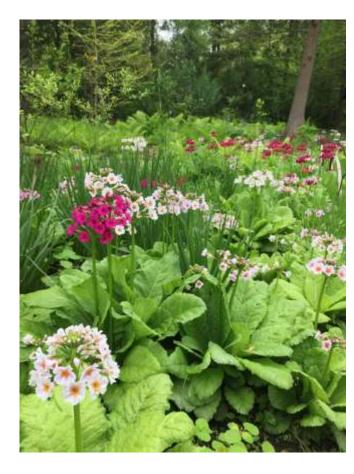
Residential Landscape Design Part 1: Inventory & Analysis **BIRGITTA BROPHY, RLA** SUNY DELHI, SCHOOL OF VETERINARY & APPLIED SCIENCES

Hello!





Today's goal



- Learn about sustainable residential landscape design
 - ▶ Preparation
 - Getting to know the site
 - Designing
 - ► Basic design guidelines

Chanticleer Gardens, PA

Two part presentation

Part 1: Site inventory & analysis

- Importance
- Elements to note:
 - Environmental conditions
 - The built environment
 - Other assessments
- How to record

Part 2: The design process

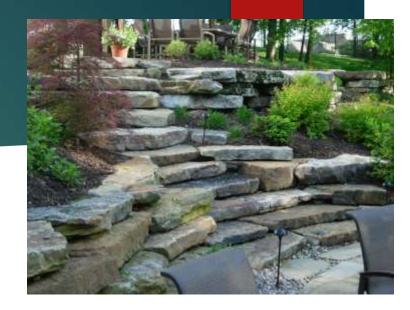
- General considerations
 - Siting on the land
 - Seasons of interest
- Complementing the house
 - Creating a setting with design principles
 - Using the architecture as a basis
- Landscape design guidance
 - ► Formal or informal
 - Entryway guiding the way in
 - General planting bed design

Part 1: Inventory & analysis

UNDERSTANDING YOUR SITE

Why inventory & analysis?

- DETERMINE A SITES POTENTIAL and/or CONSTRAINTS
 - Improved function of the proposed land use
 - Greater convenience for the site's users
 - Enhanced aesthetics
 - Fewer negative environmental impacts
 - Reduced construction, operation and maintenance costs





