



Lecture # **3: How to Read a Building...Field Survey Skills**





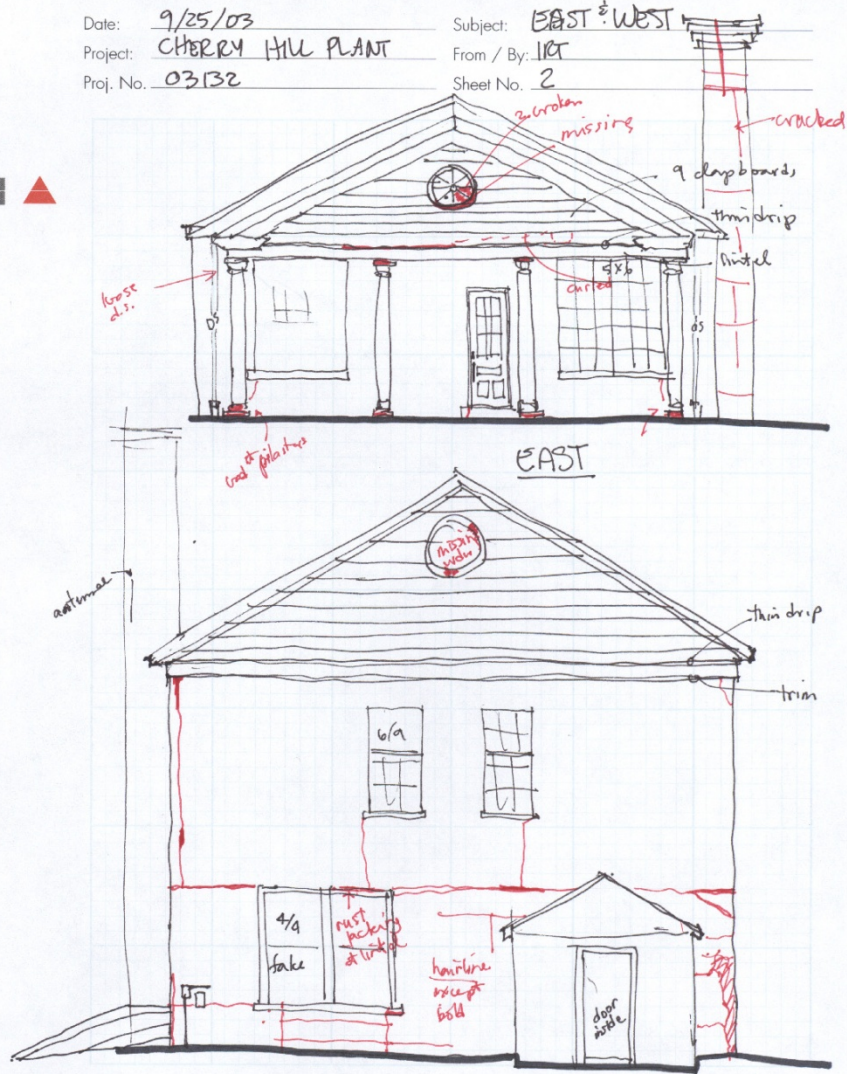


# Field Survey Skills



MEMORANDUM | SURVEY SHEET

Date: 9/25/03 Subject: EAST & WEST  
 Project: CHERRY HILL PLANT From / By: IJR  
 Proj. No. 03132 Sheet No. 2



QUINN EVANS | ARCHITECTS

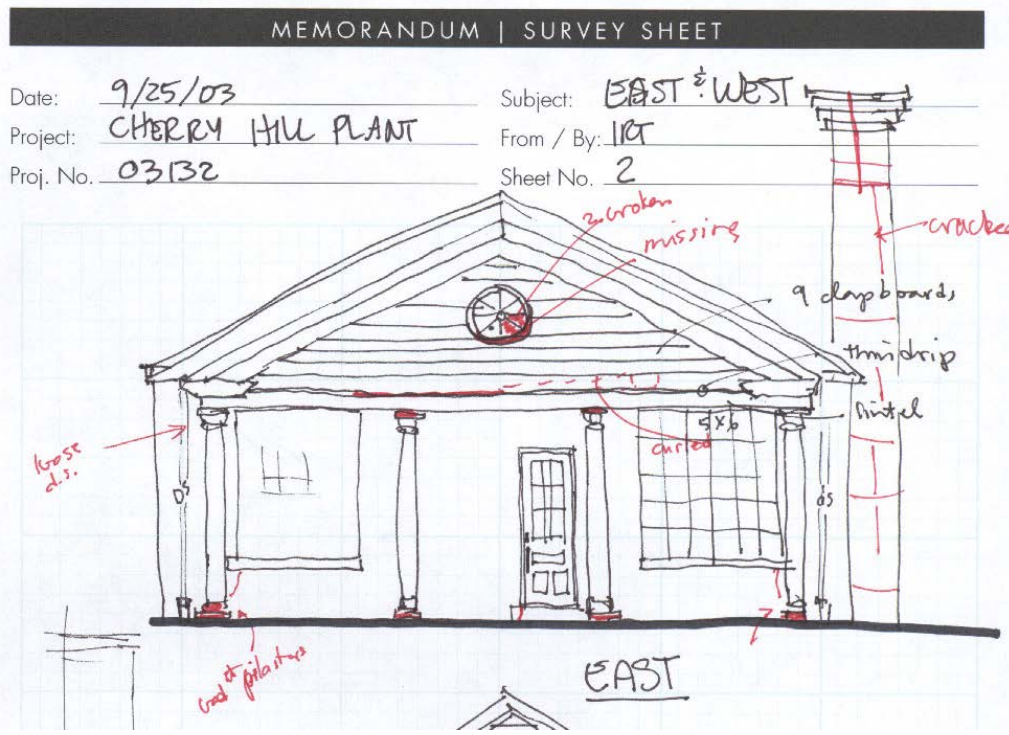
219 1/2 N. Main Street  
Ann Arbor, Michigan 48104

