



Infrared Inspection Report

for

Turner Building Science, LLC

Building Location

25 Sigourney St.
Hartford, CT 06106

October 10, 2005

Thermographer: Bret Monroe

PO Box 1058, Kennebunk, Maine 04043

800-221-0163



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INFRARED ENERGY INSPECTION RESULTS

OF
25 Sigourney Street
Hartford, CT

FOR
Turner Building Science, LLC

Equipment Used: MITI Heat Find-IR Infrared Imaging System
Date Inspected: October 10, 2005
Outside Temperature: Approximately 59° F
Inside Temperature: 70°F
Weather Conditions: Cloudy, cool, partial rain on/off
Inspected From: Inside

Purpose of Inspection: To identify moisture in the wall and ceiling substrates

Note: When viewing images produced by Thermal Imaging systems, whiter areas represent warmer temperatures and darker areas represent cooler temperatures. When a building is viewed from the outside, the whiter areas would be areas of concern as these would be areas where the exterior surface is warmer and likely represents increased heat loss from the building from that area. When a building is viewed from the inside darker areas would be areas of concern as these would be areas where the interior surface is colder and likely represents increased cold entry into the building in that area.

Some areas of a building are known areas of increased heat loss such as framing members, glass surfaces, foundations, etc. Whiter areas viewed from the outside or darker areas from the inside on the tape could be due to either missing insulation, ineffectively installed insulation, air infiltrations, the presence of moisture or damp insulation, all of which could add to heating costs and can contribute to unpleasant side effects such as uncomfortable living conditions, mold/mildew growth, ice damming, etc. etc. The videotape of the inspection is provided as part of this report and should be reviewed as necessary by all those interested in examining the infrared findings documented on the day of the inspection.

The infrared inspection performed is qualitative not quantitative in nature, in that it detects surface temperature differences. Warmer exterior surface temperatures or colder interior surface temperatures detected in wall areas, if not appearing as framing members or a particular known product of reduced R-value such as glass, metal, etc., likely represent an unintended deficiency or problem with in the thermal envelope.

Because infrared detects only surface temperature differences it cannot look through the wall and tell you what the reason for the unusual pattern is. The areas identified as potentially containing moisture, was located because of the delta T and image pattern that is typically associated with wet substrate materials. Careful destruction testing into areas detected with the infrared would offer specific answers as to where and why that warm/cold area could be detected with the imaging system. If there is air movement within the wall cavities, the locations identified as containing moisture may dry out before destructive investigation can be completed. Careful analysis and inspection should be taken to identify the reason for the potential moisture anomaly located during the inspection.

Results of Inspection: The building was inspected with infrared during the day and evening hours of Oct 10th, 2005. Weather conditions during the inspection were cool with outside temperatures around 60°F with cloud cover and partial drizzle on and off. Interior temperatures in the building were maintained at approximately 65-75°F.

See report pages, for reference locations and areas including:

Floor 20- No Anomalies located
Floor 19- Report Pages 1-4
Floor 18- Report Pages 5- 18
Floor 17- Report Pages 19-21
Floor 16- Report Pages 22- 28
Floor 15- Report Pages 29-32
Floor 14- Report Pages 33- 36
Floor 12- Report Pages 37-39
Floor 11- Report Pages 40-43
Floor 10- Report Page 44
Floor 9 - Report Pages 45-46
Floor 8 - No Anomalies located
Floor 7 - Report Pages 47-48
Floor 6 - Report Page 49
Floor 5 - No Anomalies located

It should also be mentioned that several additional areas showed subtle image patterns that may be related to moisture being present in the substrate. They were not included in the report because they did not show the severity of the areas that were documented.

Please be sure to call on MITI with any questions you may have about the report or videotape and if we can be of further service.

Respectfully Submitted,

Bret Monroe
MITI Level III Thermographer
President
Monroe Infrared Technology Inc.



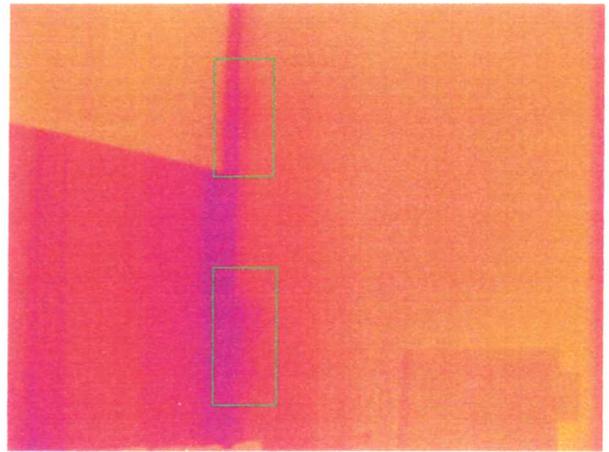
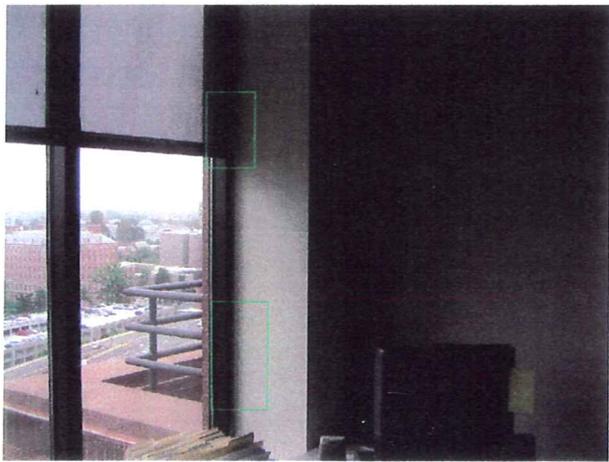
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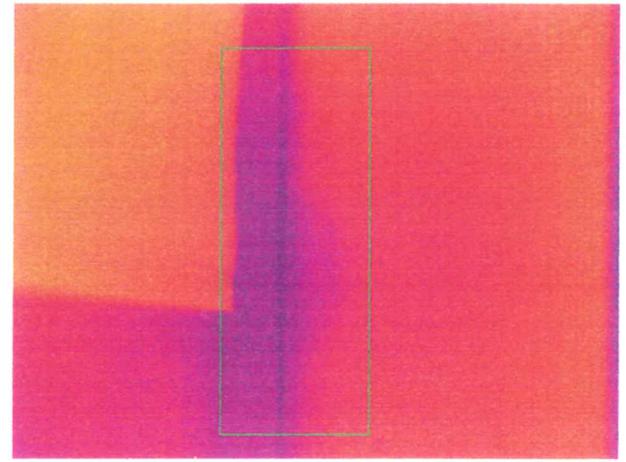
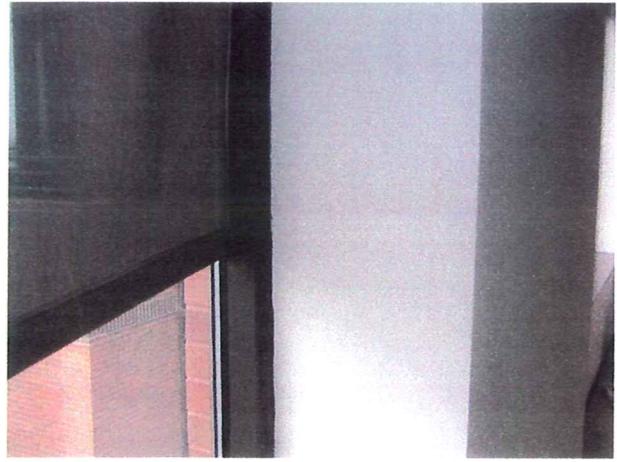
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CUSTOMER: HL Turner Building Science
LOCATION: 25 Sigourney St. Hartford, CT

Inspection Date: Oct. 10, 2005
Report Date: Oct. 13, 2005



Area: 19th floor, moisture area #1



Area: 19th floor, moisture area #2

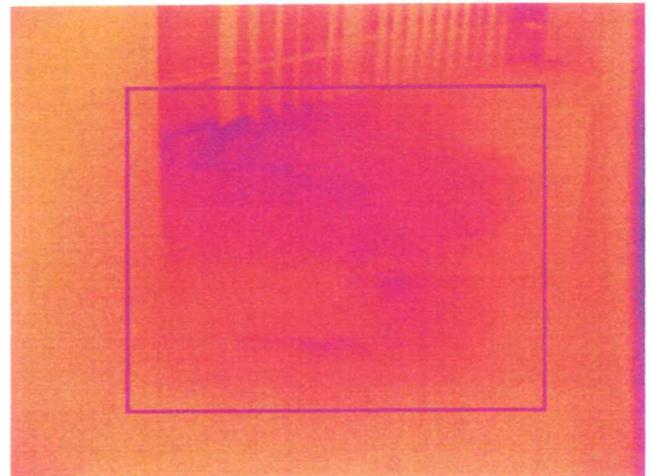
THERMOGRAPHER: Bret Monroe

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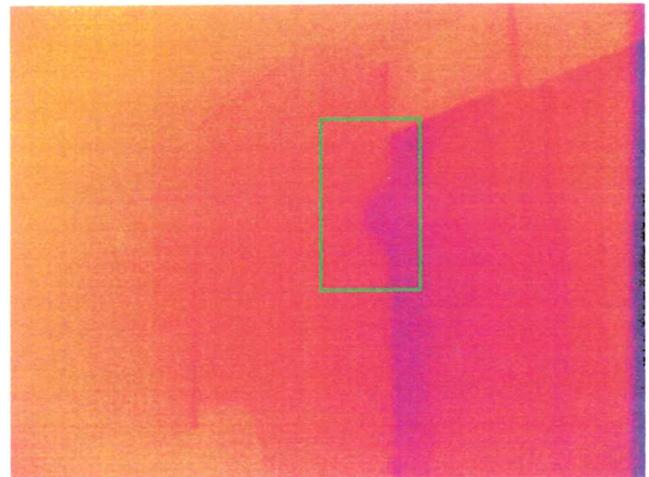
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Area: 19th floor, moisture area #3



Area: 19th floor, moisture area #4



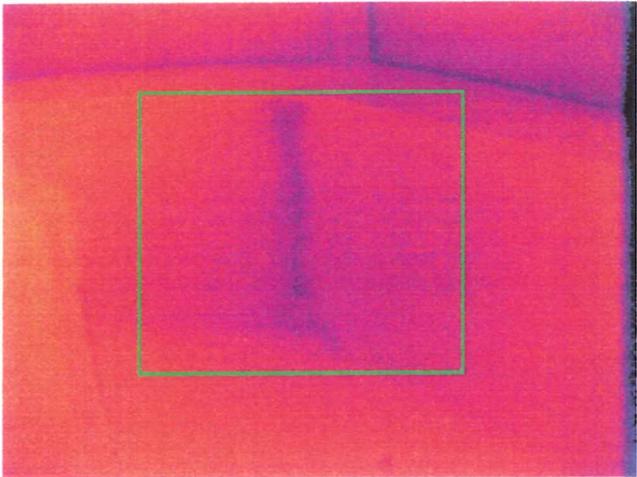
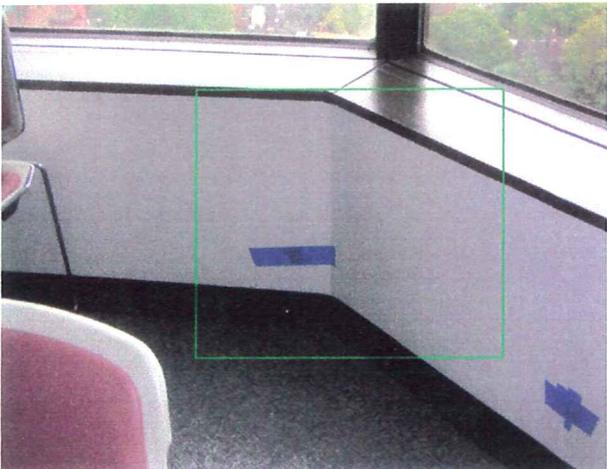
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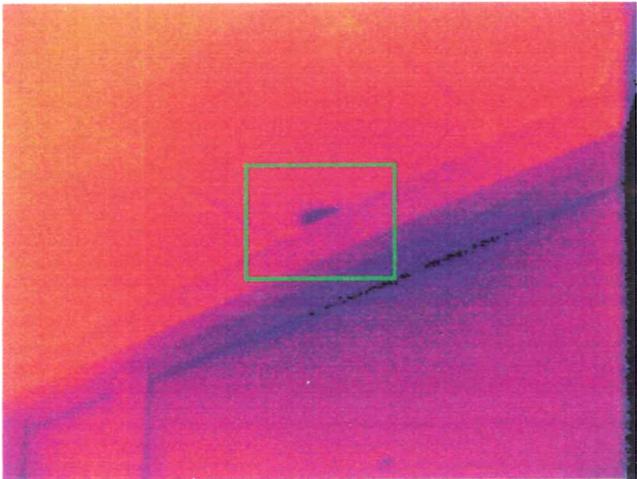
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CUSTOMER: HL Turner Building Science
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Area: 18th floor, moisture area #5



Area: 18th floor, moisture area #6



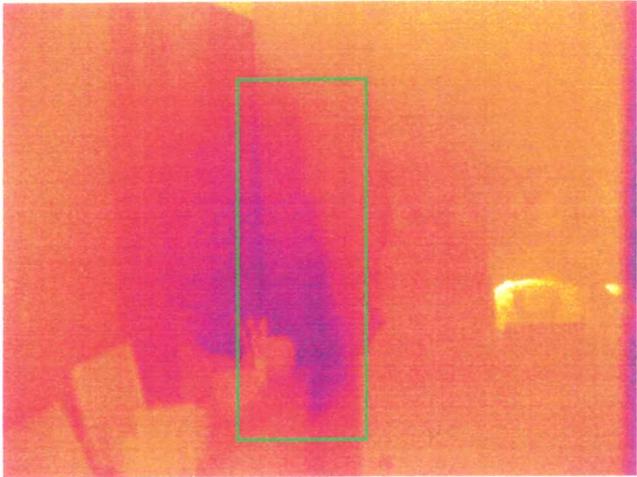
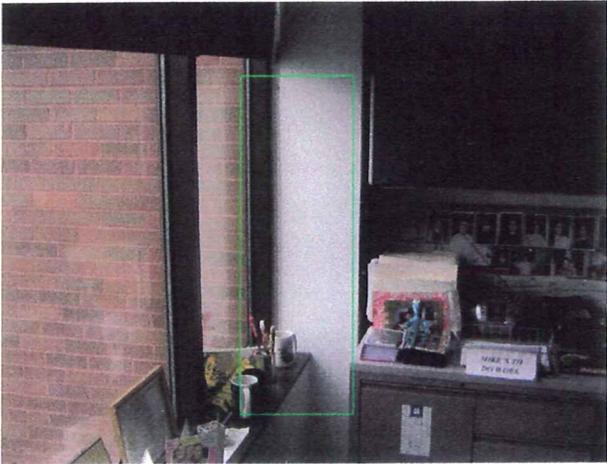
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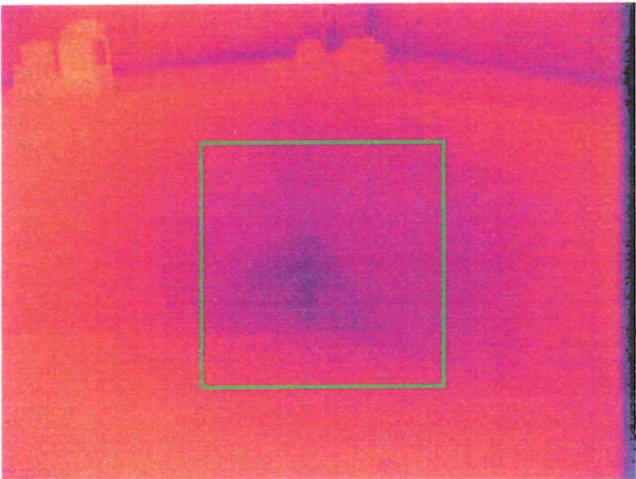
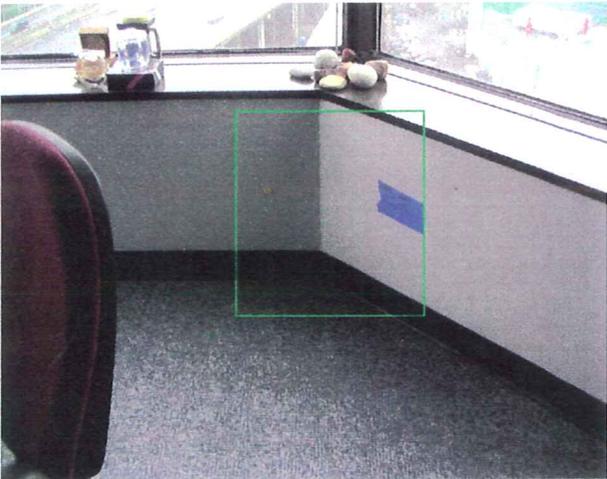
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LOCATION: 25 Sigourney St. Hartford, CT

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Area: 18th floor, moisture area #7



Area: 18th floor, moisture area #8

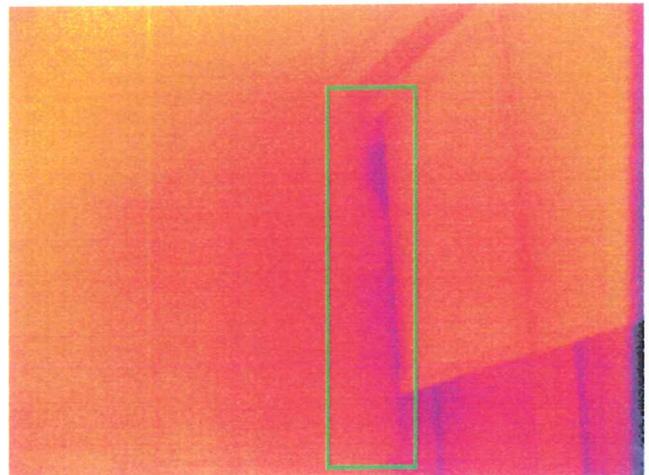
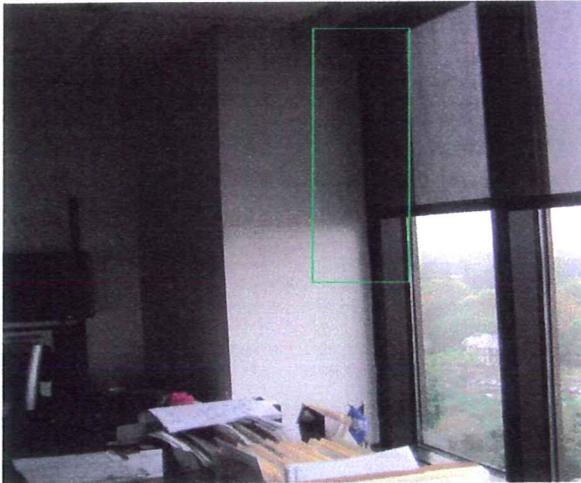
THERMOGRAPHER: Bret Monroe

