

OHIO FARM VILLAGE PLAN

City of Columbus · Franklin Township · Jackson Township :: Franklin County, Ohio



Ricardo Pomales



GROW LOCAL. SHOP LOCAL. OHIO FARM VILLAGE.

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Table of Contents

Section 1:: Introduction.....	I
Introduction of the location of the site in the Southwest area.....	2
The Ohio Farm Village concept and proposal.....	2
Map data display of shopping areas.....	3
Food Environment Statistics For Franklin County.....	4
Section 2:: Recommendation.....	V
Ohio Farm Village Precedent.....	6
The Goals of the Organization.....	6
Eco-Domes History and Structural Plan.....	7
Eco-Dome Village.....	7
Statistical Reasoning for Improvement.....	8
Developments.....	9
Site Pro-Forma.....	9
Plan Summary.....	10

OHIO FARM VILLAGE

City of Columbus · Franklin Township · Jackson Township :: Franklin County, Ohio

SECTION 1::

Introduction



Section Points

- Introduction of the location of the site in the Southwest area
- The Ohio Farm Village concept and proposal
- Map data display of shopping areas
- Food Environment Statistics For Franklin County

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SECTION 1::

Introduction

Planning Area

The planning area is located in Franklin Township with a few neighboring city districts on its borders. In regards to its geographical location it is on the axis of Frank Road and Gantz Street. This southwest area is on the outskirts of the downtown Columbus area and within the 270 belt of Ohio. Its past use for the area was the Franklin County Children's Services orphanage site. On the land there was a mix-use of facilities (e.g. building, recreational sport areas, parking lots, etc.). In total the site has approximately 74 acres of land that is available for redevelopment to enhance the surrounding areas.



Ohio Farm Village Concept and Proposal

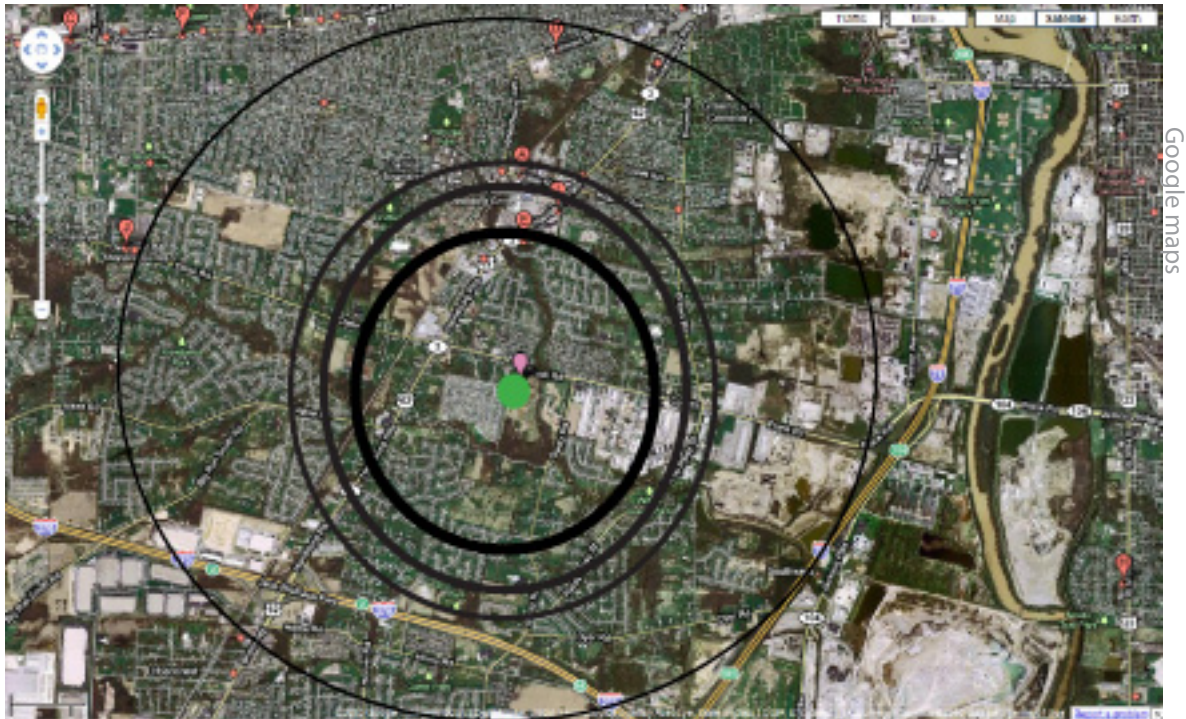
The concept for the southwest area site is to create an all-year-round Urban Village Farmers Market, to reduce the amount of importing, and to lease land acreage to future farmers or current farmers.

