

CLEVELAND



ECOVILLAGE

What is an Ecovillage?

A community of people striving to live in a way that is good for the Earth and for future generations

“Ecovillages are urban or rural communities of people, who strive to integrate a supportive social environment with a low-impact way of life”

– Global EcoVillage Network

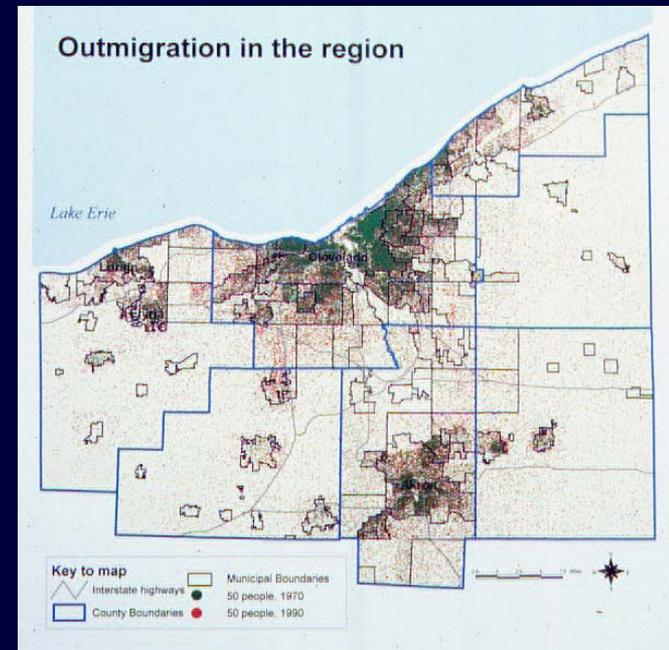


What is an Ecovillage?

The Cleveland EcoVillage is an urban ecovillage



The problem: suburban sprawl





***The solution:
Cities that are good for people and for the earth***



*Detroit-Shoreway
neighborhood chosen
for EcoVillage site*



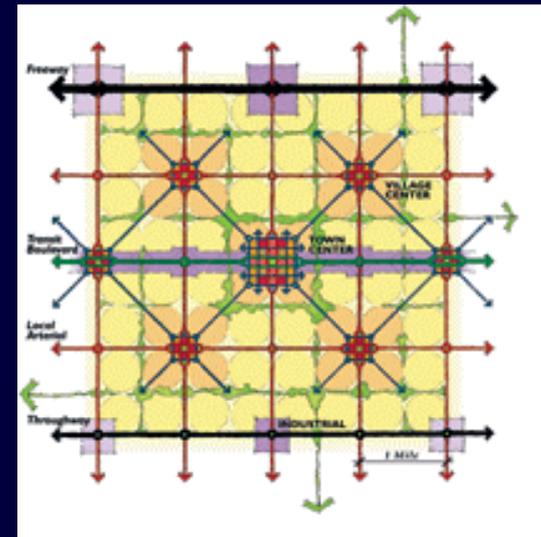
The first EcoVillage Conceptual Plan



The first EcoVillage Conceptual Plan

EcoVillage Goals: *Building and Housing*

- Transit Oriented Design
- Green Building
- Green Renovations



EcoVillage Goals:

Transportation Infrastructure

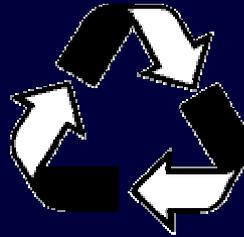
- **Bicycle, Pedestrian, and Transit Connections**



EcoVillage Goals:

Resource Management

- Restored Greenspaces
- Renewable Energy
- Stormwater



EcoVillage Goals:

Community Involvement

- Public Input
- Public Realm
- Community Gardening



EcoVillage Goals:

Economic Development

- **Completing the Village**
- **Sustainability Businesses**
- **Local Food**



Building and Housing

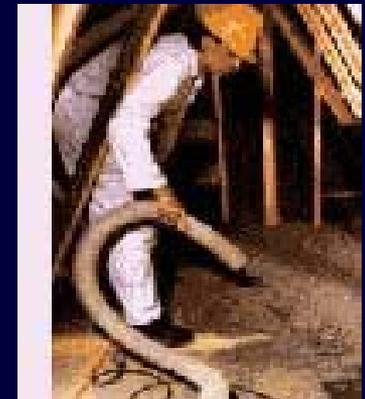
Why is Green Building Important?

