Green Construction for Residential and Commercial Buildings
Matt Robert, MS, PE

What is Green Construction?

What does it mean to use Green Construction Practices?
What is the difference between regular construction practices and green construction practices?
Why is Green construction becoming more popular?
Definitions

- **Green Building**
  - The practice of creating structures and using processes that are environmentally responsible and resource efficient throughout a building’s life-cycle from siting to design, construction, operation, maintenance, renovation and deconstruction. This practice expands and complements the classical building design concerns of economy, utility, durability, and comfort. Green building is also known as a sustainable or high performance building.

  From Environmental Protection Agency

Definitions

- **Sustainability**
  - capable of being sustained
  - a: of, relating to, or being a method of harvesting or using a resource so that the resource is not depleted or permanently damaged <sustainable techniques> <sustainable agriculture> b: of or relating to a lifestyle involving the use of sustainable methods

  From Merriam-Webster dictionary

What Organizations Promotes Green Practices?

- US Green Building Council
- National Association of Home Builders
- Forest Stewardship Council
- EnergyStar
What Organizations Promotes Green Practices?

• Green Seal
• BuildingGreen
• Environmental Protection Agency

What Do These Organizations Do?

• New Building Designs
• Environmentally Safe Products
• Products made with environmental processes
• Energy & Water Conservation

What are the Design Criteria for Green Construction

• Lot Design and Surrounding Environment
• Resource Efficiency
• Energy Efficiency
• Water Efficiency
• Indoor Environmental Quality
• Operation, Maintenance & Education
What does Green Construction Mean to you?

• 1-2 page write up
• Typed, 12 point font
• single space with 1” margins on 8.5×11 inch paper
• Due Jan 27

What does Green Construction Mean to you?

• What is your understanding of green construction?
• What do you plan on doing with the information obtained from this class?
• What are you hoping to learn from this class?
• What is the importance of this type of construction?