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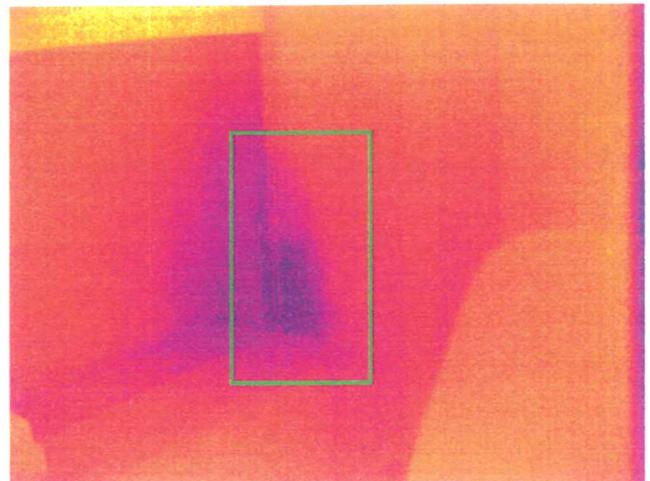
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Area: 18th floor, moisture area #9



Area: 18th floor, moisture area #10

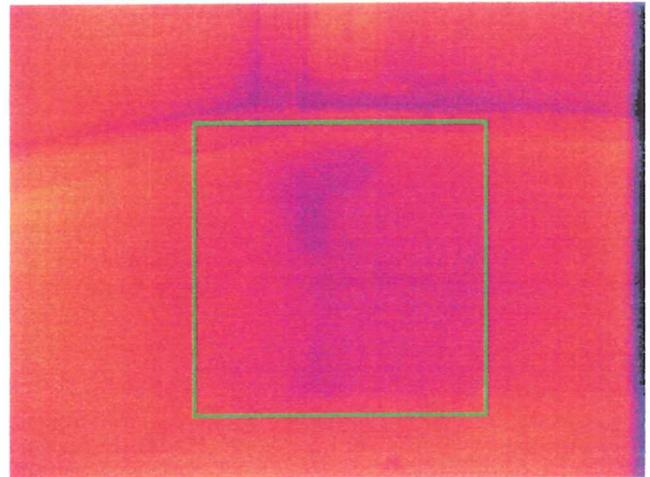
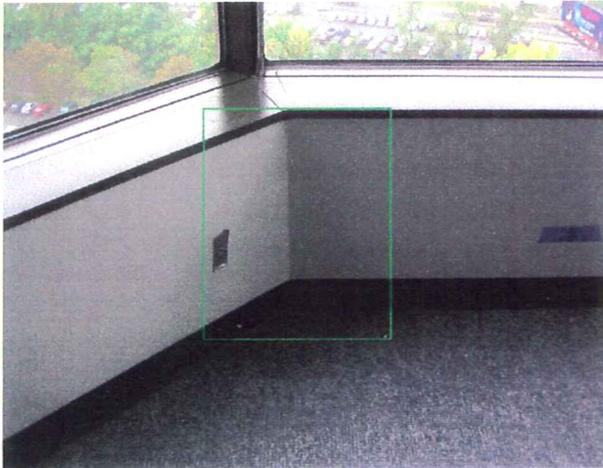
THERMOGRAPHER: Bret Monroe

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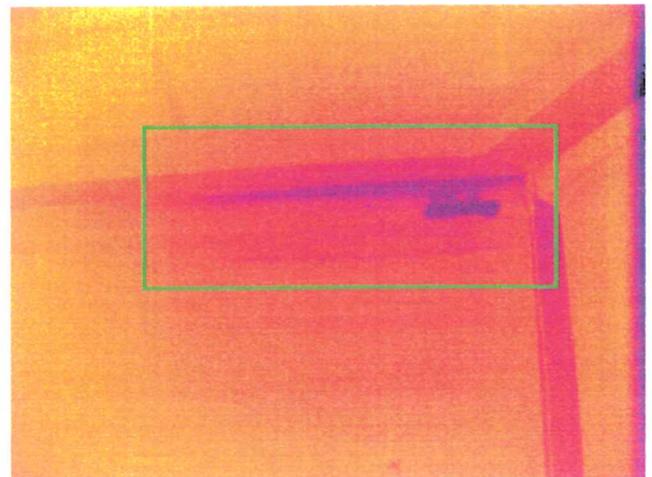
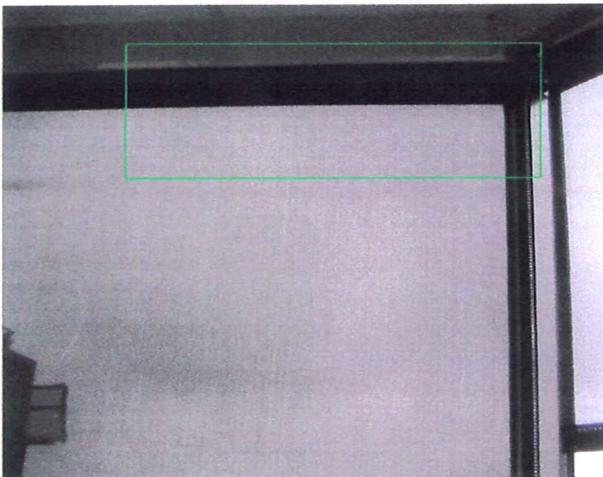
**CUSTOMER: HL Turner Building Science
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Area: 18th floor, moisture area #11



**Area: 18th floor, moisture area #12
Moisture is in blind, dripping from above**

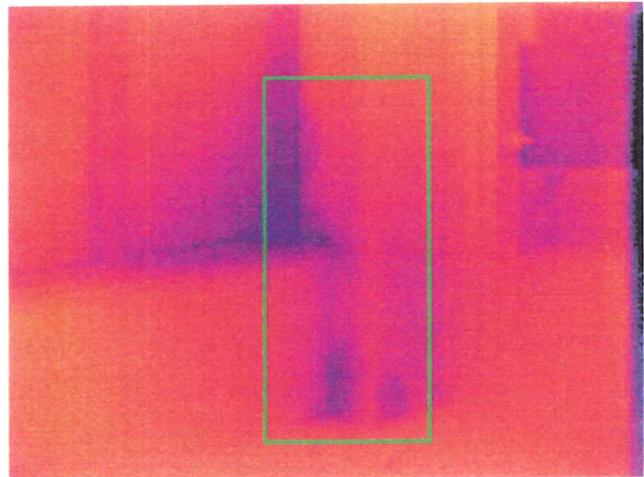
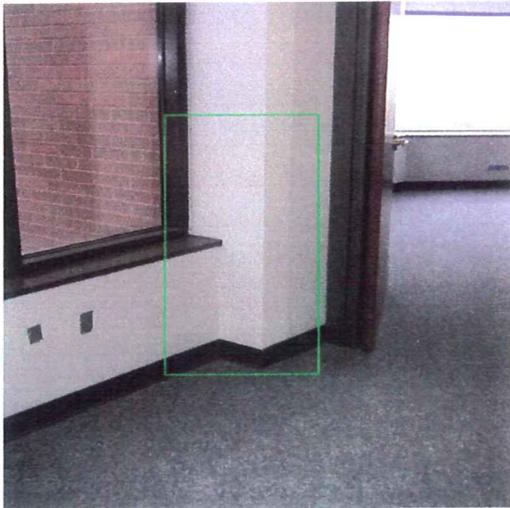
THERMOGRAPHER: Bret Monroe

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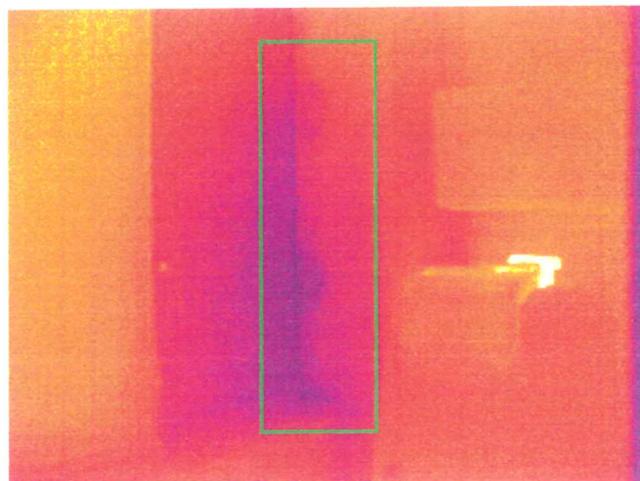
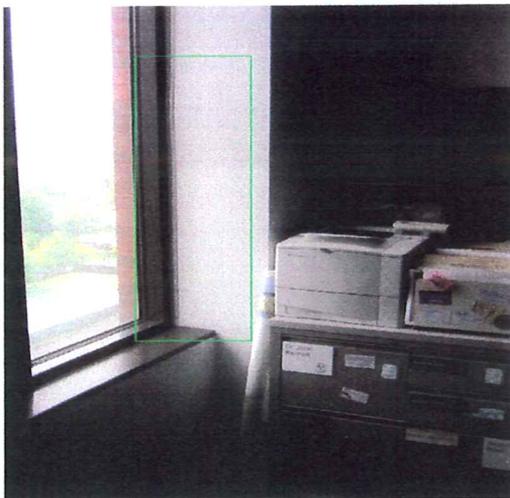
CUSTOMER: HL Turner Building Science
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Area: 18th floor, moisture area #13



Area: 18th floor, moisture area #14

Headquarters: P.O. Box 1058 • Kennebunk, ME 04043

Other Locations: Utica, MI • Orlando, FL

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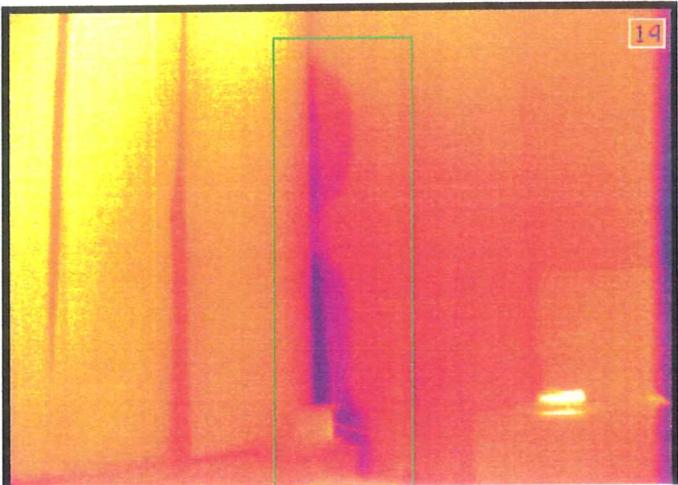
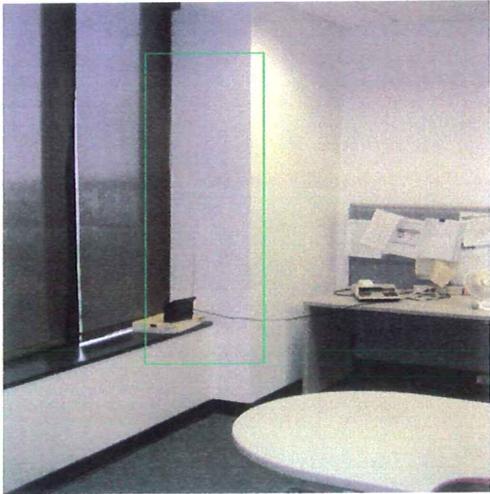
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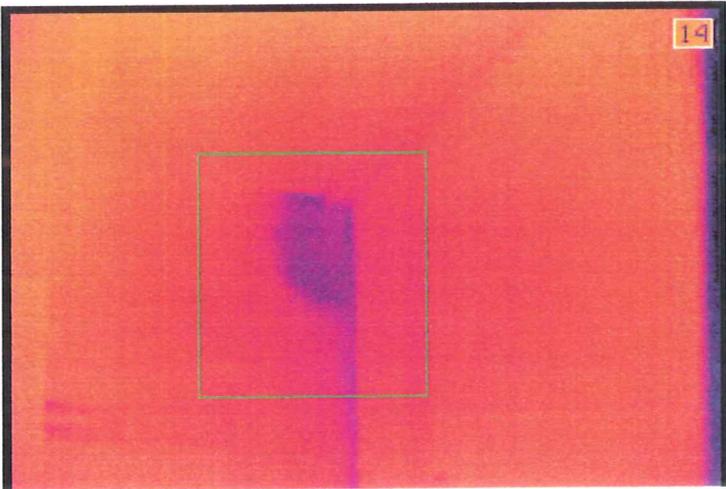
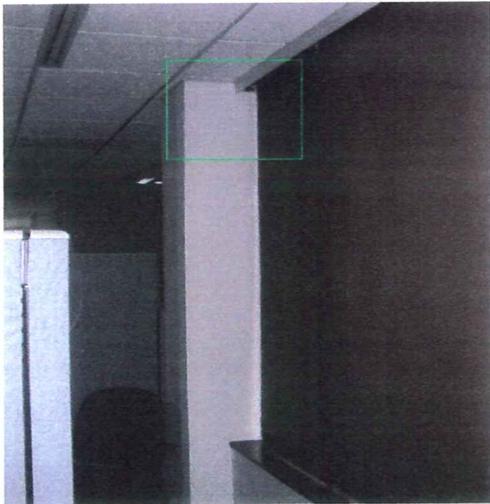
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Area: 18th floor, moisture area #15



Area: 18th floor, moisture area #16

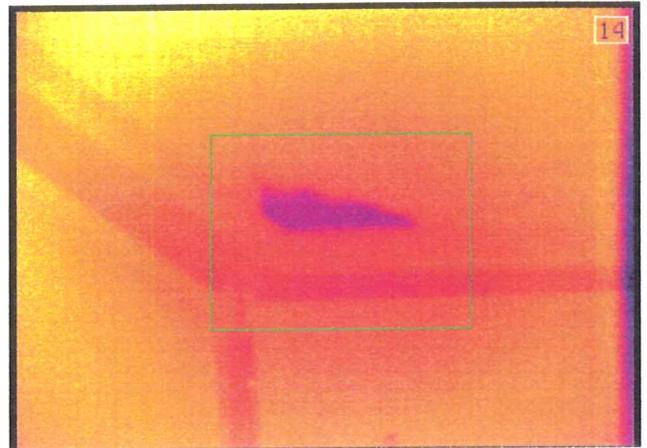
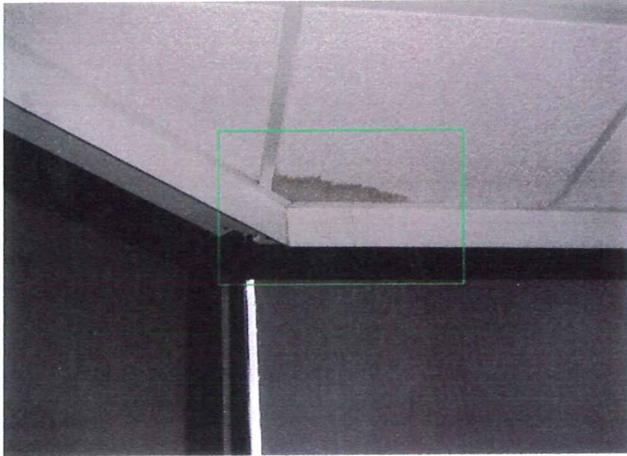
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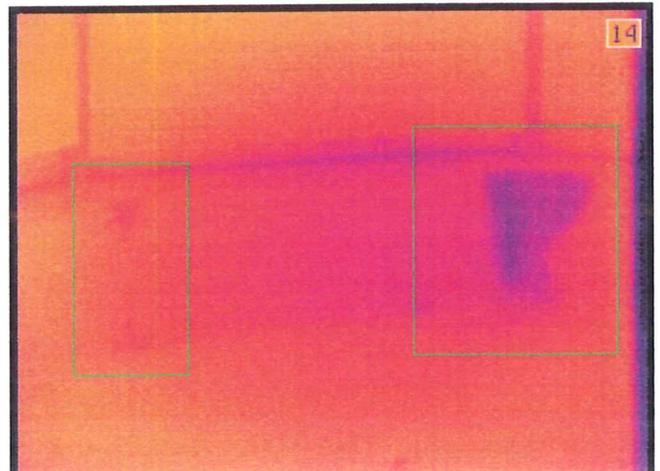
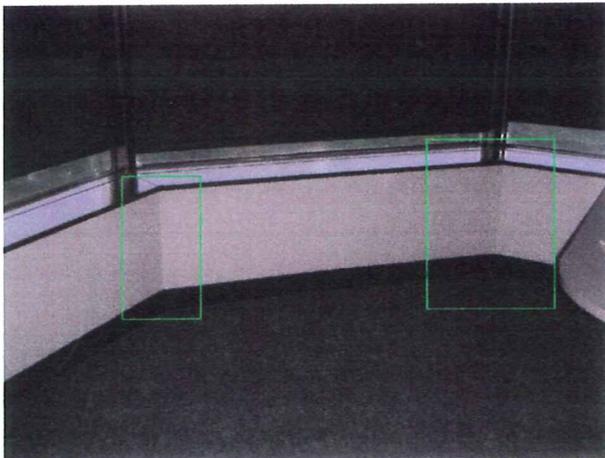
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Area: 18th floor, moisture area #17



