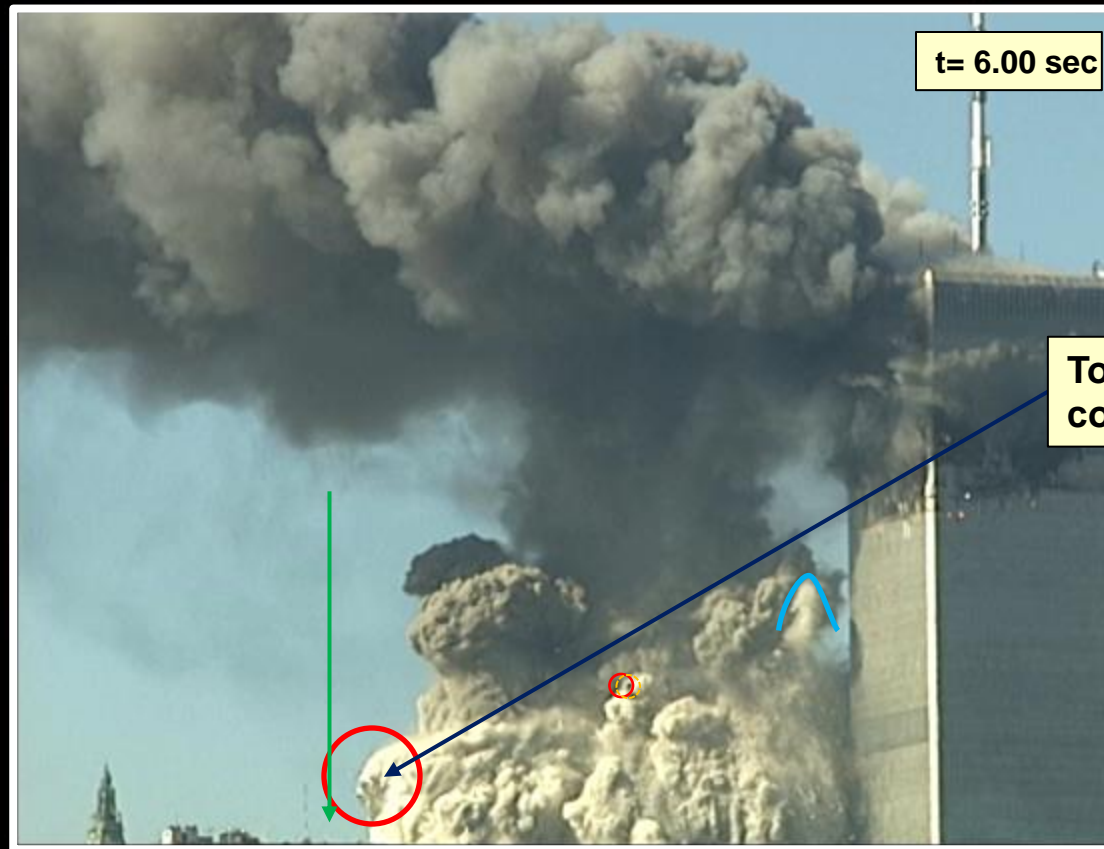


t= 5.75 sec

Top of perimeter columns appear



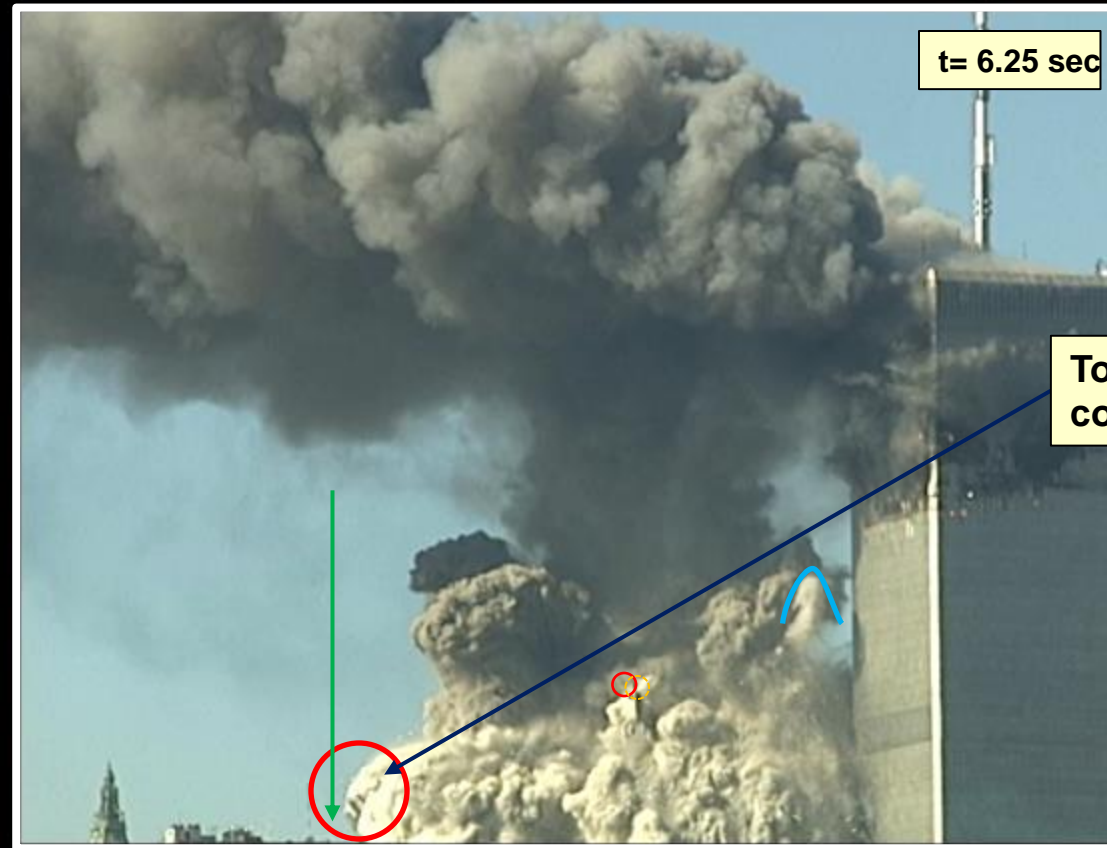
# DeJong: Columns “Surf”



t= 6.00 sec

Top of perimeter columns appear

# DeJong: Columns "Surf"

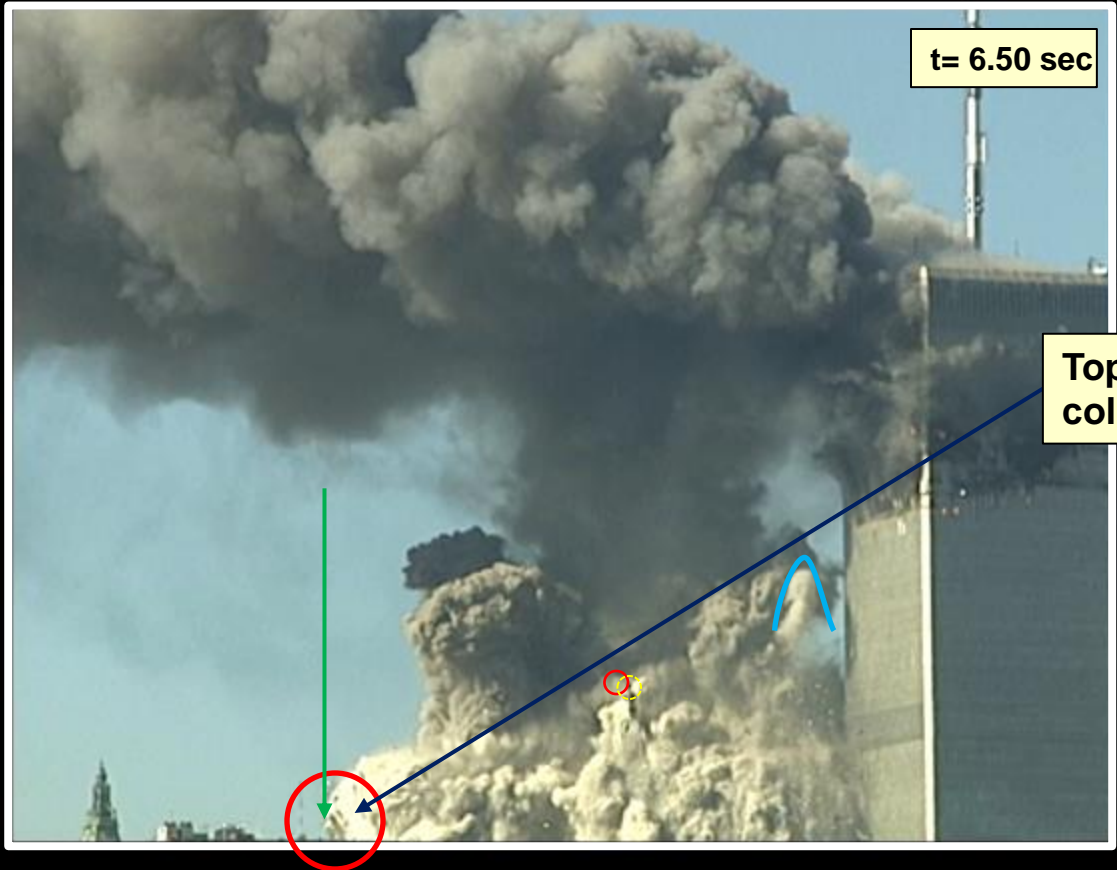


Top of perimeter  
columns appear

Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

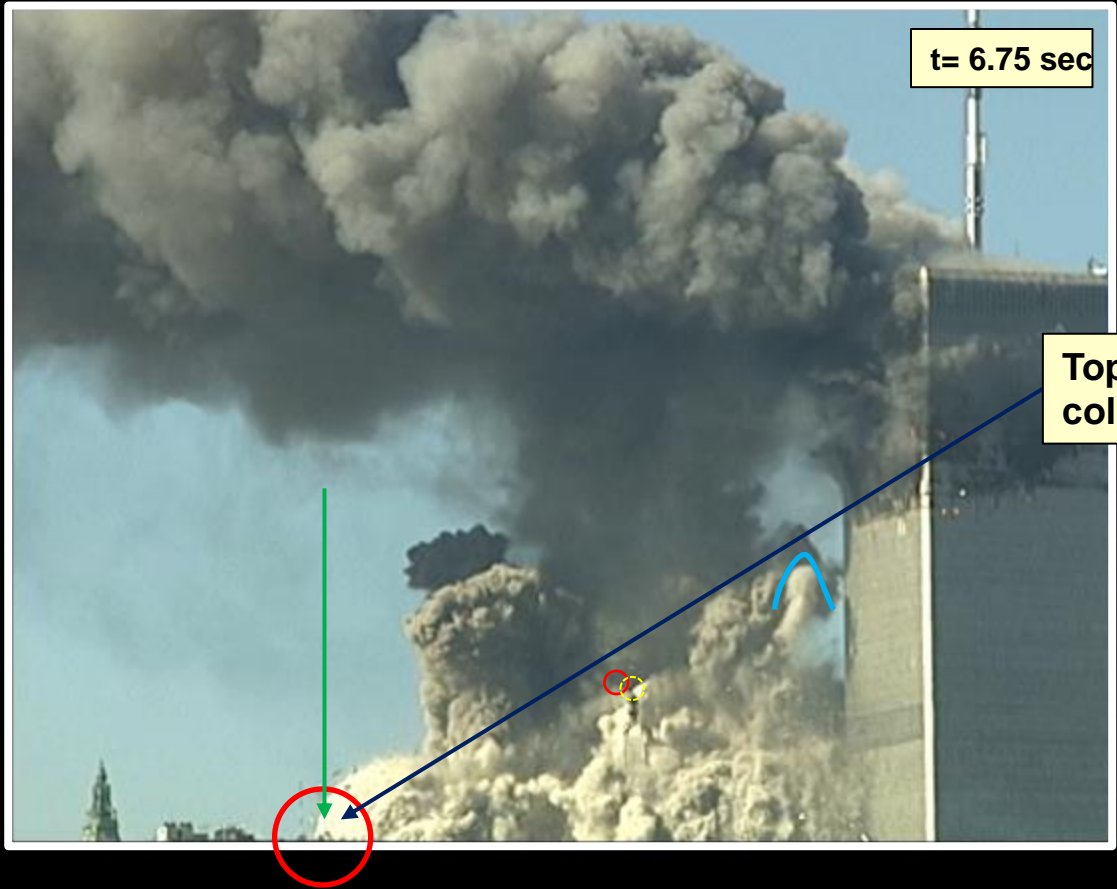
Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

# DeJong: Columns "Surf"



Top of perimeter columns appear

# DeJong: Columns "Surf"



t= 6.75 sec

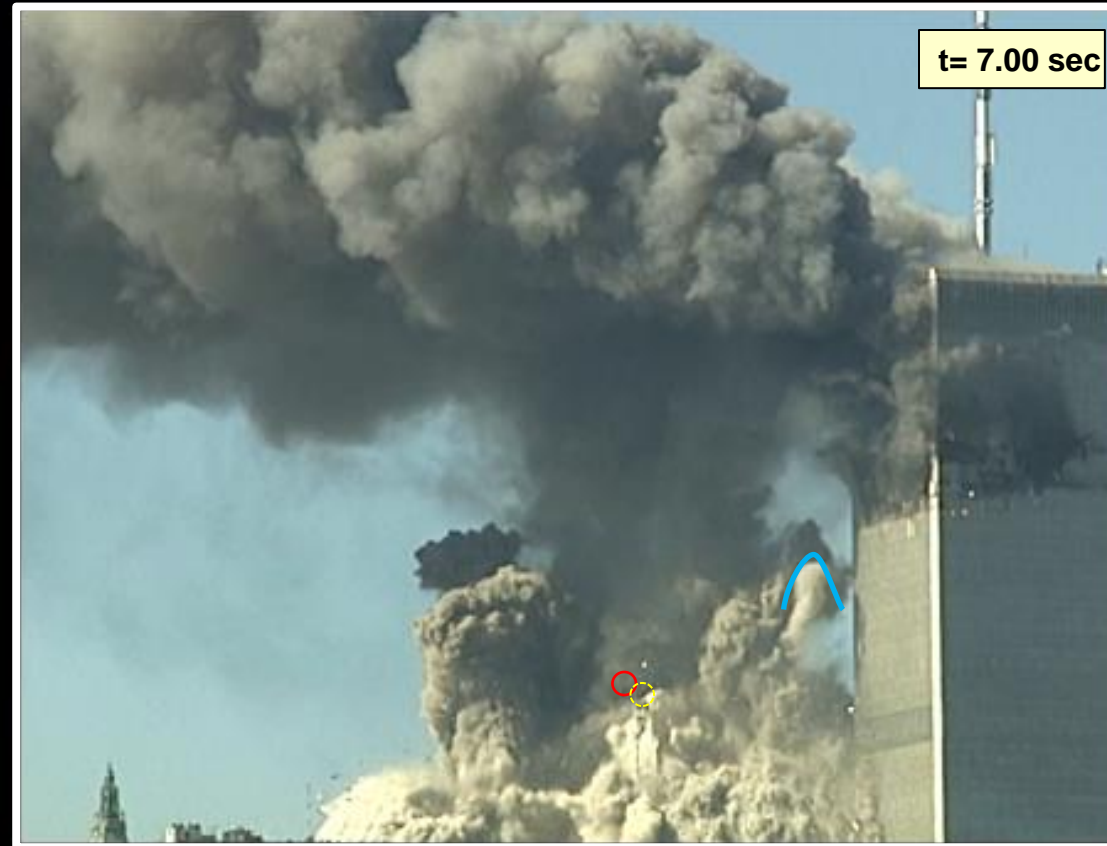
Top of perimeter columns appear

Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower



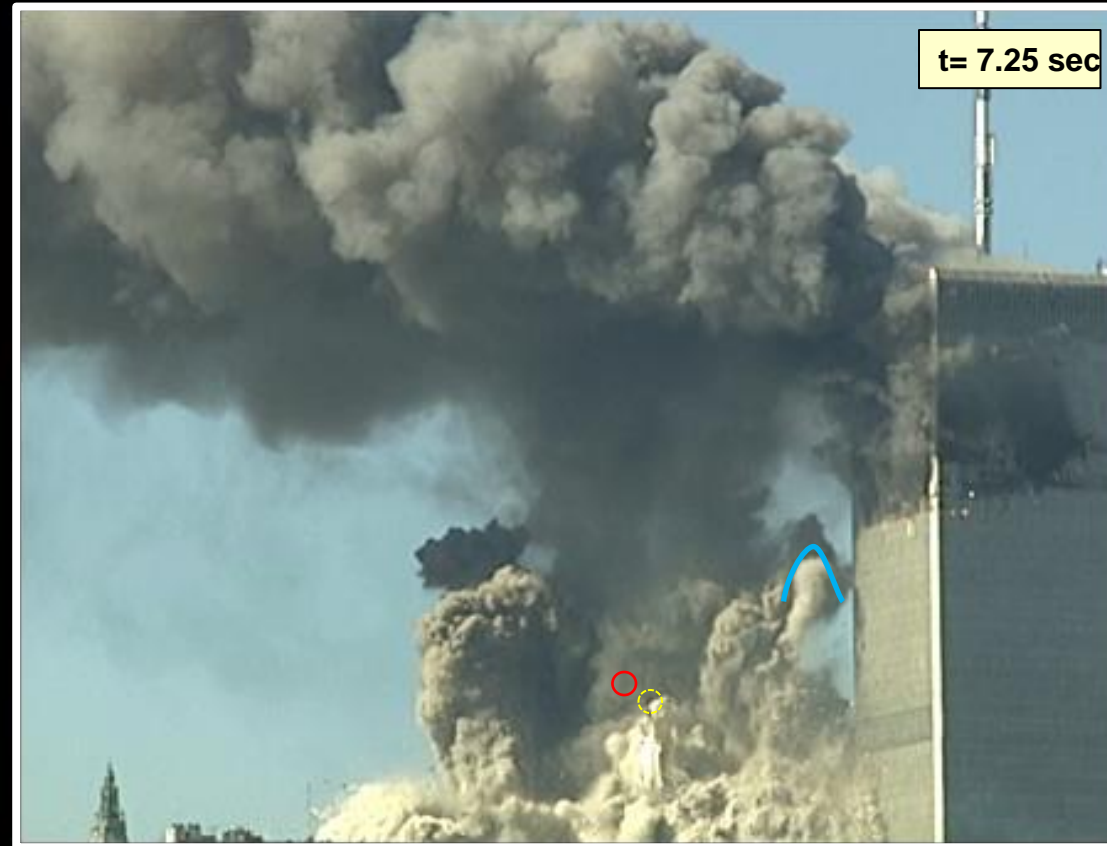
# DeJong: Dust and Debris Settle



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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 147