The proposal entails using 40 of available seventy-four acres to be used as an Urban Village Farmers Market, where citizens who care about where their food is grown can experience a taste of local organic foods. The per-monthly fees will cover the total cost of the shelters. As for the remaining revenue, it can be divided for different costs that will be put forth to lower the remainder of the expenses. Furthermore, many local organizations can join the village to help, lower cost, and promote the organic green concept, (e.g. OSU agriculture department, gogreen.org, etc.).

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Mapping of Shopping Areas



The map illustrates distance rings of Supermarkets nearest to the Southwest area site. By taking the site location and searching for all possible supermarkets in the area Google was able to depict that the range of any relatively close supermarket is minimum 1.0 miles from the Children's Services site. This data map was design to capture the need for a food market that is in walk able distance from the surrounding neighborhoods.

Shopping Markets in the radius:

- | | |
|---------------------------------------|---------------------------------------|
| 1. Schuman's Meats.....1.1 miles | 2. Seayama Grocery Store.....1.0 mile |
| 3. Roe's Quik Food Shop.....1.2 miles | 4. SuperAmerica.....1.2 mile |
| 5. Kroger Bakery.....1.3 mile | 6. C Town Food Mart.....1.6 miles |
| 7. Mid-Way Market.....1.1 miles | 8. Eakin Road Market.....1.0 mile |

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Food Enviroment Statistics for Franklin County

The food statistical data indicates the number of food shopping centers in the Franklin County. However, the statistical data is not from Franklin Township, the designated site of Children's Services area, because Franklin Township is to small and the number of stores to the area would be off sync and this area is more likely to be shopped by the Franklin Township area.

Number of grocery stores: 251

This county:  2.25 / 10,000 pop.

Ohio:  1.89 / 10,000 pop.

Number of supercenters and club stores: 11

Franklin County:  0.10 / 10,000 pop.

State:  0.13 / 10,000 pop.

Number of convenience stores (no gas): 146

Franklin County:  1.31 / 10,000 pop.

Ohio:  1.25 / 10,000 pop.

Number of convenience stores (with gas): 285

This county:  2.55 / 10,000 pop.

Ohio:  2.93 / 10,000 pop.

http://www.city-data.com/county/Franklin_County-OH.html#ixzz13ZoC17L5

The statistics it allows you to comprehend that per 10,000 pop. to any of the numbers that are listed to the chart are obviously out of proportion. Furthermore, the chart also demonstrates that the available convenience stores in the area are very small and that the percentage of convenience stores at close distance with a vehicle makes statistical data rise. However, having a vehicle should not be the standard of accessibility.

OHIO FARM VILLAGE

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SECTION 2::

Plan Recommendations



Section Points

- Ohio Farm Village Precedent
- The Goals of the Organization
- Eco-Domes History and Structural Plan
- Eco-Dome Village
- Statistical Reasoning for Improvement
- Developments
- Site Pro-Forma
- Plan Summary

OHIO FARM VILLAGE

City of Columbus · Franklin Township · Jackson Township :: Franklin County, Ohio

SECTION 2::

Recommendation

Ohio Farm Village Precedent

This proposed concept has not been the first of its kind in its basics however; having the largest local grown market is the first of the nation. By creating this mix-use of environment it can allow for communities and families to have fun, be able to communicate with one another, and to learn the process of farming. The concept is a partial blend of a Farmers Market and Aso Farm Village. Reason why its a blend is because a Farmers Market does not grow its own food on the property and the Aso Farm Village (Japan) is not a working farm but they use the dome village idea.