WEST

v 734 663 5888 www.quinnevans.com  
f 734 663 5044

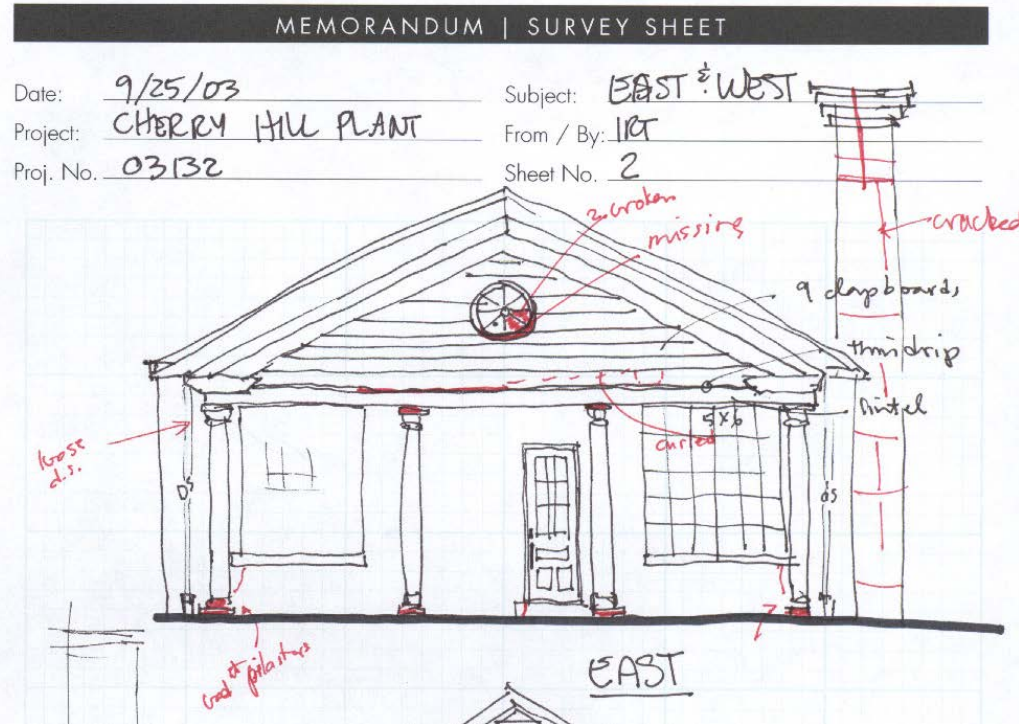


# Field Survey Skills





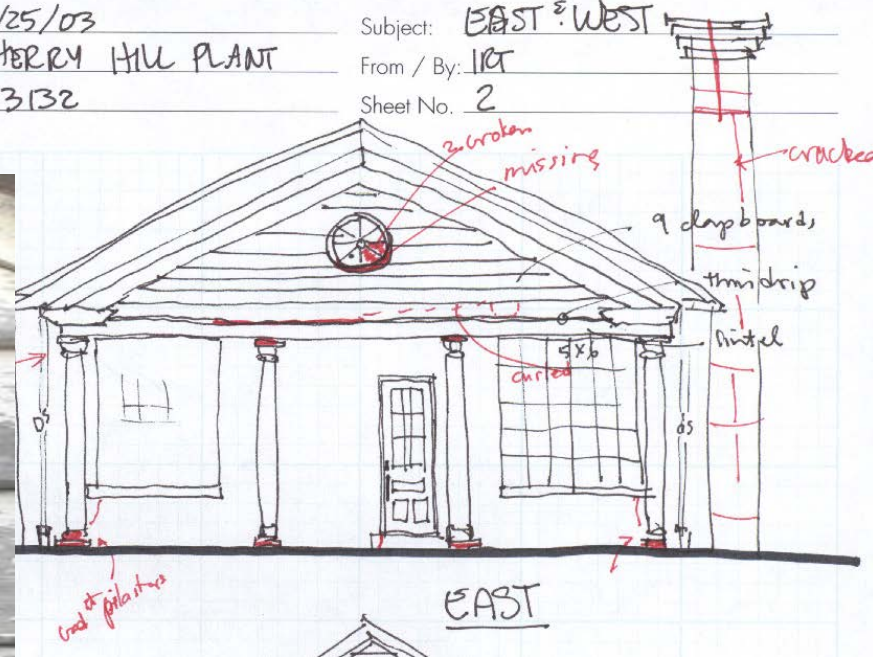
# Field Survey Skills



## Field Survey Skills

MEMORANDUM | SURVEY SHEET

Date: 9/25/03 Subject: EAST & WEST  
Project: CHERRY HILL PLANT From / By: IRT  
Proj. No. 03132 Sheet No. 2







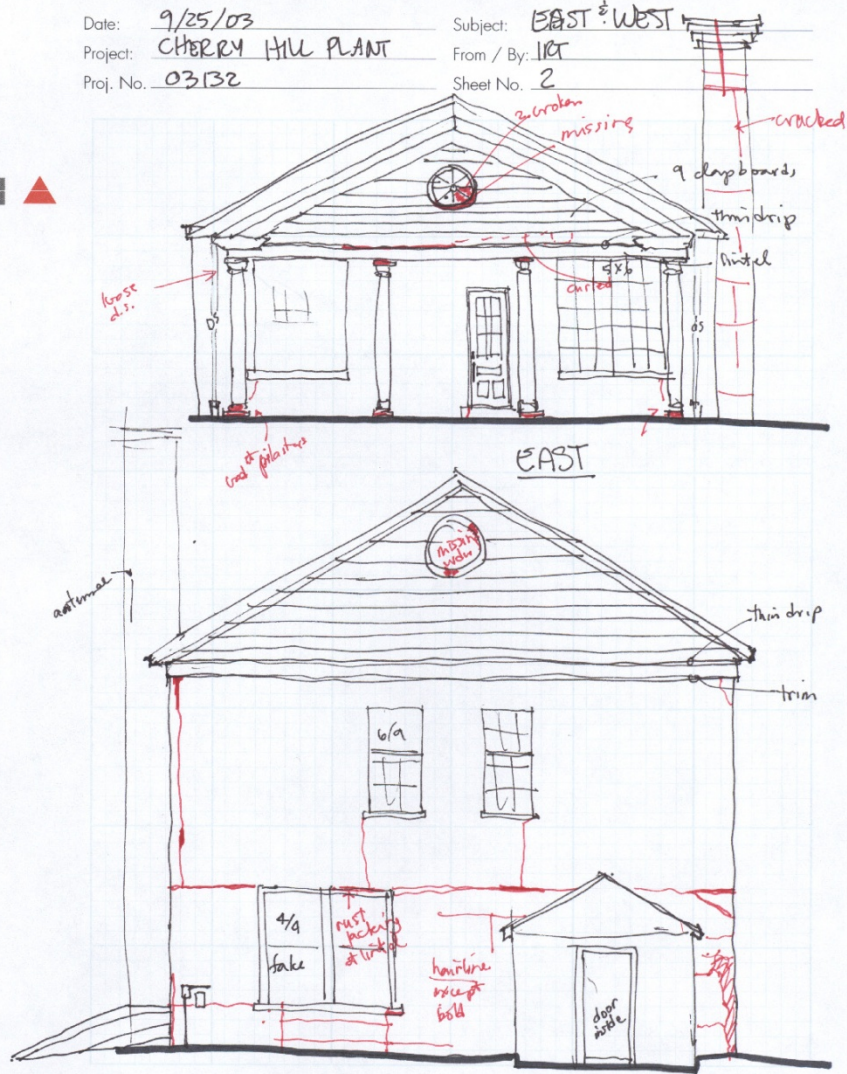


# Field Survey Skills



MEMORANDUM | SURVEY SHEET

Date: 9/25/03 Subject: EAST & WEST  
 Project: CHERRY HILL PLANT From / By: JET  
 Proj. No. 03132 Sheet No. 2