Area: 18th floor, moisture area #18



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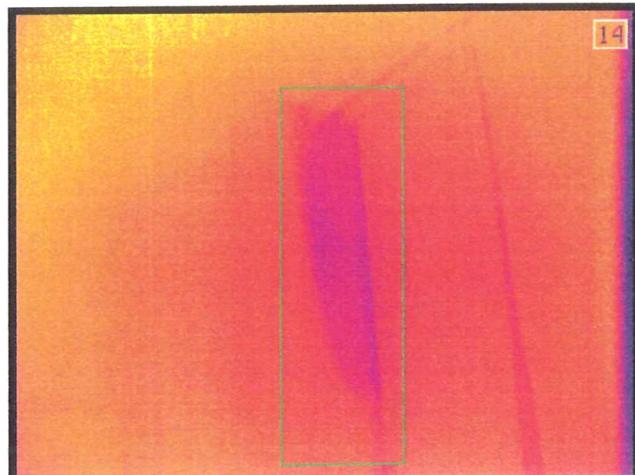
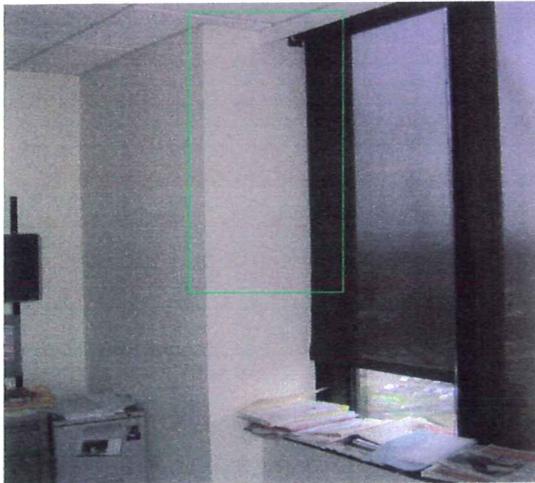
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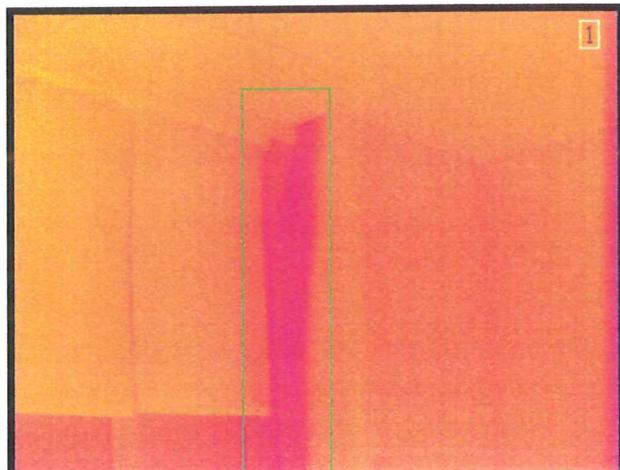
CUSTOMER: HL Turner Building Science
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Area: 17th floor, moisture area #19



Area: 17th floor, Room 1714, moisture area #20

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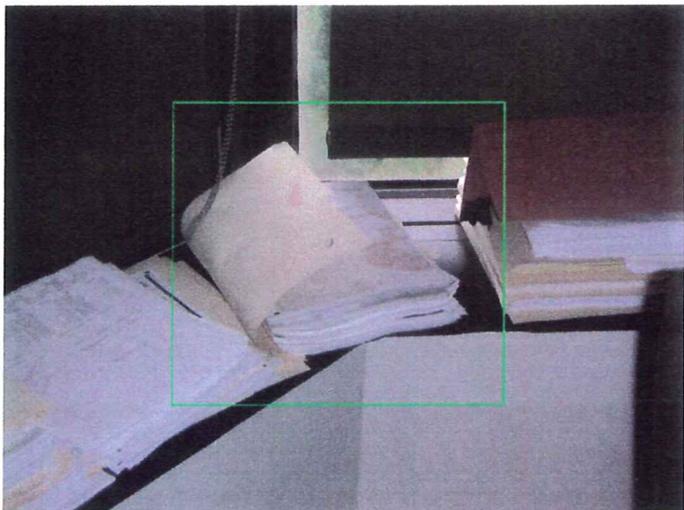
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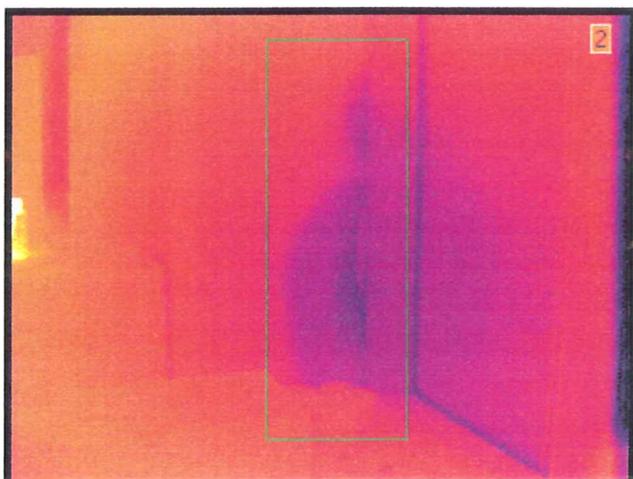
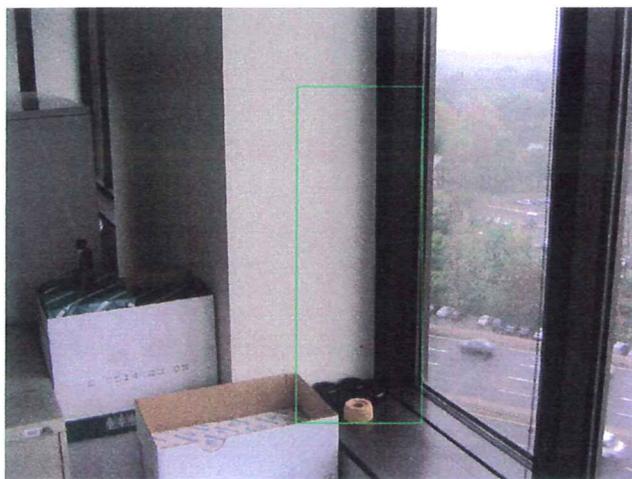
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Area: 17th floor, moisture area #21, file is wet but wall/ceiling does not show IR moisture intrusion



Area: 16th floor, Room 1605, moisture area #22



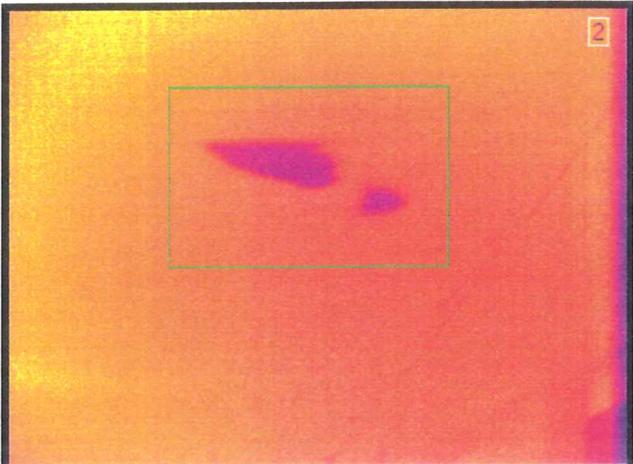
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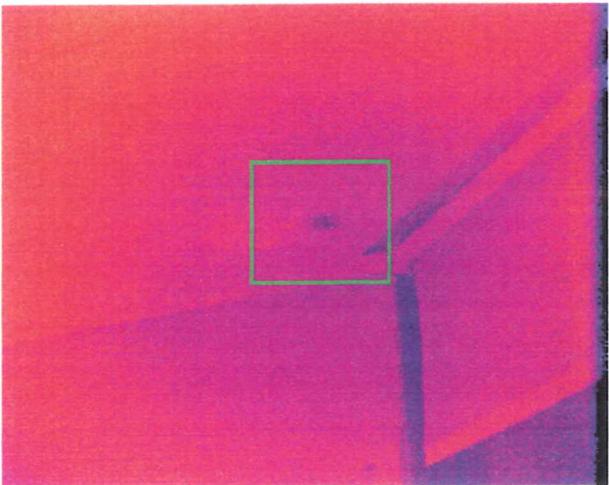
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Area: 16th floor, Room 1605, moisture area #23



Area: 16th floor, Room 1605, moisture area #24



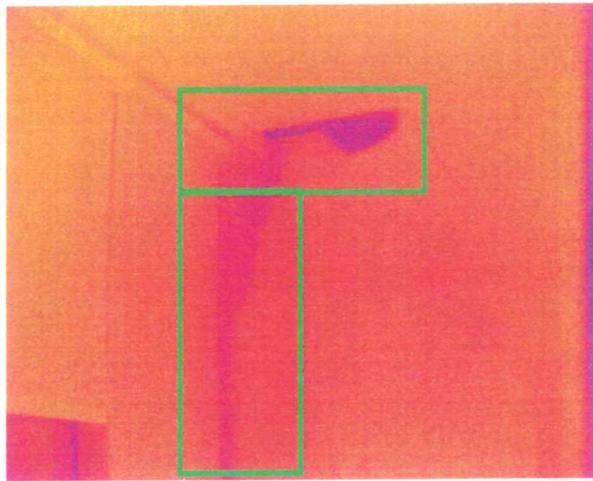
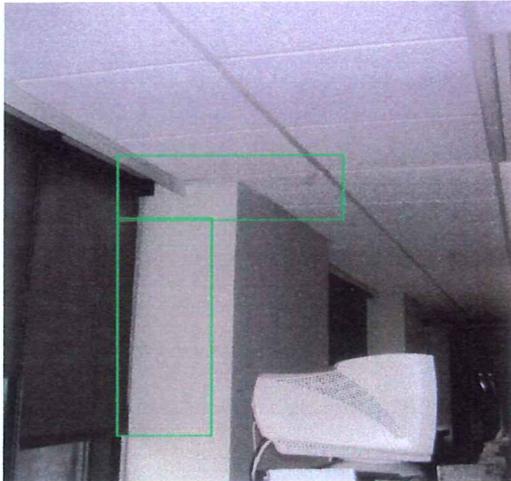
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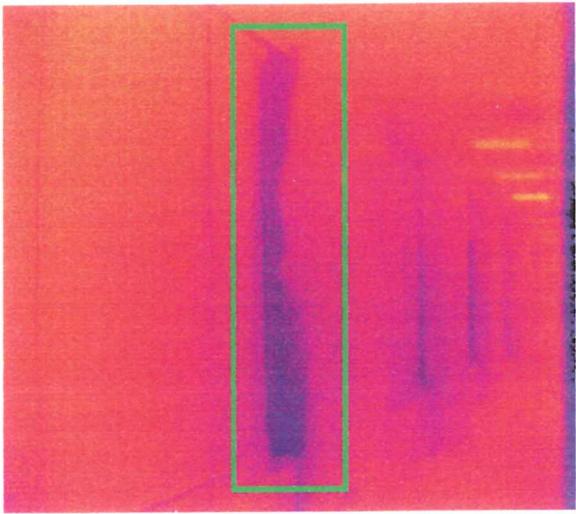
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Area: 16th floor, moisture area #25



Area: 16th floor, Long hallway, moisture area #26



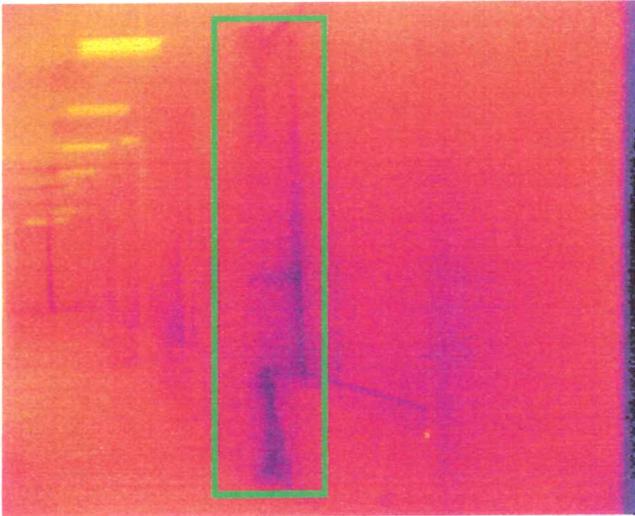
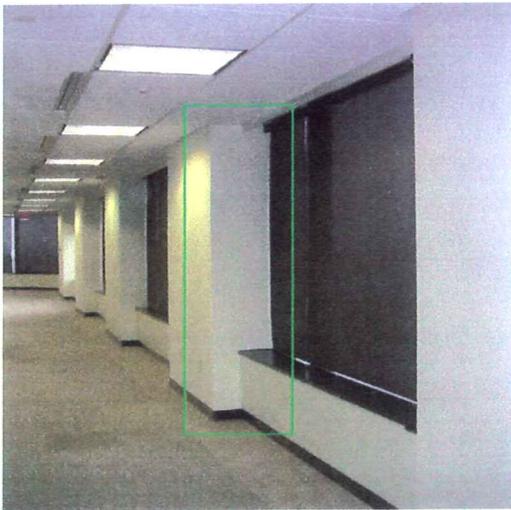
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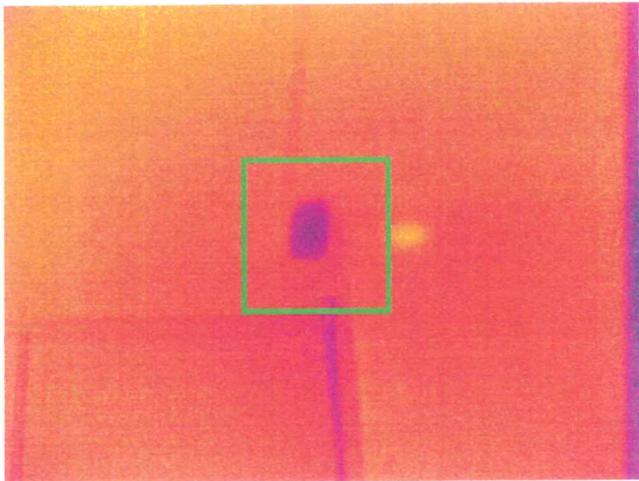
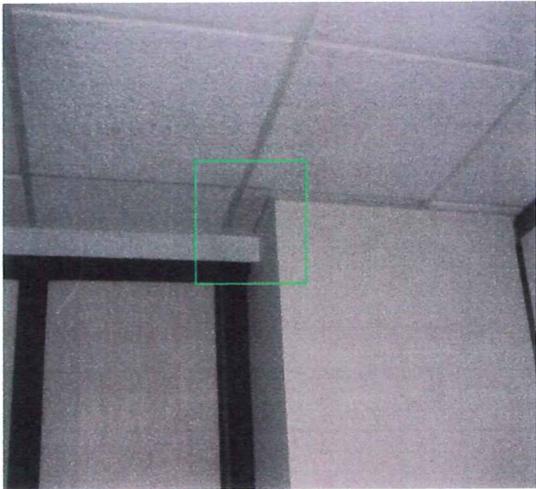
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Area: 16th floor, Long Hallway, moisture area #27



Area: 16th floor, Room 1618, moisture area #28

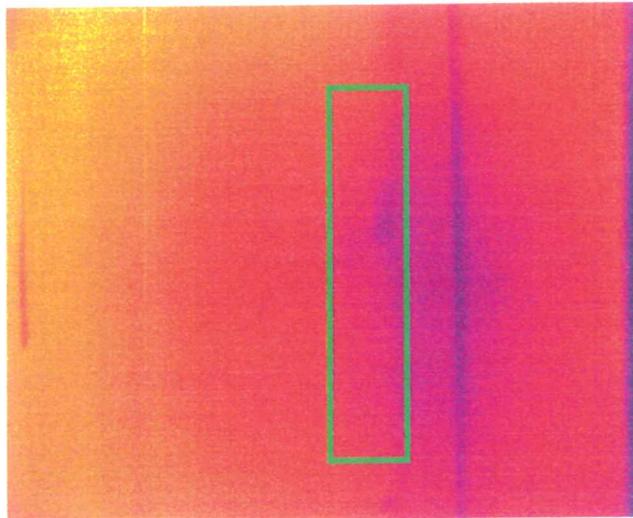
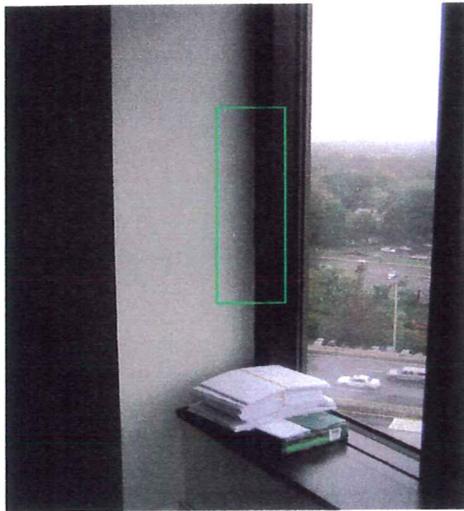
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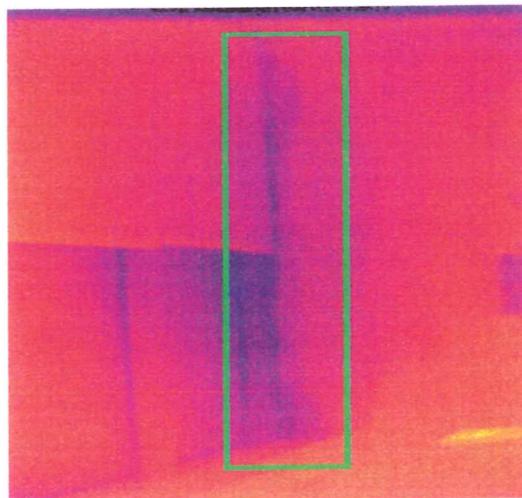
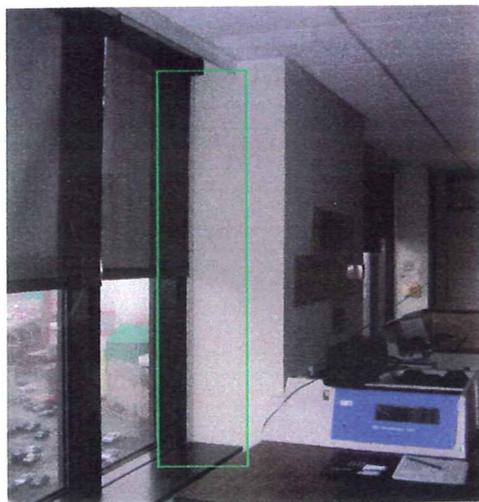
**CUSTOMER: HL Turner Building Science
LOCATION: 25 Sigourney St. Hartford, CT**