Inventory and analysis

- Inventory
 - Environmental conditions
 - Physical attributes

- Analysis
 - Quality
 - Opportunities/constraints



Environmental Conditions

IMPORTANT IN PLANT SELECTION

Site environmental conditions

Solar orientation

- Prevailing winds
- Soils
- Slopes / topography

Climate

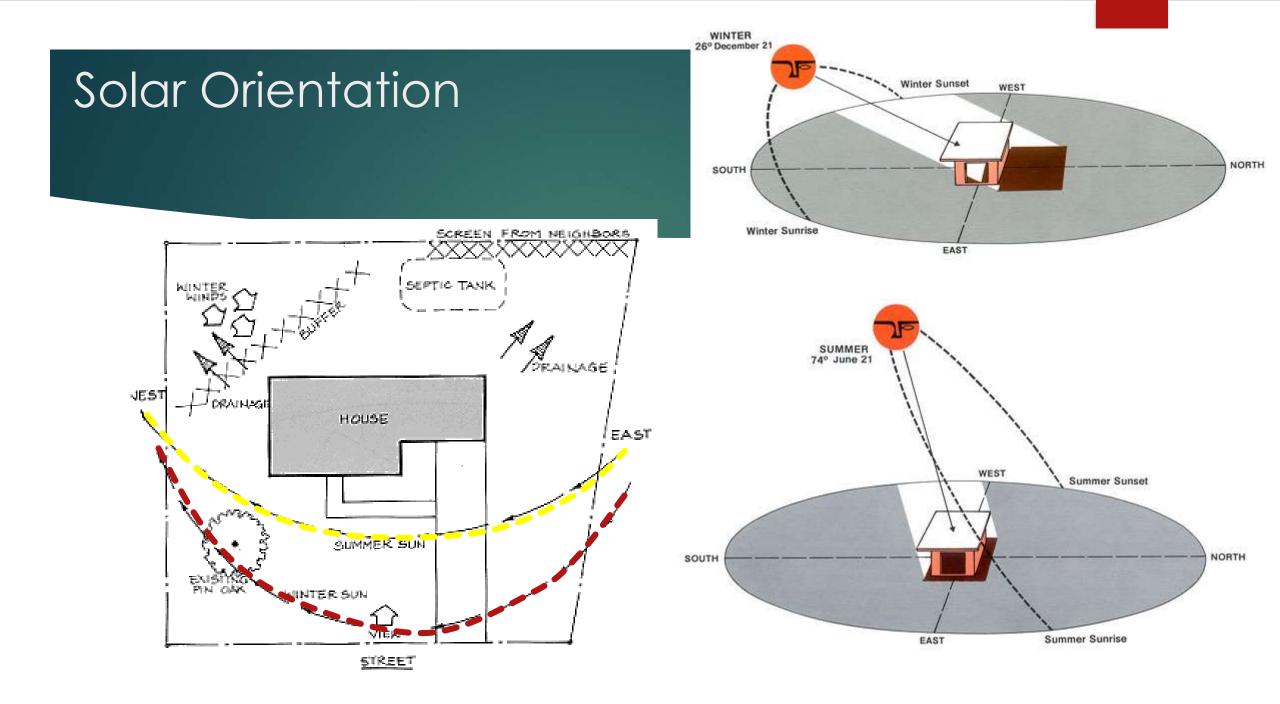
- Existing plants
- Water features



Basis for plant selection:

- Healthier plants
 - ► Fewer pests
 - Greater productivity
- Lower inputs
 - Less pesticides
 - Less labor