QUINN EVANS | ARCHITECTS

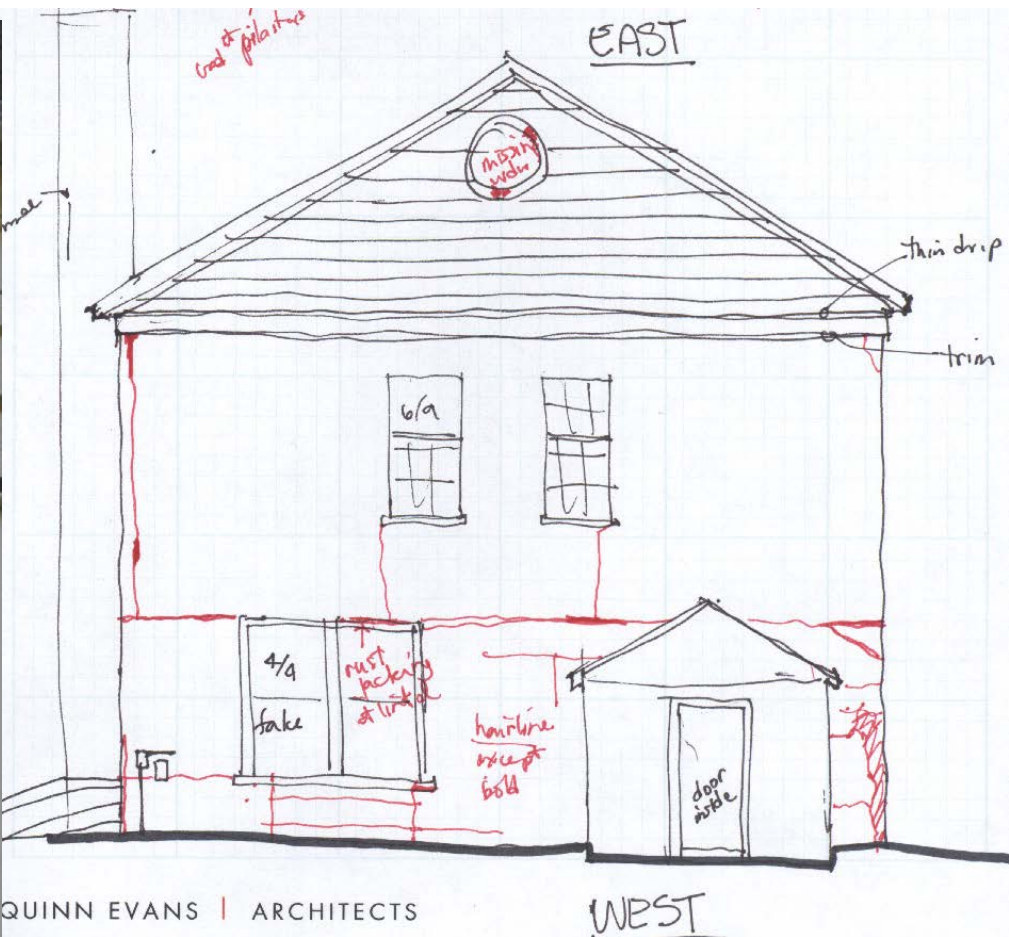
219 1/2 N. Main Street  
Ann Arbor, Michigan 48104

WEST

v 734 663 5888 www.quinnevans.com  
f 734 663 5044

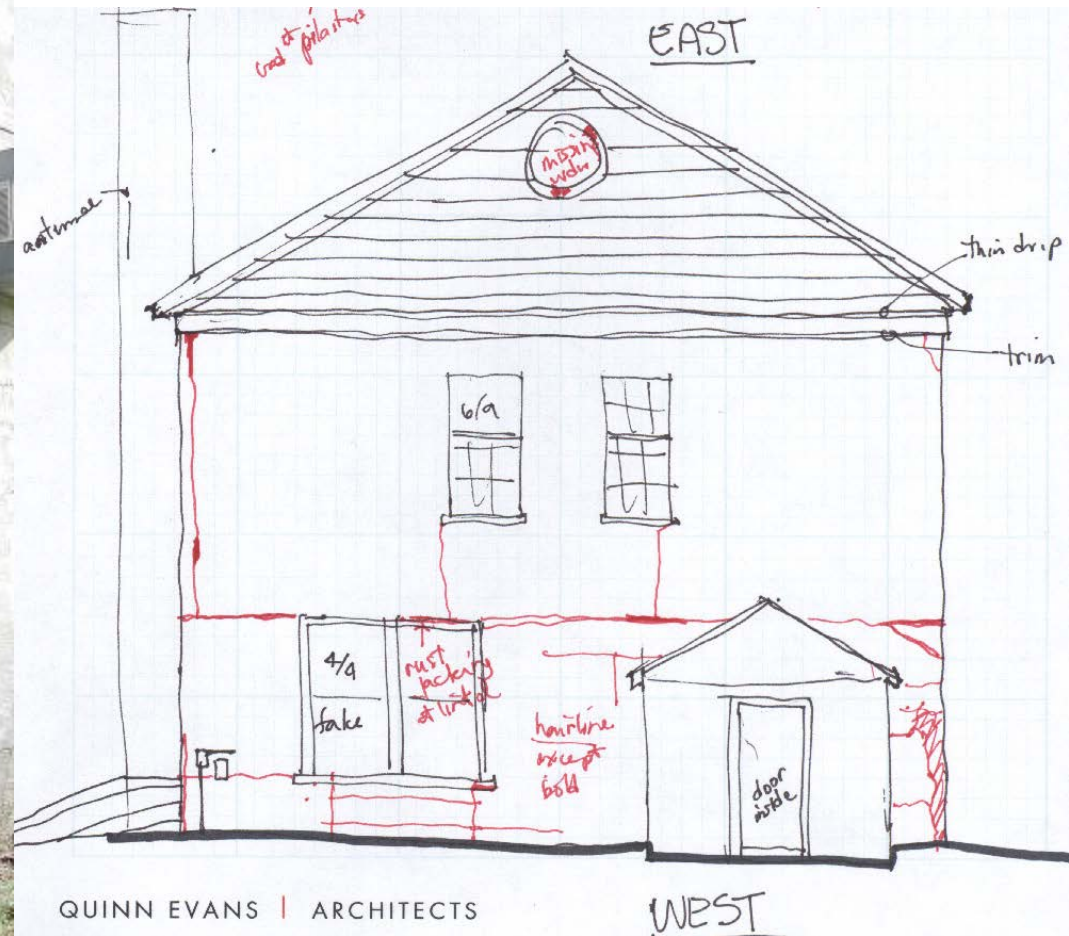


# Field Survey Skills





## Field Survey Skills





# Field Survey Skills

## GOLDEN RULES OF FIELD SURVEY

- Keep survey sheets clean and neat

MEMORANDUM | SURVEY SHEET

Date: 9/25/03 Subject: FLOOR PLANS  
 Project: CHEERY HILL PLANT From / By: IKT  
 Proj. No. 03132 Sheet No. 4

BASEMENT                      FIRST FLOOR

NORTH

QUINN EVANS | ARCHITECTS  
 219 1/2 N. Main Street                      v 734 663 5888  
 Ann Arbor, Michigan 48104                      f 734 663 5044

gas to meter  
no water  
elect. underground  
septic  
www.quinnevans.com



# Field Survey Skills

## GOLDEN RULES OF FLOOR PLAN SURVEY

- Keep survey sheets clean and neat
- Provide survey data: date, project name, sheet title, numbering, and your name.....and north arrow.

