

**New Urbanism:  
a Greener, Better way of Life**

***Stonefly Ridge***

Planners:  
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**Principles of New Urbanism**

- \* Walkability
- \* Connectivity
- \* Ecofriendly
- \* Quality design
- \* Mixed use & housing
- \* High density, public center
- \* High quality of life



**Special Features of Stonefly Ridge**

- \* **Historic Area** renovated and maintained by the Wellness Center Cancer Support Group
- \* Incorporation of **Habitat for Humanity**
- \* Preferred street parking for **Car Share cars**
- \* **Frontier K-8 Green School** with green roof, multiage grouping, daycare, staffed by MISEP teachers
- \* **Tax breaks** on permanent open space
- \* All construction in process to be **LEED certified** and use of **Best Management Practices**




**Best Management Practices**

- \* Low water toilet
- \* Solar paneled homes
- \* Green roof public buildings
- \* Roadside swales
- \* Rain barrels in all homes
- \* Artificial wetland wastewater treatment
- \* Pervious paving and trails
- \* Common use of space

## Town Center

- \* Garden
- \* Locally grown foods market
- \* Park
- \* Green School
- \* Community Center



## Housing

- \* Apartments
- \* Condominiums
- \* Townhouses
- \* Twins
- \* Habitat for Humanity among homes

## K-8 School

- \* Sports field
- \* Recreation center
- \* Arts center
- \* Public library
- \* Green roofs
- \* Daycare Center
- \* Multi-age grouping
- \* Highly qualified teachers
- \* Garden, streams, and woods as learning resources



## Road Design

- \* Pedestrian/hiking/bike paths
- \* Brick and gravel porous and durable
- \* Limited concrete paving
- \* Parking on one side of street
- \* Street lights solar powered



## Building Design

- \* School and public buildings with green roofs
- \* Rain barrels and solar paneling in homes
- \* Yards dominated by unmowed meadows, community, vegetable and rain gardens



## Runoff Coefficient

* Forested trail	1,958 ft <sup>3</sup> /hr
* Town walking/biking trail	5,355 ft <sup>3</sup> /hr
* Building/roofing	8,679 ft <sup>3</sup> /hr
* Road	16,538 ft <sup>3</sup> /hr
* Meadow	5,781 ft <sup>3</sup> /hr
* Yard	17,344 ft <sup>3</sup> /hr
* Garden	11,563 ft <sup>3</sup> /hr
* Sports field	5,100 ft <sup>3</sup> /hr
* Parking	46,251 ft <sup>3</sup> /hr

**Total Runoff 101,225 ft<sup>3</sup>/hr**

## Itemization costs \$\$\$

* Roads, trails, swales, construction materials	\$151,527
* Bridges	\$30,000
* BMP--storm water management (rain barrels, green roof)	\$77,000
* Wetland wastewater treatment	EPA grant
* Housing (40 row homes, 15 Habitat for Humanity, 40 twins homes, 5 apartments), Community Center, K-8 school	\$42,580,000
* Solar panels for homes	\$160,000
* Deer fencing, shared outdoor resources	\$1,975



**Total: \$43.1 million**

Thanks for listening!

