SUSTAINABLE CONCEPTS FOR CONSTRUCTION PROJECTS
Consider the environment when planning a new project.

There is an increasing demand, in both the private and public sectors, to understand sustainable construction practices. This demand is driven by a realization that sustainable practices make sense to owners, designers and contractors. The practices help the natural/built environment and may improve economic profitability.

The Design Team needs to specifically address the sustainability requirements and resources for the site in the design documents. Some of the items to consider when developing a site specific sustainability plan during construction include the following:

**Sustainable Sites**
- a. Noise Pollution Control
  i. Property line noise survey procedures
  ii. Noise abatement strategies during construction
- b. Light Pollution Control
  i. Strategies for lighting construction work and providing security lighting during construction
- c. Soil Conservation
  i. Soil erosion control during construction
- d. Site debris reuse

**Energy & Atmosphere**
- a. Using LEAN Construction Principles to reduce energy consumption during construction
- b. Energy consumption and resultant costs for construction equipment
- c. Optimization of energy used for temporary heating and cooling during construction
- d. Air Pollution Control of construction equipment
- e. Air Monitoring for Carbon Monoxide procedures
- f. Air Isolation requirements during construction
Water Efficiency
a. Quality management procedures of water used during construction
b. Water runoff management during construction
c. Fertilization optimization for landscaping work
d. Water saving devices

Materials & Resources
a. Waste Minimization
   i. Recycling demolished concrete
   ii. Recycling of construction waste materials (steel, drywall, copper, lead, ceiling panels, materials packaging, paper, etc.)
b. Using Substitution Requests for Sustainable Materials

Indoor Environmental Quality
a. Air Intake Management during construction
b. Environmental isolation of hazardous areas during construction
c. Temporary dehumidification
d. Temporary heating
e. Temporary cooling

There are many organizations and entities with certifying/accrediting programs for sustainability.

REFERENCES:
CONSENSUSDOCS 310 Green Building Addendum

Issued: 2012