MEMORANDUM | SURVEY SHEET

Date: 9/25/03 Subject: FLOOR PLANS  
 Project: CHERRY HILL PLANT From / By: IKT  
 Proj. No. 03132 Sheet No. 4

● ■ ▲

NORTH

BASEMENT      FIRST FLOOR

QUINN EVANS | ARCHITECTS  
 219½ N. Main Street v 734 663 5888  
 Ann Arbor, Michigan 48104 f 734 663 5044

## Field Survey Skills

### GOLDEN RULES OF FLOOR PLAN SURVEY

- Keep survey sheets clean and neat
- Provide survey data: date, project name, sheet title, numbering, and your name.
- Use color to distinguish between sketch information and conditions.
  - Black for building or site base information
  - Red for dimensions and conditions, or
  - Optional third color for conditions
  - Optional fourth color for subsequent survey visits

MEMORANDUM | SURVEY SHEET

Date: 9/25/03 Subject: FLOOR PLANS  
Project: CHERRY HILL PLANT From / By: IKT  
Proj. No. 03132 Sheet No. 4

2 dead raccoons } odor!  
many birds

Septic fields

oil tank removed

boarded up

Elect.

paint peeling at ceiling above

carpet

crawl space

oil tank removed

Septic fields

gas to meter  
no water  
elect. underground  
Septic

underground storm drains to creek

NORTH

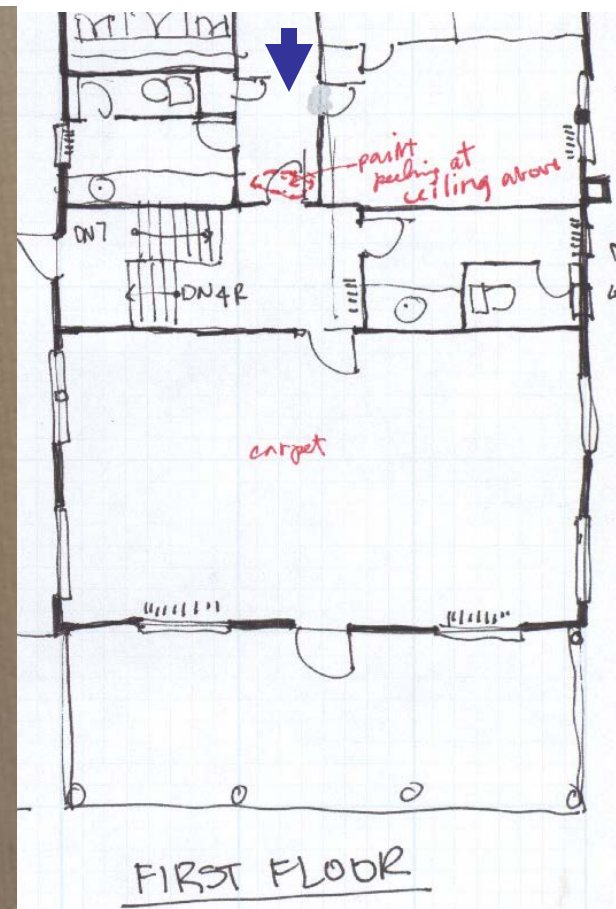
QUINN EVANS | ARCHITECTS  
219½ N. Main Street v 734 663 5888  
Ann Arbor, Michigan 48104 f 734 663 5044  
www.quinnevans.com