- Buildings:
 - Consume one-third of energy (US)
 - Use two-thirds of all electricity (US)
 - Produce one-third of greenhouse gas emissions (US)
 - Use 40 % of raw materials (world)
 - Produce 20% of solid waste (OH)



What is Green Building?

- Appropriately use site
 - Avoid sensitive resources
 - Orient buildings to wind and sun and capture rainwater
- Be efficient
 - Energy efficient heating and cooling
 - Alternative energy sources
 - Water efficiency
 - Efficient use of building materials
 - Design for durability



What is Green Building?

- Use environmentally friendly building materials
 - Recycled
 - Recyclable
 - Renewable
 - Local
 - Environmentally friendly production process
- Enhance human health and productivity
 - Indoor air quality
 - Natural light
- Systems thinking



Building and Housing

EcoVillage Townhomes



Building and Housing

EcoVillage Townhomes



Building and Housing

EcoVillage Townhomes

- Energy / resource efficient features
 - Photovoltaic panels
 - High performance wall, window, foundation, and roof systems
 - Detailed builder specifications
 - Sealed combustion energy efficient furnace and water heater
 - Advanced framing techniques
 - Compact fluorescent lighting
 - Construction waste recycling



Building and Housing

EcoVillage Townhomes

- Healthy indoor air quality features
 - Controlled ventilation
 - Detached garages
 - Low VOC paints
- Environmentally friendly building materials
 - Recycled carpet
 - Fly ash in concrete
 - Salvaged brick pavers
 - Recycled newspaper insulation