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Area: 15th floor, Kilby Office, moisture area #29



Area: 15th floor, Mail Room 1503, moisture area #30

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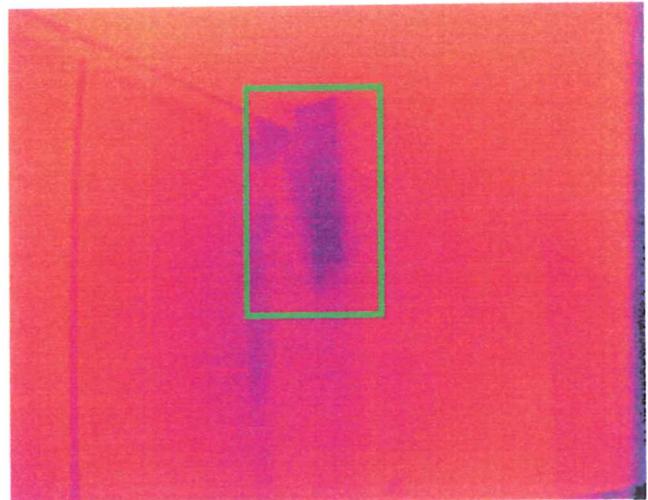
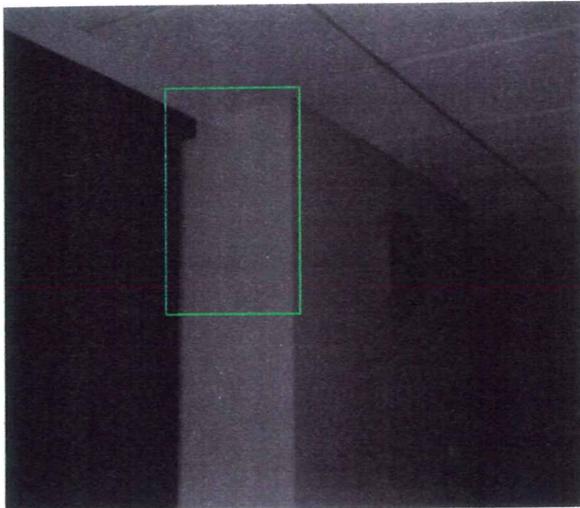
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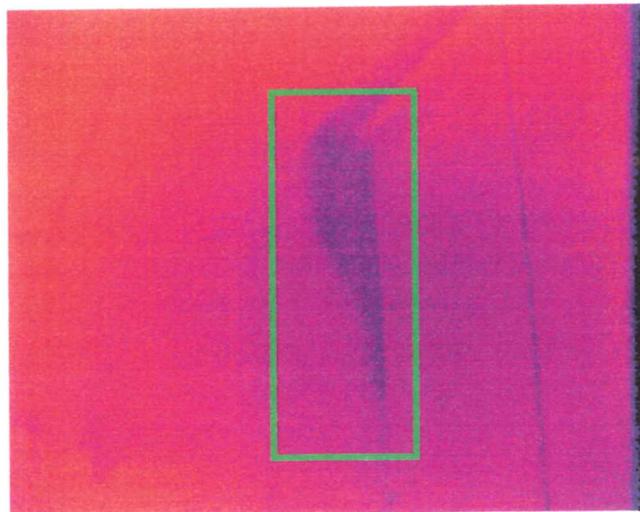
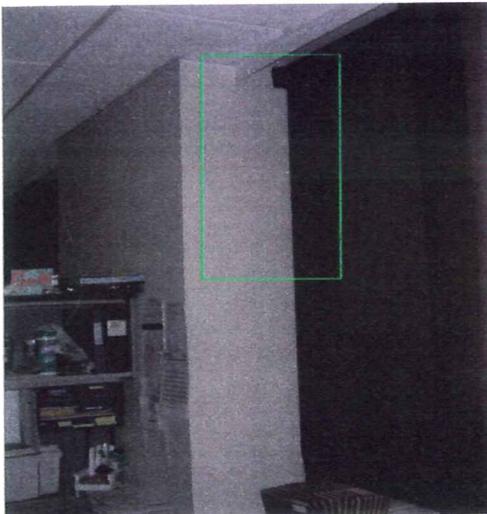
**CUSTOMER: HL Turner Building Science
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Area: 15th floor, moisture area #31



Area: 15th floor, Axiotis office, moisture area #32

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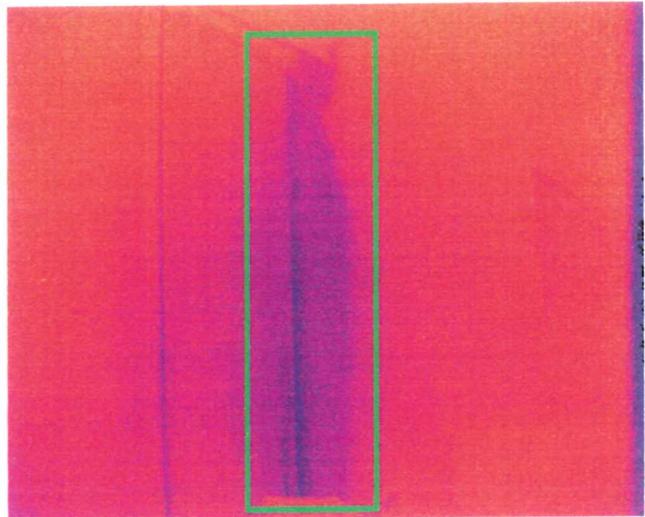
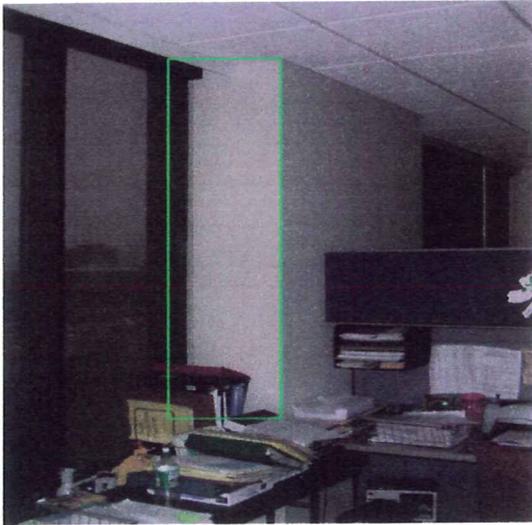
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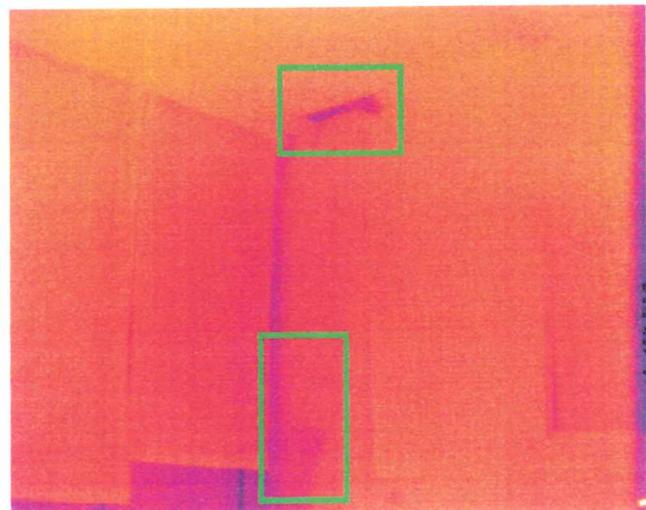
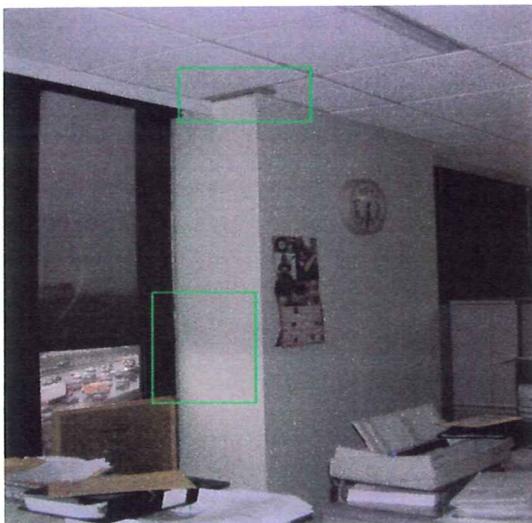
**CUSTOMER: HL Turner Building Science
LOCATION: 25 Sigourney St. Hartford, CT**

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Area: 14th floor, Jones office, moisture area #33



Area: 14th floor, Ceiling & Wall, moisture area #34

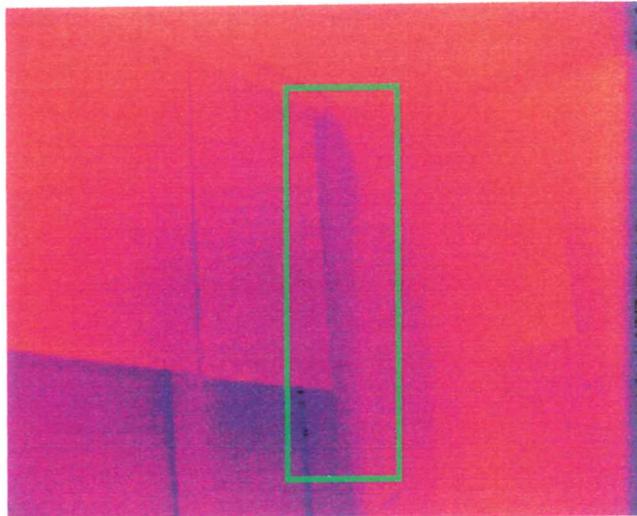
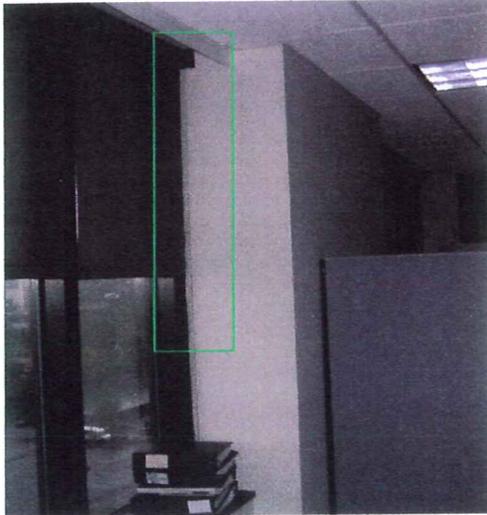
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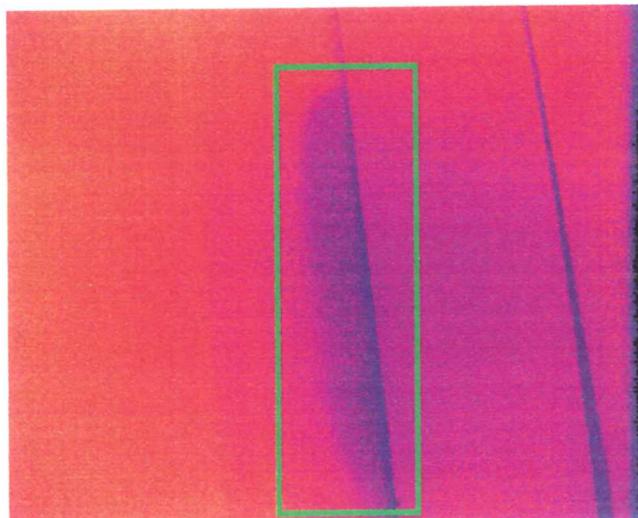
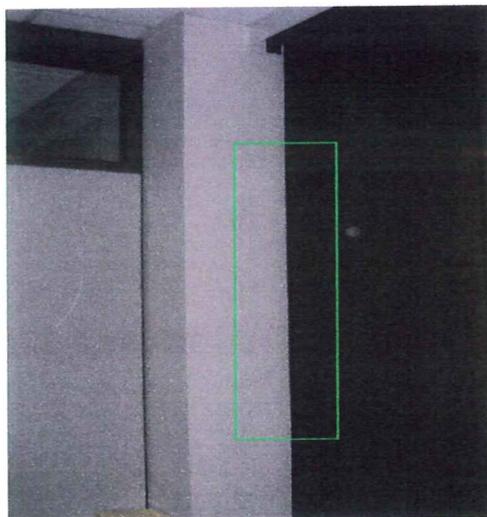
**CUSTOMER: HL Turner Building Science
LOCATION: 25 Sigourney St. Hartford, CT**

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Area: 14th floor, moisture area #35



Area: 14th floor, Ceiling & Wall, moisture area #36

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Other Locations: Utica, MI • Orlando, FL

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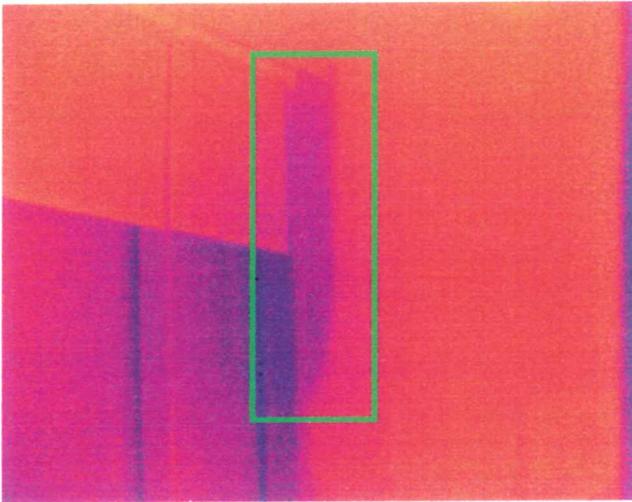
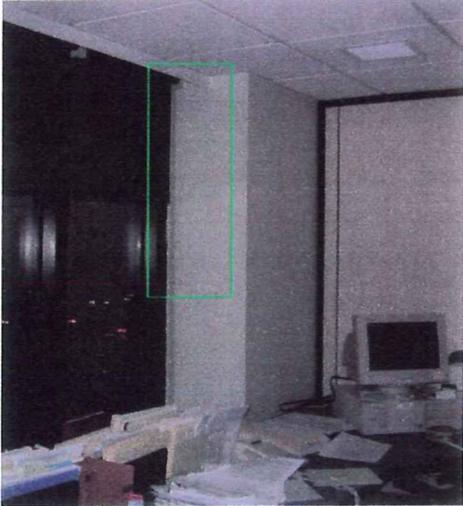
Infrared Inspection Report

THERMOGRAPHER: Bret Monroe

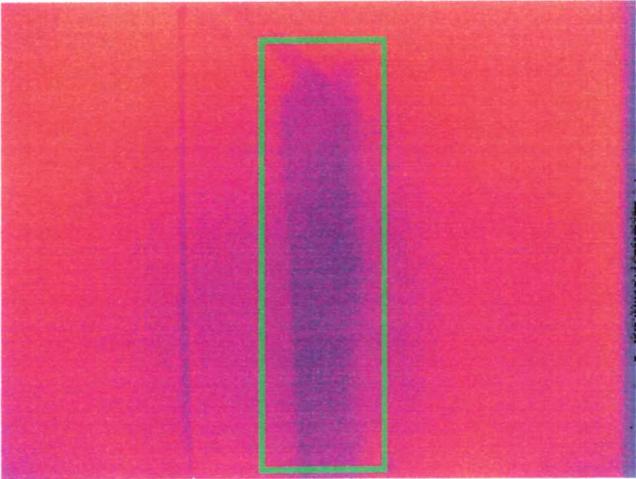
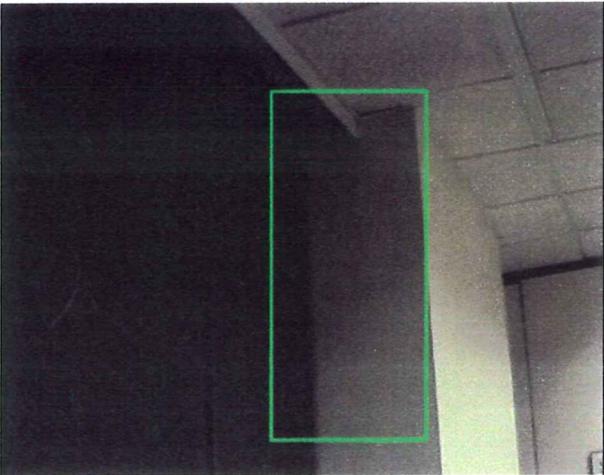
REPORT PAGE: 19

CUSTOMER: HL Turner Building Science
LOCATION: 25 Sigourney St. Hartford, CT

Inspection Date: Oct. 10, 2005
Report Date: Oct. 13, 2005



Area: 12th floor, Room 1208, moisture area #37



Area: 12th floor, Room 1211, moisture area #38

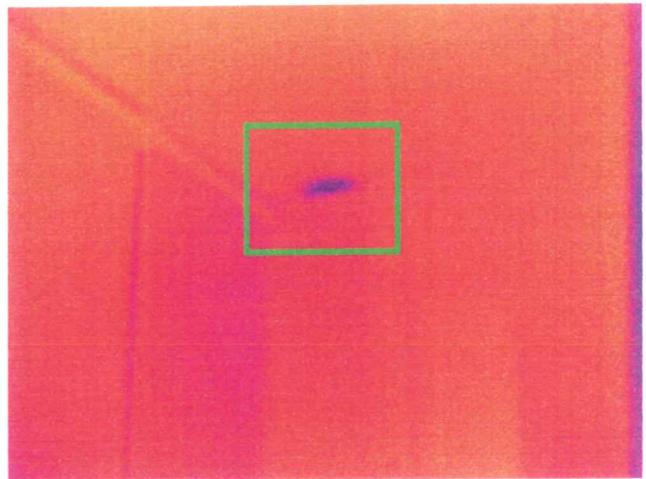
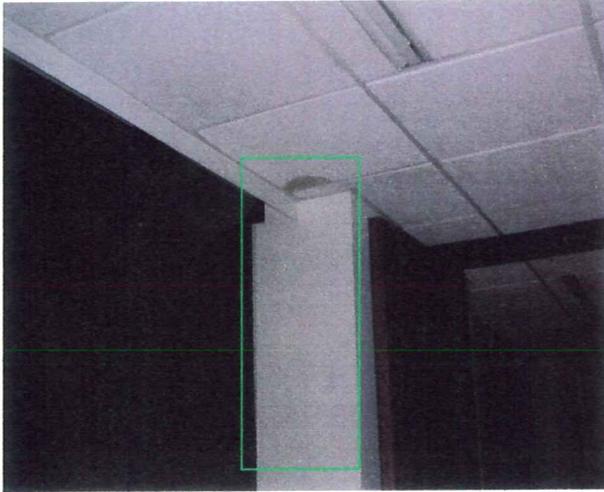
THERMOGRAPHER: Bret Monroe