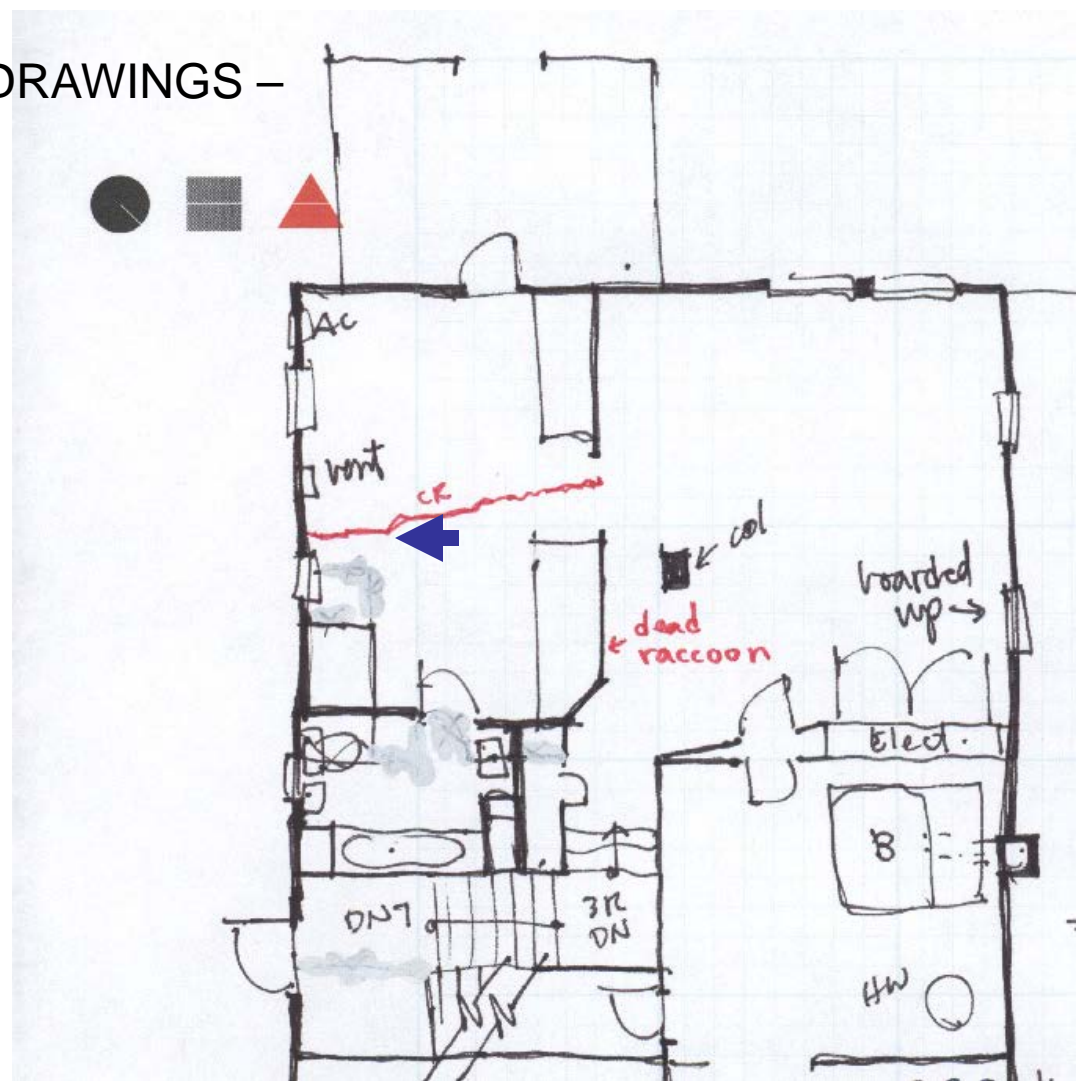
## Field Survey Skills

PHOTOGRAPHS SUPPLEMENT DRAWINGS –  
THEY ARE **NOT** A SUBSTITUTE



## Field Survey Skills

PHOTOGRAPHS SUPPLEMENT DRAWINGS –  
THEY ARE **NOT** A SUBSTITUTE



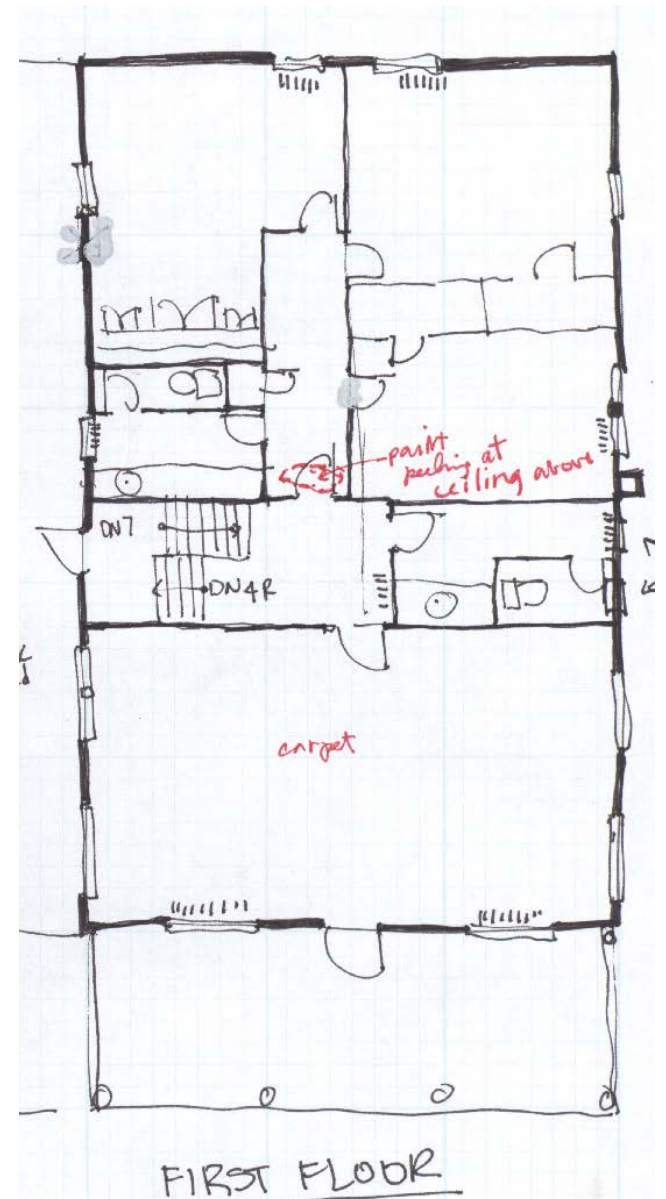




## Field Survey Skills

### RULES OF FIELD MEASURING

- Measure to nearest  $\frac{1}{2}$ " for overall building and room sizes. Measure smaller for details.

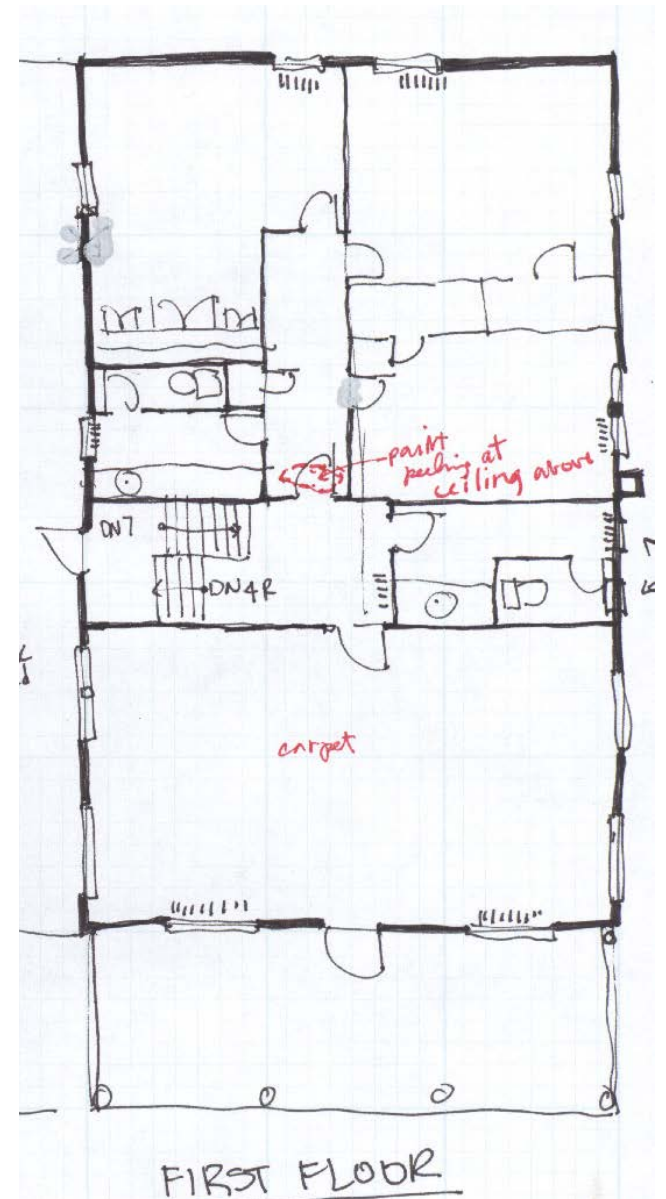




## Field Survey Skills

### RULES OF FIELD MEASURING

- Measure to nearest  $\frac{1}{2}$ " for overall building and room sizes. Measure smaller for details.
- Read inches from the tape and convert to feet-and-inches later...avoids math errors.

