

EXHIBIT E – Analysis of Markings on WTC 7 Steel Members

Markings on WTC Steel Which Identify Structural Members as of WTC 7

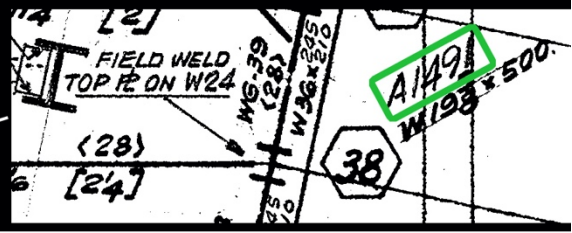
- Example #1: Column Line No. 38, Floors 9-11 Section (East Exterior Wall)

Author: K. Koenig
Created on: Sept. 14, 2020
Last revised: Sept. 28, 2020

"27. Why didn't the investigators look at actual steel samples from WTC 7?"

Steel samples were removed from the site before the NIST investigation began. In the immediate aftermath of Sept. 11, 2001, debris was removed rapidly from the site to aid in recovery efforts and to facilitate emergency responders' efforts to work around the site. Once it was removed from the scene, the steel from WTC 7 could not be clearly identified. Unlike the pieces of steel from WTC 1 and WTC 2, which were painted red and contained distinguishing markings, WTC 7 steel did not contain such identifying characteristics."

From NIST WTC7 FAQs (retrieved on Sept. 6, 2020). Emphasis added.
<https://www.nist.gov/topics/disaster-failure-studies/faqs-nist-wtc-7-investigation>



Excerpts from erection drawing sheet #10/11 (Frankel Steel, 1985) for floors 10-11.
Source: 911datasets.org / NIST_WTC7_FOIA_12-009

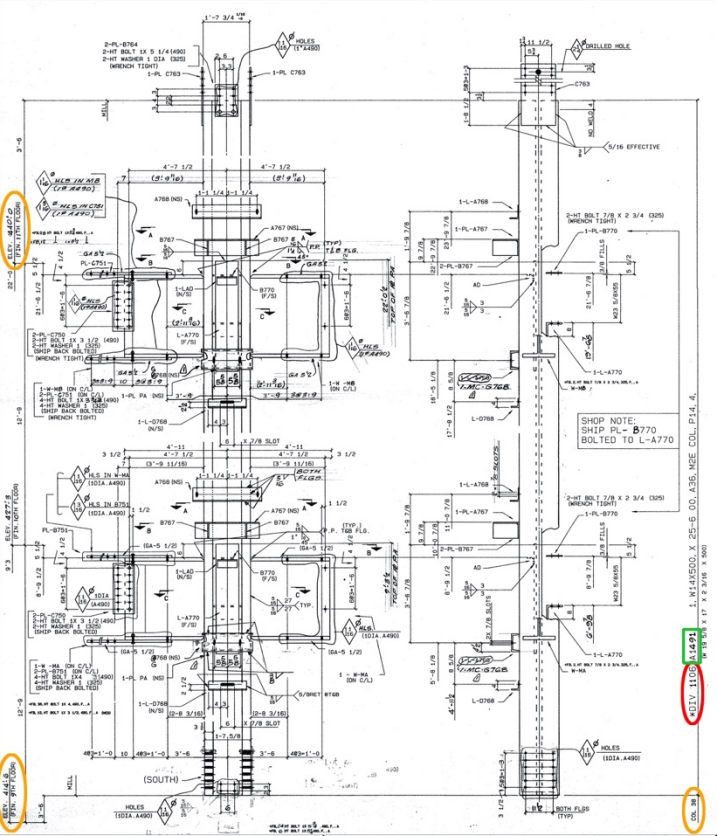
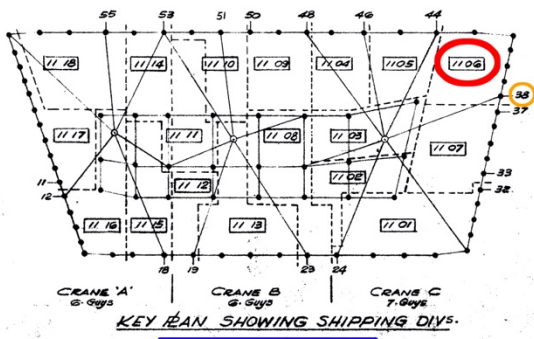