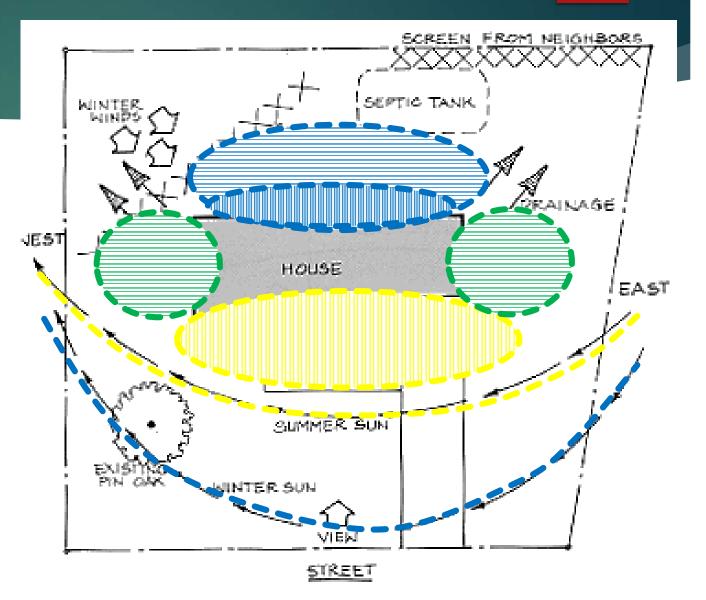


Plant light requirements: seasonal changes

Sun

Part sun

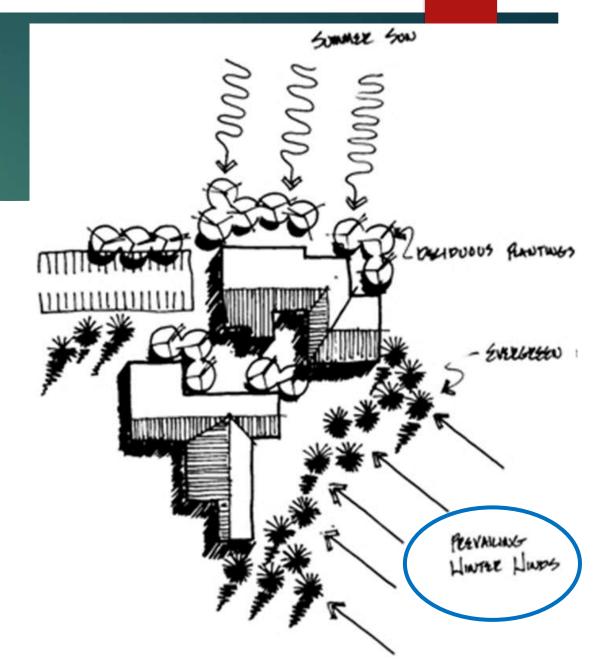
Shade





OR

Winter winds



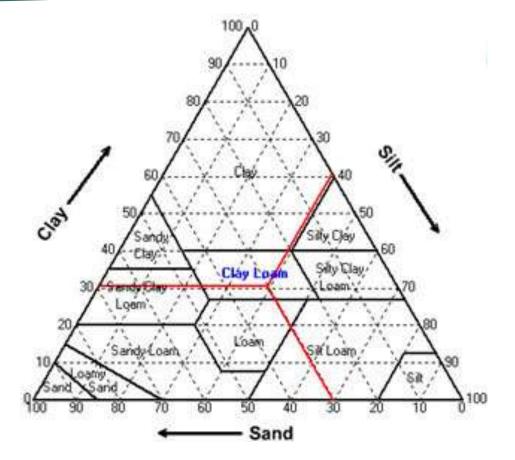
Soil types

Soil

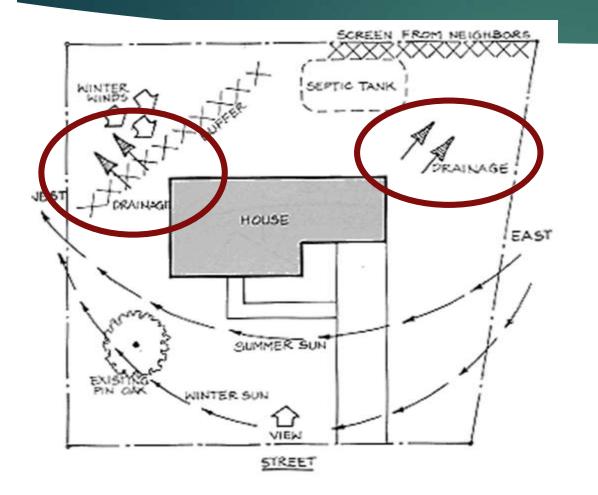
- ► Structure & drainage
- ► pH







Slopes/topography





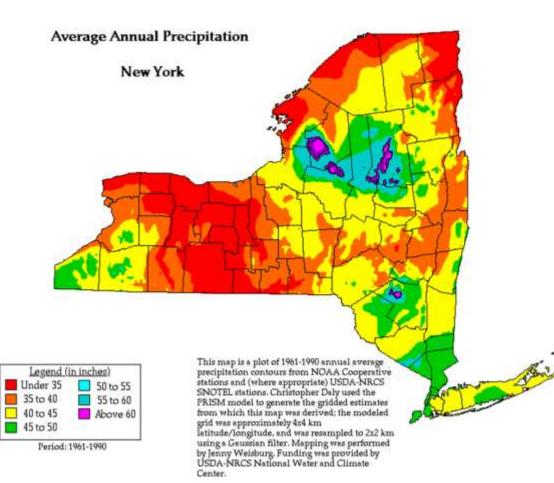
- Standing water / poor drainage
- Excess of 10%
- ▶ Greater than 25%

Topography / Elevation

For every 300' elevation change the average Temperature decreases by 1° Fahrenheit