REPORT PAGE: 20

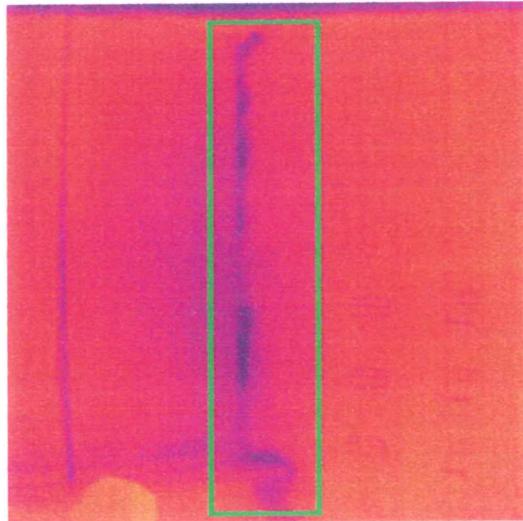
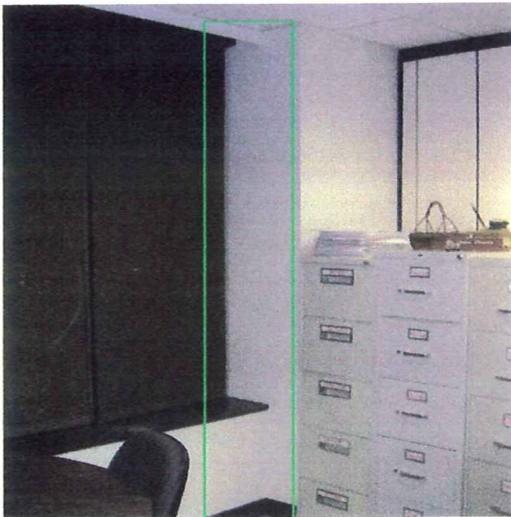
**CUSTOMER: HL Turner Building Science
LOCATION: 25 Sigourney St. Hartford, CT**

Inspection Date: Oct. 10, 2005

Report Date: Oct. 13, 2005



Area: 12th floor, Room 1225, moisture area #39



Area: 11th floor, Room 1107, moisture area #40

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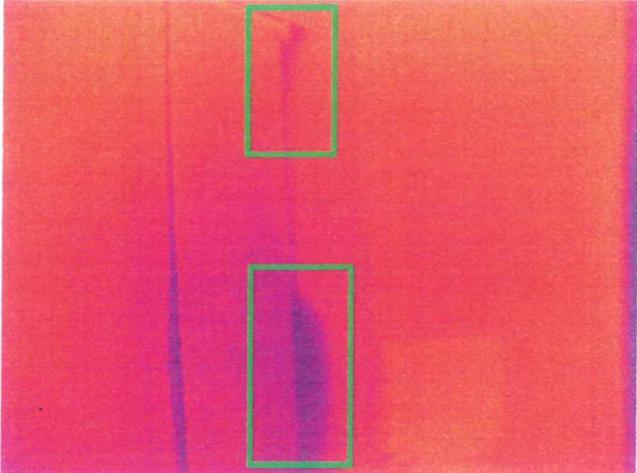
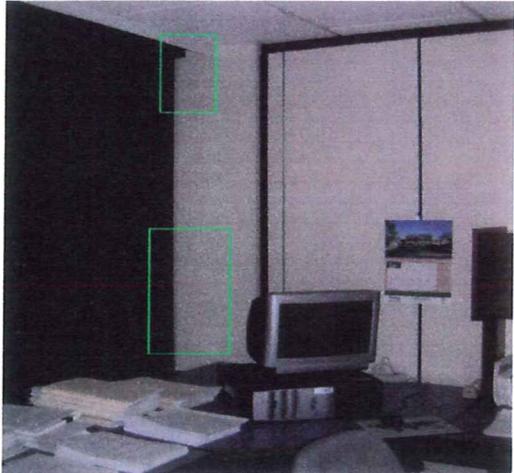
Infrared Inspection Report

THERMOGRAPHER: Bret Monroe

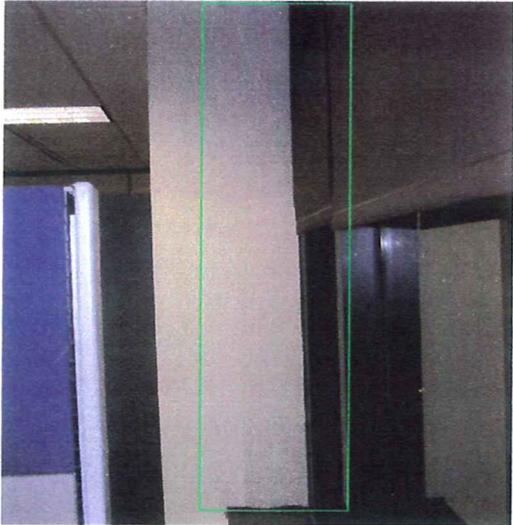
REPORT PAGE: 21

CUSTOMER: HL Turner Building Science
LOCATION: 25 Sigourney St. Hartford, CT

Inspection Date: Oct. 10, 2005
Report Date: Oct. 13, 2005



Area: 11th floor, Room 1108, moisture area #41



Area: 11th floor, Room Leary/Lee, moisture area #42

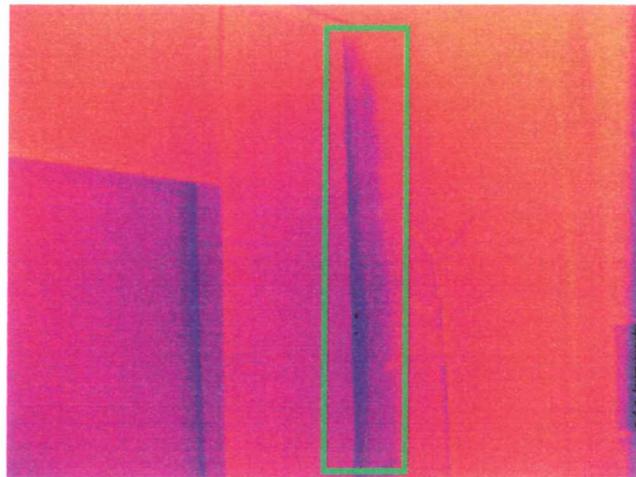
THERMOGRAPHER: Bret Monroe

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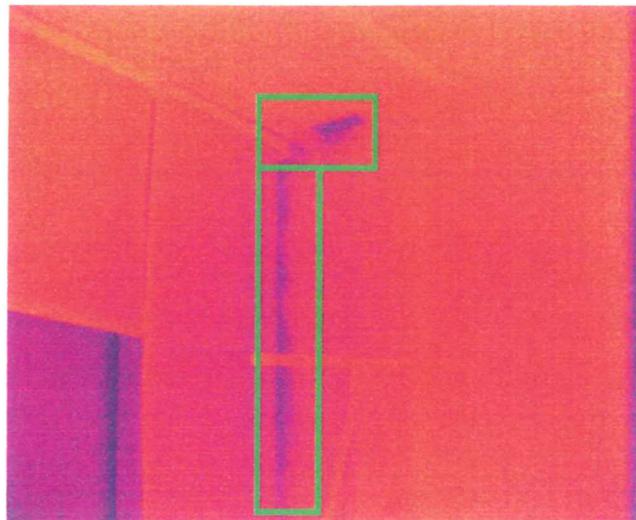
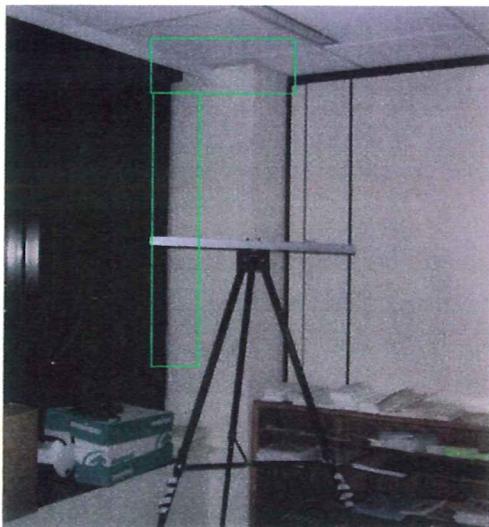
CUSTOMER: HL Turner Building Science
LOCATION: 25 Sigourney St. Hartford, CT

Inspection Date: Oct. 10, 2005

Report Date: Oct. 13, 2005



Area: 11th floor, Room 1124A, moisture area #43



Area: 10th floor, Room 1006, moisture area #44

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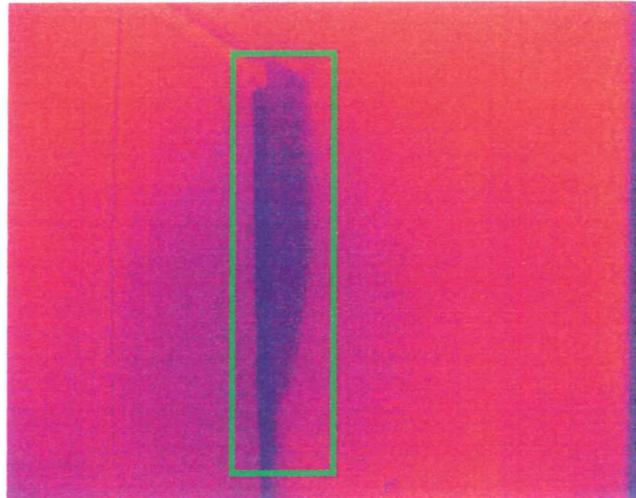
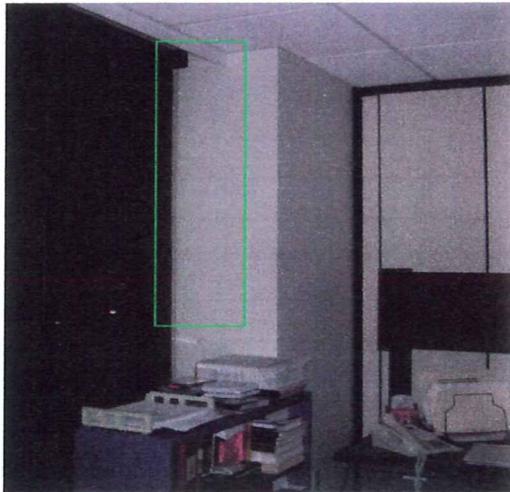
THERMOGRAPHER: Bret Monroe

REPORT PAGE: 23

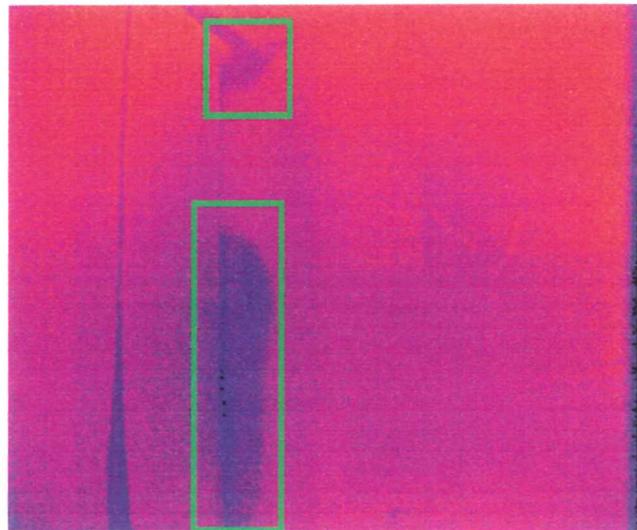
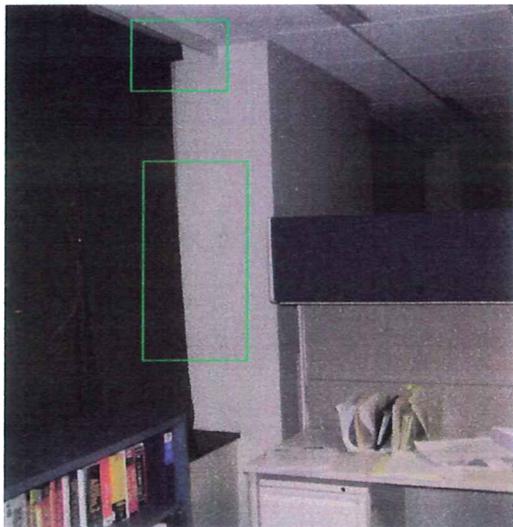
**CUSTOMER: HL Turner Building Science
LOCATION: 25 Sigourney St. Hartford, CT**

Inspection Date: Oct. 10, 2005

Report Date: Oct. 13, 2005



Area: 9th floor, Room 907, moisture area #45



Area: 9th floor, Conboy office, moisture area #46

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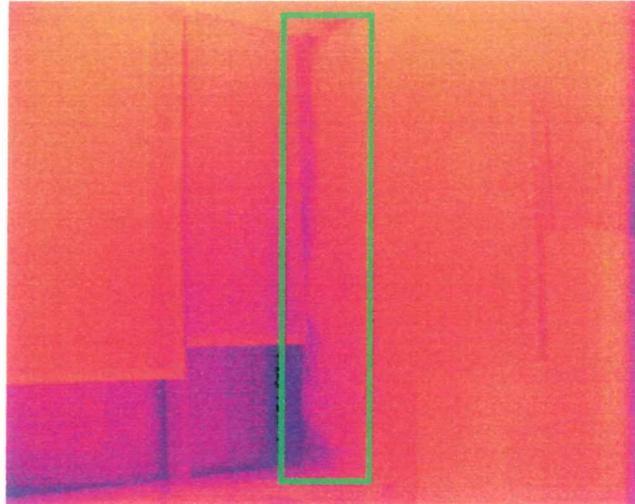
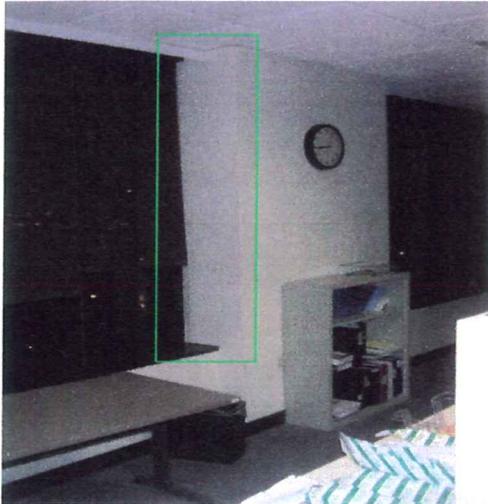
THERMOGRAPHER: Bret Monroe

REPORT PAGE: 24

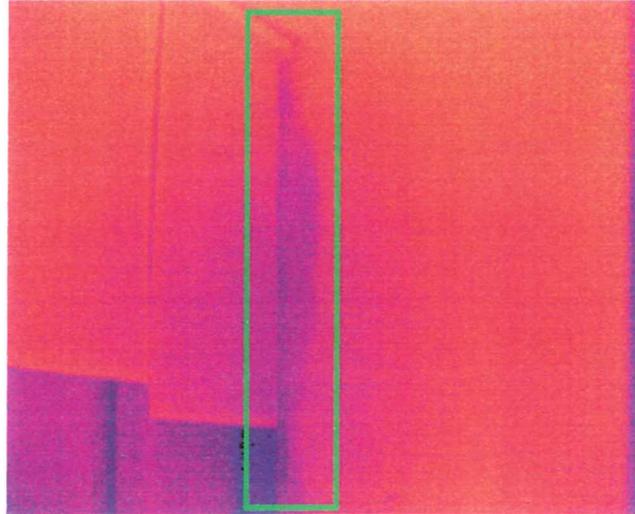
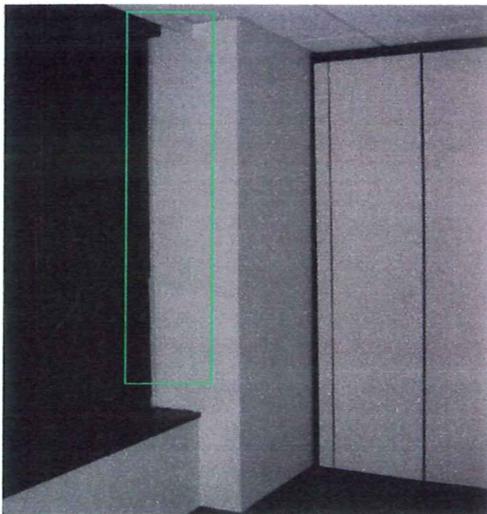
**CUSTOMER: HL Turner Building Science
LOCATION: 25 Sigourney St. Hartford, CT**