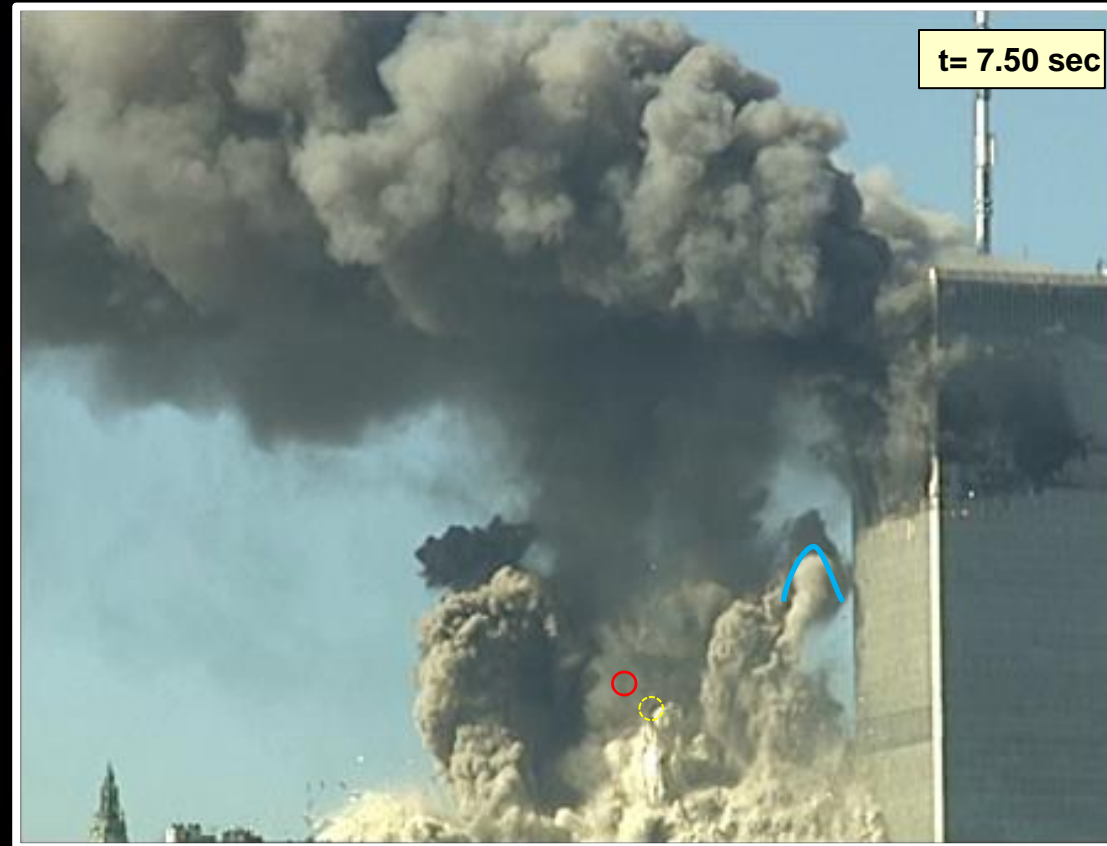
# DeJong: Dust and Debris Settle



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

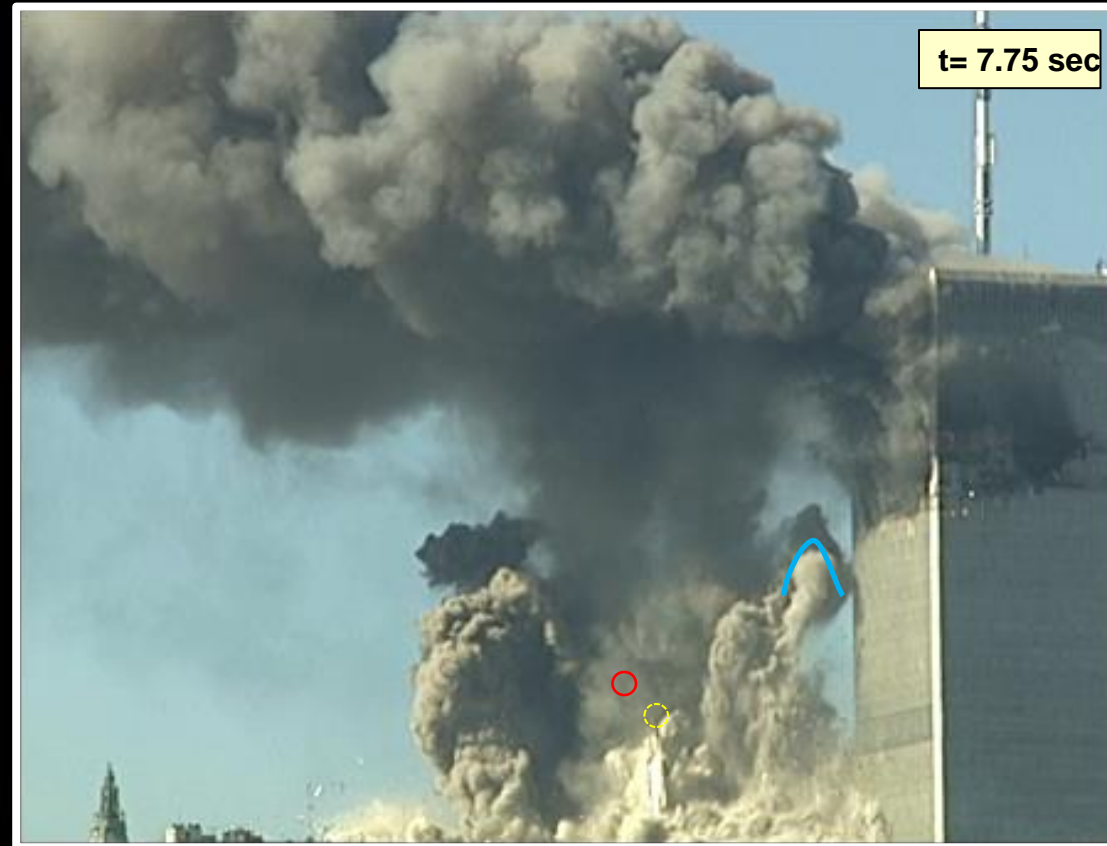
# DeJong: Dust and Debris Settle



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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 149

# DeJong: Dust and Debris Settle



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 150



## Chapter 2: Primary Videos

# ***RIVIERE***

Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

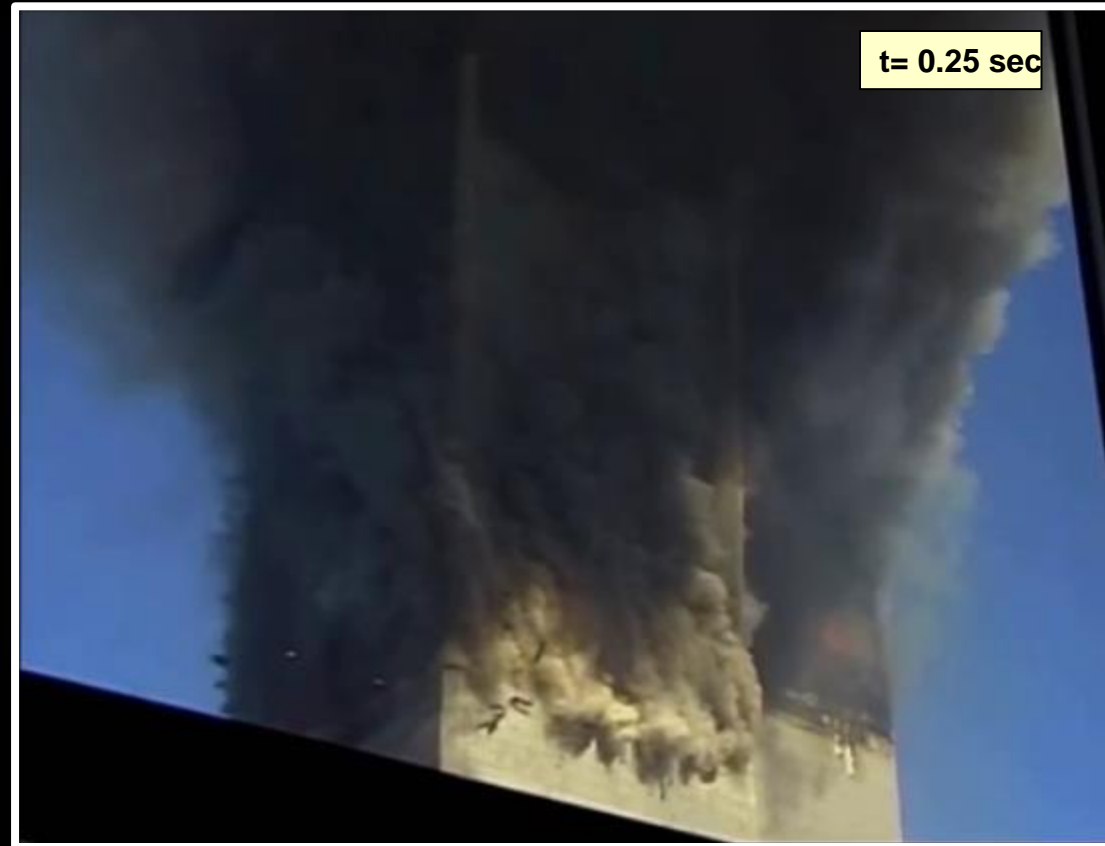
# Reviere: Initiation



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Details Matter: [Fiterman Hall, the Pentagon](#) and the East Face of the South Tower 152