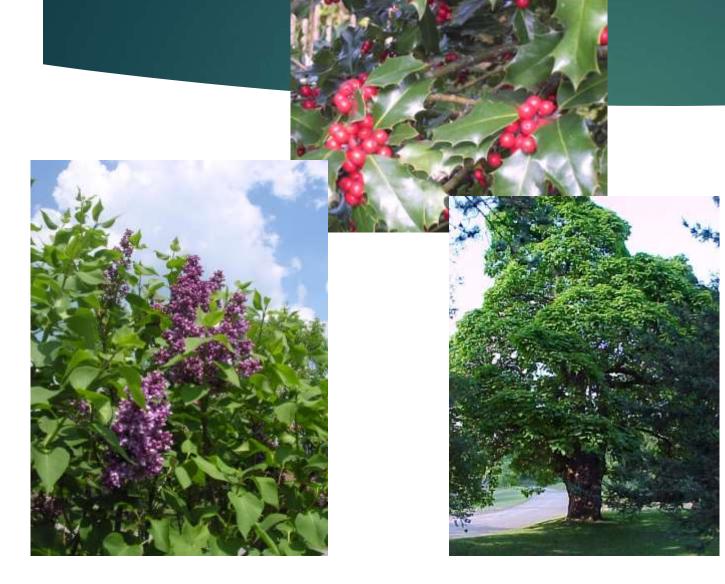
Climate



- Plant hardiness zone
- Precipitation amounts

Microclimates

Existing plants



State of health

Size

- Varieties
- What can plants tell us?

Water features

- Bodies of water
- ► Water runoff / drainage

► Other...



The built environment

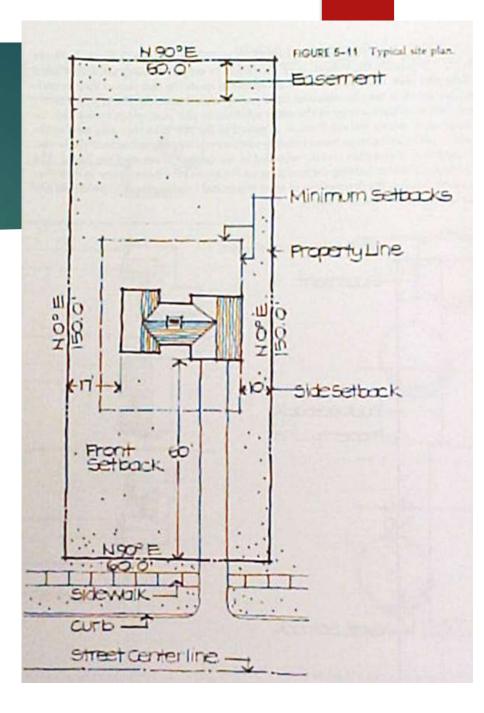
PHYSICAL ATTRIBUTES

The built environment: visual conditions

- Architectural style of house and neighborhood
 - Existing building style
 - Context within the existing neighborhood
 - Local landscape styles



The built environment: legal boundaries

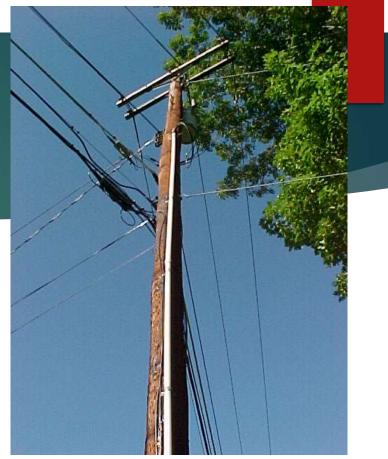


Existing conditions



- Overhead
- Underground
- Pavements
 - ► Types
 - Condition





Other items to inventory:

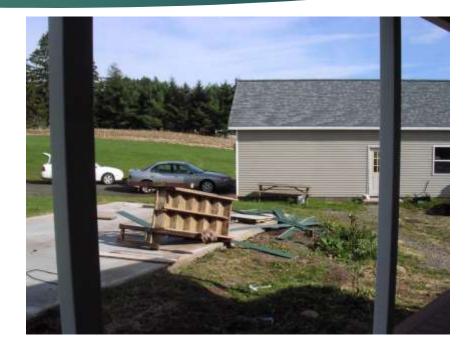
- Important views on and off property
- Specialty gardens
 - ► Water gardens
 - Vegetable garden
- Maintenance Issues





Client needs / preferences:

- Foundation plantings
- Screen plantings
- Vegetable and/or flower gardens
- Color preferences or dislikes

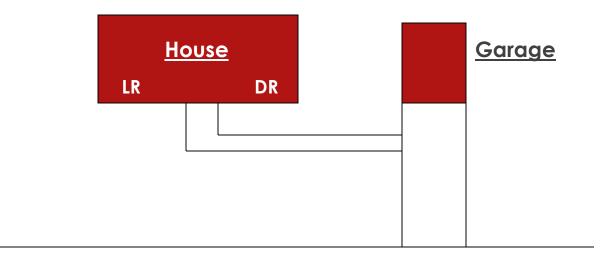


Plant preferences or dislikes

Interior – exterior spaces:

Identify interior spaces of house, i.e. family room or dining room, etc.