Current Farm on Southwest area



Aso Farm Village

<http://www.flickr.com/photos/erikasnyder/306482258/>

The Goals for the Organization

1. To allow growers and producers of Ohio alternative marketing opportunities to make an additional revenue.
2. To promote the sale of Ohio-grown organic produce products.
3. To enhance the variety, freshness, and organic value of produce available in the Franklin area.
4. To create an atmosphere where consumers and farmers can deal directly with one another, and understand each other community business.
5. To produce a local educational environment where consumers can learn the benefits of organic growth and the enhance qualities of the taste.
6. To harvest a location where producers can test their and refine their products and communication skills.
7. To enhance the quality of life in Franklin and Ohio.
8. To maintain Ohio's agricultural heritage in the eye of the public.

OHIO FARM VILLAGE

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Eco-Domes History and Structural Plan

In the 1990's, an architect Nader Khalili created a first prototype of an Eco-Dome in California. The original concept was to create habitats for lunar exploration. However, due to the structural stability of the dome Khalili utilize the concept in Iran because it can handle the harsh environment. Due to their design it creates a perfect atmosphere for containment of heat and cool weather; additionally it produces a maximum amount of sunlight.

The structural integrity is composed of long or short sandbags that are filled with on-site earth and arranged in layers or long coils with strands of barbed wire placed between them to act as both mortar and reinforcement. Stabilizers such as cement, lime, or asphalt emulsion may be added. Since the dome is a superadobe it contains many timeless features, e.g. vaults, domes, arches, and apses, that strengthen the structure and adds a great cultural attraction. Fortunately, this feature also adds great reinforcement making them resistant to earthquakes as well as fire, flood, and hurricanes.



"Superadobe is an adobe that is stretched from history into the new century. It is like an umbilical cord connecting the traditional with the future adobe world." –Nader Khalili



Eco-Dome Village

The Eco-Dome village will consist of recycled materials from the current children's services site. Each Eco-Dome will be approximately 2,000 square feet in useable interior space. The arrangement of the Eco-Domes will be in a circular village format that will enable pedestrians to travel from dome to dome as part of their exploration of the site. Around the village the consumers may see and tour the farming district that provides the organic produce. In having a combination of abode style small businesses and farming you can understand the rich history of Ohio's agricultural tradition.



OHIO FARM VILLAGE

City of Columbus · Franklin Township · Jackson Township :: Franklin County, Ohio

Statistical Reasoning for Improvements

The statistical data chart on the (right hand side) indicates the level of rate that Ohio and Central Ohio (Franklin County) is reaching on the obesity chart in adults and children. In recent trends Ohio as a whole has fallen off the wagon on eating nutritious meals. The cause of this is the lack of accessability to organic and farmers markets in the area. As a Midwest state we should not be lacking in organic grown food and the state should be entitled to receiving what the land has to offer them.

Below:

Columbus Examiner Article on Obesity

Adult diabetes rate:

Here: 9.5%
Ohio: 10.3%

Adult obesity rate:

Here: 30.2%
Ohio: 29.1%

Low-income preschool obesity rate:

Franklin County: 13.3%
State: 11.9%

http://www.city-data.com/country/Franklin_County-OH.html#ixzz13ZoC17L5

Obesity in Ohio hits 50% mark by 2018

by Andrew Kennett

A new study, conducted by Kenneth E. Thorpe of Emory University and released on Tuesday, November 17, points to a disturbing result for the long-term health of many Ohioans. More than half of the adults in Ohio are projected to be in the obese category by the end of 2018, a sharp increase from the 34% obesity rate among Ohio adults that we currently see. With Columbus already listed as the 18th fattest city in America, this epidemic can only make matters worse in our city.

Not only will this growing epidemic lead to bigger bellies, it will lead to an increase in health concerns and higher health care costs. While smoking is still the leading cause of preventable deaths, the fact of the matter is that smoking is on the decline. The sharp increase in obesity rates that this new study projects means that there will be a corresponding increase in diabetes, heart disease, cancers, and sleep apnea -- all conditions related to, or made worse by, obesity. These conditions will lead to an increase in early, preventable deaths and a sharp decline in the quality of life for many more people. Additionally, the average health care costs for an obese adult is roughly 50% higher than that for one of normal-weight, \$8315 per year versus \$5855.