Photo of a marked column end shot by John L. Gross (NIST) for FEMA/ASCE WTC BPS (Oct. 2001 - May 2002). Taken on October 9th, 2001 (name of photo folder) at a scrap yard.
Source: 911datasets.org / International_Center_for_911_Studies_NIST_FOIA / Release_37 / Release_37 / 42A0525 - G38D4 / WTCI-63-FEMA / CD1 / jlg9Oct / P1010069.JPG

R	3	DATE	BY	SPEC	AS NOTED	FRANKEL STEEL LIMITED 220 ATTWELL DRIVE, UNIT 1, REXDALE, ONTARIO M9M 5E2		
E	2	DATE	BY	HOLES	1 3/16 DIA U/N			
V	3	DATE	JUNE 7/85	BY	BYGM		FINISH NONE	
MADE	27	MSM	DATE	MAY 1985	SQUAD	PROJECT: 7 WORLD TRADE CENTER	CONTRACT	DWG. NO.
CHK'D	28	MSM	DATE	MAY 1985	FR	DETAIL: COLUMN (6TH TIER) ZONE 2	84-152	14-91

Two combined excerpts from shop drawing #1491. Source: 911datasets.org / NIST_WTC7_FOIA_12-009

Markings on WTC Steel Which Identify Structural Members as of WTC7

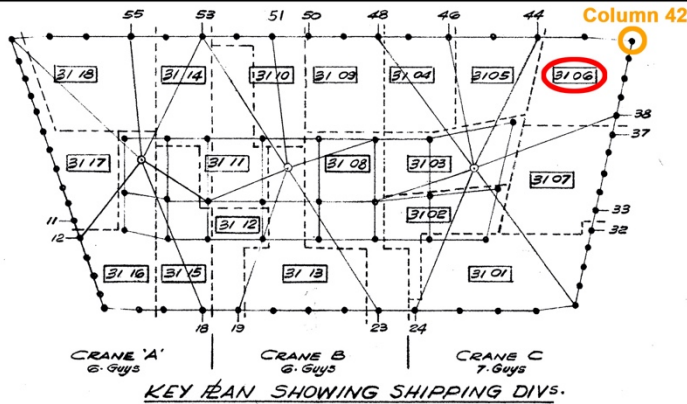
Author: K. Koenig
 Created on: Sept. 25, 2020
 Last revised: Sept. 28, 2020

- Example #2: Column Line No. 42, Floors 29-31 Section (NE Corner Exterior Column)

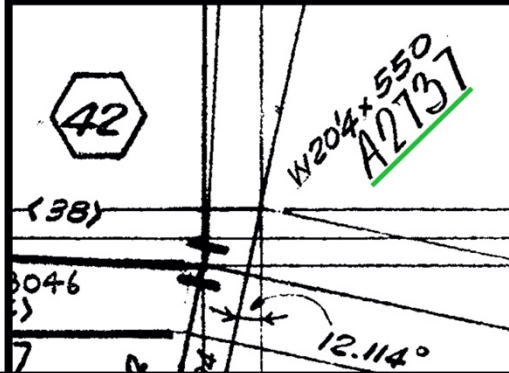
"27. Why didn't the investigators look at actual steel samples from WTC 7?"