# Reviere: Initiation



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 153

# Reviere: Initiation

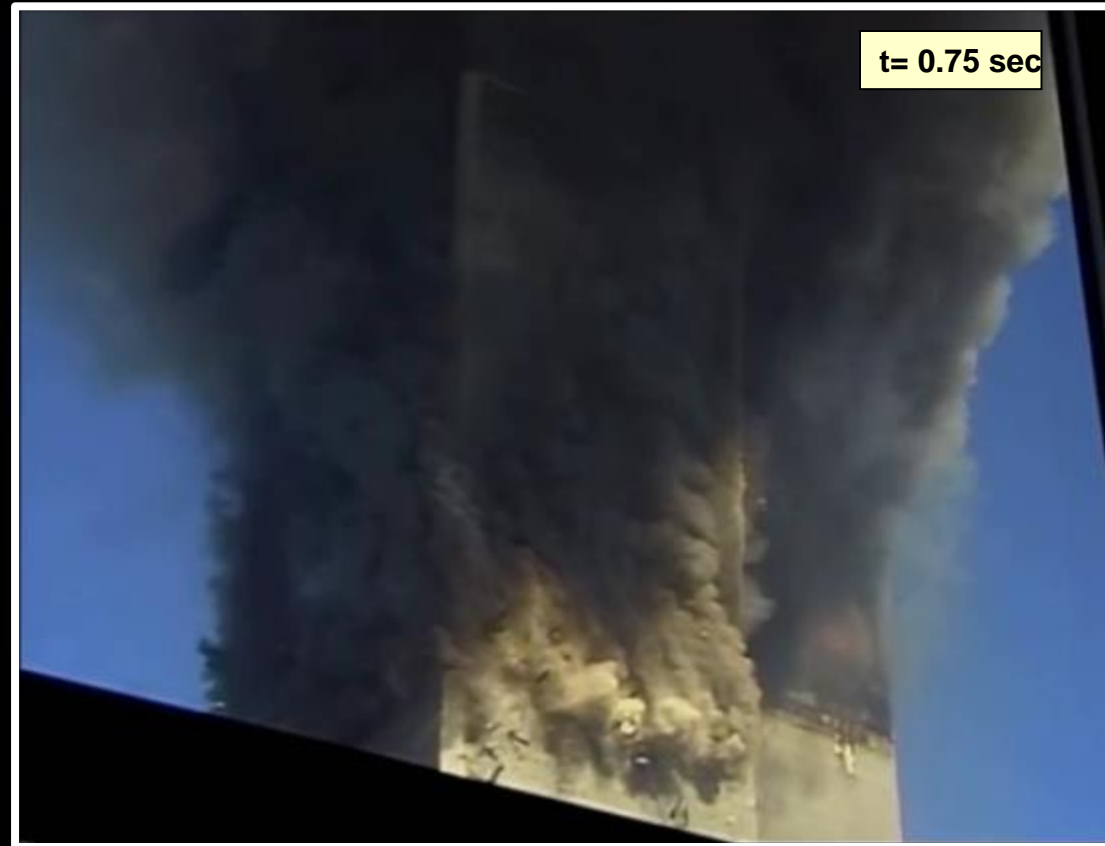


Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 154



# Reviere: Initiation



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 155

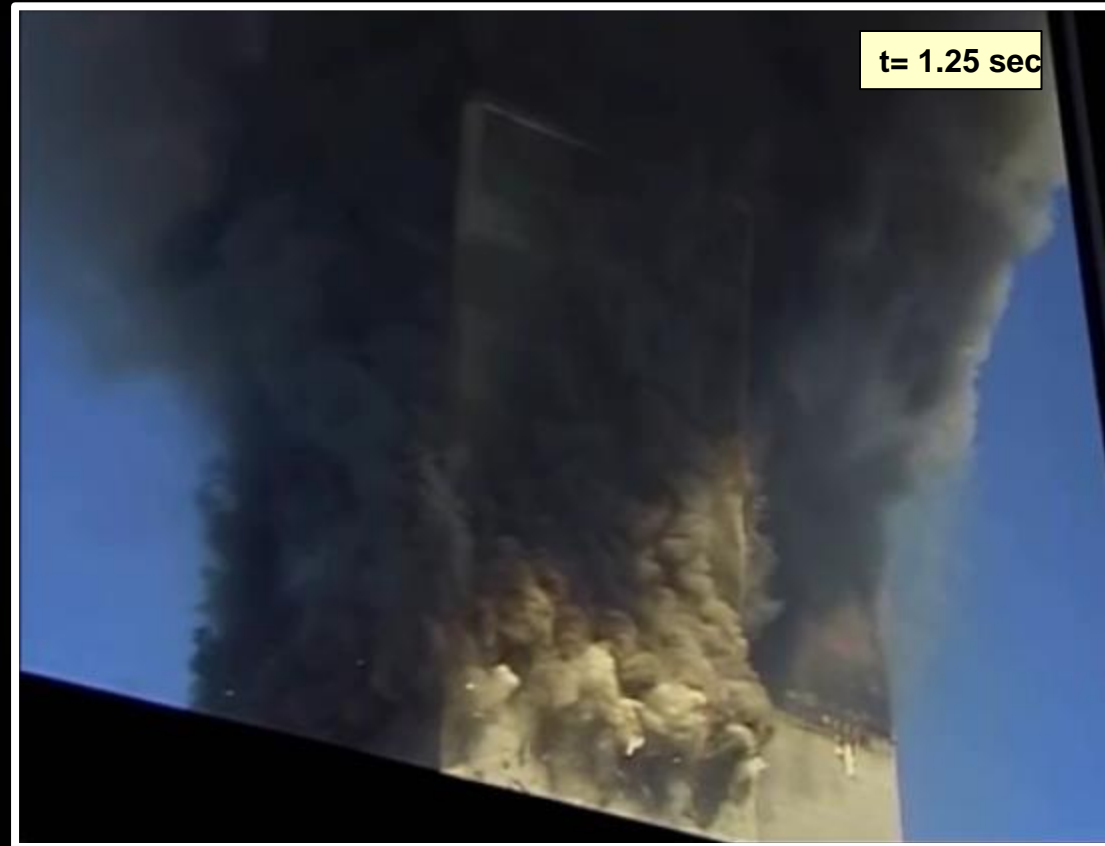
# Reviere: Continues



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 156

# Reviere: Continues



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 157

# Reviere: Continues

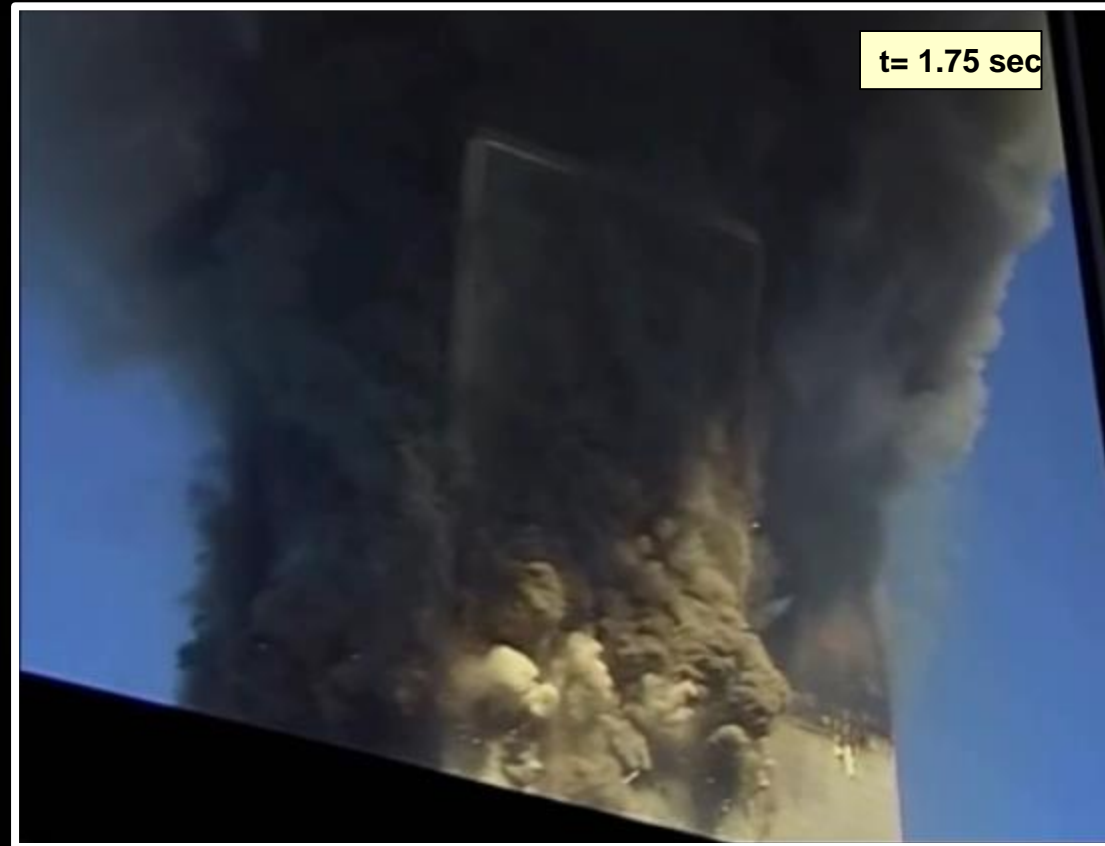


Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 158



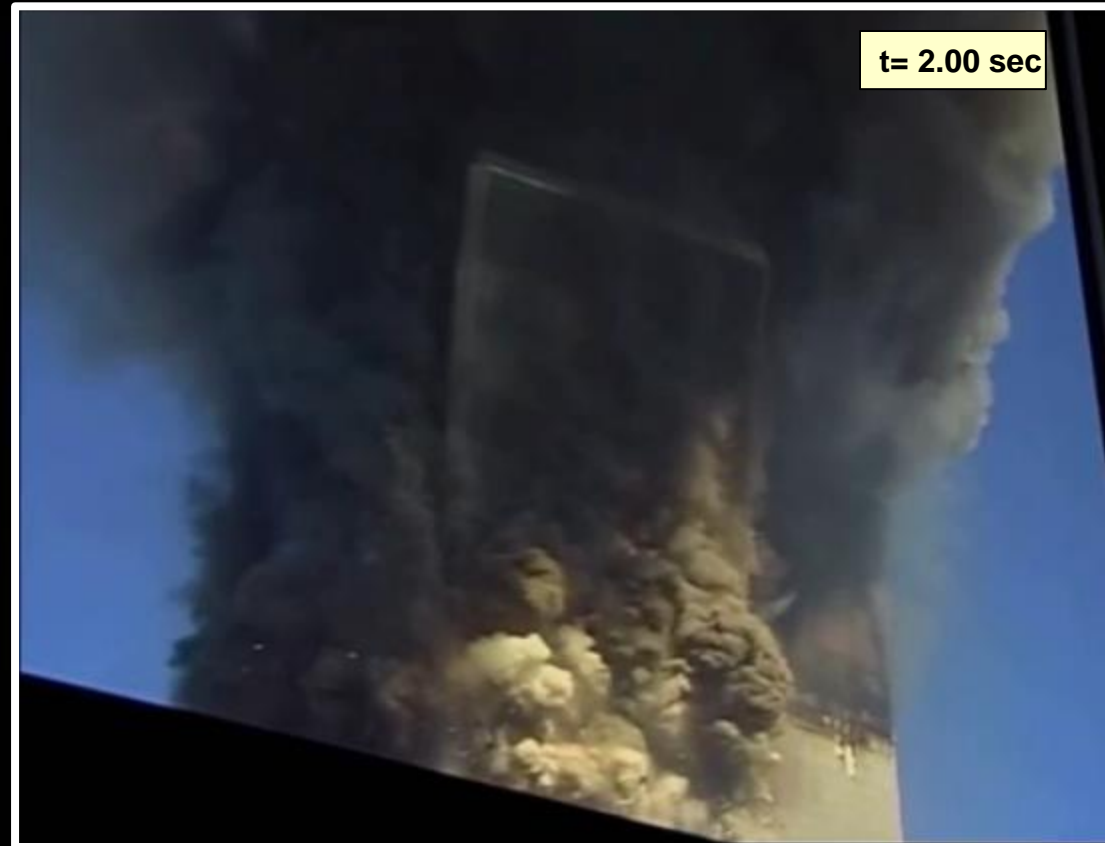
# Reviere: Continues



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 159

# Reviere: Continues



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 160

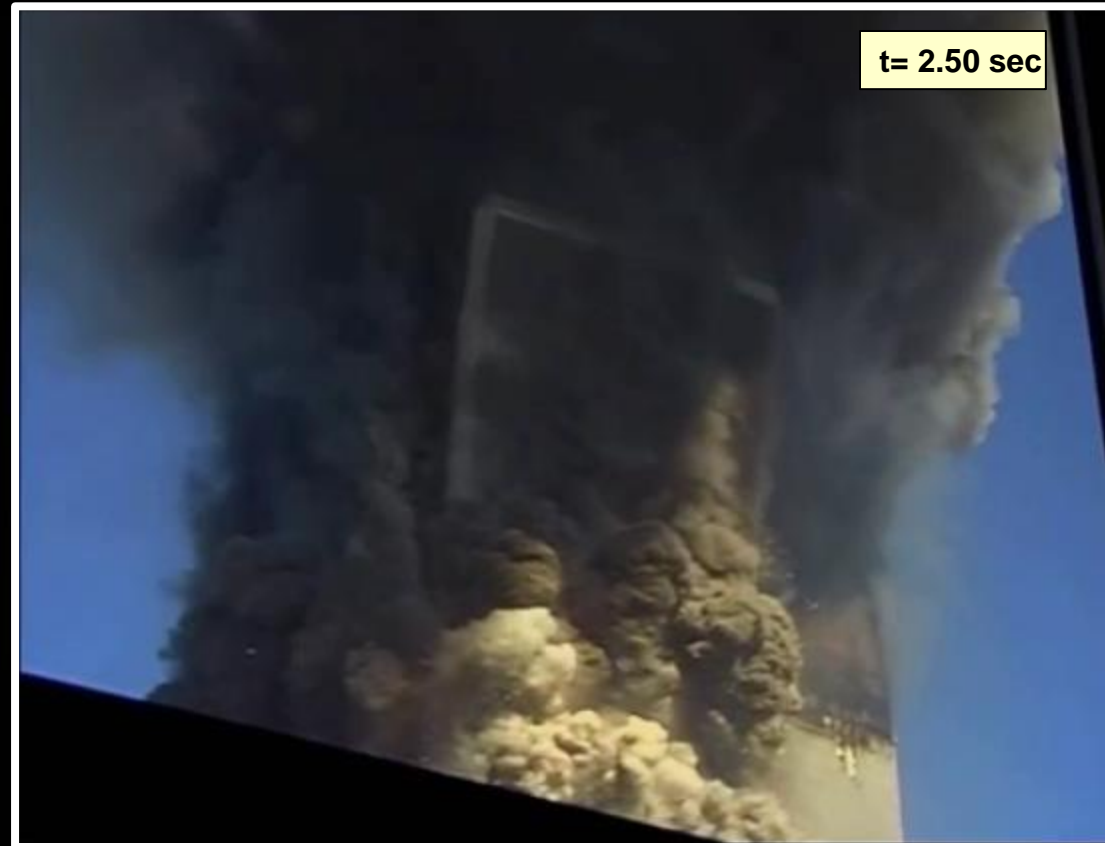
# Reviere: Continues



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 161

# Reviere: Continues

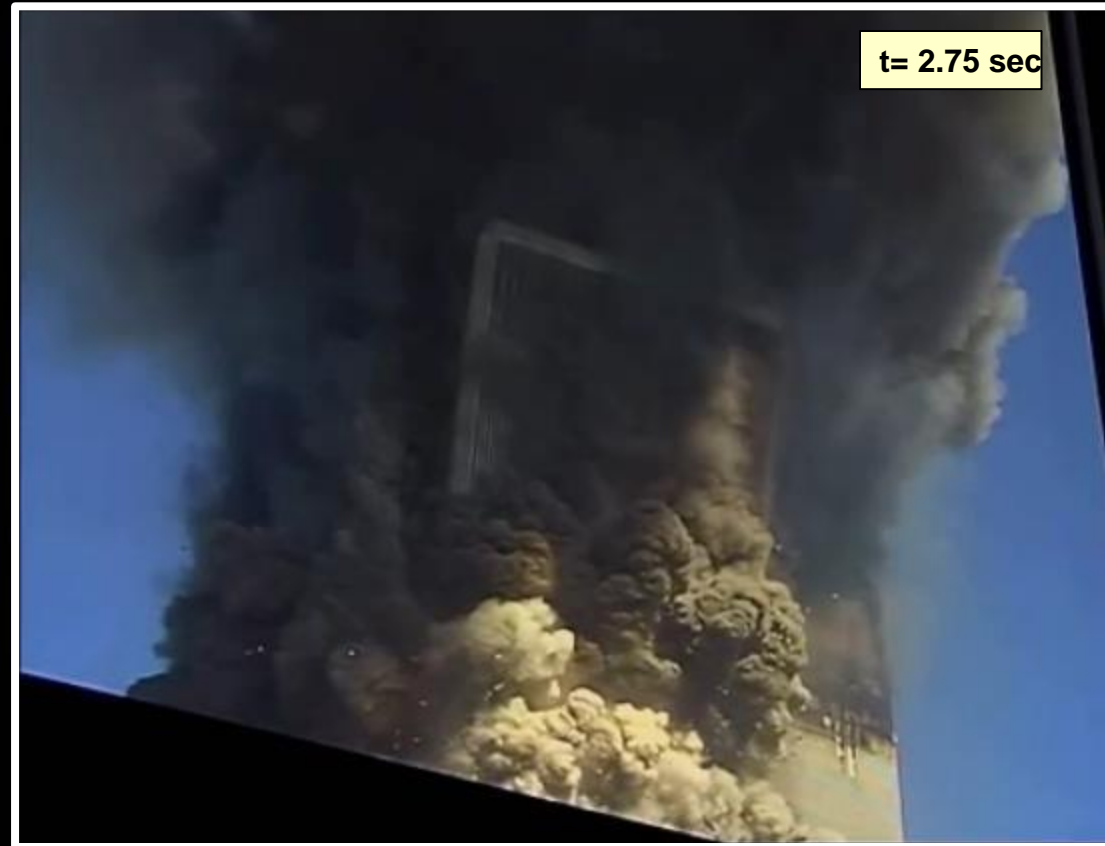


Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 162



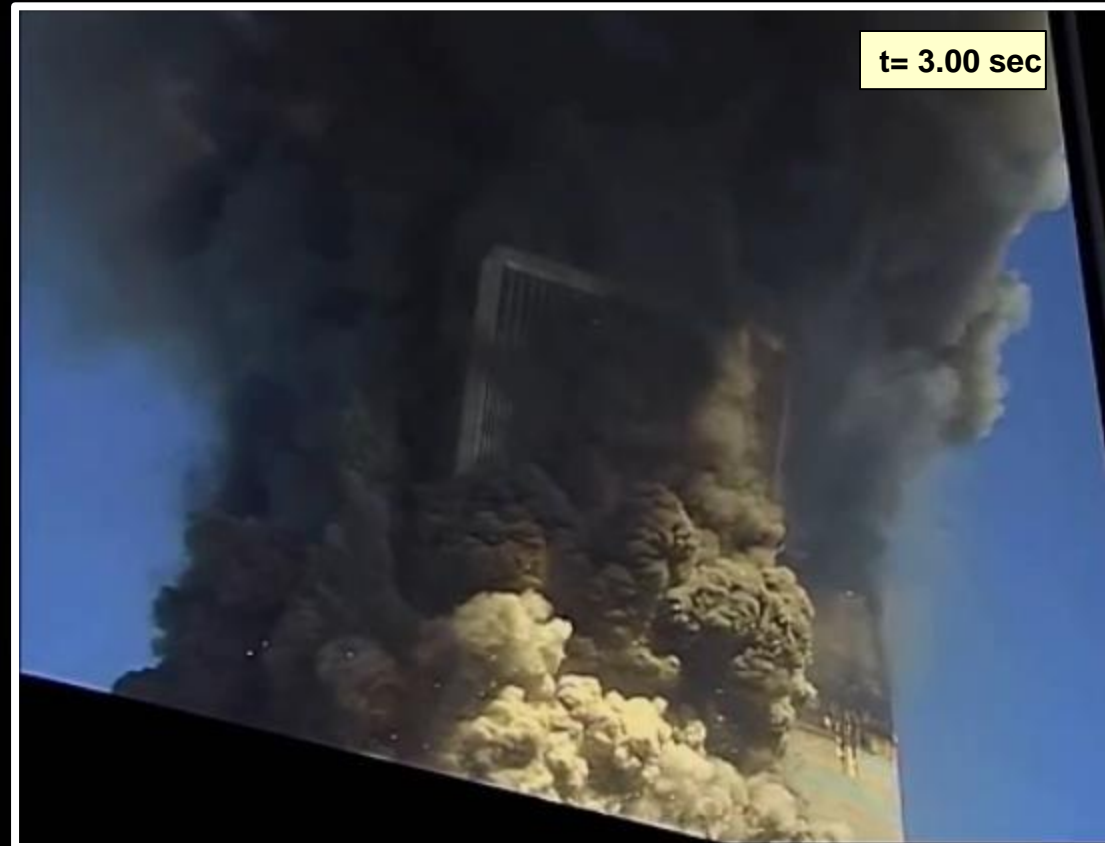
# Reviere: Tower Tilts



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 163

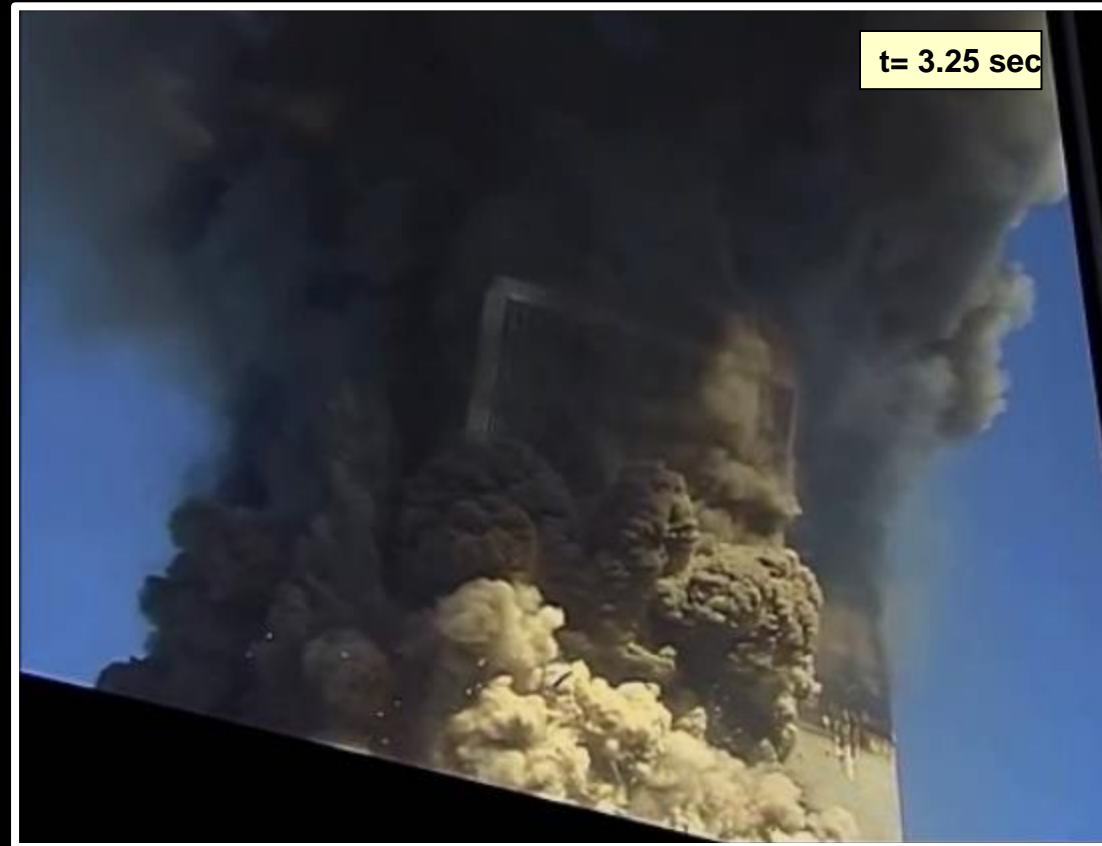
# Reviere: Tower Tilts



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 164

# Reviere: Tower Tilts



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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 165

# Reviere: Tower Tilts



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Details Matter: [Fiterman Hall, the Pentagon](#) and the East Face of the South Tower 166



# Reviere: Tower Tilts



Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 167

# Reviere: Tower Tilts

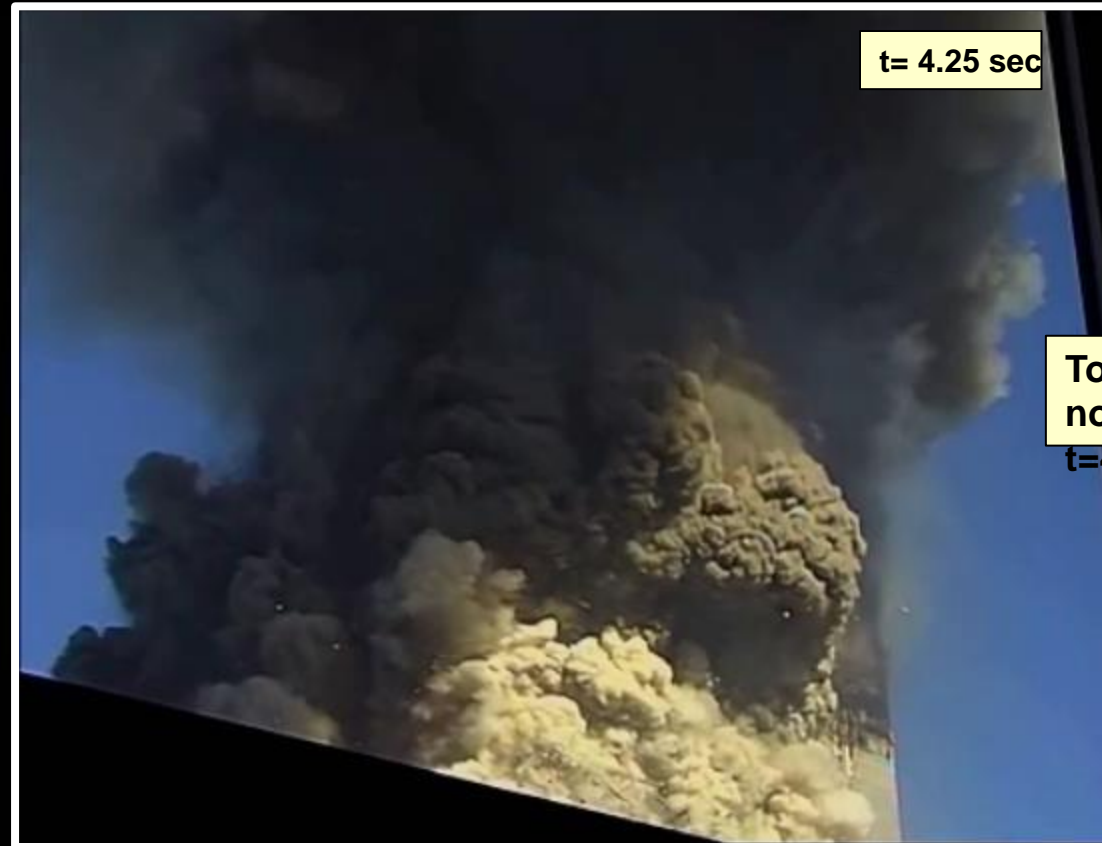


Top of South Tower is  
~110 feet over the side  
of the lower (Zone 2)  
perimeter columns.

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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

# Reviere: Tower Tilts



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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

# Reviere: Tower Tilts



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Details Matter: [Fiterman Hall, the Pentagon](#) and the [East Face of the South Tower](#) 170



# Reviere: Tower Tilts



Dust appears to swell as if it is getting “snow-plowed” from behind

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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

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# Reviere: Tower Tilts



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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 172

# Reviere: Tower Tilts



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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 173

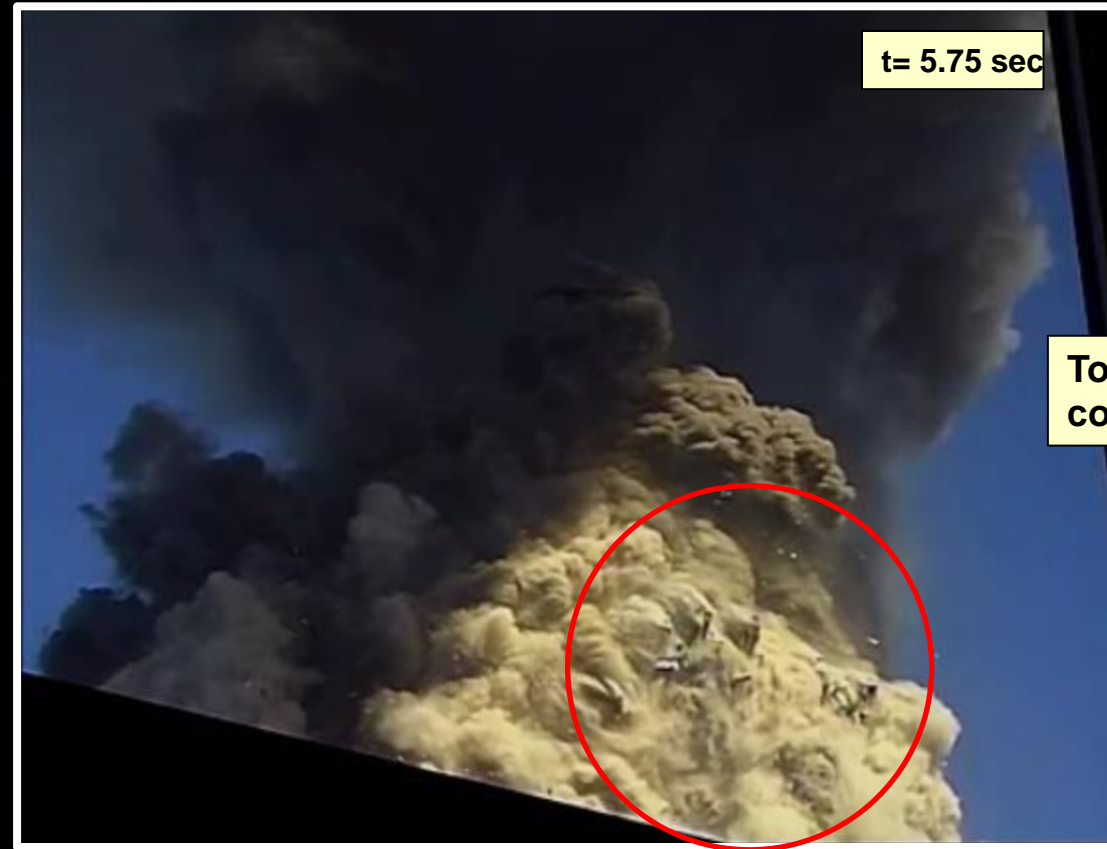
# Reviere: Tower Tilts



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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 174

# Reviere: Columns Appear



Top of perimeter  
columns appear

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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 175



