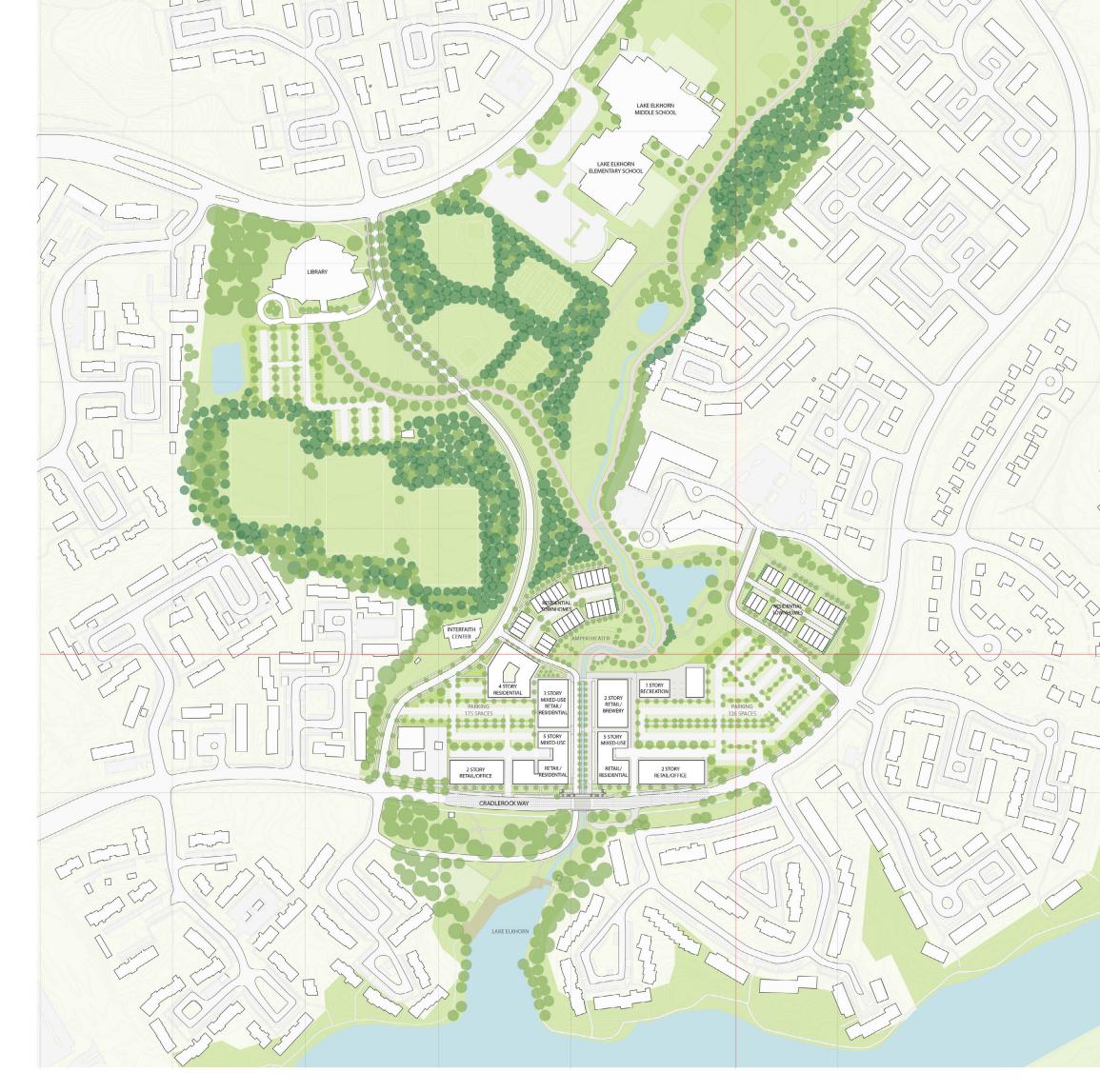
## UMD Arch 407: Owen Brown Village Center

Purpose: Students in the Master of Architecture program worked with representatives from the Howard County Department of Planning, the Columbia Association, and the Owen Brown Village board to come up with redevelopment schemes for Owen Brown Village Center. The semester began with the production of a series of base maps, which analyzed demographics, issues hydrology and the historical vision of James Rouse for the city of Columbia. Students also researched a series footages, and adjacencies for their design schemes.

## Elkhorn Promenade

This project proposes a method for bringing the nearby Lake Elkhorn, a significant recreational amenity in Columbia, into Owen Brown Village Center as a way of restructuring and organizing the central public plaza space. A set of mixed use residential/retail buildings line a newly created water-lined promenade and guide both pedestrian and auto traffic from Lake Elkhorn through to a newly designed Upper Park System that reconnects the existing library and school with a safe and lushly vegetated pathway system. The public plaza is capped by a grassy amphitheater and townhomes where public festivals and events can take place.