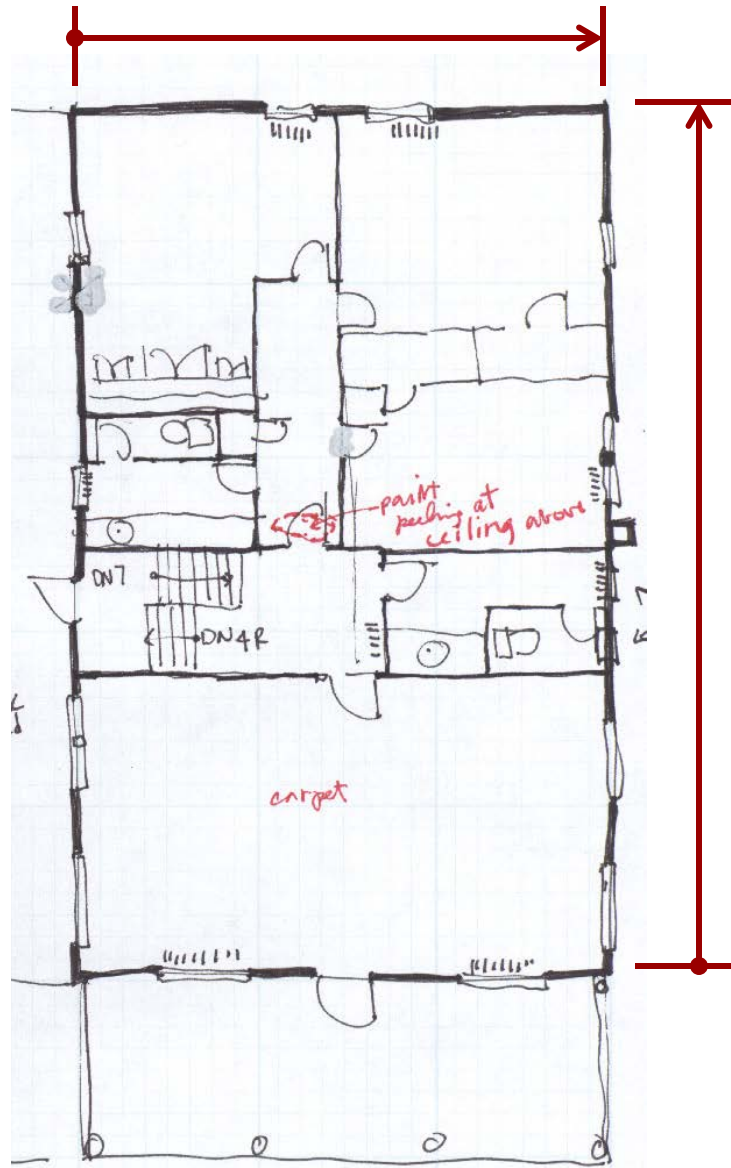




## Field Survey Skills

### RULES OF FIELD MEASURING

- Measure to nearest 1/2" for overall building and room sizes. Measure smaller for details.
- Read inches from the tape and convert to feet-and-inches later...avoids math errors.
- Get overall building footprint or overall inside room dimensions first. Then do "string" or "running" dimensions and compare for accuracy.