# Reviere: Columns Appear



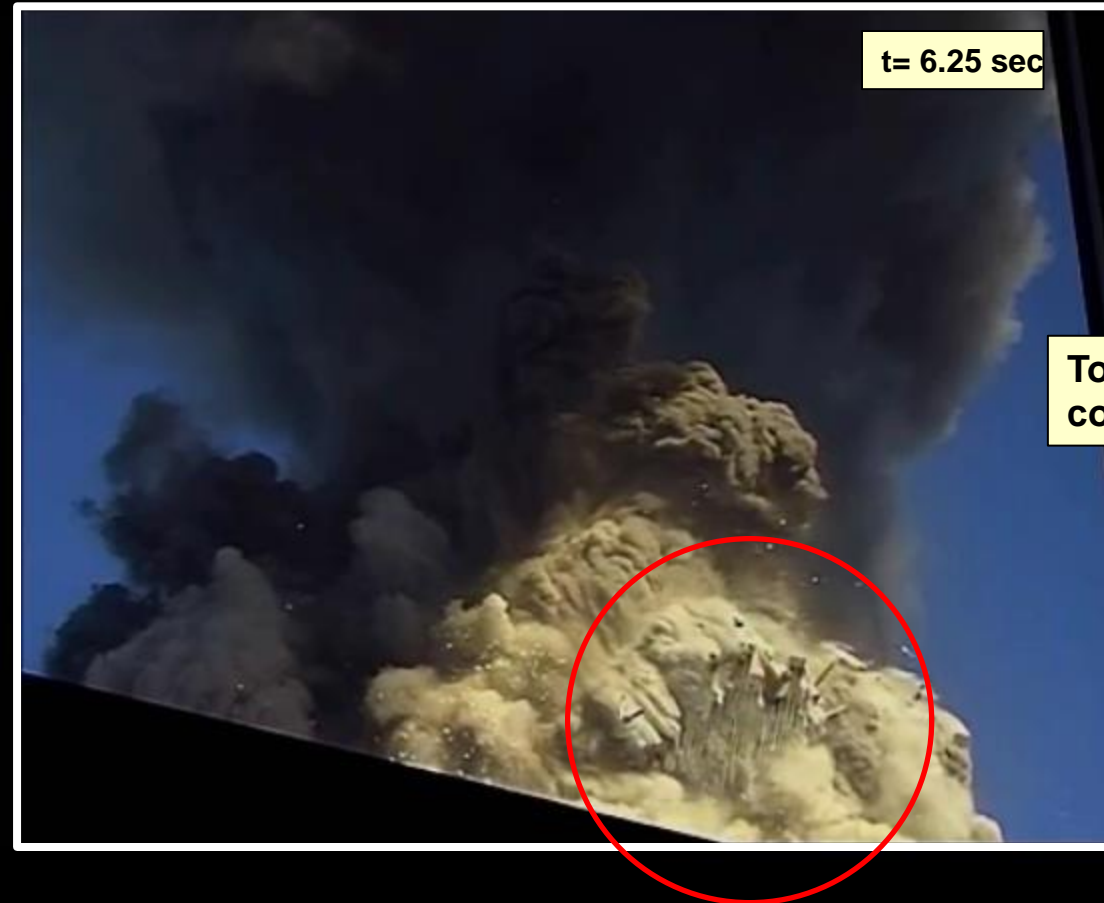
t= 6.00 sec

Top of perimeter  
columns appear

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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 176

# Reviere: Columns Appear



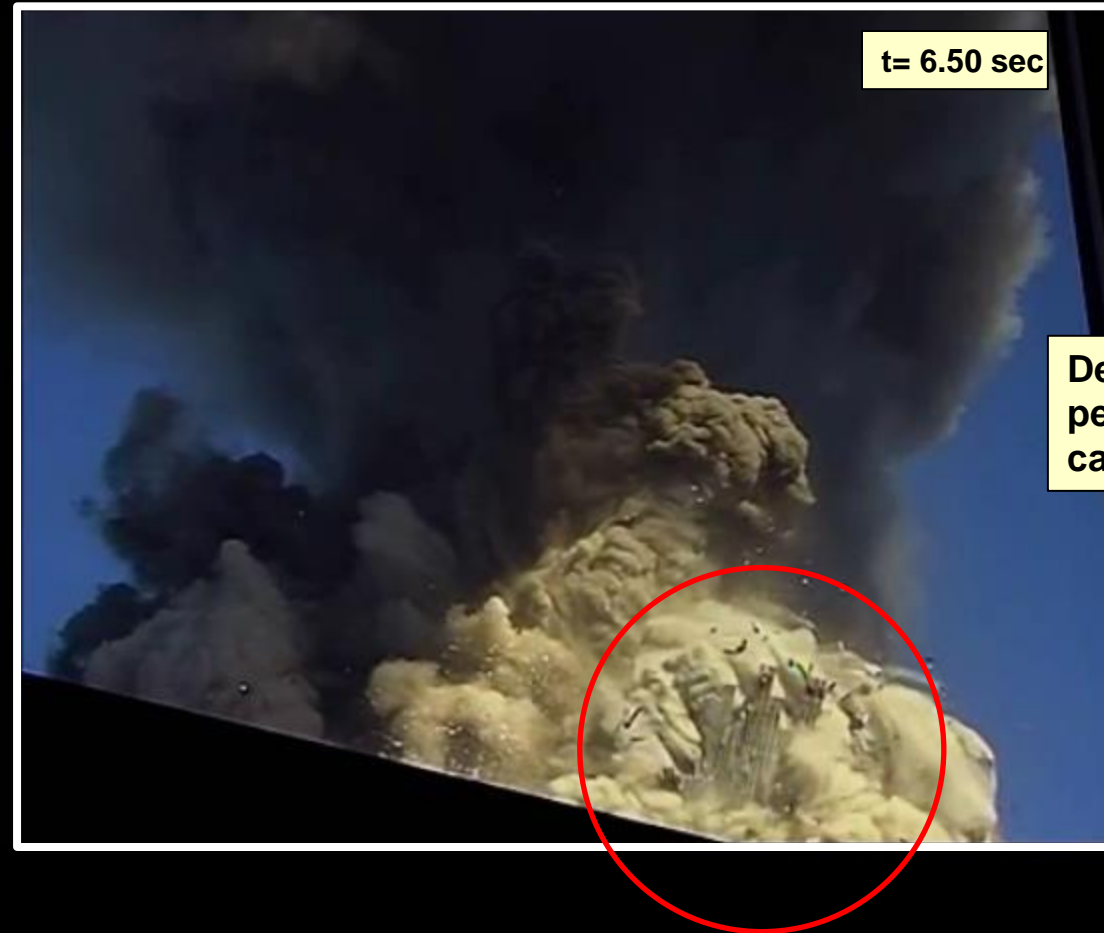
Top of perimeter  
columns appear

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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

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# Reviere: Columns Appear



Details of the perimeter columns can be seen clearly

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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 178

# Reviere: Columns Appear



Details of the perimeter columns can be seen clearly

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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 179

# Reviere: Columns Appear



t= 7.00 sec

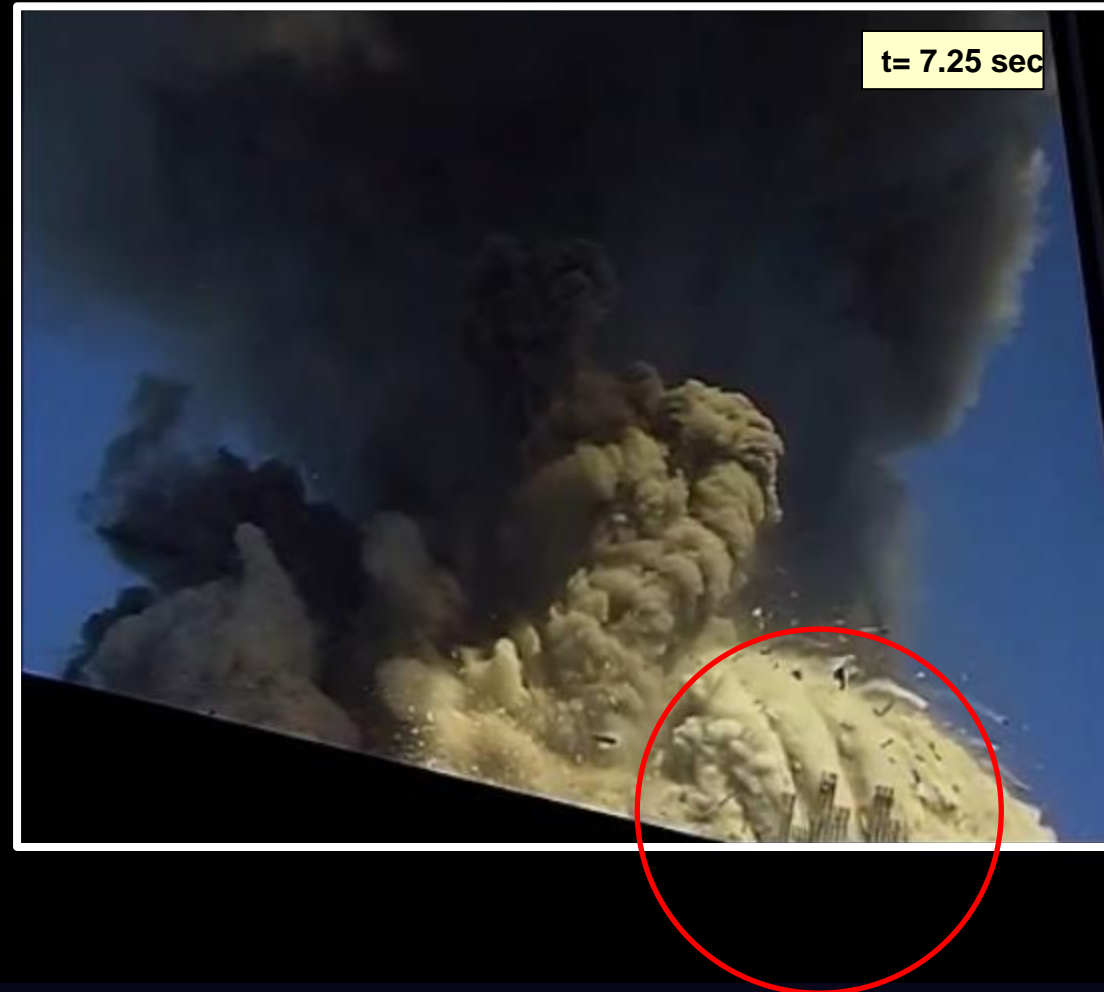
Details of the  
perimeter columns  
can be seen clearly

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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 180



# Reviere: Columns Appear



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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

181

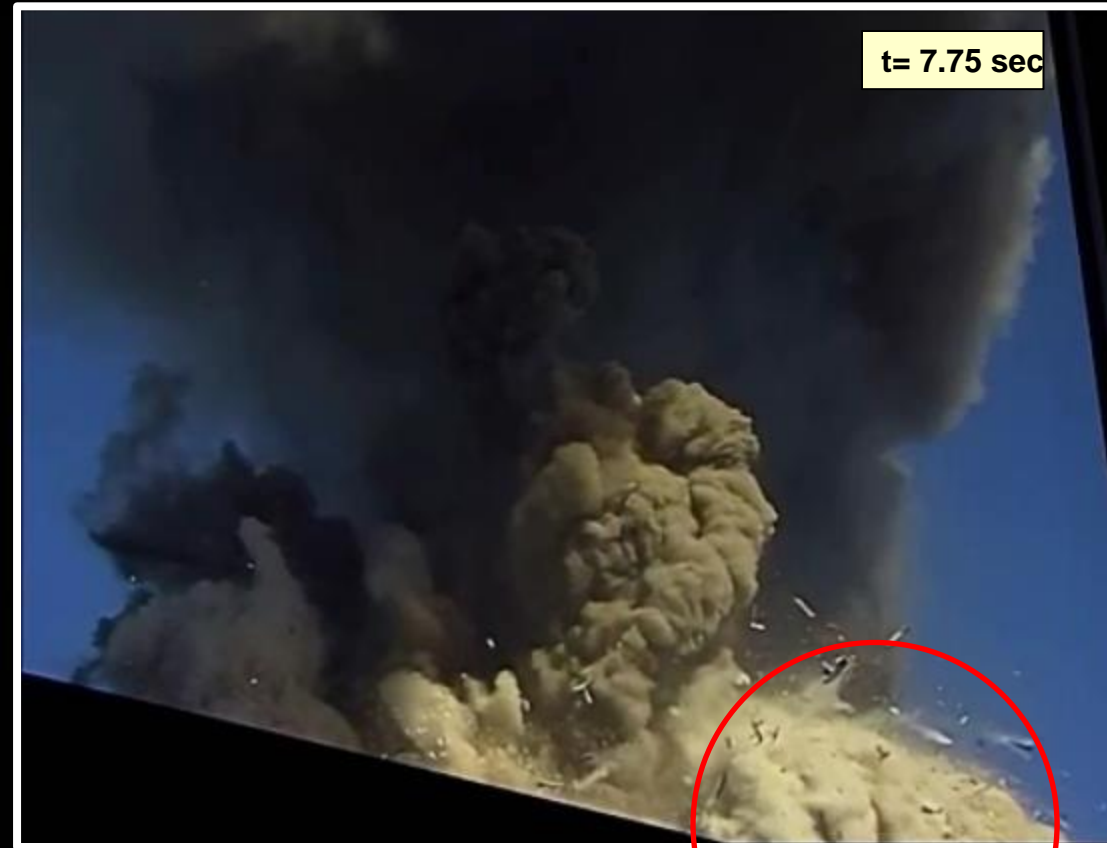
# Reviere: Wake in Dust / Debris



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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 182

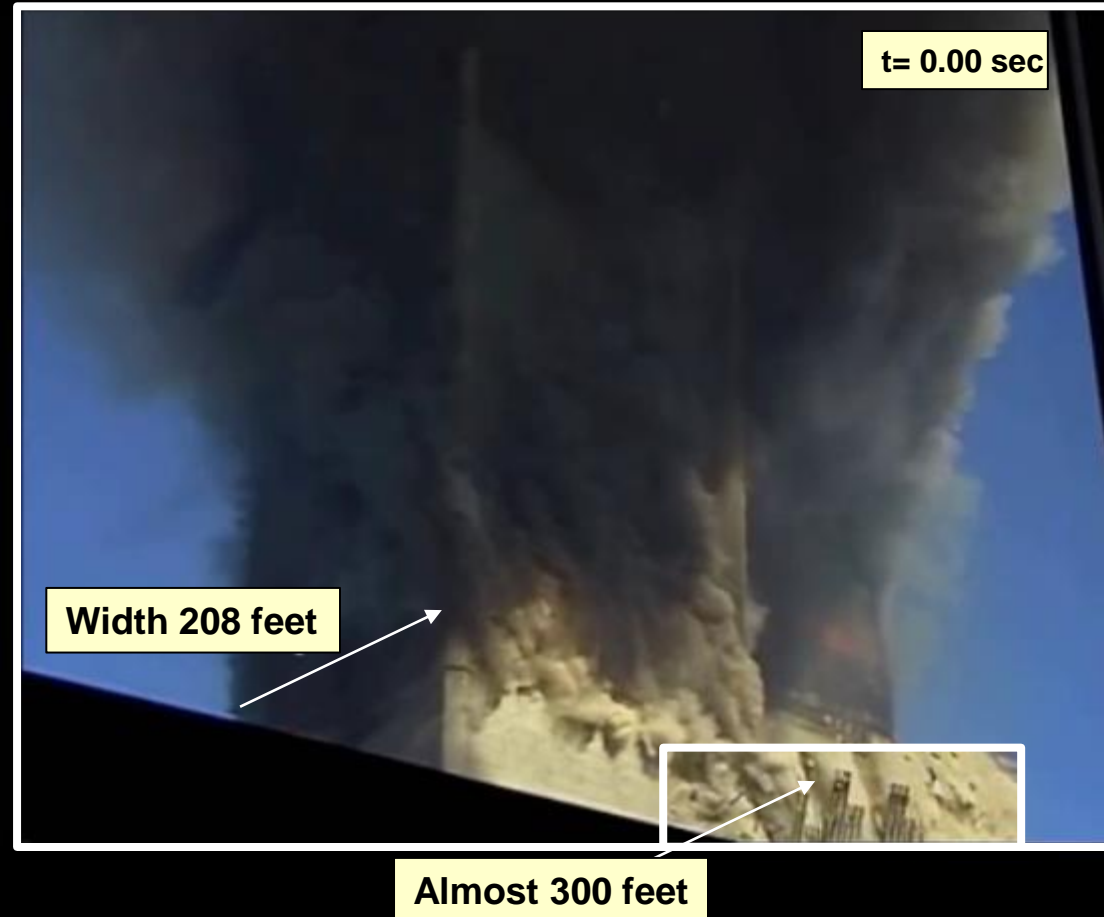
# Reviere: Wake in Dust / Debris



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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 183

# Surfing Perimeter Columns Against North Tower



They are clearly moving outward while in a vertical orientation

Surfing perimeter columns are almost 300 feet away from the South Tower

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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

# South Tower Core Remains Standing

- The following images show the core standing
  - Has some detail
  - Video quality blurred due to hand-held and constant motion
- Implies that the floor-truss to core-channel connections
  - Were the weak-point for the building destruction
    - Consisted only of two 5/8-inch bolts per floor-truss
    - Floor truss to exterior connections were much stronger



Core Columns Visible

# Riviere – South Tower Core Shown Intact



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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 186

# Riviere – South Tower Core Shown Intact



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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 187

# Riviere – South Tower Core Shown Intact



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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 188

# Riviere – South Tower Core Shown Intact



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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 189

The Case for Propelled Demolition

# 'SURFING' PERIMETER COLUMNS

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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 190



# What Are Those “Surfing” Objects?



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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

# Surfing Columns Outlined in Red



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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