Inspection Date: Oct. 10, 2005

Report Date: Oct. 13, 2005



Area: 7th floor, moisture area #47



Area: 7th floor, Room 707, moisture area #48

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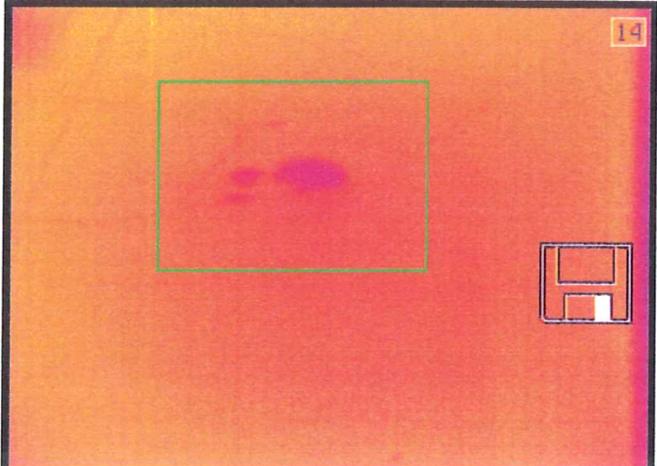
Infrared Inspection Report

THERMOGRAPHER: Bret Monroe

REPORT PAGE: 25

CUSTOMER: HL Turner Building Science
LOCATION: 25 Sigourney St. Hartford, CT

Inspection Date: Oct. 10, 2005
Report Date: Oct. 13, 2005

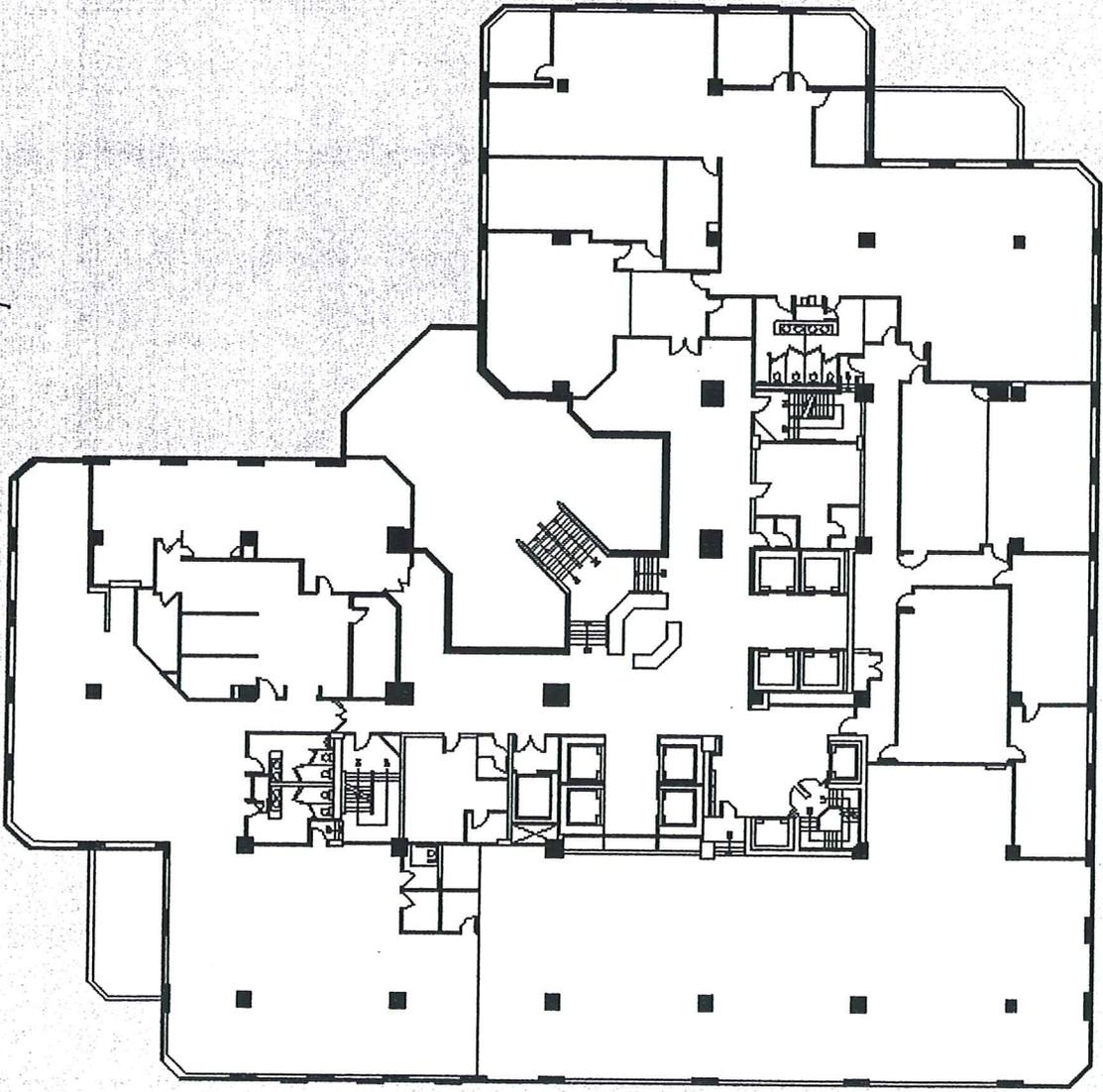


Area: 6th floor, Conference room, moisture area #49

*25 Sigourney St.
Hartford, CT*

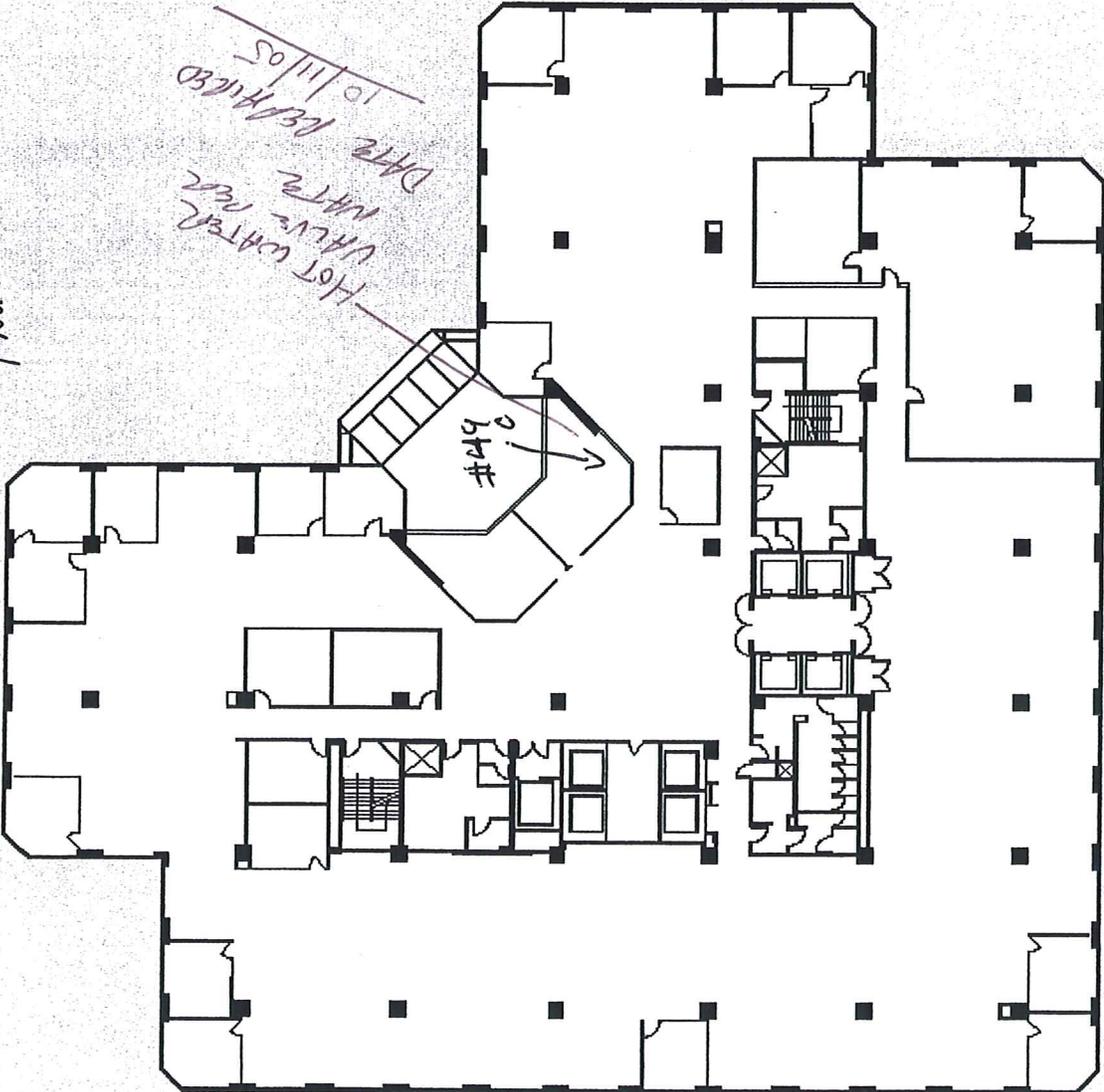
FLOOR DIAGRAMS
PAGES

5th Floor



Co T3 Plan

↑ North



DATE REPAIRED
10/11/05
HOT WATER