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<https://www.nist.gov/topics/disaster-failure-studies/faqs-nist-wtc-7-investigation>



Two excerpts taken from erection drawing E30/31 for floors 30-31 (Frankel Steel, 1985).
 Source: 911datasets.org / NIST_WTC7_FOIA_12-009



[NOTE: WTC7 shop drawing #2737 isn't publicly available because NIST allegedly couldn't obtain a complete set of the shop drawings, despite having the right to subpoena evidence, as given by the National Construction Safety Team Act, under which the agency carried out its WTC Disaster Investigation (2002-2008).

In contrast to the above, parties in the civil case "Con-Edison vs WTC 7" were somehow able to acquire the entire set, among other building records. See for example the index of materials analyzed by Con-Edison's hired expert firm Guy Nordenson & Associates (Case No. 11-4403, Document 80-1, pp. 73-75).

Significant gaps spotted in the shop-drawings set from NIST releases pertaining to FOIA requests #12-009 (Ron Brookman) and #12-169 (David Cole):

- #700 through #900,
- #2001 through #2999,
- #3142 through #4000, and
- #4501 through #9099

are found to be missing.]

Steel columns lying on a flatbed truck located north of WTC site, near Church & Walker Streets. Original photo taken on Sept. 21, 2001 by Dr. Abolhassan Astaneh-Asl for his own small study "WTC Post-Disaster Reconnaissance and Perishable Structural Engineering Data Collection" (Sept. 2001-Sept. 2002), sponsored by the National Science Foundation. Released by Astaneh-Asl, among other images, in April 2014 through his Google Drive account at the inquiry of David Cole and Roger B.
 Download source: <https://drive.google.com/drive/folders/0B4-ljXL8uzWAciZLLVFPmU9yNDg?usp=sharing#list> (not publicly accessible) / File: 20140419131232922-final.pdf, PDF p. 20

Markings on WTC Steel Which Identify Structural Members as of WTC7

Author: K. Koenig
Created on: Sept. 27, 2020

- Example #3: Column Line No. 28, Floors 15-17 Section (SE Corner Exterior Column)

"27. Why didn't the investigators look at actual steel samples from WTC 7?"

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Two excerpts from erection drawing E16/17 (Frankel Steel, 1985) for floors 16-17.

Two combined excerpts taken from shop-drawing #1529 (Frankel Steel, 1985).

84-152 = Frankel Steel Contract No.
A1529 = Steel Component Serial ID
DIV-1701 = Shipping Division No.
<SOUTH> = Column Orientation Within Building (Markings faced the south side.)

17th Floor

15th Floor

Steel Component Serial ID "A1529"

Shipping Div. No. "1701"

Column 28

COL. 28 (TIER 9) (ZONE 2)
 7 WORLD TRADE-CENTER
 TISHMAN CONSTRUCTION CUSTOMER
 EMERY ROTH & SONS P.C. ARCHITECT
 IRWIN G. CANTOR P.C. ENGINEER

FRANKEL STEEL LIMITED
 220 ATTWELL DRIVE UNIT 1 REXDALE, ONTARIO M9W 5B2
 SQUAD FR
 MADE BY HL DATE APR 85 CHD. BY JIM DATE JUNE 85
 CONT. No. 84-152 SHEET 1529

KEY PLAN SHOWING SHIPPING DIVS.

FOR ADDITIONAL SHOPDRAW SEE DWG 388

ORIGINAL PHOTO TAKEN LIKELY BY GEORGE MILLER/NEW YORK CITY TRANSIT AUTHORITY, UNKNOWN DATE. DAMAGED AND FLOODED SUBWAY TUNNEL UNDERNEATH WEST BROADWAY WITH SOME WTC7 COLUMNS HAVING PENETRATED THE STREET AND TUNNEL'S CEILING.
 SOURCE: 911datasets.org/International_Center_for_911_Studies_NIST_FOIA/Release_18/Release18/42A0052 - G15/
 GeorgeMillerNYCTAfromCD/CD2-ExLarge/NYCTA-Miller_G_CD2-057.jpg