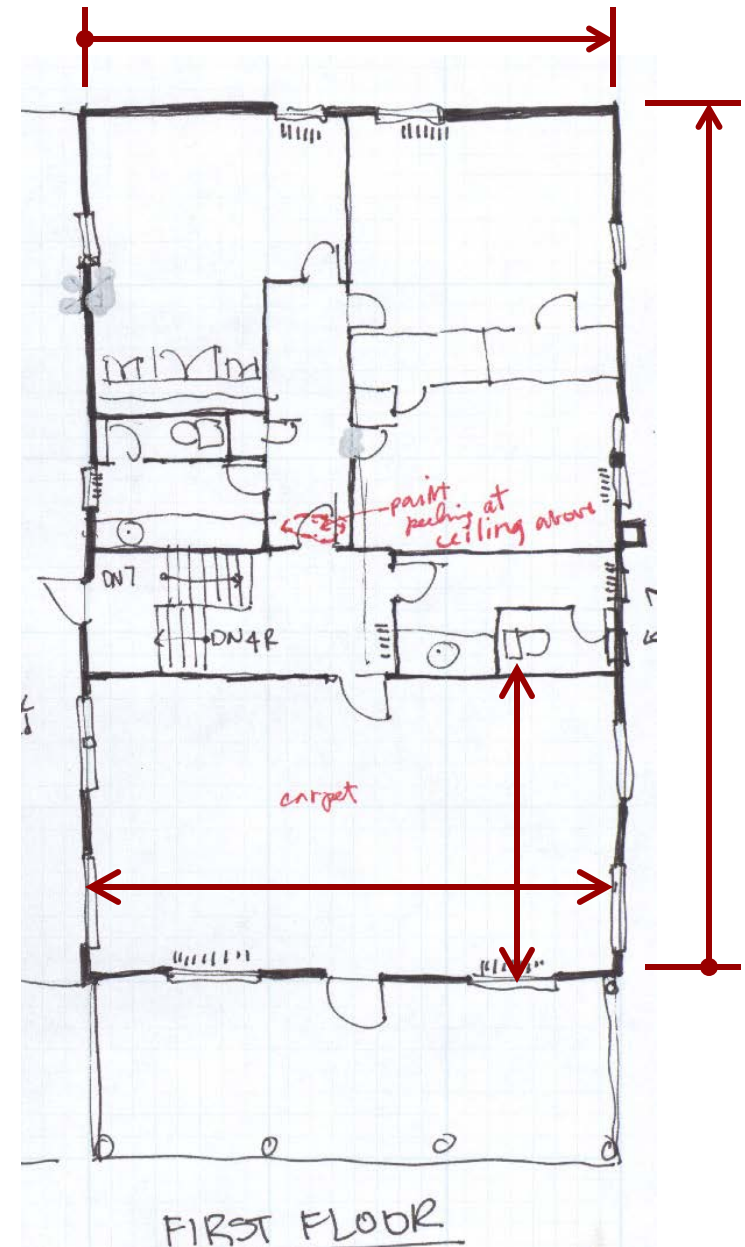
FIRST FLOOR



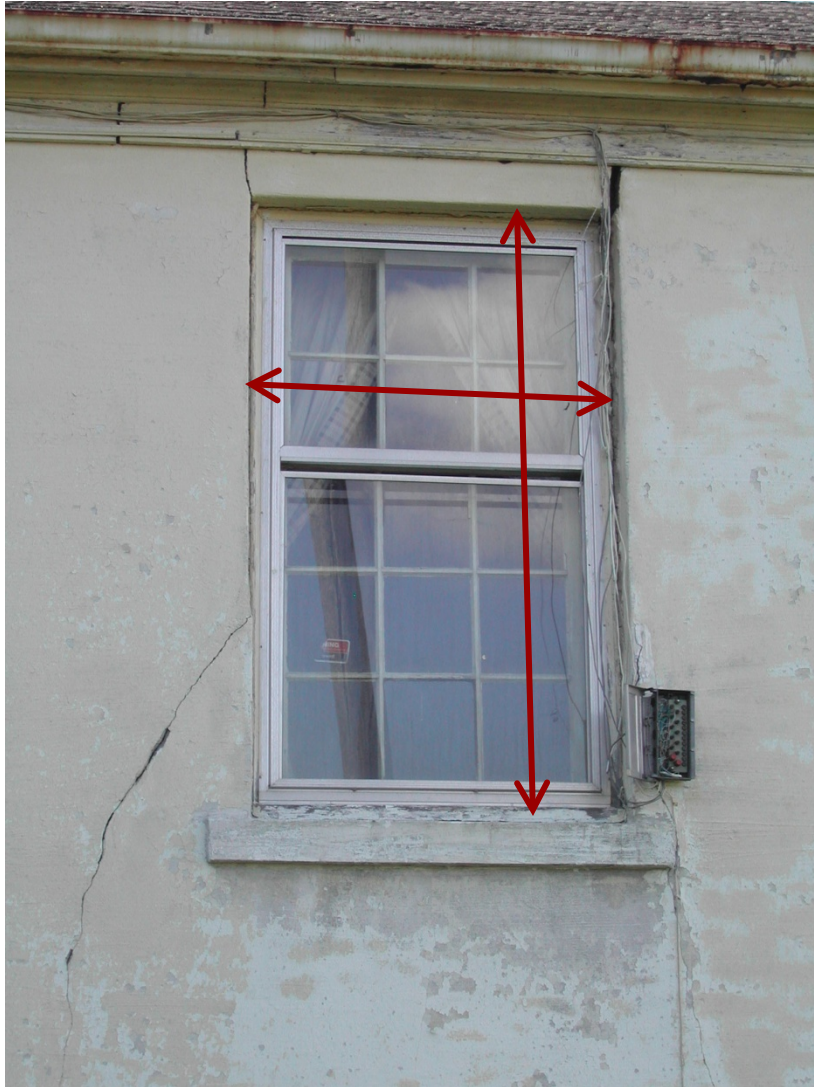
## Field Survey Skills

### RULES OF FIELD MEASURING

- Measure to nearest  $\frac{1}{2}$ " for overall building and room sizes. Measure smaller for details.
- Read inches from the tape and convert to feet-and-inches later...avoids math errors.
- Get overall building footprint or overall inside room dimensions first. Then do "string" or "running" dimensions and compare for accuracy.
- Put your dimension lines on your field sketch first, then "fill in the blanks" as a way to see if you got everything. Remember to use a different color (red is preferred).