Create views OR provide privacy OR add shade

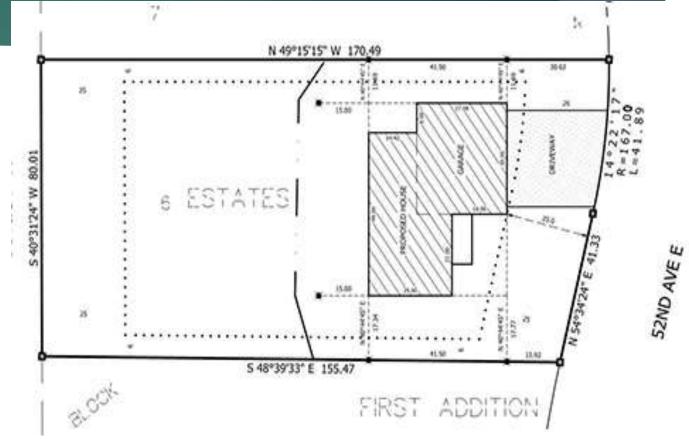


Inventory & Analysis Plan

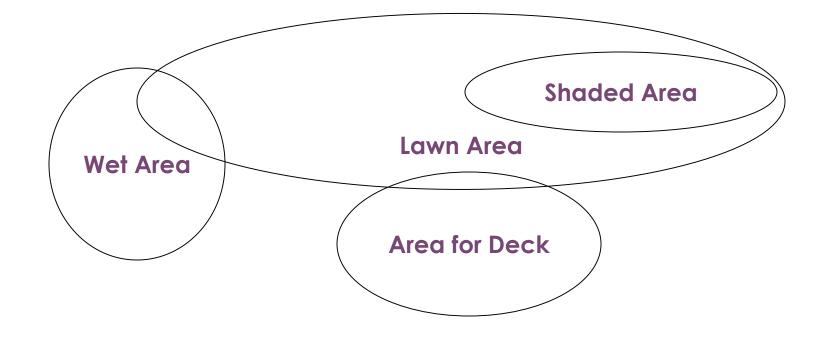
A WAY IN WHICH TO VISUALLY RECORD INFORMATION