# Color Added to Surfing Columns

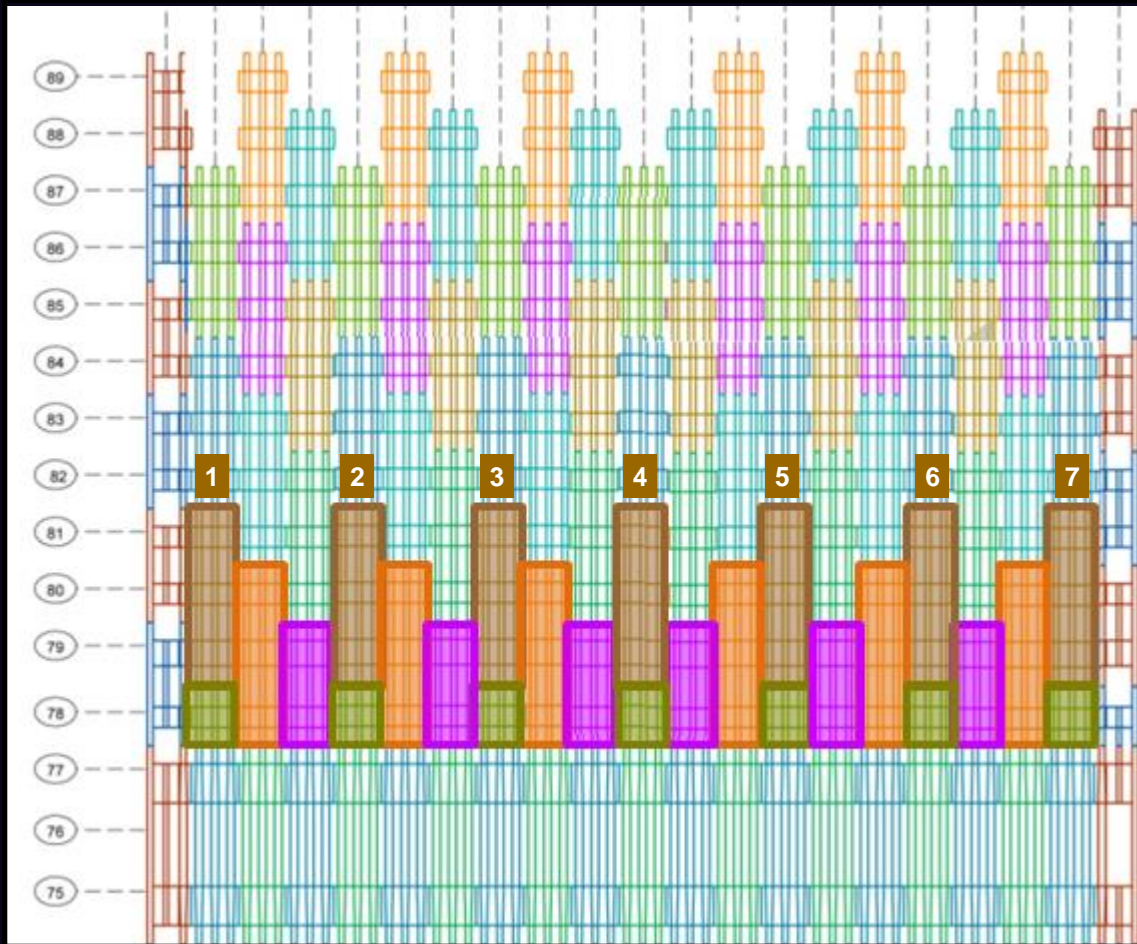


Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower



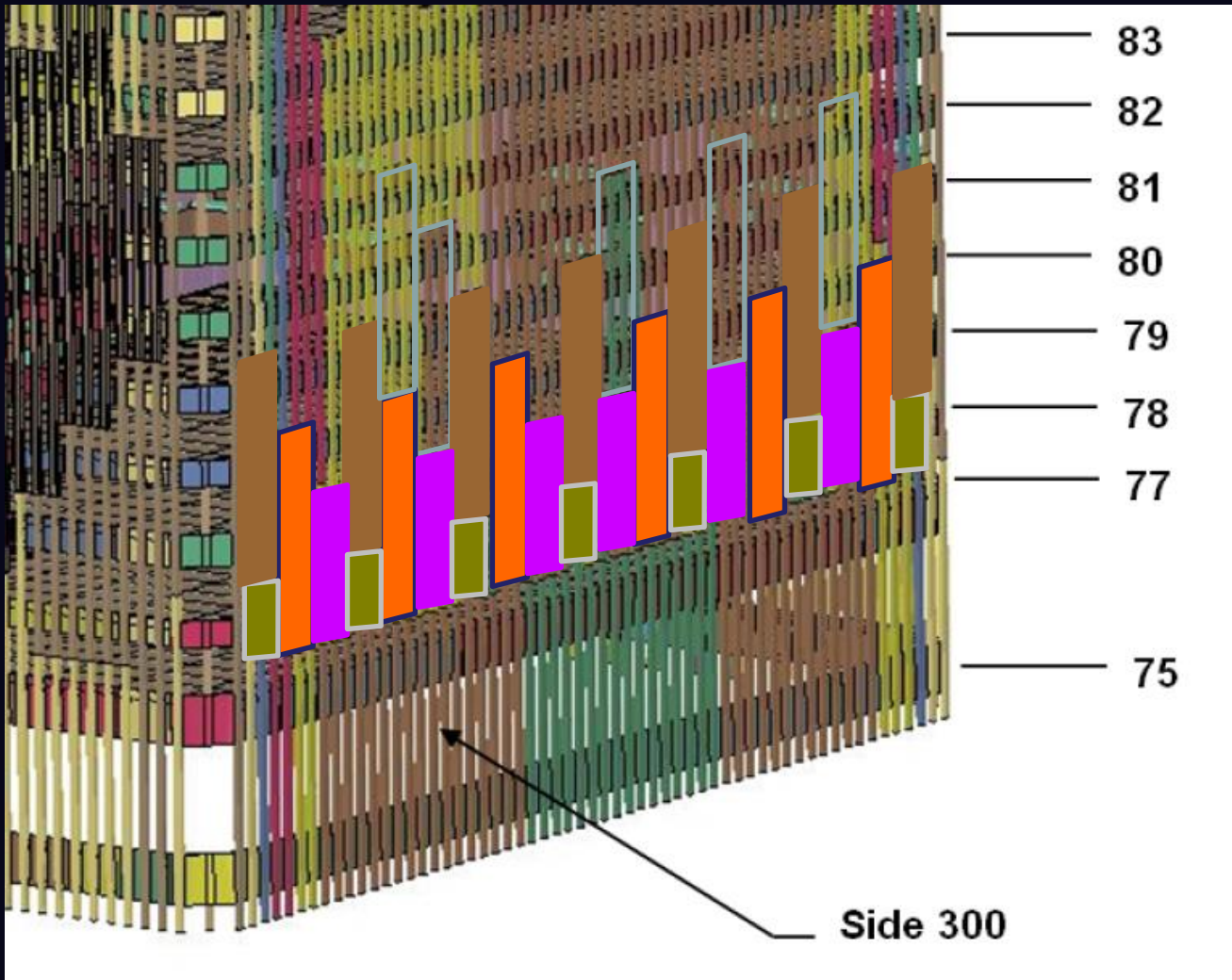
# Shown in Context on East Face of South Tower



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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

# Columns Shown on a NIST Figure



Each of the modular pieces was 10 feet wide and 36 feet tall.

Extended for two full floors and half of two more floors (half above / half below)

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# Location Shown on the Face of the South Tower



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and the East Face of the South Tower 196

# Image of Surfing Perimeter Columns From East



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Details Matter: [Fiterman Hall, the Pentagon](#) and the East Face of the South Tower 197

# Image of Surfing Perimeter Columns From East



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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 198



# Photos by Noe DeWitt & Carrie Hunt



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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 199

# Photos by Noe DeWitt & Carrie Hunt

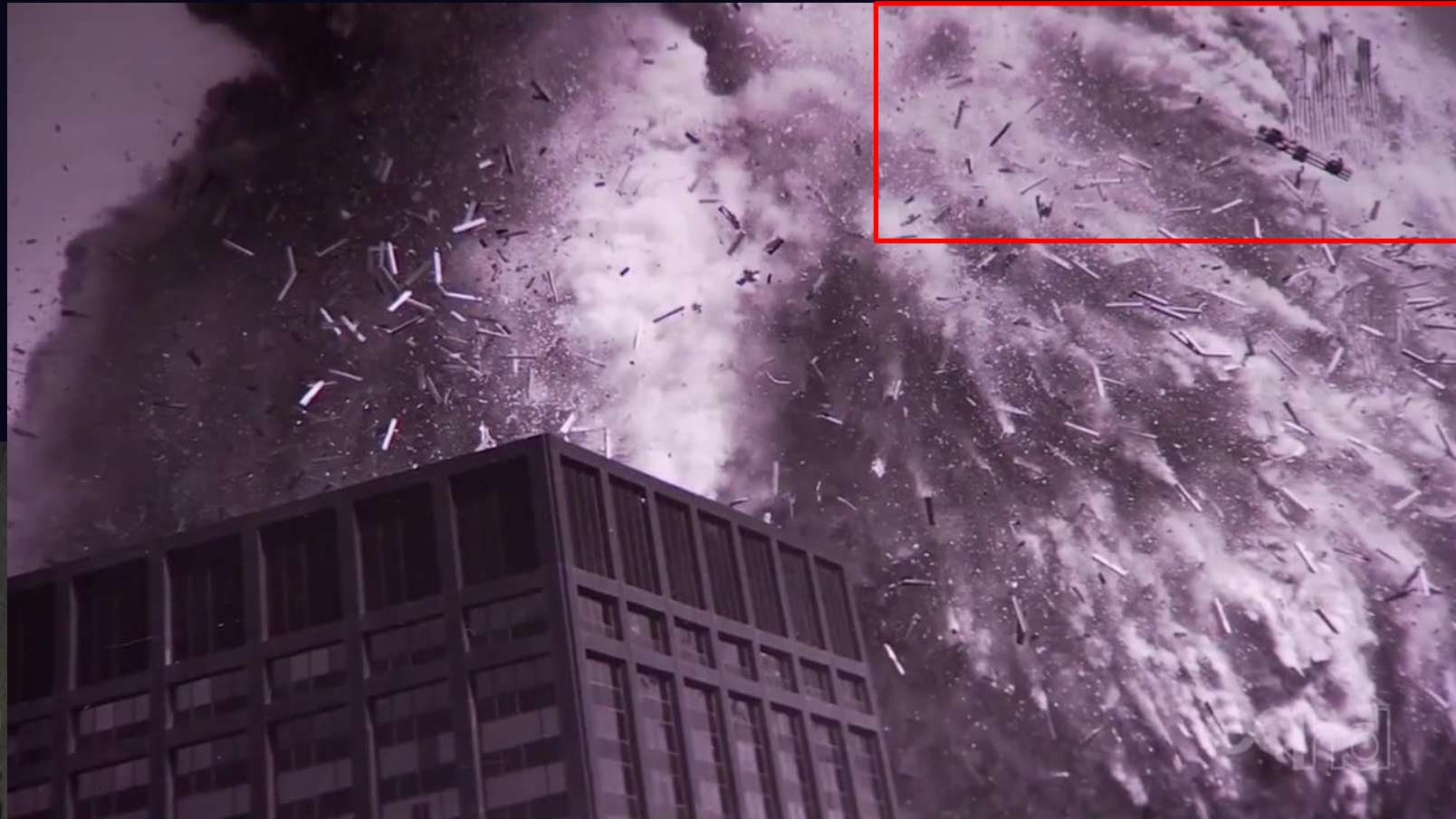


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Details Matter: [Fiterman Hall, the Pentagon](#) and the East Face of the South Tower 200



# Photos by Noe DeWitt & Carrie Hunt



Deutsche Bank  
Building / Bankers  
Trust

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and the East Face of the South Tower

Surfing perimeter columns behind Millennium Hotel are clearer in video than stills

# Screenshot from Another Video



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and the East Face of the South Tower

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The Case for Propelled Demolition

# **ANALYZING THE MOVEMENT OF SURFING PERIMETER COLUMNS**

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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 203

# Surfing Columns First Visible (set t=0)

+00/30<sup>th</sup> sec

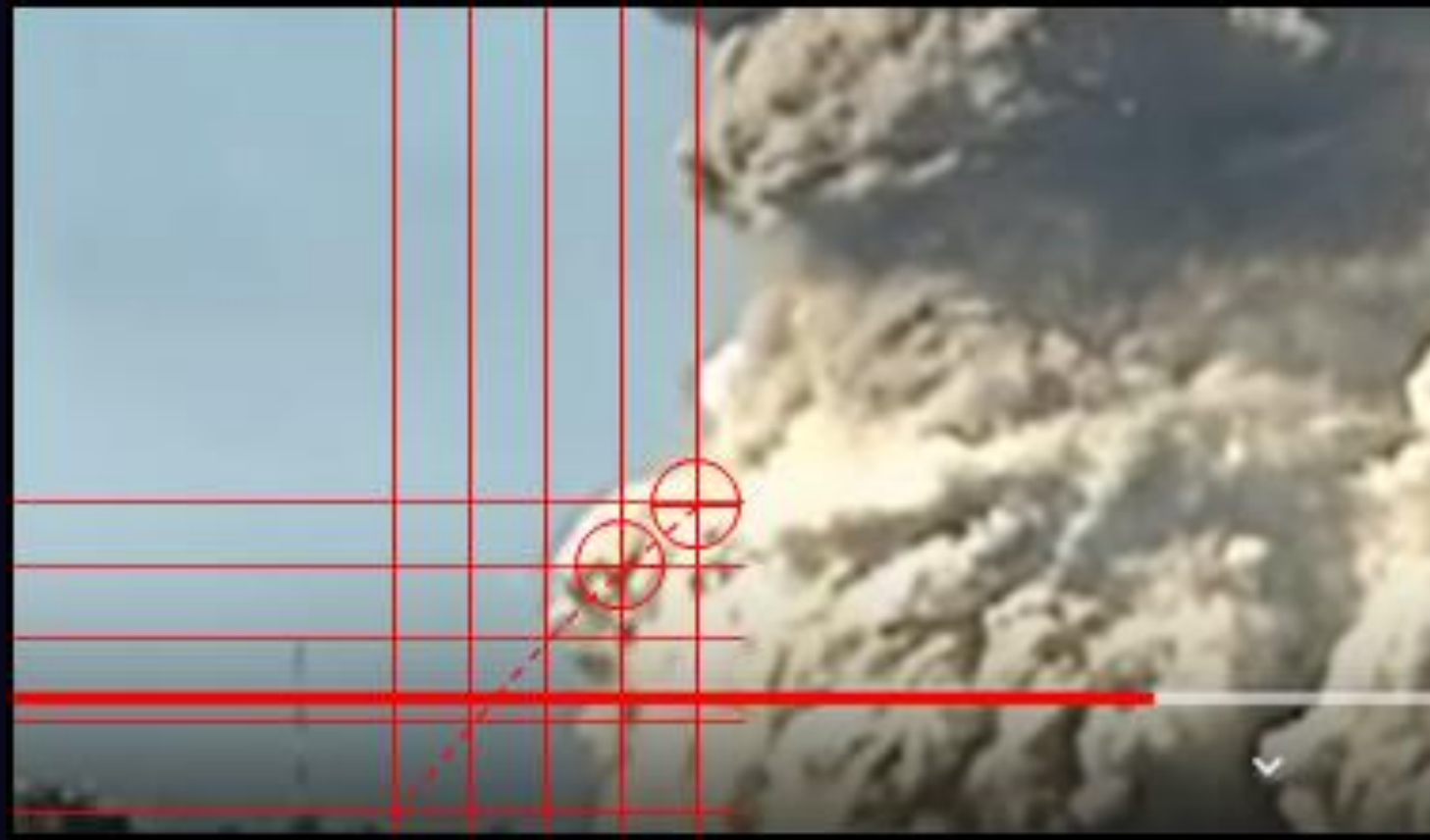


Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 204

# Surfing Columns Continue Eastbound and Down

+10/30<sup>th</sup> sec



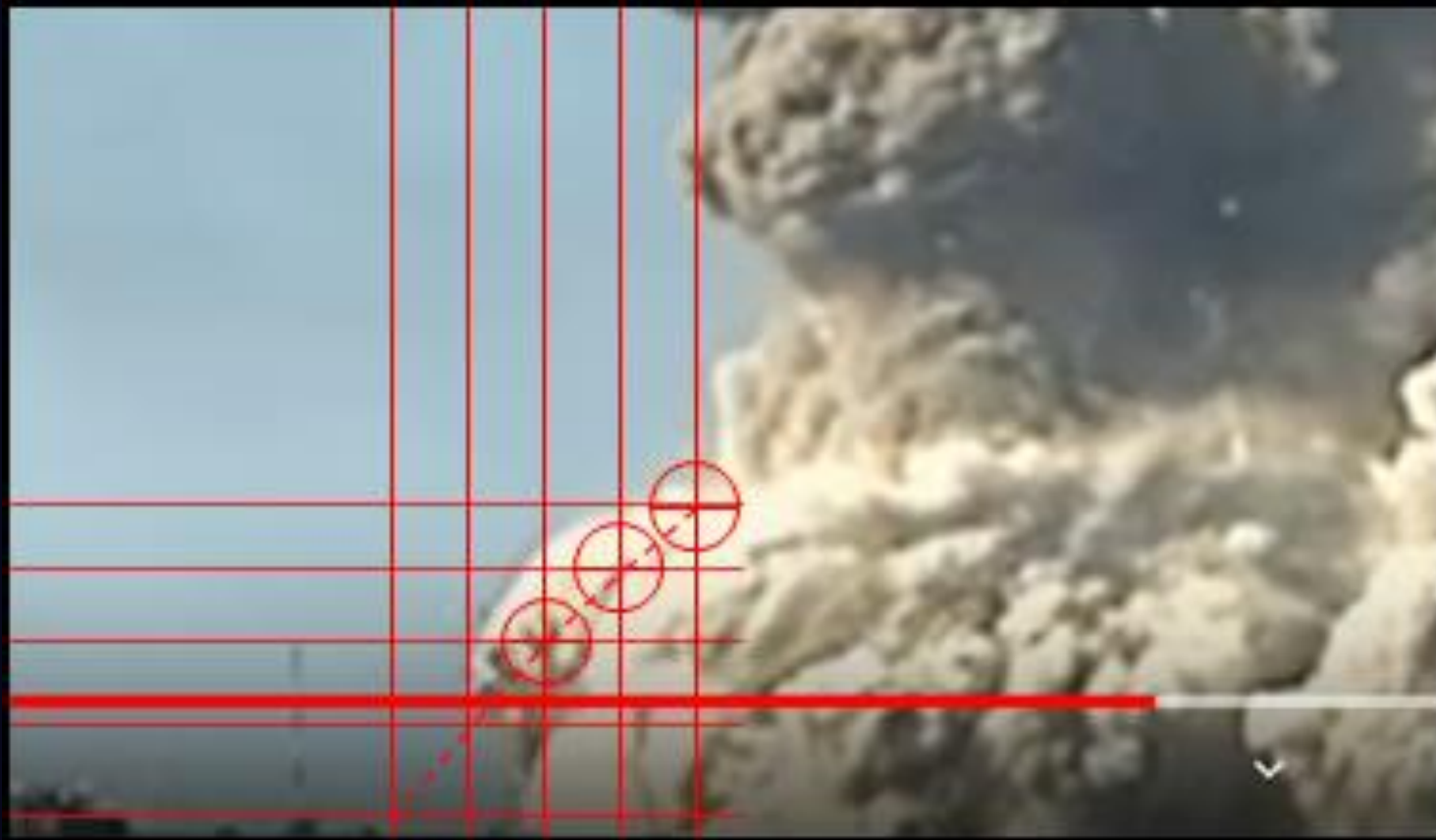
Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 205



