



# Chagrin River Watershed Partners, Inc.

P.O. Box 229 Willoughby, Ohio 44096-0229 Phone: 440.975.3870 www.crwpp.org

## Comparison of Traditional Subdivision Design with Conservation Development Design (2 Acre Lots)

### Case Study:

Compare the infrastructure costs of a 2 acre lot traditional subdivision to a conservation development design with at least 50% open space and the same number of lots.

### Conservation Development:

Conserves natural resources while allowing for the maximum number of residences under applicable zoning and subdivision regulations using a local conservation development regulation.



### Traditional Development

Lot Size (23 lots)	2 Acres
Impervious Area	4 Acres (8%)
Protected Open Space	0 Acres
Disturbed Area	22 Acres (44%)
Tree Clearing Area	6 Acres (12%)

#### Developer Costs Include:

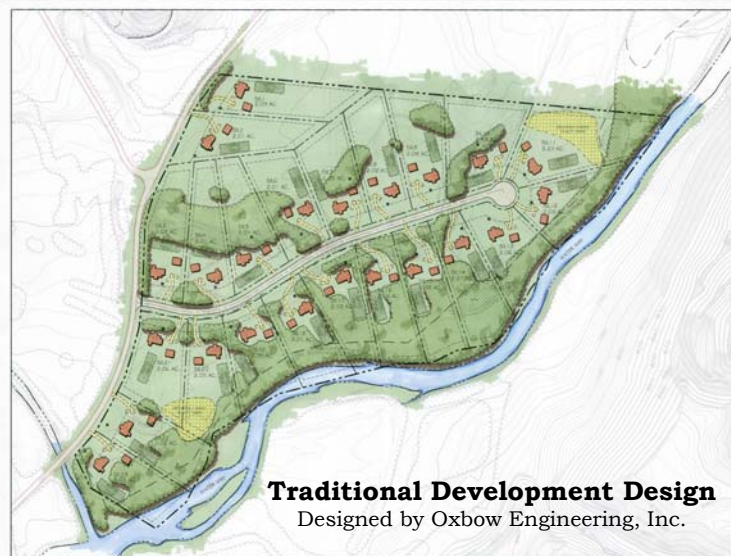
Site Work, Pavement, Storm Water Management, and Erosion Control	<b>\$274,554</b>
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#### Builder Costs Include:

Private Drinking Water and Sanitary Systems, and Erosion Control	<b>\$862,748</b>
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#### Total Cost

**\$1,137,302**



### Conservation Development

Lot Size (23 lots)	0.5 Acres
Impervious Area	3 Acres (5%)
Protected Open Space	26 Acres (50%)
Disturbed Area	10 Acres (20%)
Tree Clearing Area	2 Acres (4%)

#### Developer Costs Include:

Site Work, Pavement, Storm Water Management, and Erosion Control	<b>\$479,159</b>
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#### Builder Costs Include:

Private Drinking Water, Community Sanitary Systems, and Erosion Control	<b>\$463,447</b>
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#### Total Cost

**\$942,606**





# Conservation Development: A Low Impact Development Design Tool to Maintain Site Hydrology

## Components of a Conservation Development Code

### The Impacts of Land Use Change.....

- Increase in impervious cover.
- Loss of floodplain storage.
- Increase in flooding, erosion, and water quality problems.
- Increase in infrastructure costs.
- Increase in complaints from residents.

**More cost effective to prevent problems than to fix problems.**

### Conservation Development Allows for Subdivisions that.....

- Maintain community character.
- Minimize impacts to steep slopes, floodplains, streams, and wetlands.
- Maintain large tracts of contiguous open space.
- Reduce reliance on costly structural storm water controls.

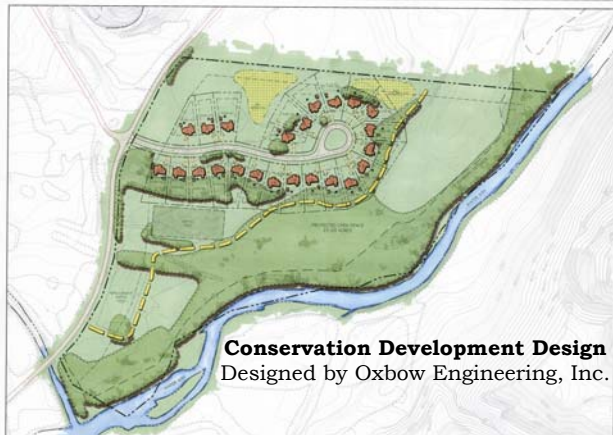


Photo by CSU Countryside Program

## The Minimal Components of an Effective Conservation Development

- Landowner **applies** to be in a Conservation Development District.
- Applies only to parcels equal to or greater than a **size determined by the community**.
- Completed in compliance with **approved Development Plan**.
- **Limits the number** of accessory structures, swimming pools & tennis courts.
- Density of dwelling units determined by **approved Yield Plan**.
- Sets **minimum** percent **open space** to at least 40%.
- Requires protection of open space with a **conservation easement**.
- **Open Space cannot include:**
  - ◇ Structural storm water and wastewater infrastructure.
  - ◇ Setbacks from the developed portion of the site.
- Sets overall site **impervious cover limit**.



**Contact Chagrin River Watershed Partners, Inc. for more information.**