Building and Housing

GreenBuilt Homes



Building and Housing

*EcoVation Home
Energy Retrofit Study*



Transportation Infrastructure

EcoVillage Rapid Station



Transportation Infrastructure

EcoVillage Rapid Station



Transportation Infrastructure

EcoVillage Walking Trail



Transportation Infrastructure

Bridge Design



Community and Society



Community Garden



Community and Society

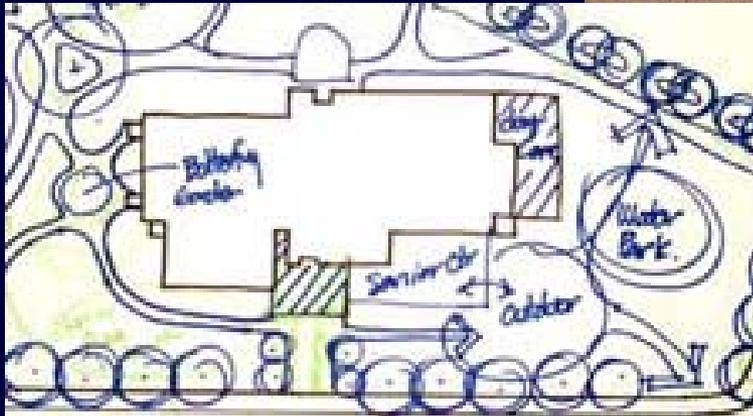


Festivals and Workshops



Resource Management

Zone Recreation Center



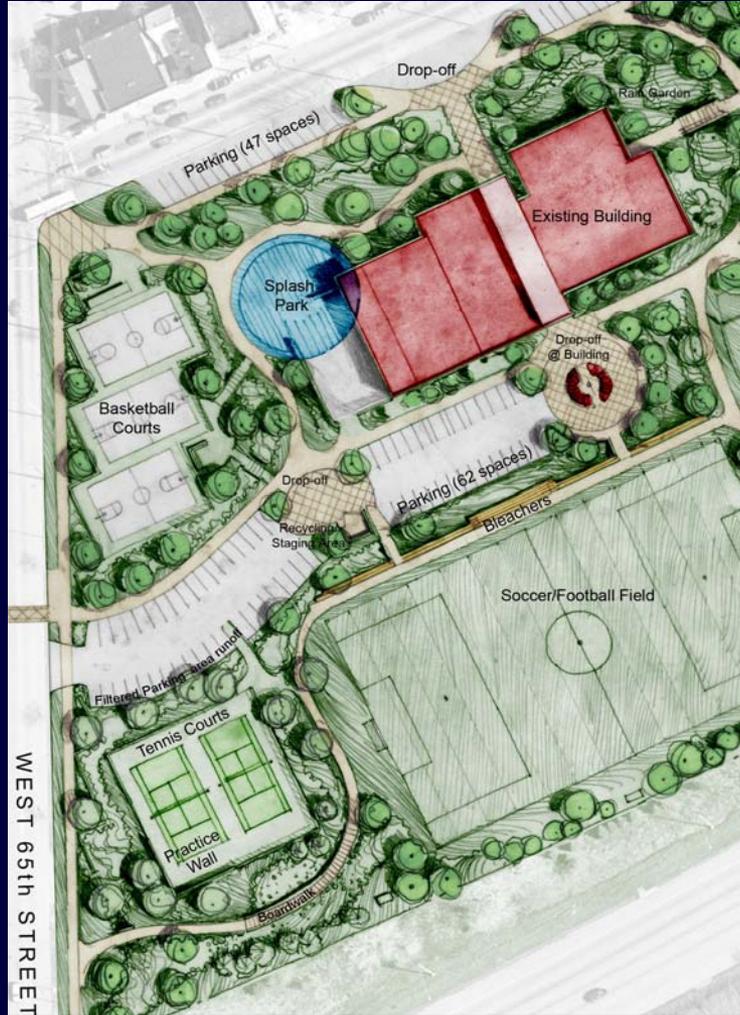
Resource Management

Zone Recreation Center

- Improve recreational amenities and integrate with ecological design
- Enhance connections to the community
- Establish areas for natural habitat restoration
- Provide educational demonstrations of sustainable principles
- Implement low impact stormwater management practices