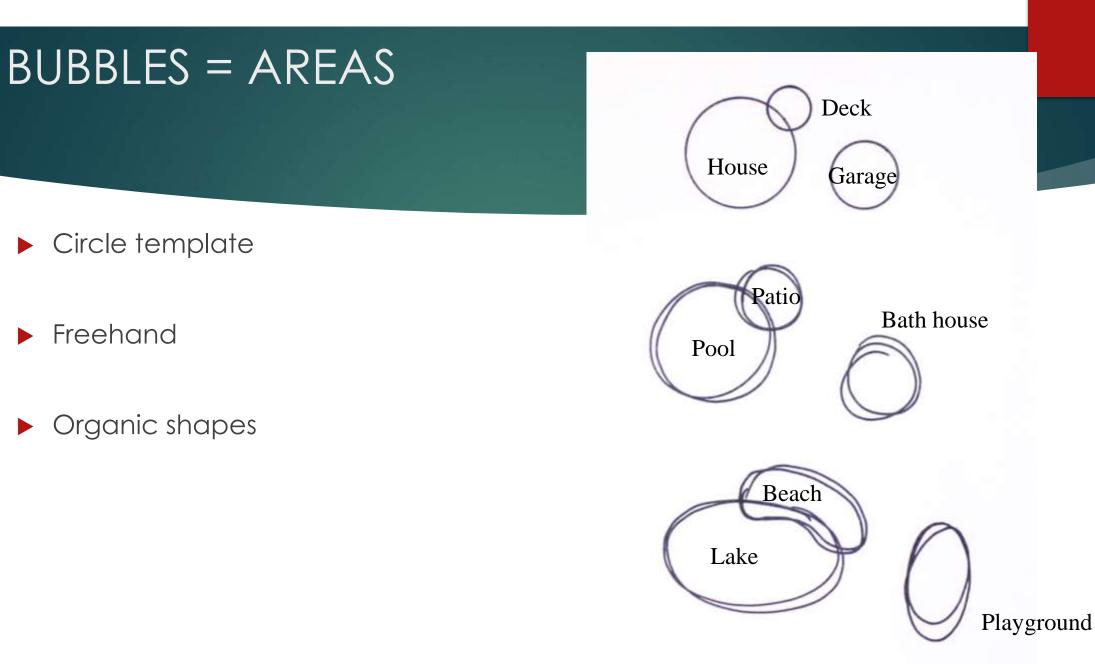
Preparation of a Site Inventory Plan

- On a copy of a survey
- On lined paper with notes
- Over black & white photocopies of property photographs



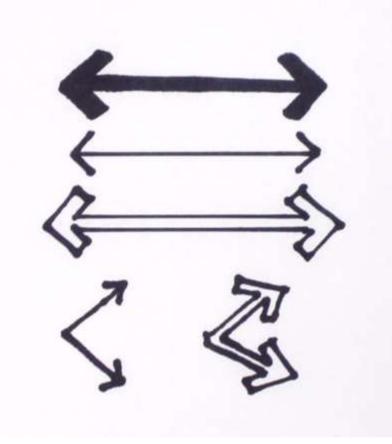
Bubbles = Areas



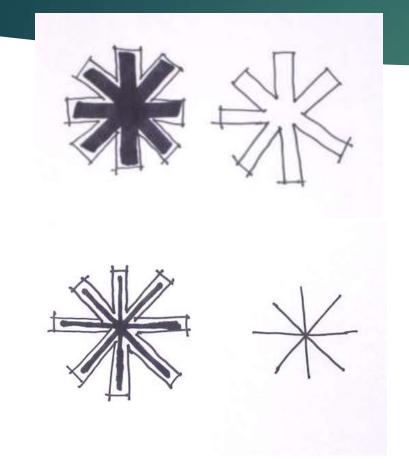


ARROWS = MOVEMENT

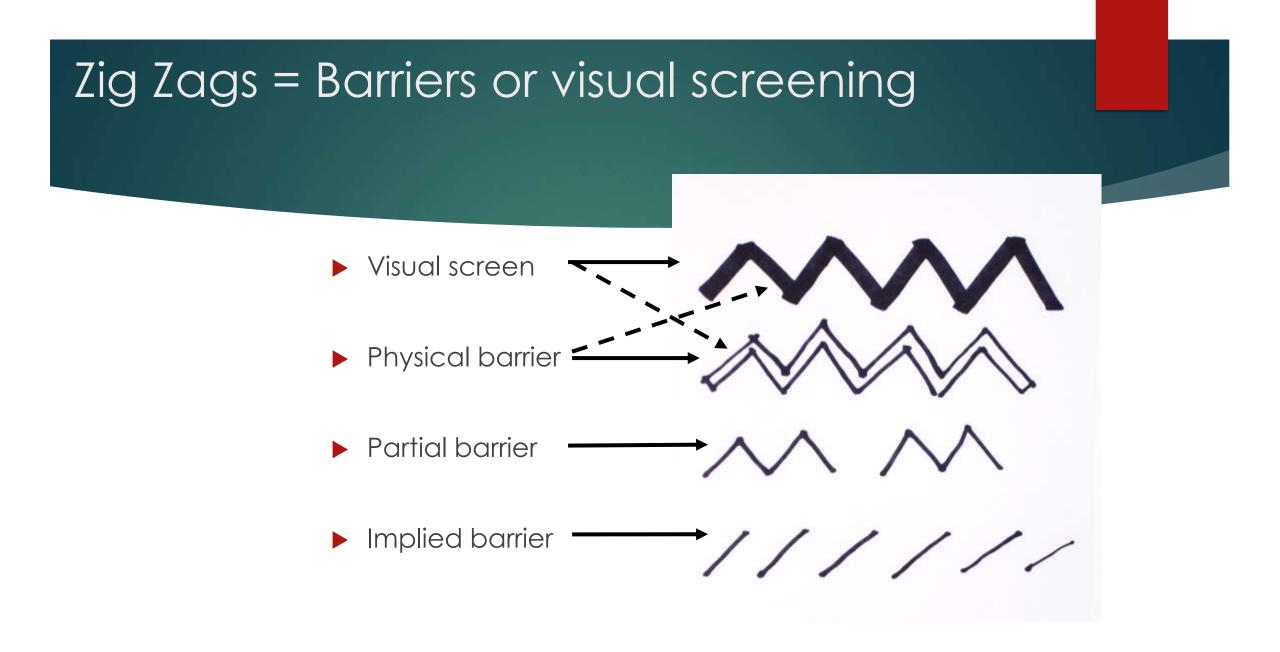
- Bold or light line weights
 - One way
 - Two way
 - Views