# Surfing Columns Continue Eastbound and Down

+20/30<sup>th</sup> sec

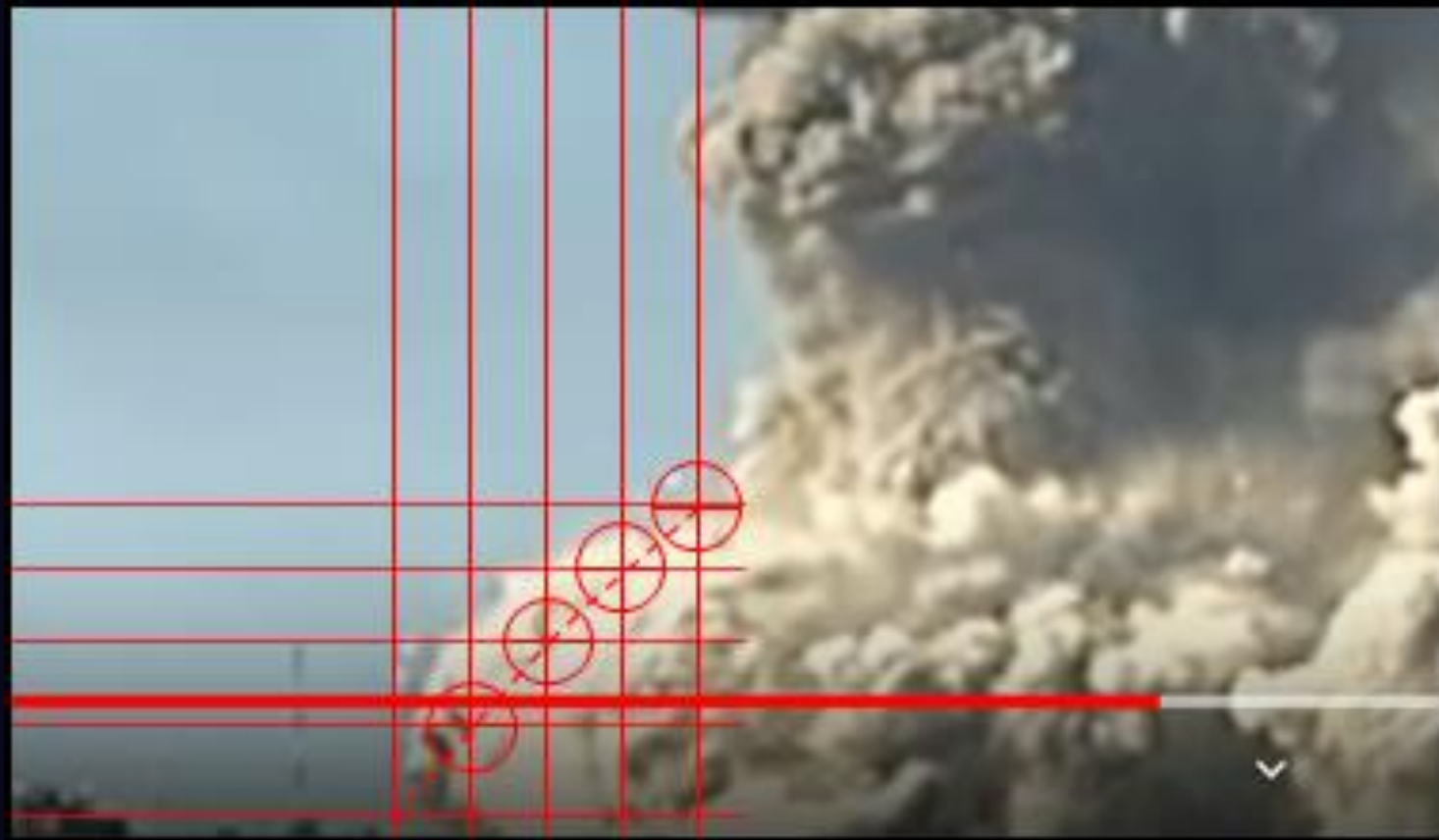


Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 206

# Surfing Columns Continue Eastbound and Down

+30/30<sup>th</sup> sec

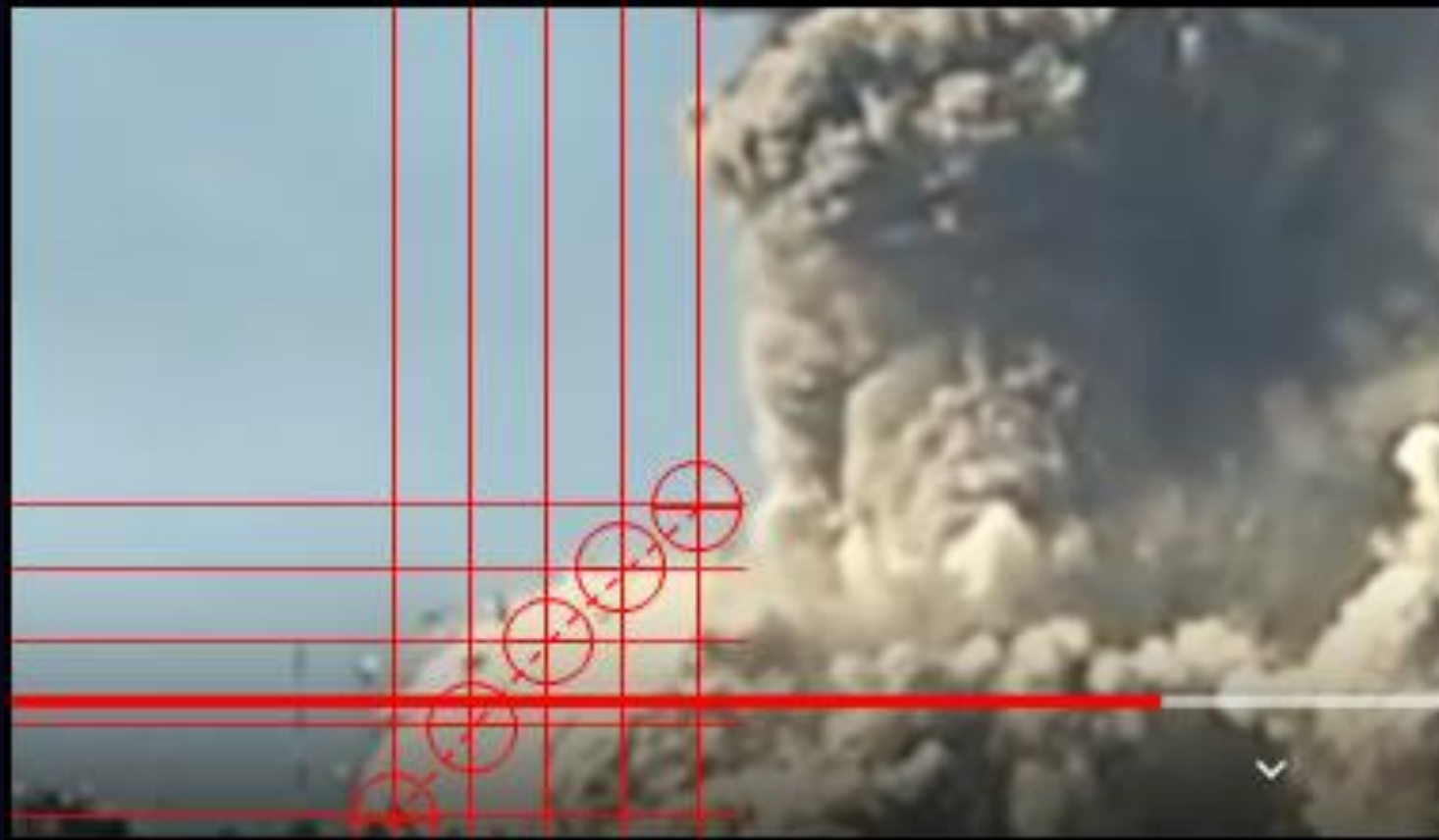


Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 207

# Surfing Columns Continue Eastbound and Down

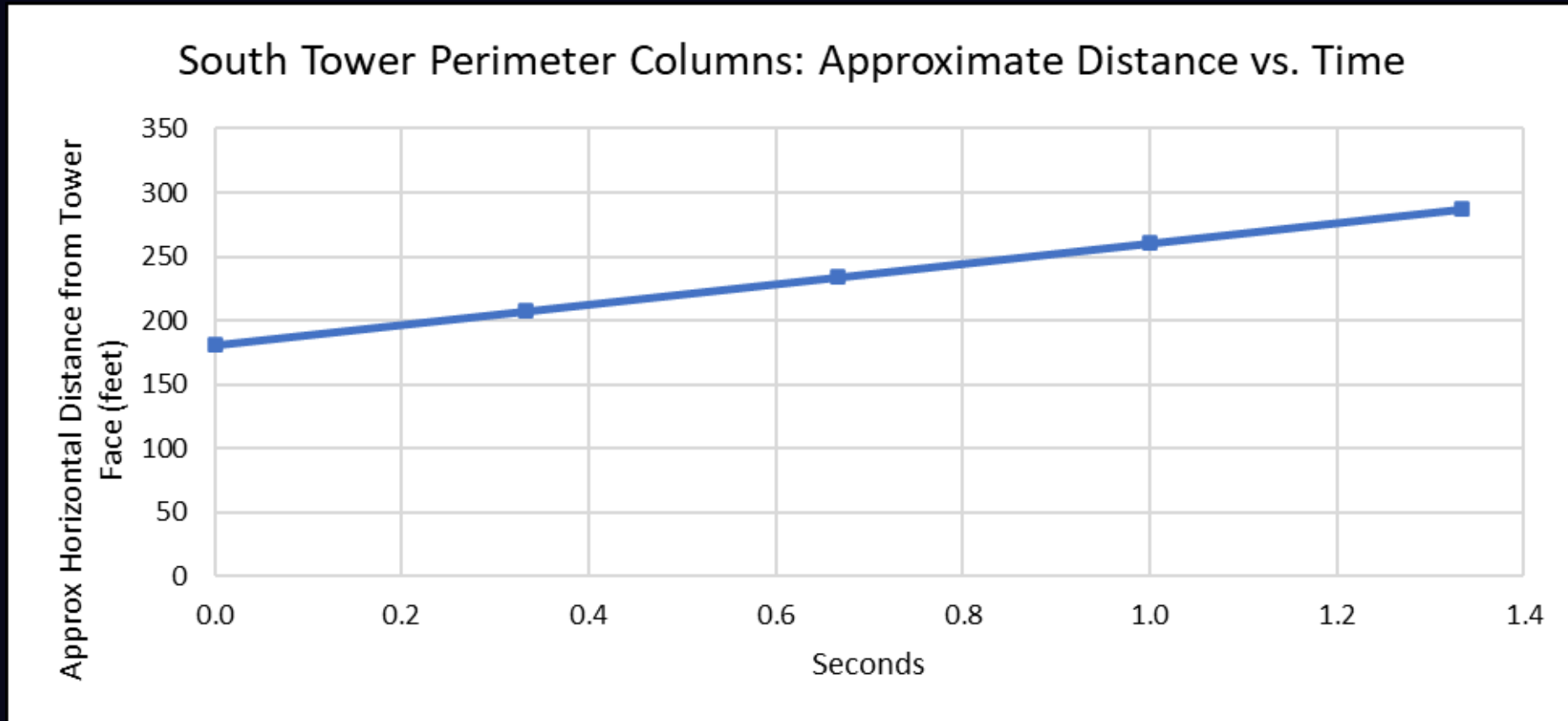
+40/30<sup>th</sup> sec



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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 208

# Horizontal Distance Data

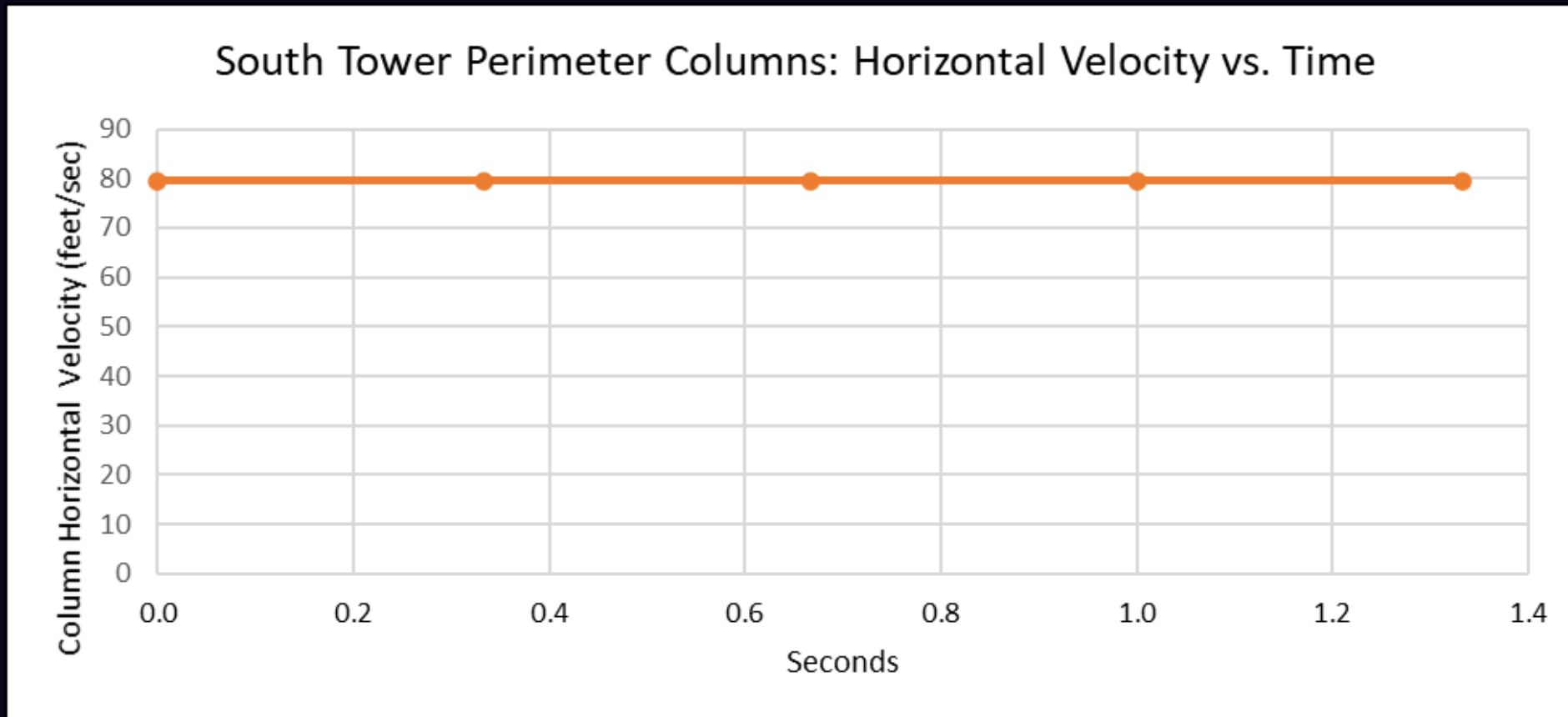


All values should be increased by 1.08 because cosine 22 degrees was not included.

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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

# Horizontal Velocity



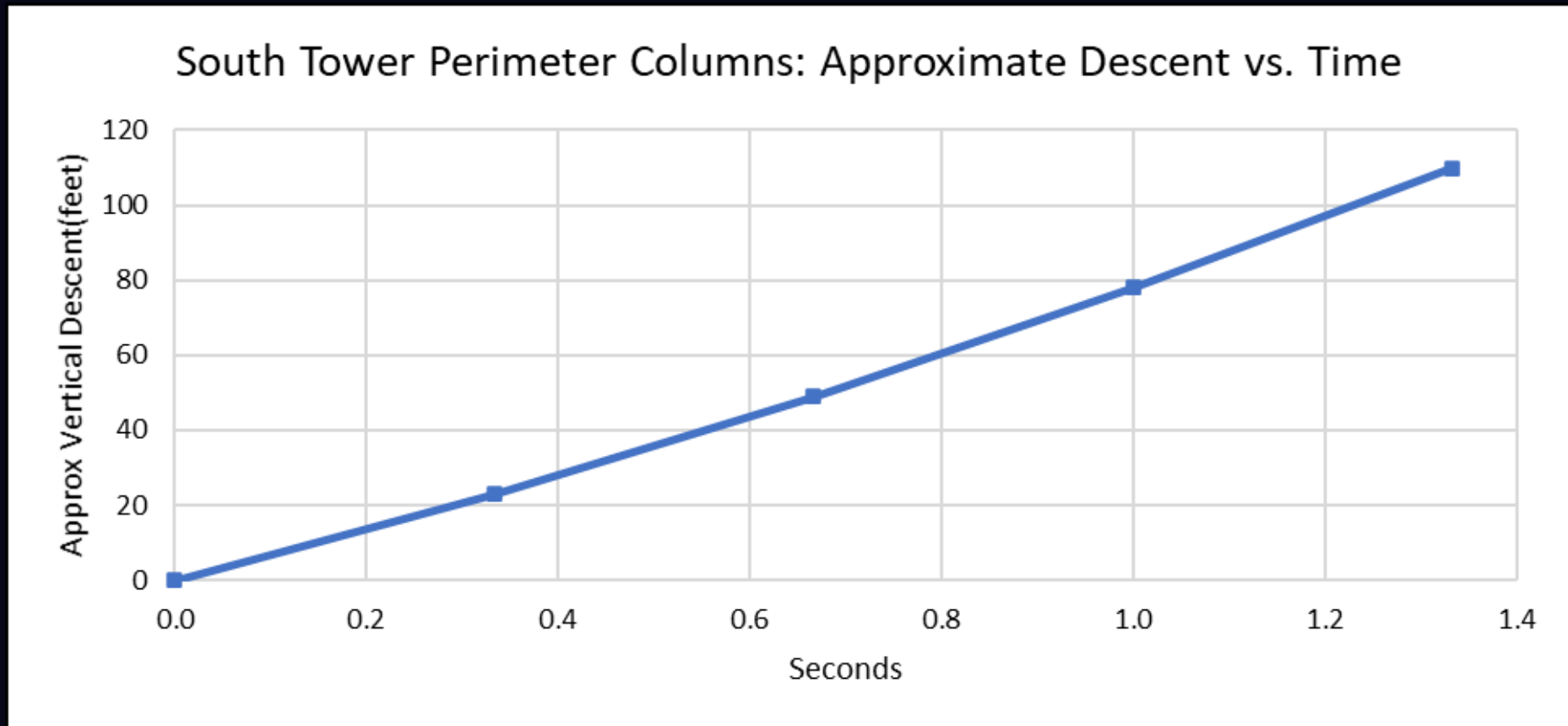
All values should be increased by 1.08 because cosine 22 degrees was not included.

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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower



# Vertical Distance Data

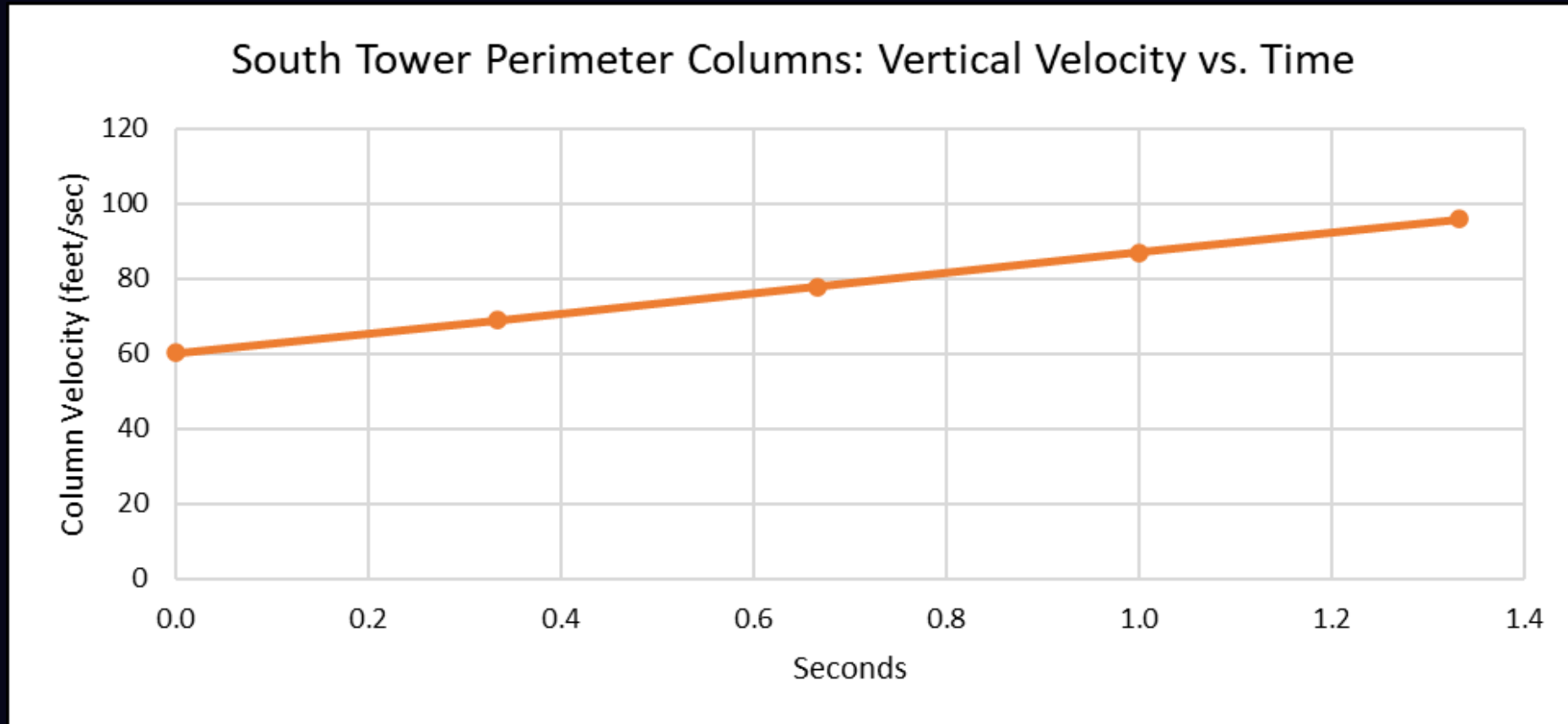


All values should be increased by 1.08 because cosine 22 degrees was not included.

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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

# Vertical Velocity

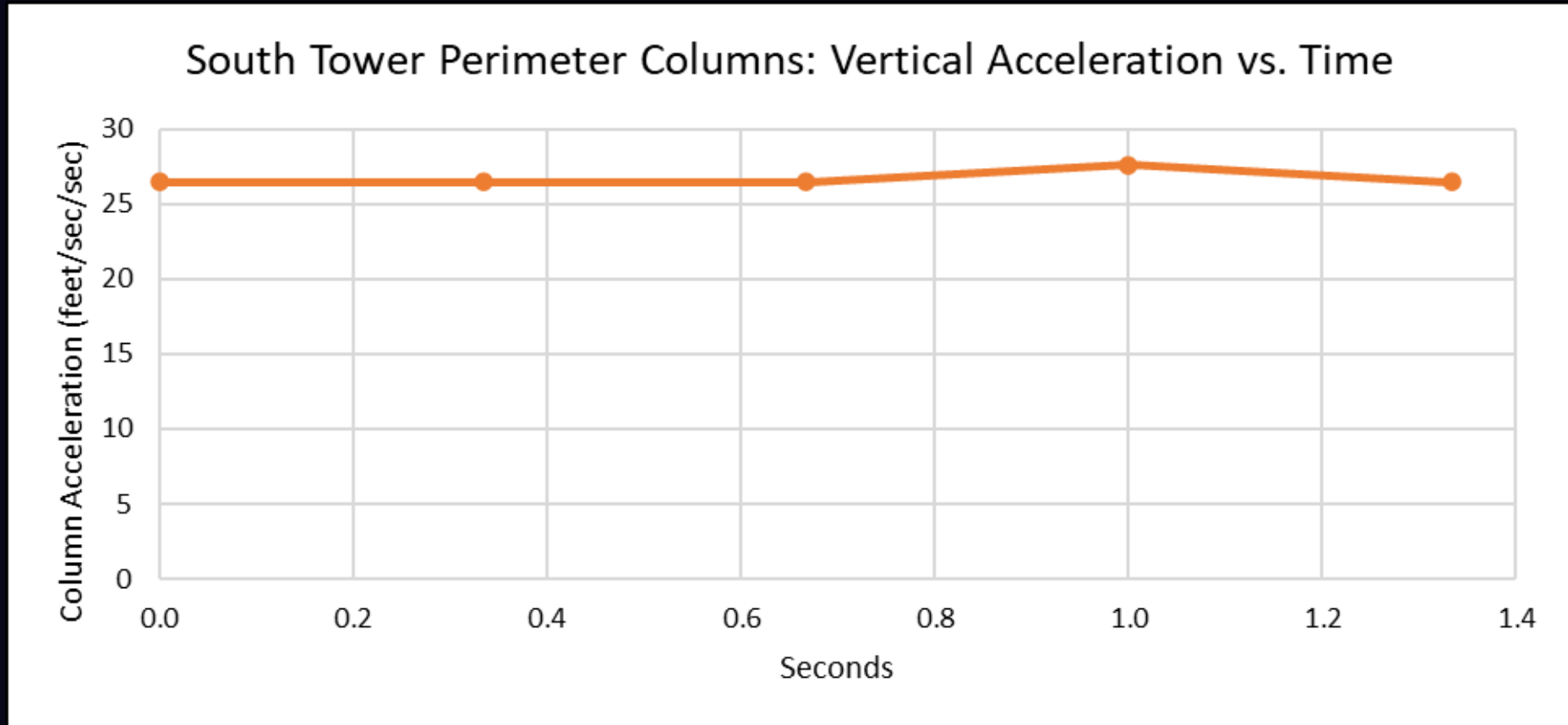


All values should be increased by 1.08 because cosine 22 degrees was not included.