Building Useage in Square Feet						5.11.6		D. I
		Uses	Sqft	Units	Parking Requirements	Parking Spaces		Parking Sqft
3%		Residential	258700	240	1.25 per unit	232		62763
		Commercial	171100		3.5 per 1000 sqft	598		161689
		Recreation	15000		3.5 per 1000 sqft	52		14175
					Parking - Townhouses		110	
					Total	883		238628
39%								
	58%							

■ Residential ■ Commercial ■ Recreation

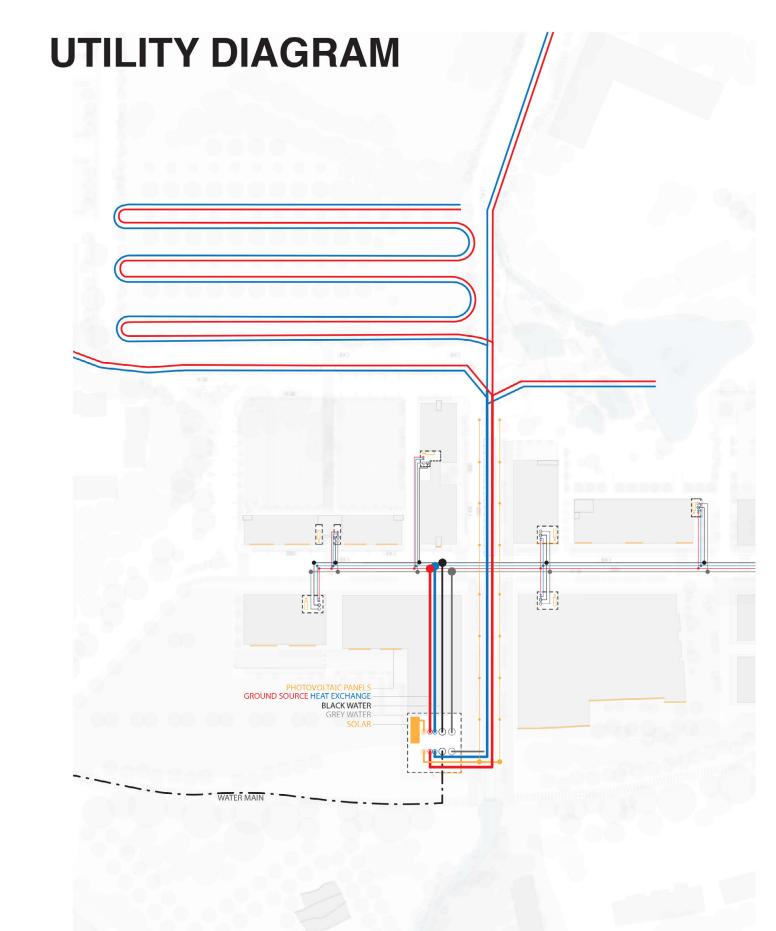
Residential Town Homes

## Generator: Re-charging Owen Brown

The Generator project suggests that Owen Brown Village Center can be a model for other village centers by rethinking sustainable development and celebrating energy, hydrological, technological, and vegetative infrastructure as something that can provide a unique character to public space. Stormwater processing in the form of a more forma canal and less formal bioswales and wetland retention ponds create new recreational opportunities and enliven the major retail streets. Fruit and nut producing trees offer shade and act a survey pegs for new development and visual markers of underground ground sourced heat exchange systems. Wireless networking enables the decorative display of real time data on energy and water use in coffee shops, the community centers and public lobbies spaces of mixeduse buildings.







## Village Park

The Village Park reintroduces a green heart as the public center of Owen Brown Village and at the same time organizes pedestrian and automobile circulation. Mixed-use residential and retail buildings and a continuous loop with on-street parking line and give form to the Village Park. Traffic calming measures are implemented at the existing Cradlerock way in order to allow the Village Park to provide safe crossing for pedestrians between Owen Brown and Lake Elkhorn. The existing Giant Supermarket is retained and used as an anchor to provide a better connection between the library, school, and residential apartment buildings to the North of the site and Lake Elkhorn to the South. Surface parking lots are also treated as parks and are designed to maximize tree canopy, provide permeable ground surfaces, and link the existing hydrological system to a series of planted bioswale filters.