Is there anything to be done to avoid this situation? Yes. Take steps to support the health of your family, your community, your state, and your country. The obesity epidemic is going to affect us all as a nation, so we must all, as a nation, come together to combat it.

<http://www.examiner.com/extreme-weight-loss-in-columbus/obesity-ohio-hits-50-mark-by-2018>

OHIO FARM VILLAGE

City of Columbus · Franklin Township · Jackson Township :: Franklin County, Ohio

Developments

1. Farm Acreage (1-4 acre lots)
 - a. 40 acres out of the 74 acres will be divided into plots the rest will be untouched and conserved forested area..
2. Irrigation Distribution
 - a. After each land plot gets divided into acres, the distribution of water lines will be implemented. However, the water bills will be paid by the customer.
3. Eco-domes
 - a. Eco-Domes value for a 2,000 sq. ft. can be built for a cost of \$3,000.
4. 10 Workers
 - a. Maintainment of the bathroom and Ohio Farm Village.
5. Tilling the Ground
 - a. The ground will be tilled the first time of use free of charge to the customer
6. Minor Landscaping
 - a. Some minor details to the space will be enhanced but only the necessary adjustments will be dealt with at hand.

Site Pro-Forma

Area	40 acres	1, 524, 600 sq. ft.		
Subject	Cost ea.	# of how many	Total Cost	
Eco-Dome	\$ 3,000.00	20 lots	\$ 60,000.00	
Tilling Ground for pre.	\$40/ per hr	per acre	\$2,800/per 35 acres	
Public Bathroom	\$ 65,391.00	2 Multi-User Restroom	\$130,782	
2061 Sierra III Multi-User Restroom - Value/Concrete 24'0" x 14'8" \$ 65,391.00				
Public City worker (constant)	\$7.35/per hr	10/workers	\$1740/ per month	(\$20,880/per yr)
Landscape	small detail work	35 acres	\$50,000	
Irrigation Set-up	\$2,858/estimate	35 acres	\$100,000/estimate	
			\$364,462/1st yr	
Subject	Cost ea.	# of how many	Total Cost	Revenue
per acre Plots	\$100/per month	35 acres	\$42,000/per yr	
Market fee	\$10/per month	1/ ea. Customer	\$120/max per month	(\$4,200/per yr)
Market Rental Eco-Dome fee	\$50	5/only for outside farmers	\$250/max per month	(\$3,000/per yr)
Market Ads	\$100/per month	1/ea. Customer	\$1,200/per yr	
			\$50,400/per yr	7.6 yrs repayment

OHIO FARM VILLAGE

City of Columbus · Franklin Township · Jackson Township :: Franklin County, Ohio

Plan Summary

Ohio Farm Village offers all the amenities of a farmers market plus a community with a neighborhood that draws more than just the one mile radius population. If you enjoy farmers markets for its great beauty on earthly products then imagine yourself surrounding with the soil and odor of Earth's heavenly scent and beauty. There are 10 major reasons to redevelop this area into the Ohio Farm Village:

1. Taste: Fruits and vegetables purchased in season always taste better than canned and frozen food at the grocery store.
2. Nutrition: Canned food tends to be completely overheated in the process of production and eliminates the minerals within.
3. Health: Obesity is rising in the U.S. and Ohio is one of the top.
4. Local economy: Support local business.
5. The experience: Walking in a store can never compare to walking down a farm and picking your own fruit and vegetables.
6. Personal finance: The cost of food is much lower because of unnecessary transportation.
7. The environment: Organic food reflects well upon the Earth and your body.
8. Connection with the Earth: Becoming involved with the food process and understanding how the Earth gives back.
9. Seasonal eating: Eating food in season just taste better. Also, we can reduce the amount of importing.
10. Knowledge Learning and education yourself on how to live a healthy lifestyle.