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and the East Face of the South Tower

# Vertical (Freefall) Acceleration



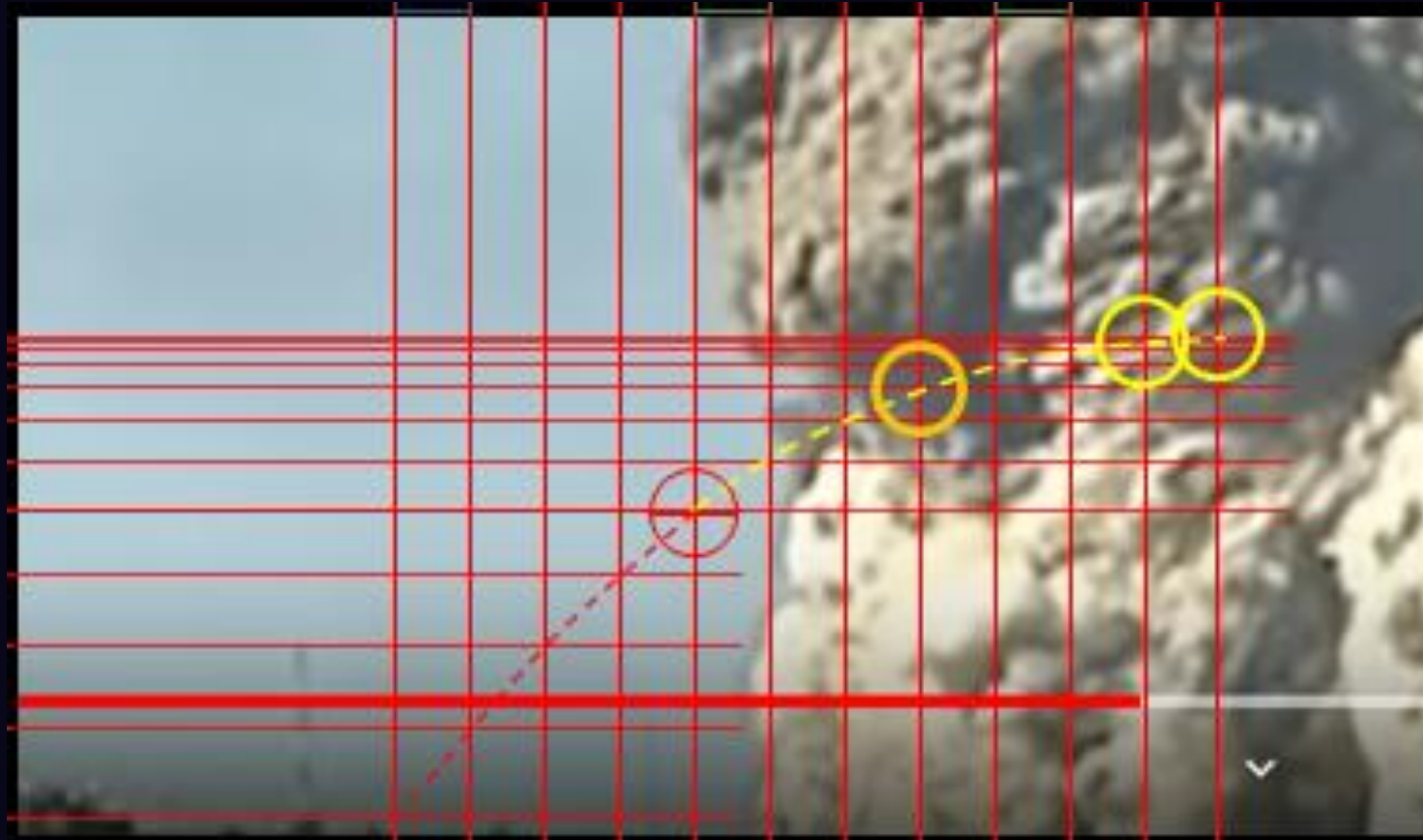
All values should be increased by 1.08 because cosine 22 degrees was not included.

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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

# Earlier Positions Determined Using Equations

-30/30<sup>th</sup> sec

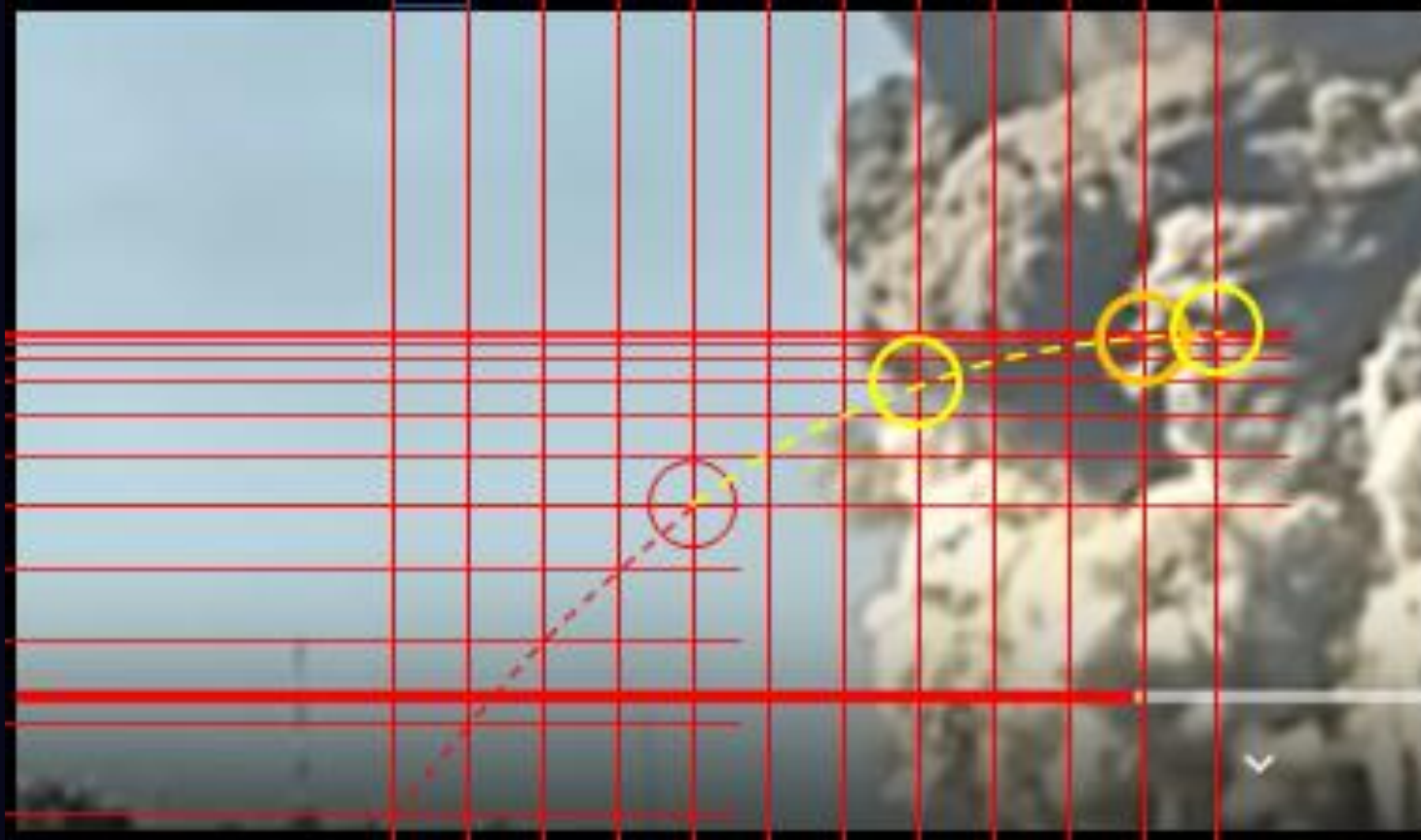


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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 214

# Earlier Positions Determined Using Equations

-60/30<sup>th</sup> sec



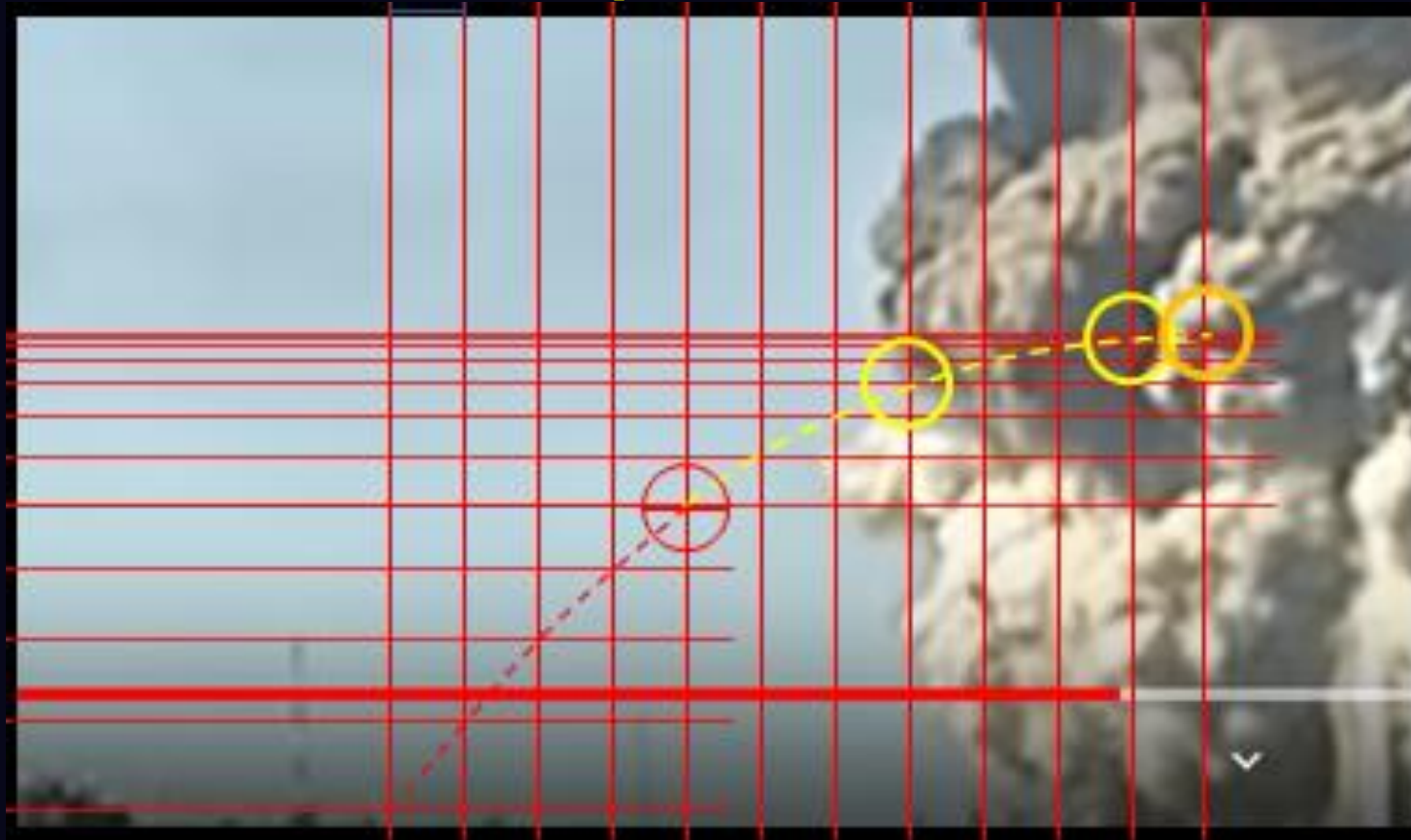
Member, [ScientistsFor911Truth.org](http://ScientistsFor911Truth.org)

Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 215



# Earlier Positions Determined Using Equations

-74/30<sup>th</sup> sec

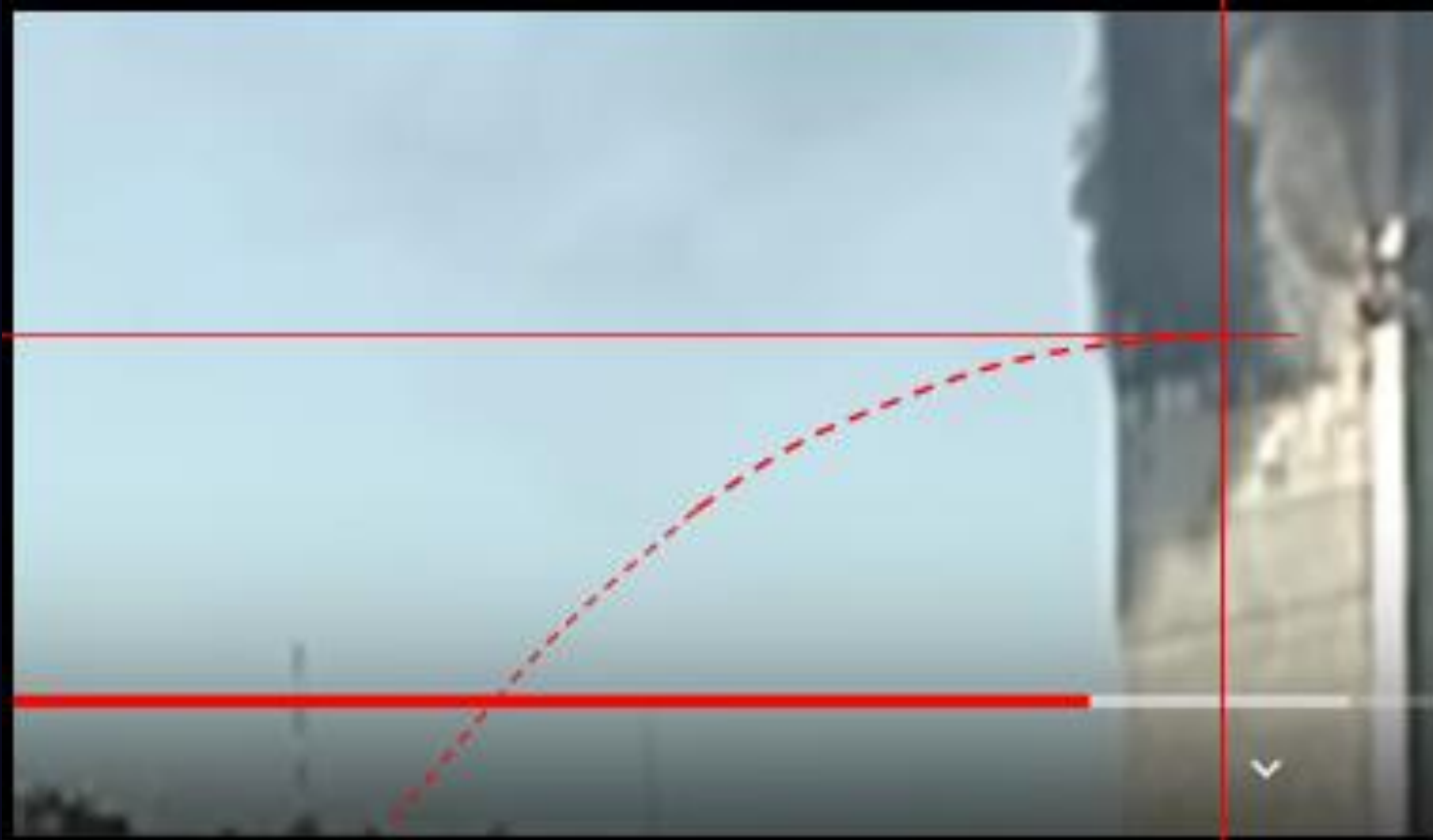


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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 216

# Location of Perimeter Columns at -2.5 Seconds

-74/30<sup>th</sup> sec



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Details Matter: [Fiterman Hall, the Pentagon](#) and the East Face of the South Tower 217

# Calculations / Data Table

| Horizontal | s        | s'       | s''          |
|------------|----------|----------|--------------|
| Time       | Position | Velocity | Acceleration |
| sec        | (ft)     | (ft/sec) | (ft/sec/sec) |
| -2.27      | 0.2      | 79.5     |              |
| -1.98      | 23.3     | 79.5     |              |
| -1.65      | 49.5     | 79.5     |              |
| -1.32      | 75.8     | 79.5     |              |
| -0.99      | 102.1    | 79.5     |              |
| -0.66      | 128.3    | 79.5     |              |
| -0.33      | 154.6    | 79.5     |              |
| 0.00       | 180.8    | 79.5     |              |
| 0.33       | 207.3    | 79.5     |              |
| 0.67       | 233.8    | 79.5     | 0.0          |
| 1.00       | 260.3    | 79.5     | 0.0          |
| 1.33       | 286.9    | 79.5     | 0.0          |
|            |          | 79.5     | ft/Sec       |
|            |          | 54.2     | mph          |

| Vertical | s        | s'       | s''          |
|----------|----------|----------|--------------|
| Time     | Position | Velocity | Acceleration |
| sec      | (ft)     | (ft/sec) | (ft/sec/sec) |
| -2.27    | -58.7    | 0.1      | 26.5         |
| -1.98    | -58.7    | 7.8      | 26.5         |
| -1.65    | -56.1    | 16.5     | 26.5         |
| -1.32    | -50.6    | 25.3     | 26.5         |
| -0.99    | -42.3    | 34.0     | 26.5         |
| -0.66    | -31.1    | 42.7     | 26.5         |
| -0.33    | -17.0    | 51.5     | 26.5         |
| 0.00     | 0.0      | 60.2     | 26.5         |
| 0.33     | 23.0     | 69.0     | 26.5         |
| 0.67     | 48.9     | 77.8     | 26.5         |
| 1.00     | 77.9     | 87.0     | 27.6         |
| 1.33     | 109.9    | 95.8     | 26.5         |

All values should be increased by 1.08 because cosine 22 degrees was not included.