Resource Management



Zone Recreation Center



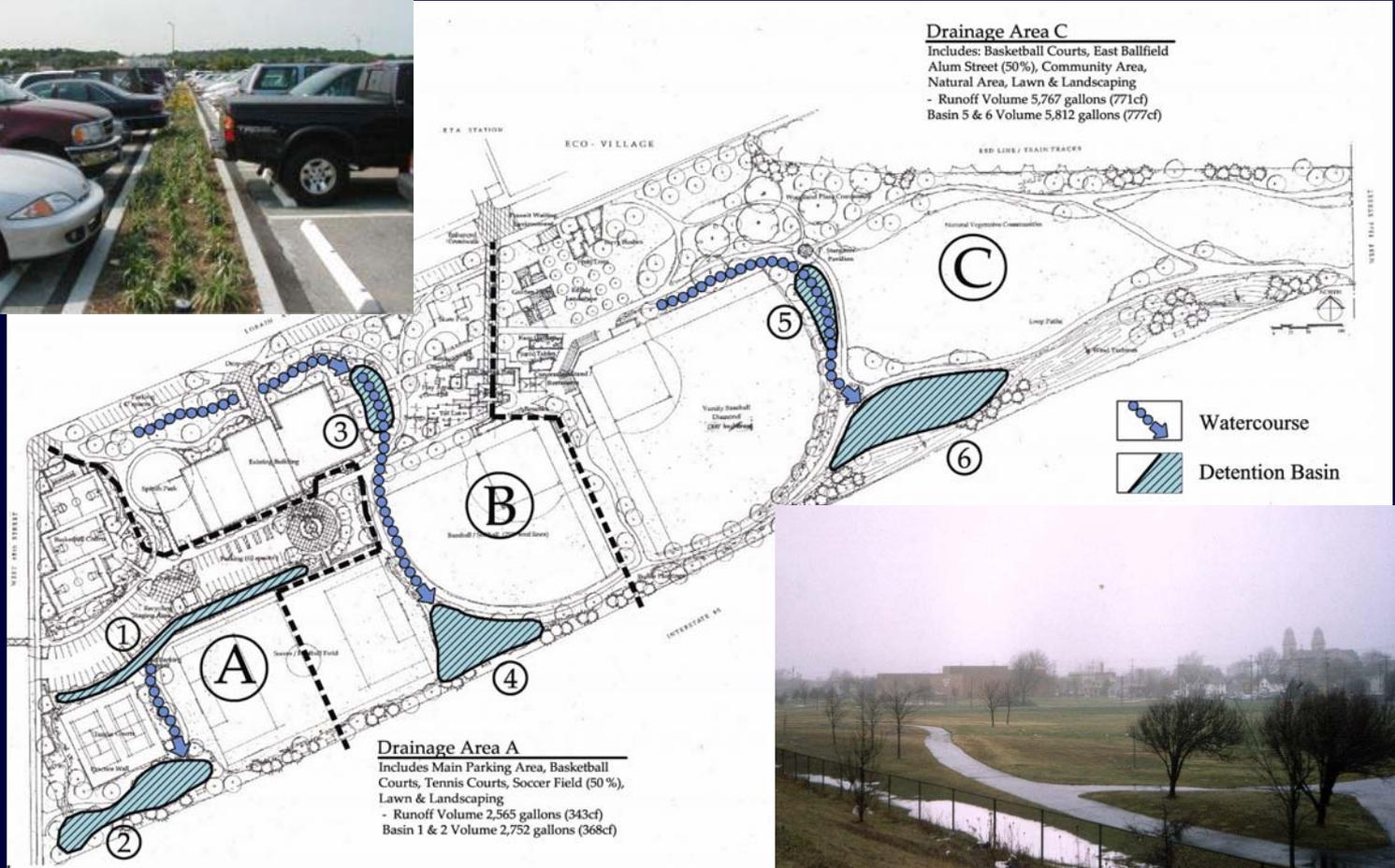
Resource Management

Zone Recreation Center



Resource Management

Zone Recreation Center



Resource Management

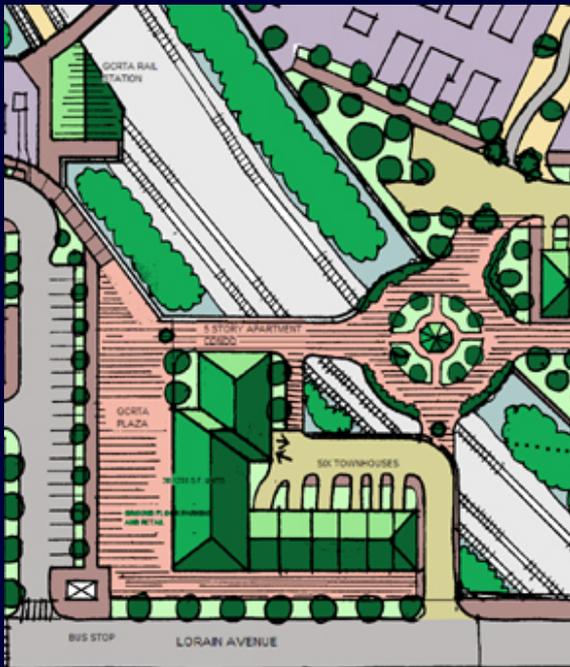
*Bridge Avenue
Greenspace*

Rapid station ravine



Future Plans

- Lorain Avenue TOD
- Affordable green housing
- Connections to Rapid Station
- Economic development strategies



The Cleveland EcoVillage:

To realize the potential of urban life in the most ecological way possible

Mandy Metcalf Mmetcalf@dscdo.org 216-961-4242 x227