TANK
WATER
VALVES

#149

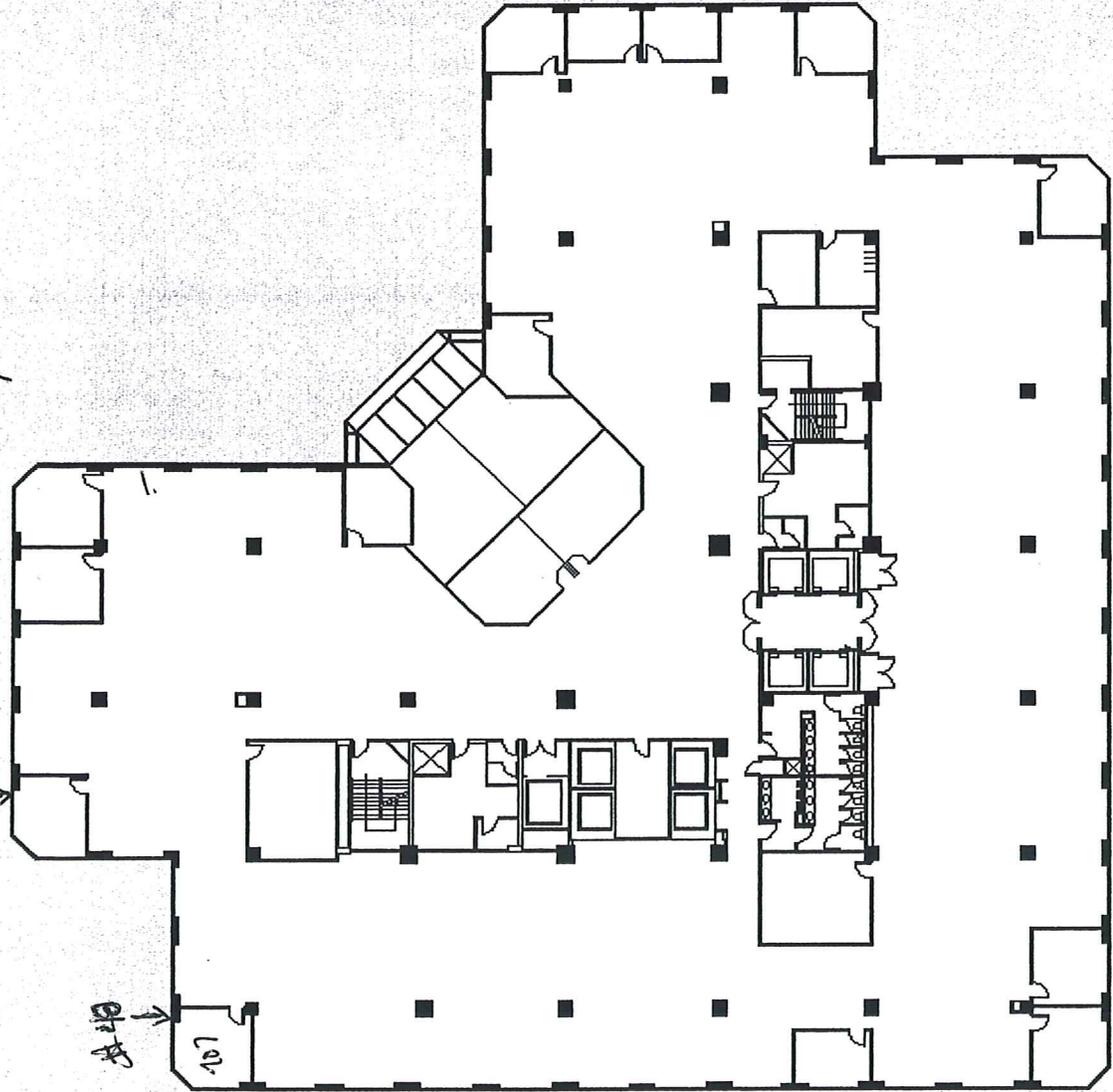
7/19/2000

↑ north

#14

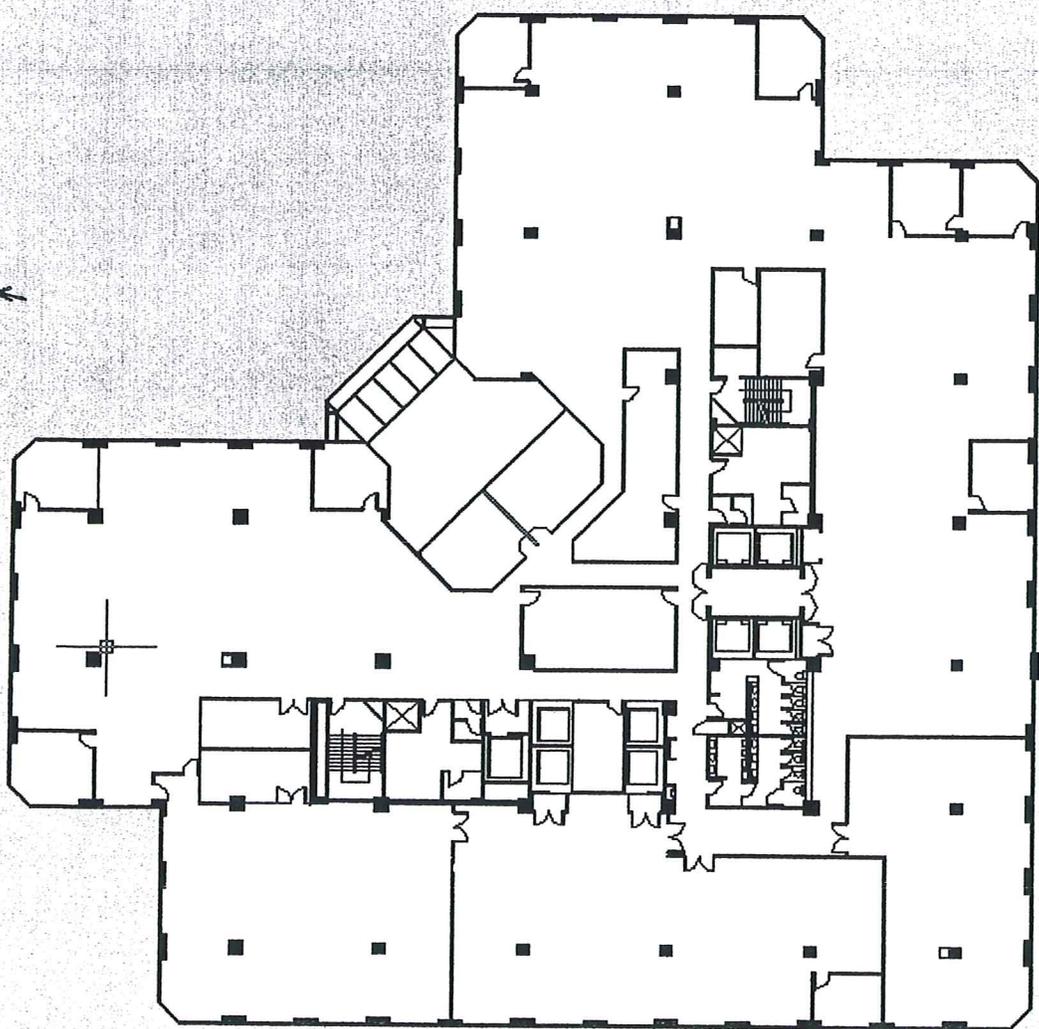
#14

Lot



8th Floor

↑ North

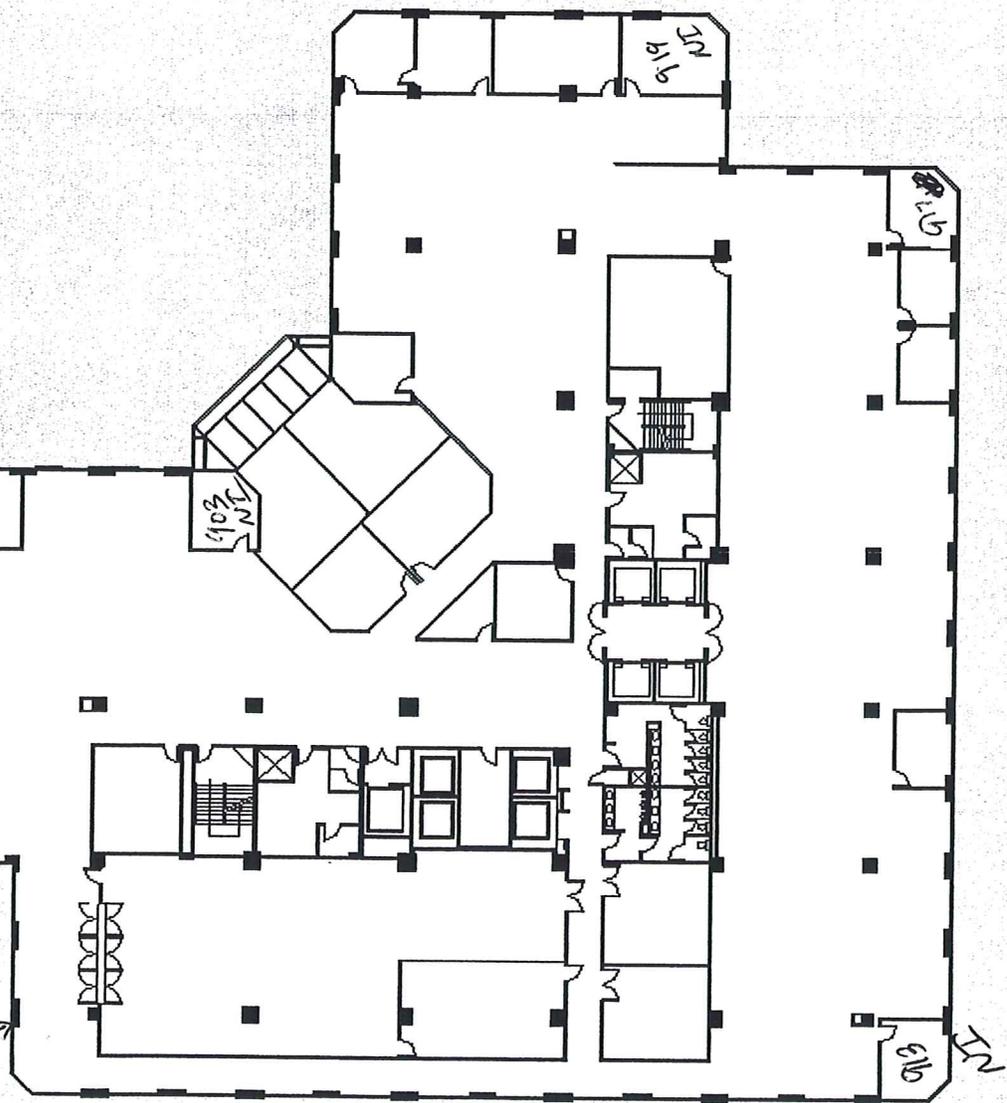


9/11/2001

↑ north

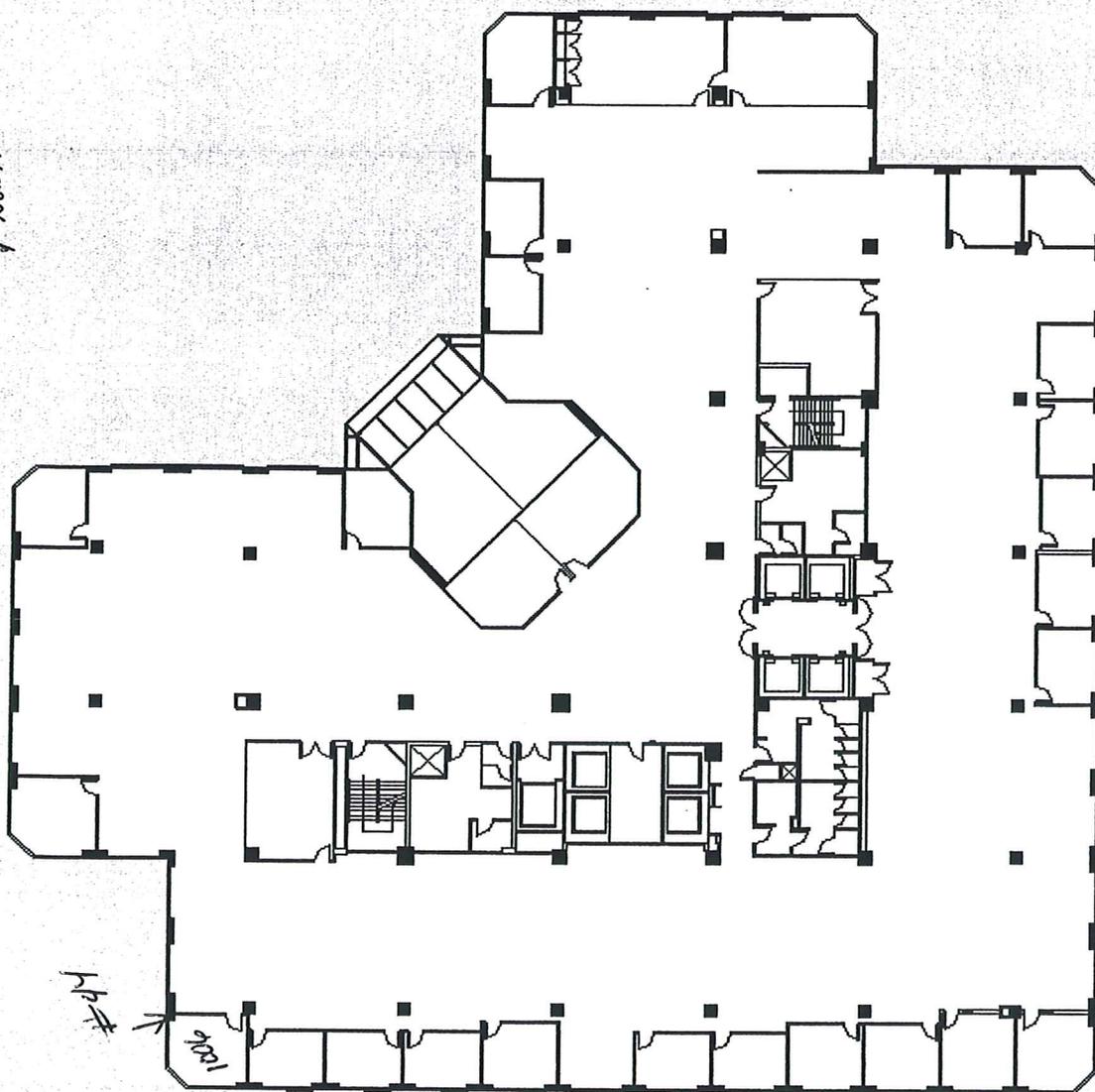
#415 ↓

Full
reservoir
of water
in
canopy
at the
top of
the
way up



10/2/2000

North



#4

1000

11/22/2000

North

#50

#48

108

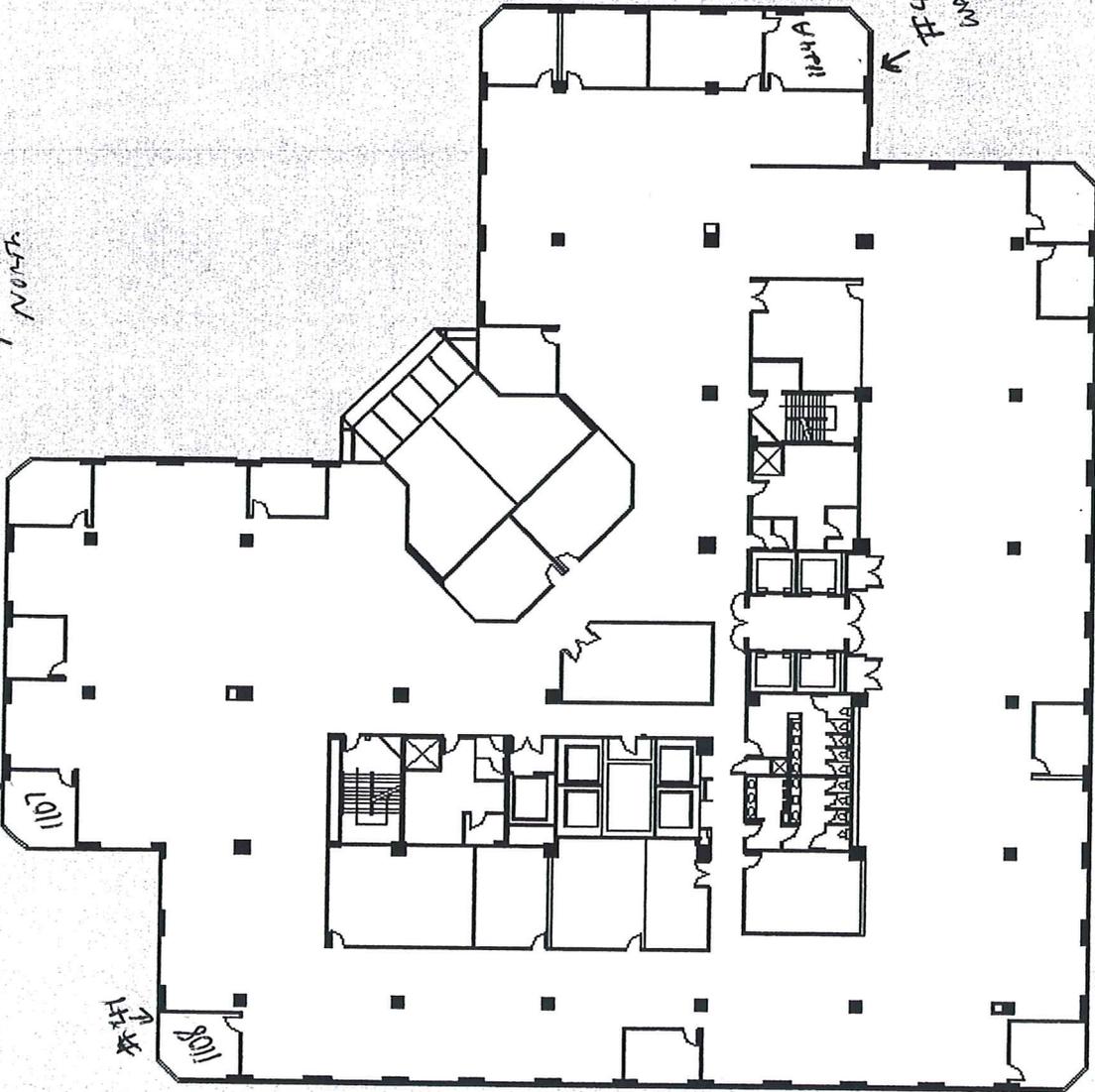
110

1124A

#43
Wall

glass
way up
curtain wall

#42
(Leary)
Lee



12th Floor

↑ North

#37

1008

#38

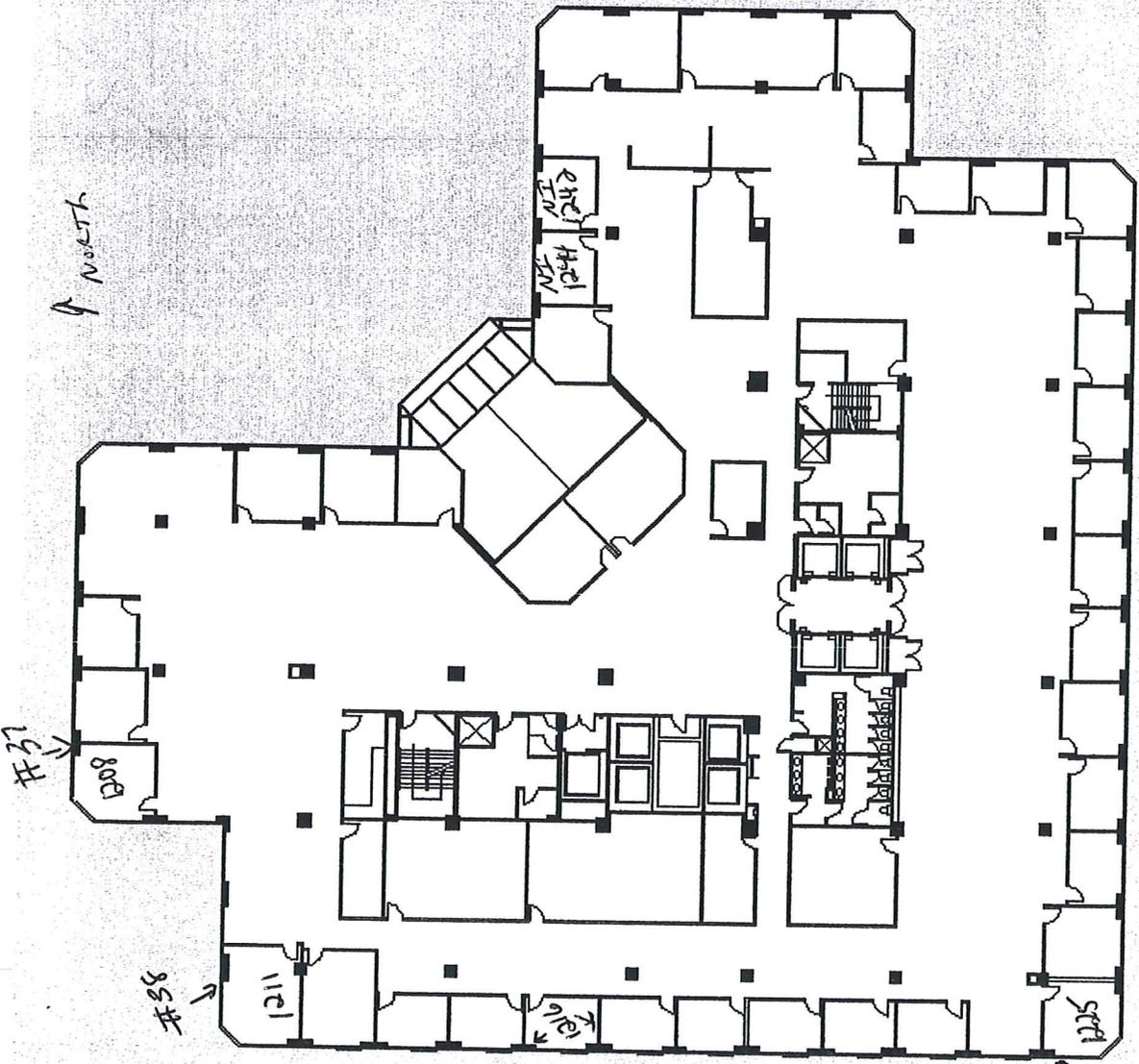
1121

1126

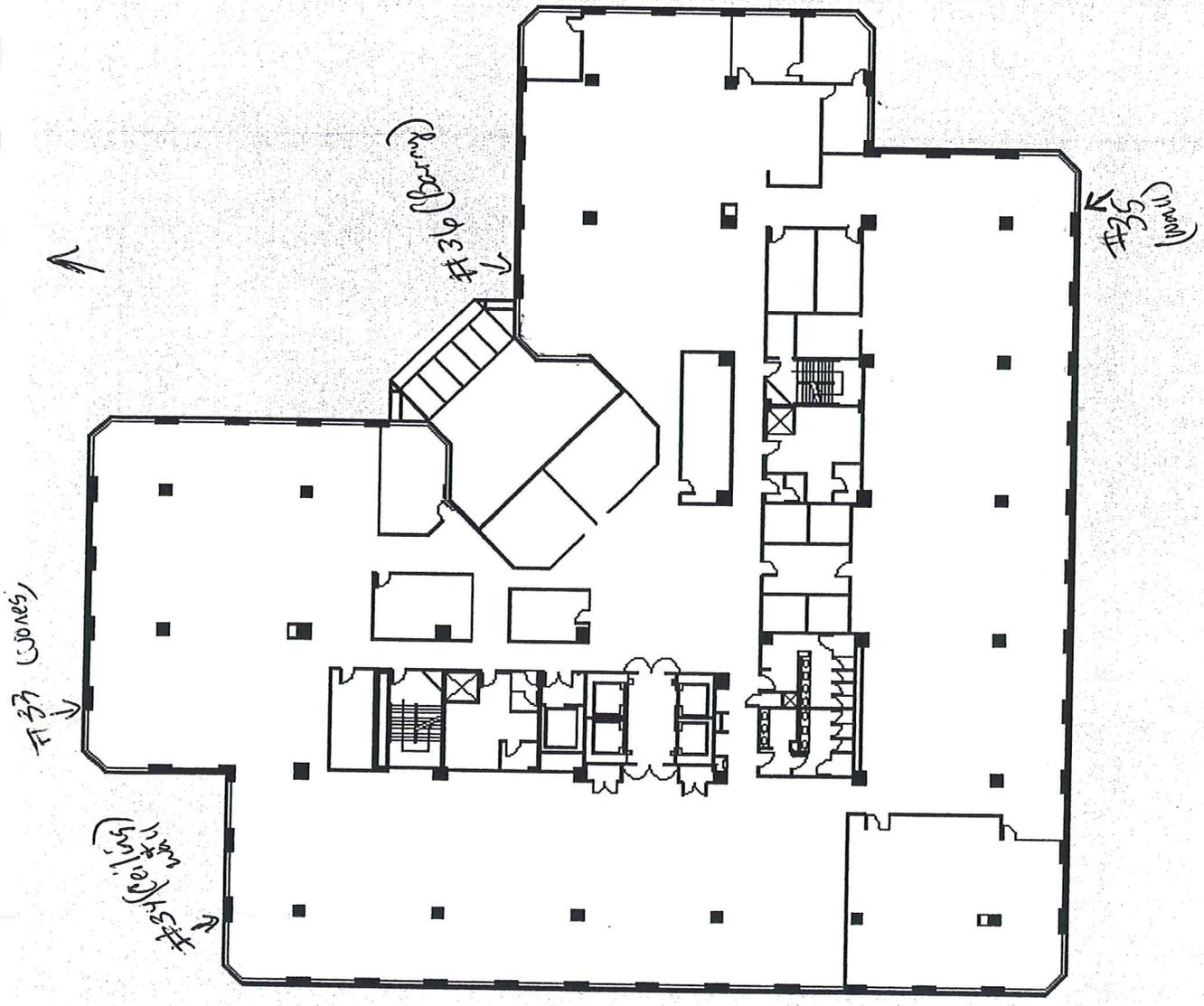
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#39
(ceiling)