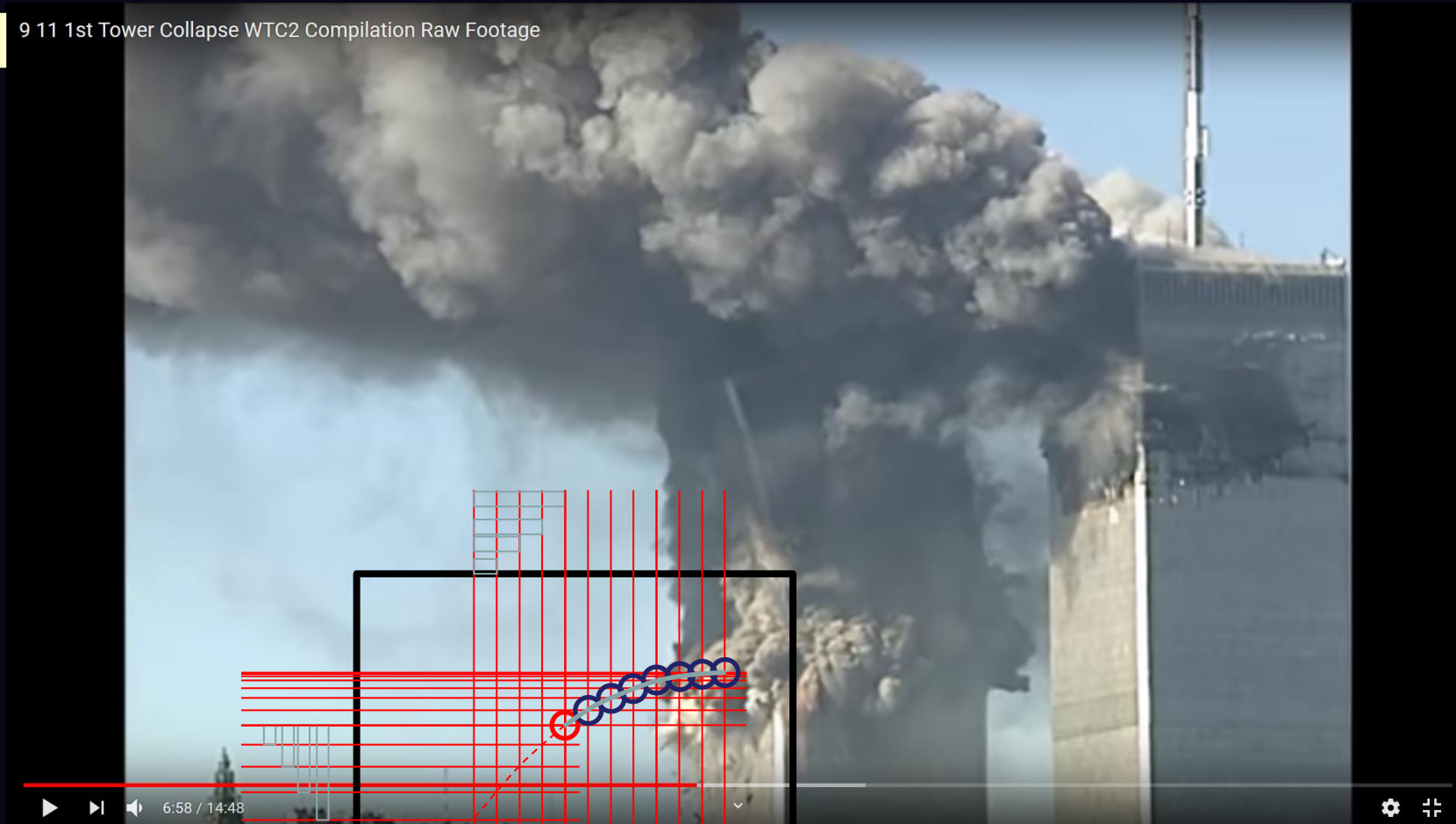
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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

# Mark Observations in the Vertical / Horizontal

-120/30th

9 11 1st Tower Collapse WTC2 Compilation Raw Footage



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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower

# Entire Wall Can't be Pivoting Around a Point

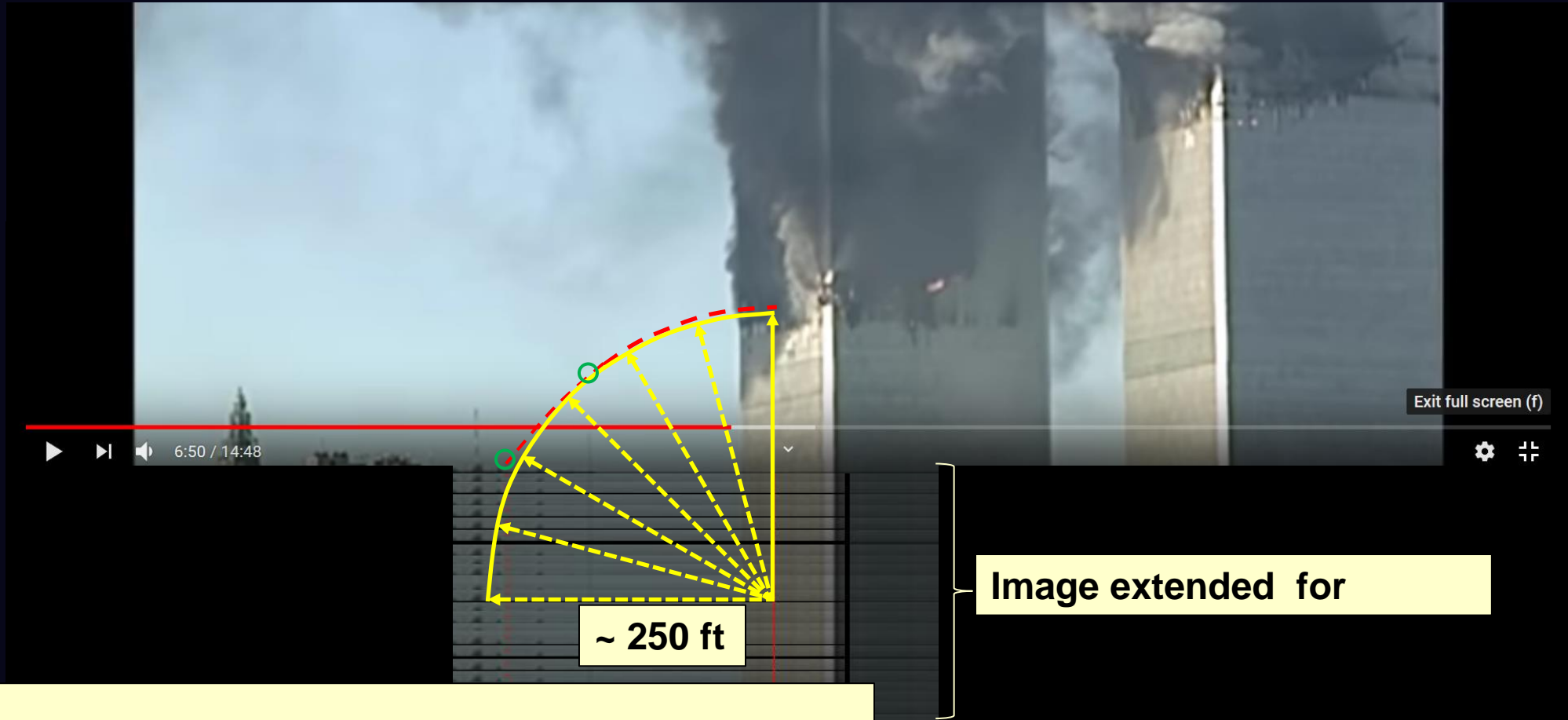


Image extended for

## Notes:

- Horizontal motion of chimney starts at zero and accelerates
- Lower perimeter columns should still be attached to structure

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Details Matter: [Fiterman Hall, the Pentagon](#)  
and the [East Face of the South Tower](#)



# Questions?

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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 221

# APPENDIX – OTHER WTC 7 DETAILS

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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 222

# WTC7 and Orientation of Verizon Building



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and the East Face of the South Tower

# Impact Damage to Verizon Building



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and the East Face of the South Tower



# Verizon Building Damage

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Details Matter: Fiterman Hall, the Pentagon  
and the East Face of the South Tower 225



# Steel Frame into Verizon Building



Figure 7-7 Verizon building – damage to east elevation (Washington Street) due to WTC 7 framing leaning against the building.

# Steel Frame into Verizon Building



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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 227



# Exterior and Core Wind Bracing

## Exterior and Core Wind Bracing

Wind bracing trusses were added to the lower core and exterior walls of WTC 7 and were included in the global model. The belt truss at Floors 22 to 24, which was part of the exterior framing, was also included. Truss members were included as beam elements, and were merged directly into the columns.

The exterior wind bracing at the lower floors in the global model is shown in Figure 12–13. Core wind bracing is shown in Figure 12–14. The belt truss is shown in Figure 12–15.

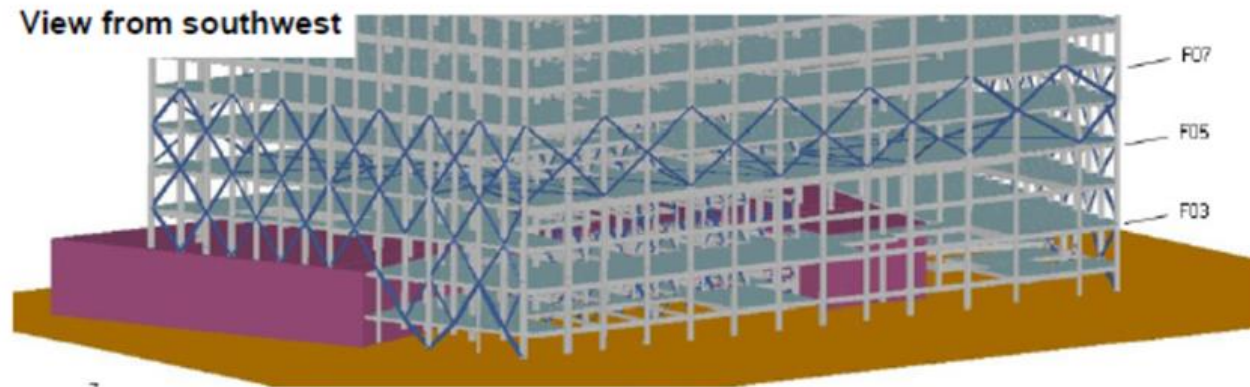


Figure 12–13. Exterior wind bracing in the lower floors of the global model.

# Exterior and Core Wind Bracing

View from southwest

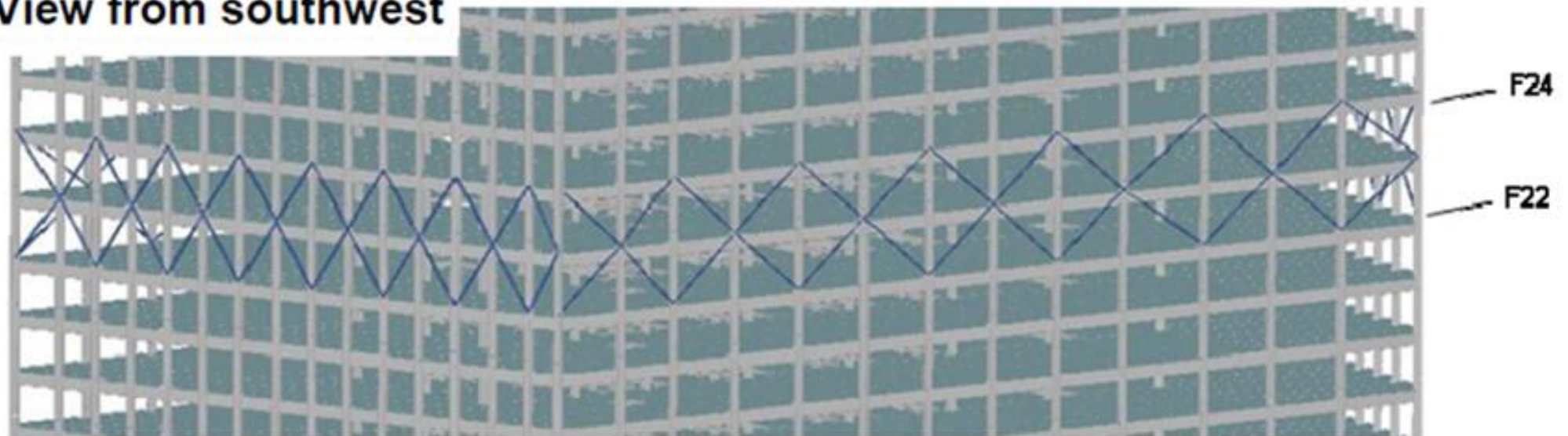


Figure 12–15. Belt truss cross-bracing in the global model.

# Frames in Distinctly Different Pile than Main WTC 7 Debris Pile

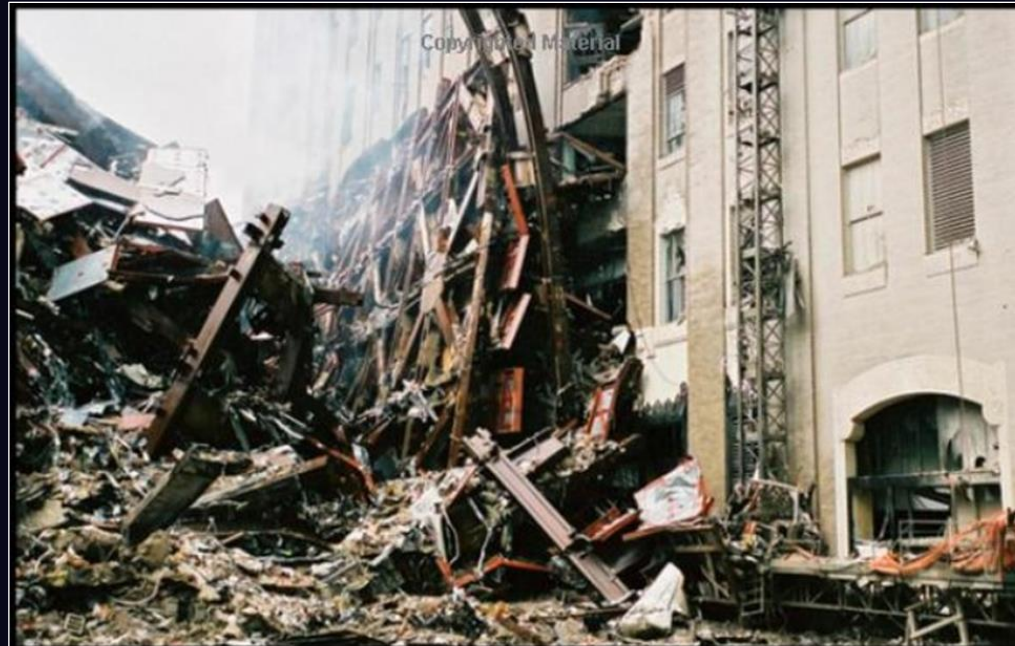


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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 230



# Section With Wind Cross Bracing



## BEYOND REDUNDANCY

*How Geographic Redundancy Can Improve  
Service Availability and Reliability  
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# Section With Wind Cross Bracing



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# Section With Wind Cross Bracing



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Details Matter: Fiterman Hall, the Pentagon and the East Face of the South Tower 233



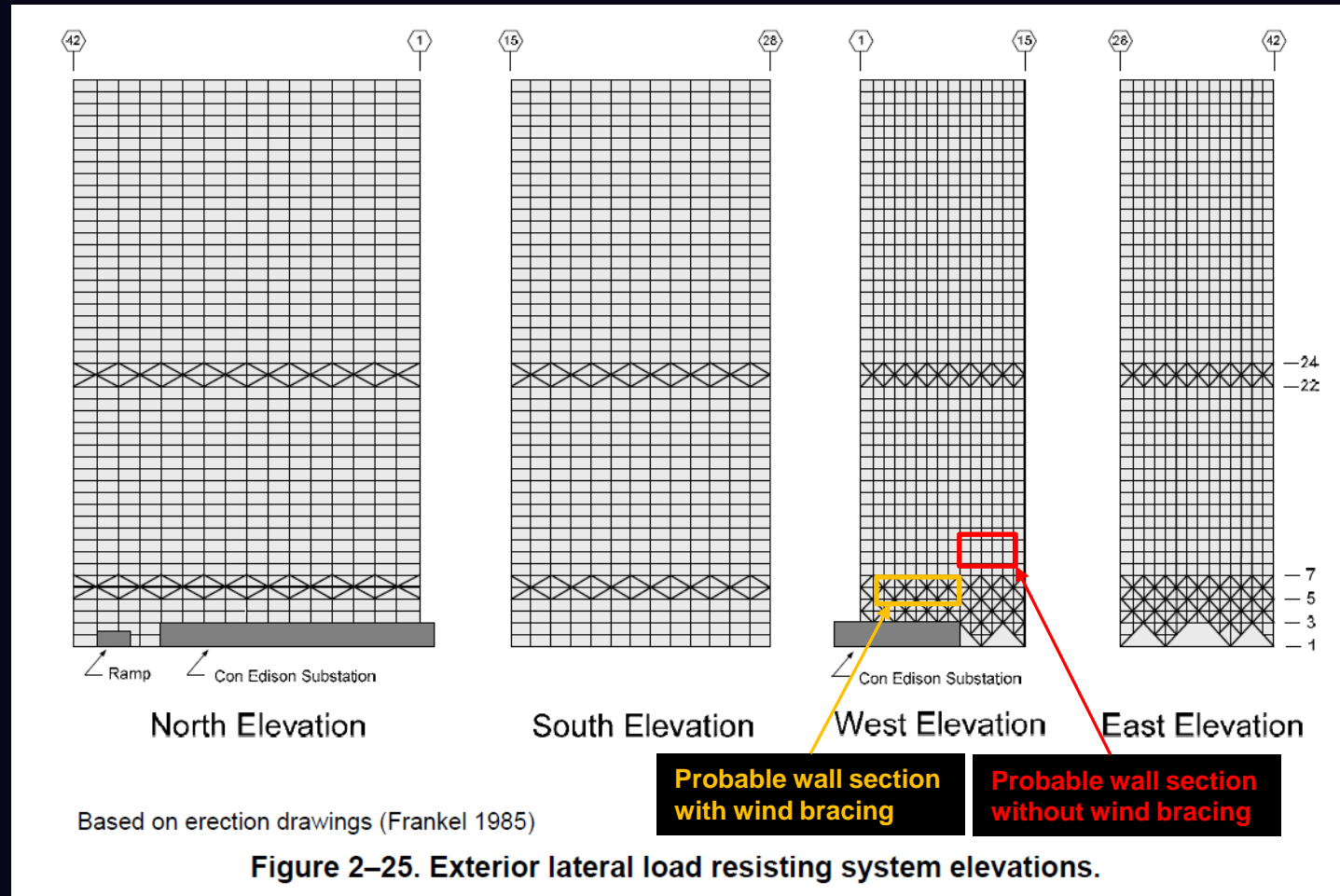
# Top View of Main WTC Debris Pile and Verizon



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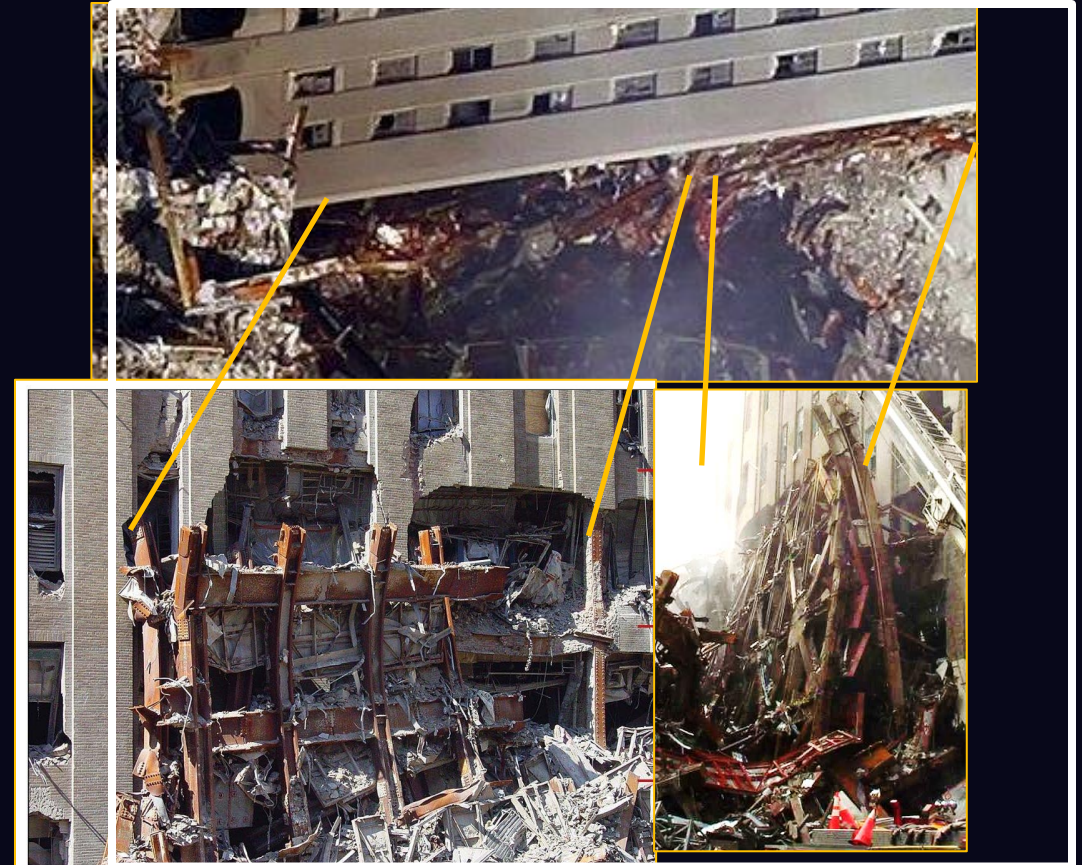
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# Probable Location of WTC 7 Steel Frames





# Two Orientations Showing Placement



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# End

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