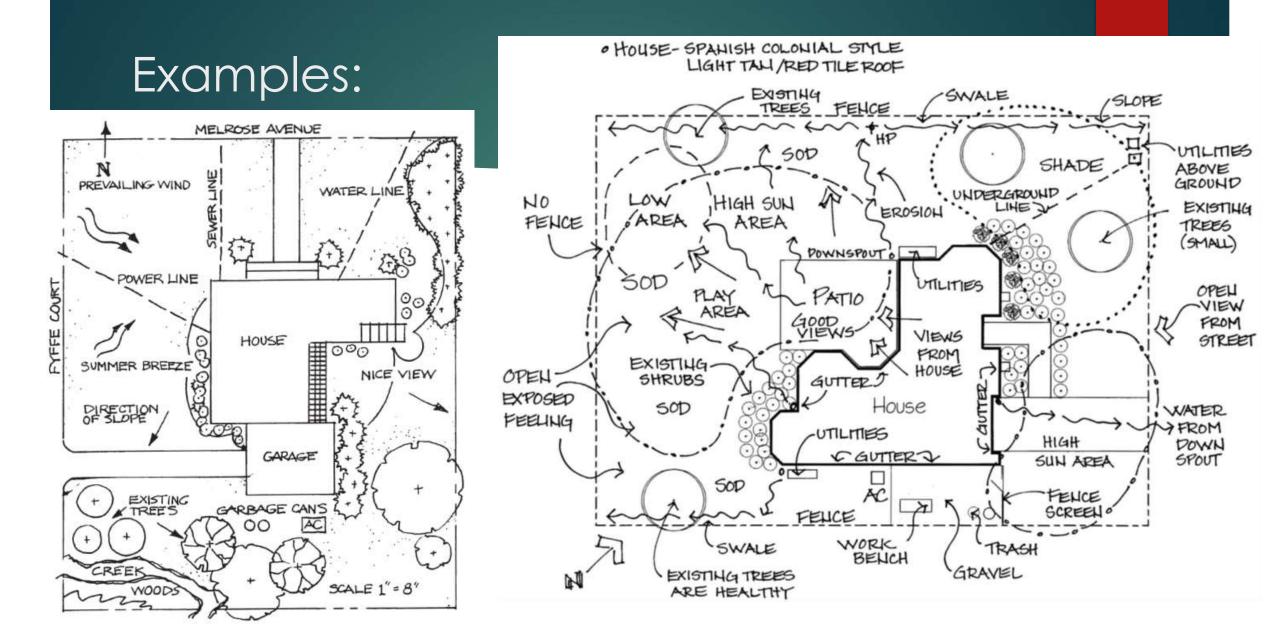


Star/asterisk = Important point / location



- Specific item or area of interest
- Item to direct attention
- A point which is the hub or "front door" of the project area





Other means of recording site information:

- Photographs
 - Digital
 - Panoramic views
- Google Earth



Video

- Records sounds
- Records movement through landscape