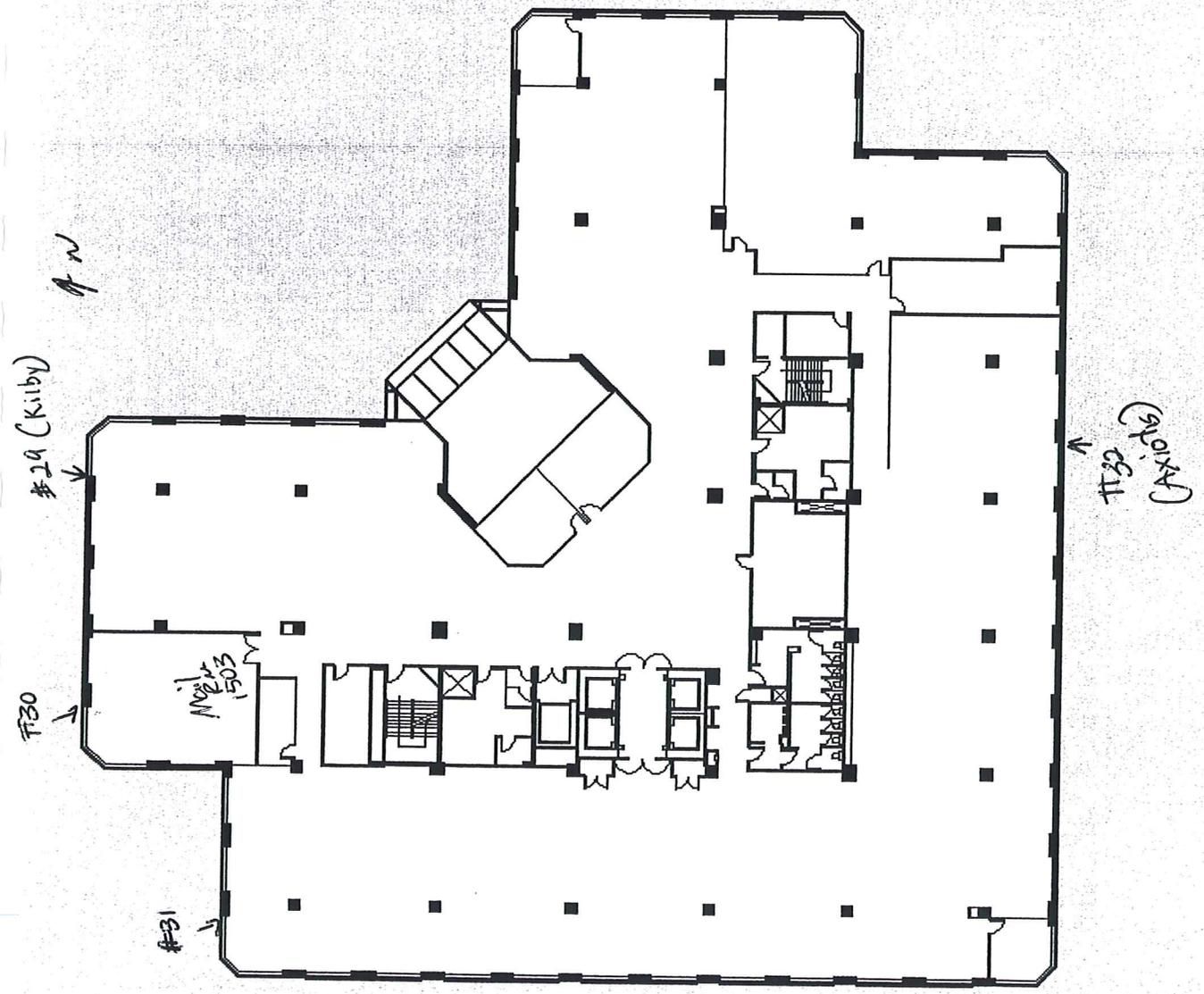
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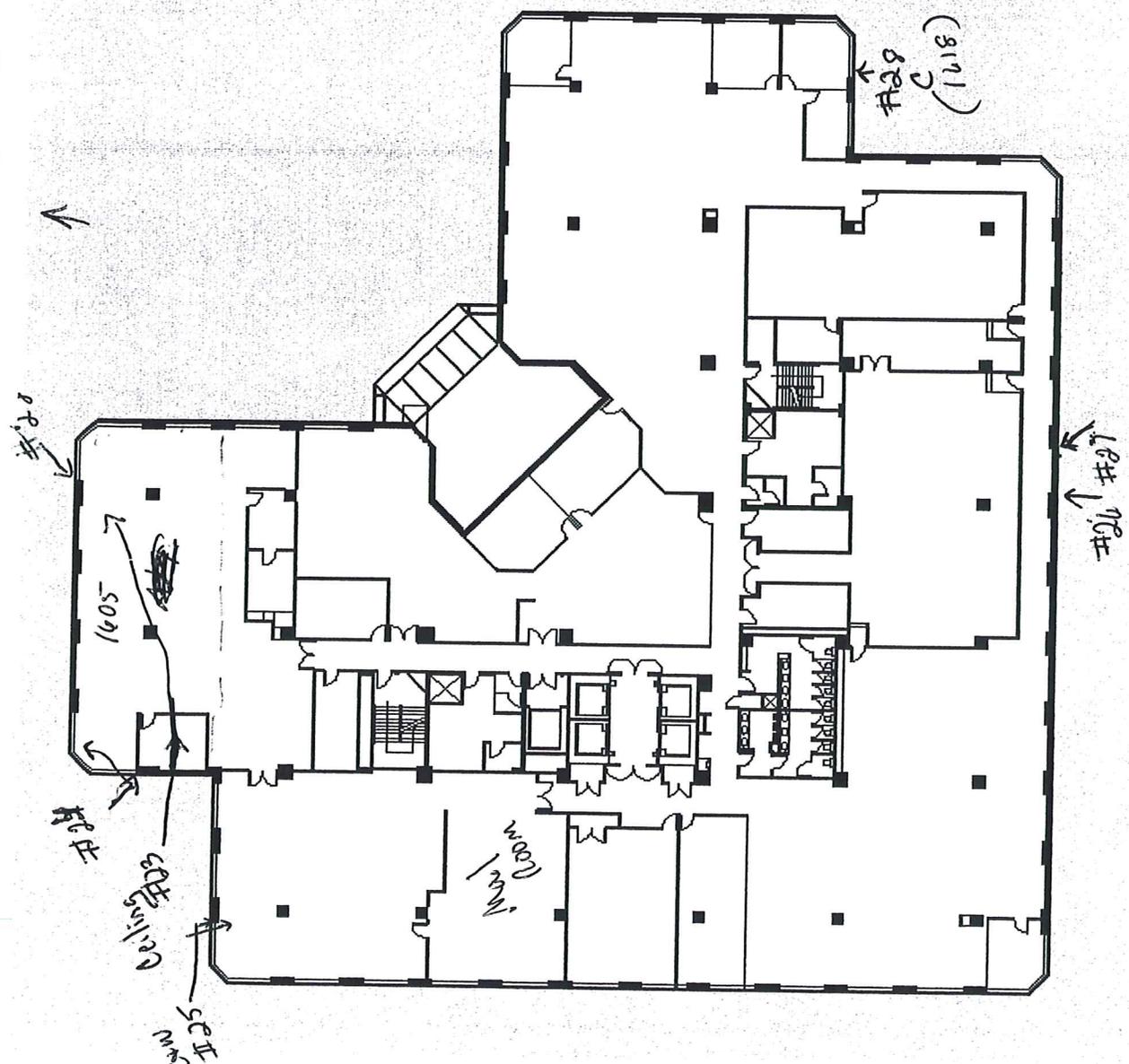
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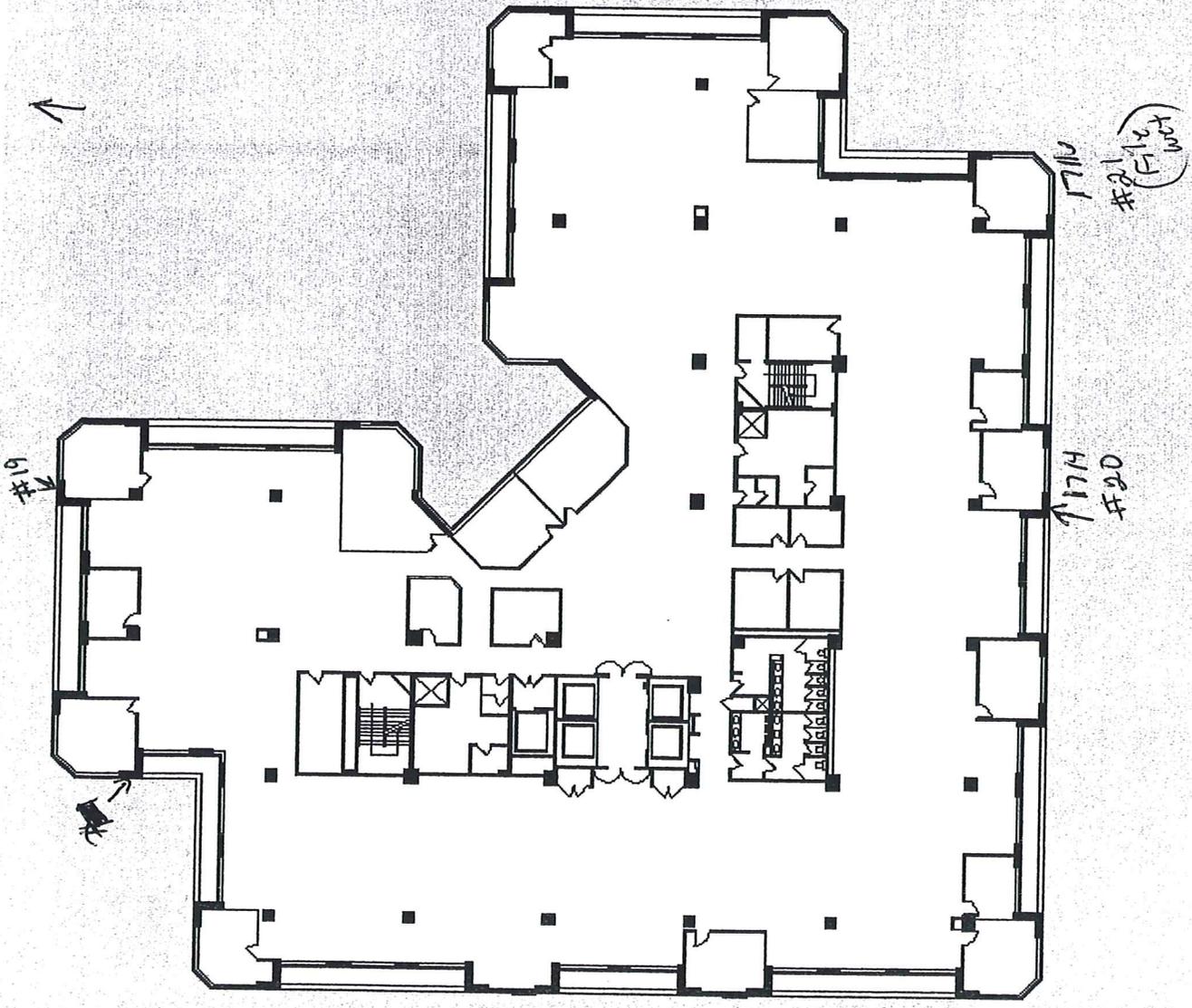
15-2-10



1/6 Floor

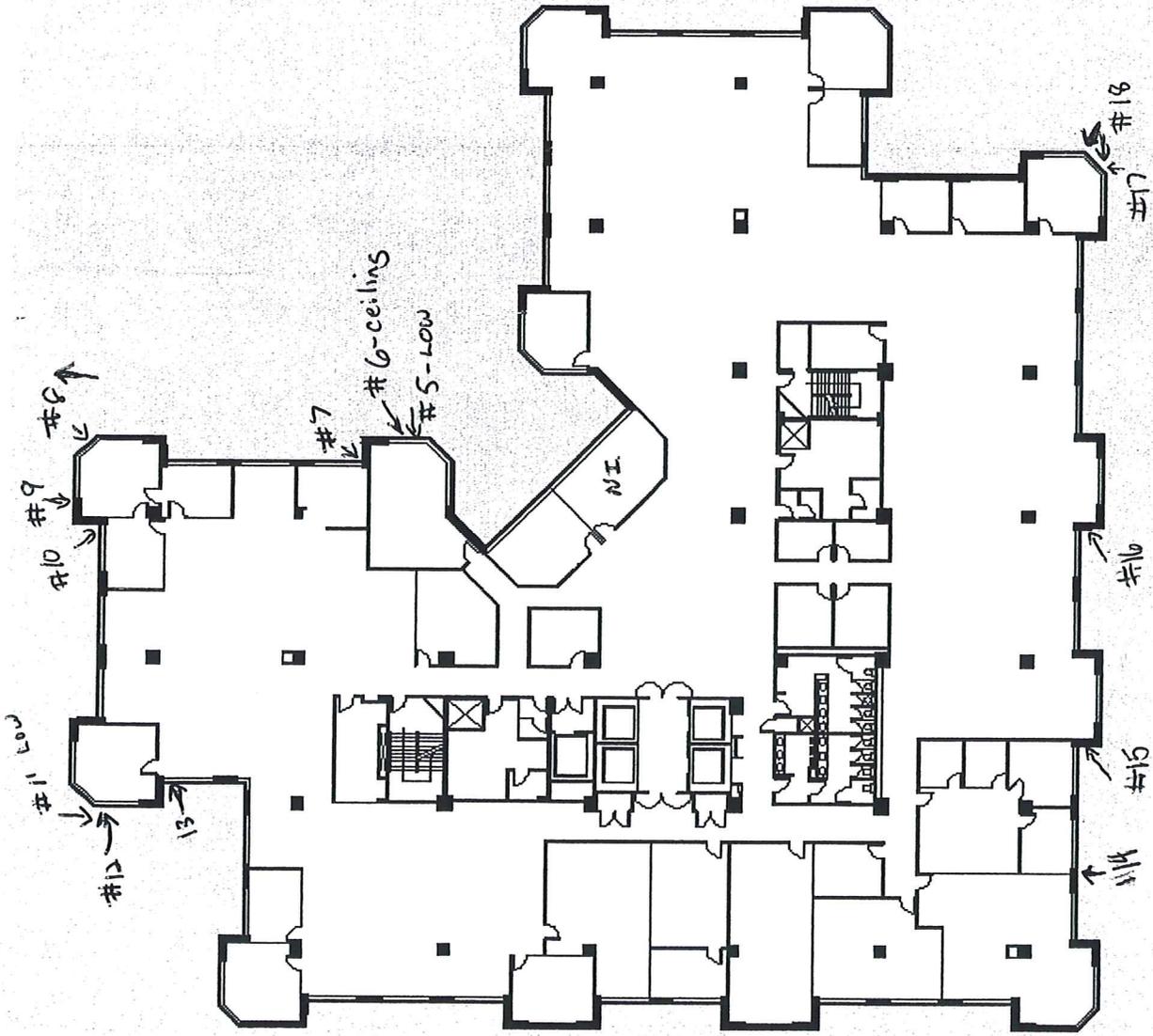


17th Floor



18th Floor

NI - Not Inspected
(IN USE)



10/10/05

1972

N

#1 ↓

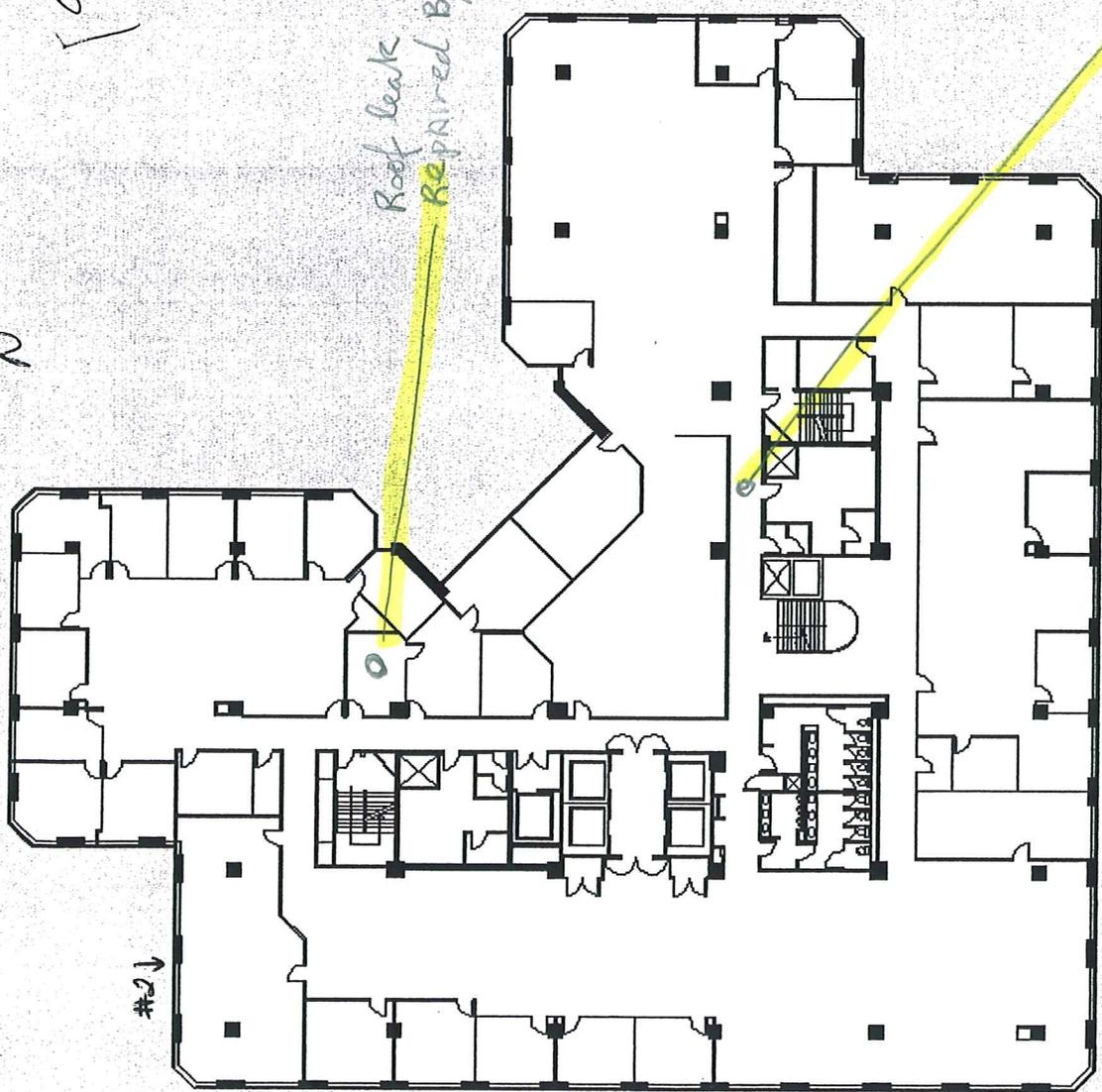
#2 ↓

#4 ↑

#3 →

Roof leak
Repaired By Silktown Roofing
11/01/05

Roof leak
Repair by Silktown Roofing
11/01/05



10/10/05

20th Floor

North