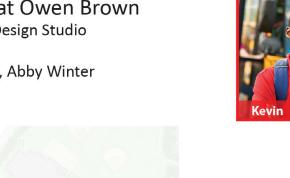


PUBLIC SPACES: The Gardens, Village, and Fields

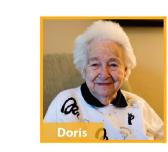
One of our main guiding ideas was to create a central large green space within the Village Center. Ultimately, we designed three open spaces, each with a different park feel and experience. There are also a few smaller public spaces shown in light green. The Village, the main public space to this scheme, acts as the green space between the two retail areas,

which then continues over Cradlerock to Lake Elkhorn. The Gardens, the secondary public space to the scheme, is a parking lot for the Giant but is heavily vegetated and can act as a

Arch 407 Urban and Architectural Design Studio Aren Knudsen, Christiane Machado, Abby Winter



**lical Day:** After he goes to school at Lake Elkhorn Middle school, Kevin likes to walk to the Village Park at Owen Brown to play basketball at The Courts with his friends. After he shoots some hoops he usually goes to the cafe next to the giant where he refuels with a sandwich while he works on his nath homework before heading home.



**Typical Day:** Doris starts her day by sitting on her balcony at the Owen Brown Place Apartments while she has a cup coffee and down to the restaurant on Dockside lane where she gets her favorite lunch, the turkey club sandwich. Later in the afternoon she meets her friends at the community center where she participates in neighborhood meetings.

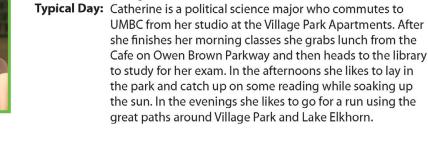


**Occupation:** Part-time real estate agent, full-time soccer mom rpical Day: Lisa starts her afternoons by picking up her son Timoth fields at Owen Brown for practice. While he kicks the ball around, Lisa gets her nails done on Dockside Lane before reading over to the Giant to grab fresh vegetables for dinner. When Timothy is finished with soccer practice he goes to the playground at the Community Center while he waits for his mom to finish her shopping.



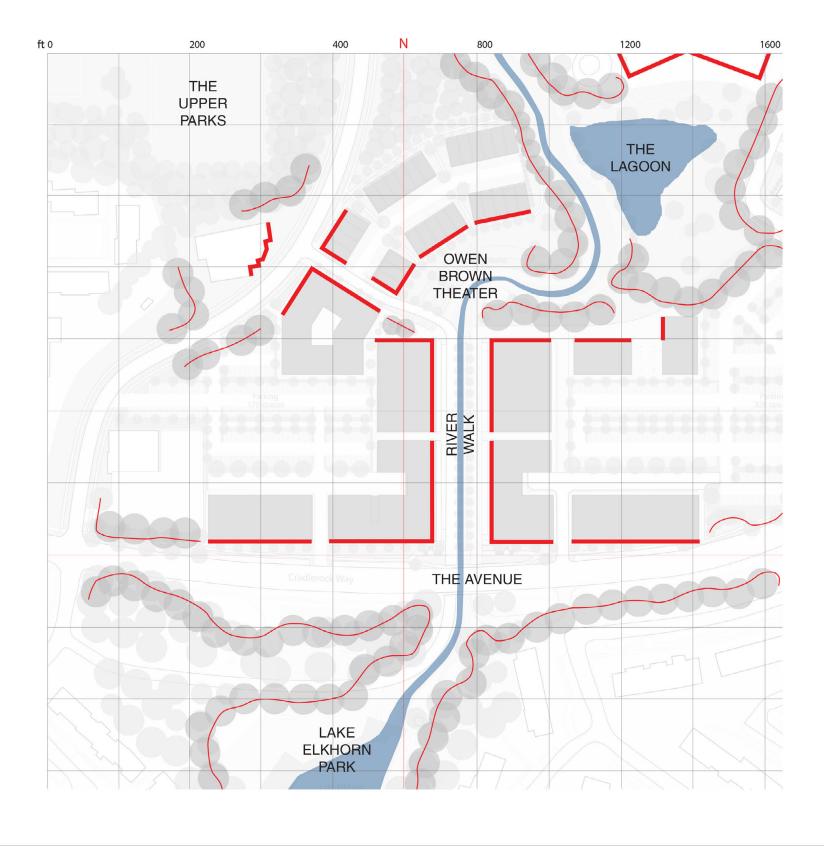
**Typical Day:** On his way home from work, Michael stops by the Village Park at Owen brown to play racket ball at the Recreation Center. Afterwards he grabs a drink with his friends at the estaurant on Dockside Lane. On the weekends Michael takes his family to the Interfaith Center before they take a walk through the park and catch up in the pavilion. On nice days he likes to take his son out on the boat at Lake Elkhorn where they talk about life and do some fishing.







**EDGES:** Building and tree lines that define



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