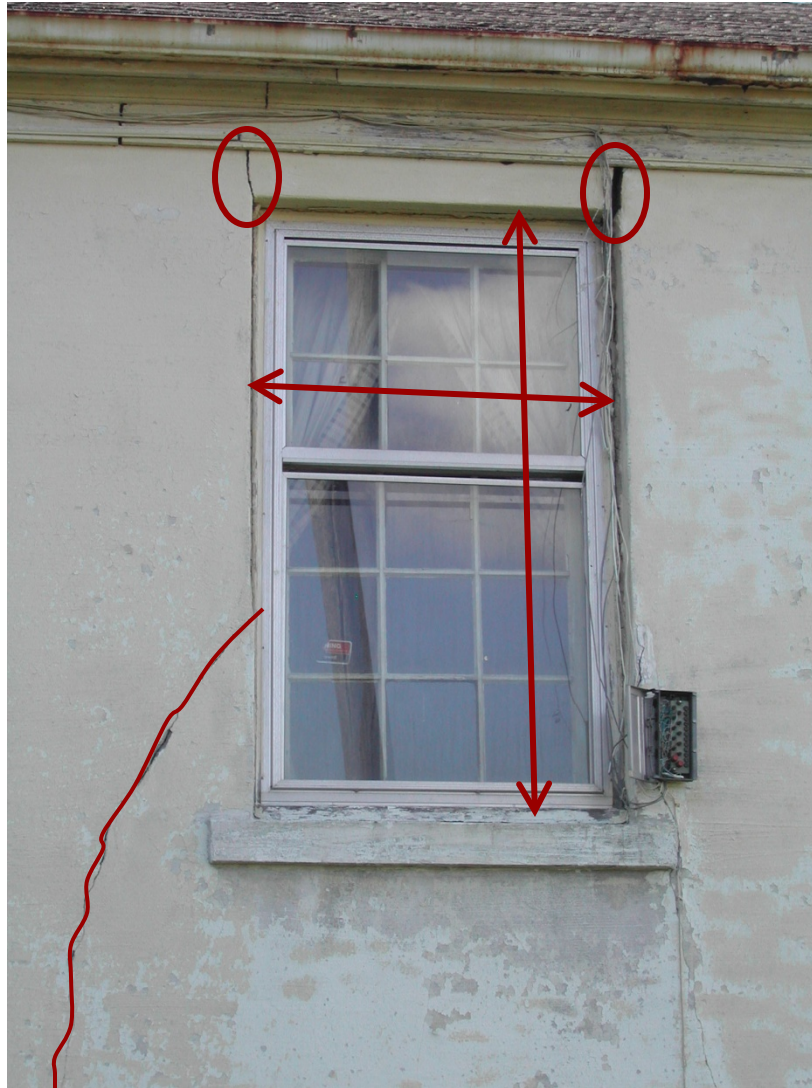


## Field Survey Skills



**Window and door openings are measured to “rough” carpentry or masonry opening.**

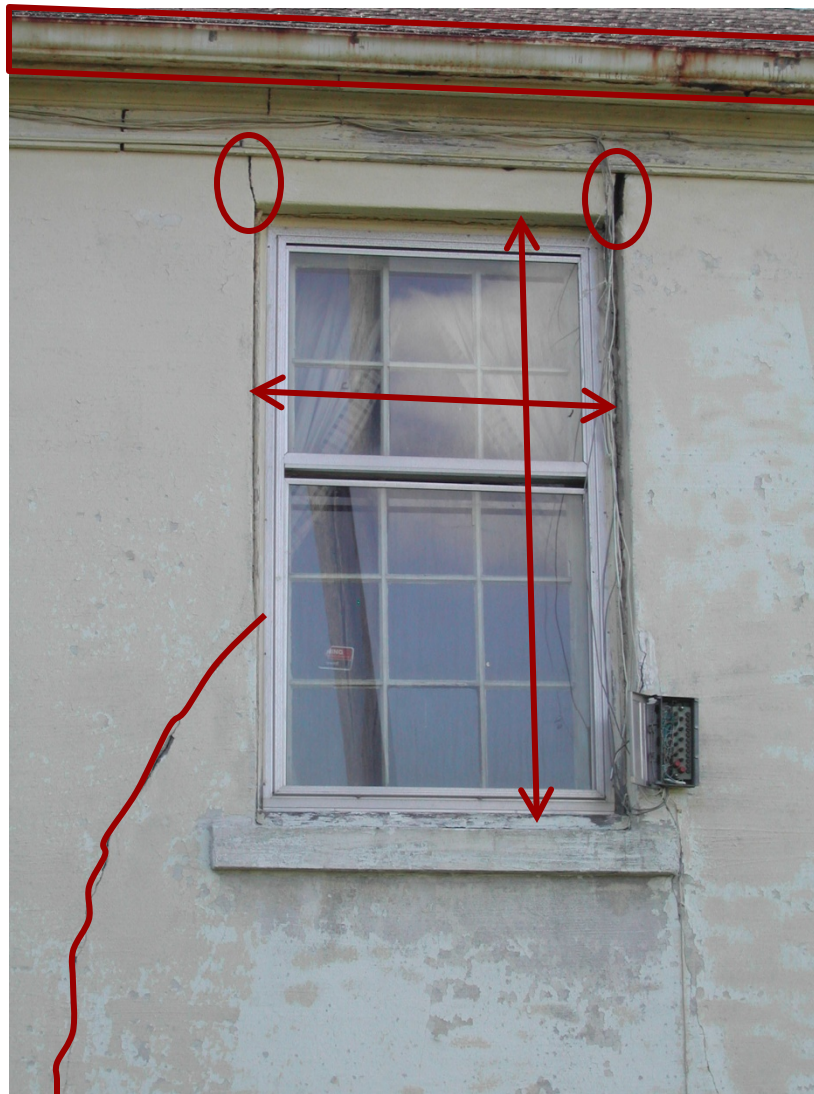
## Field Survey Skills



Window and door openings are measured to “rough” carpentry or masonry opening.

**Note cracks and gaps in lintel and in stucco building face.**

## Field Survey Skills



**Note the rusty gutter**

Window and door openings are measured to “rough” carpentry or masonry opening.

Note cracks and gaps in lintel and in stucco building face.



## **Field Survey Skills - Final Comments**

**Before you start...establish a  
“game plan” that makes sense:**



## **Field Survey Skills - Final Comments**

**Before you start...**establish a  
“game plan” that makes sense:

1. Know your end product or purpose for the drawings.



## **Field Survey Skills - Final Comments**

**Before you start...**establish a “game plan” that makes sense:

1. Know your end product or purpose for the drawings.
2. Aspire to completeness and accuracy for every detail.



## **Field Survey Skills - Final Comments**

**Before you start...**establish a “game plan” that makes sense:

1. Know your end product or purpose for the drawings.
2. Aspire to completeness and accuracy for every detail.
3. Establish a realistic time budget for the survey.



## **Field Survey Skills - Final Comments**

**Before you start...**establish a “game plan” that makes sense:

1. Know your end product or purpose for the drawings.
2. Aspire to completeness and accuracy for every detail.
3. Establish a realistic time budget for the survey.
4. Determine the total number of drawings you will need.



## **Field Survey Skills - Final Comments**

**Before you start...establish a “game plan” that makes sense:**

### **SURVEY TOOLS:**

- Graph paper, 1/8” per foot
- Clip board
- Multiple colored pens, black and red as a minimum, also green and blue recommended.
- Tape measure, folding rule
- Flash light
- Magnet
- Pen knife or small pry bar
- Binoculars
- Compass
- Baggies or small envelopes
- Magnifying glass or 8X lupe
- Site, line, or carpenter’s level

1. Know your end product or purpose for the drawings.
2. Aspire to completeness and accuracy for every detail.
3. Establish a realistic time budget for the survey.
4. Determine the total number of drawings you will need.
5. Make sure you have the appropriate tools.



# Winter Semester 2013 - GHPR 651 Principles of Preservation Technology

## Lecture # 3: How to Read a Building...Field Survey Skills

### QUINN EVANS | ARCHITECTS

#### EXTERIOR - SURVEY NOTES

Project Name: \_\_\_\_\_ Course No.: \_\_\_\_\_

Location: \_\_\_\_\_ Date: \_\_\_\_\_

Prepared by: \_\_\_\_\_ Survey Sheet No.: \_\_\_\_\_

Location	Materials	Conditions
Roof		
Drainage		
Walls North		
South		
East		
West		
Features		
Foundation		

### QUINN EVANS | ARCHITECTS

#### EXTERIOR - SURVEY NOTES

Project Name: \_\_\_\_\_ Course No.: \_\_\_\_\_

Location: \_\_\_\_\_ Date: \_\_\_\_\_

Prepared by: \_\_\_\_\_ Survey Sheet No.: \_\_\_\_\_

Location	Materials	Conditions
Windows North		
South		
East		
West		
Hardware		
Trim		
Doors North		
South		
East		
West		
Hardware		
Trim		



# Winter Semester 2013 - GHPR 651 Principles of Preservation Technology

## Lecture # 3: How to Read a Building...Field Survey Skills

### QUINN EVANS | ARCHITECTS

#### INTERIOR - SURVEY NOTES

Project Name: \_\_\_\_\_ Course No.: \_\_\_\_\_

Room Name / No.: \_\_\_\_\_ Date: \_\_\_\_\_

Prepared by: \_\_\_\_\_ Survey Sheet No.: \_\_\_\_\_

Location	Materials	Conditions
Floor		
Base		
Wall		
North		
South		
East		
West		
Ceiling		
Doors		
Windows		
Trim/casing		

### QUINN EVANS | ARCHITECTS

#### INTERIOR - SURVEY NOTES

Project Name: \_\_\_\_\_ Course No.: \_\_\_\_\_

Location \_\_\_\_\_ Materials \_\_\_\_\_ Conditions \_\_\_\_\_

Location	Materials	Conditions
Features		
Built-in		
Hardware		
Lighting		
Electric		
HVAC		
Plumbing		
Other		



**A Three-Step Process to Identify  
a Building's Visual Character**



by Lee H. Nelson, FAIA

**Step 1: Identify the building's overall character, distinguishing features, and setting.**



**A Three-Step Process to Identify  
a Building's Visual Character**



by Lee H. Nelson, FAIA

- Step 1: Identify the building's overall character, distinguishing features, and setting.
- Step 2: Identify the building's exterior visual aspects, craftsmanship, and details.**



**A Three-Step Process to Identify  
a Building's Visual Character**



by Lee H. Nelson, FAIA

- Step 1: Identify the building's overall character, distinguishing features, and setting.
- Step 2: Identify the building's exterior visual aspects, craftsmanship, and details.
- Step 3: Identify the building's interior spaces, features, and finishes.**



**A Three-Step Process to Identify  
a Building's Visual Character**



by Lee H. Nelson, FAIA

Step 1: Identify the building's overall character, distinguishing features, and setting.

Step 2: Identify the building's exterior visual aspects, craftsmanship, and details.

Step 3: Identify the building's interior spaces, features, and finishes.

**Preservation Brief No. 17 covers the basics of How to Read a Building, Preservation Brief No. 35 describes the process of investigation, and APT Bulletin, Vol. XIV No. 4 1982 has a good article on Field Work methods.**



Lecture # **3: How to Read a Building...Field Survey Skills**

