THE URBAN LAND INSTITUTE

GERALD D. HINES STUDENT URBAN DESIGN COMPETITION

About the Competition

The 2009 ULI Gerald D. Hines Student Urban Design Competition is a graduate-level annual competition that is intended to provide an interdisciplinary learning experience for real estate and design students in the United States and Canada. Self-formed student teams are asked to provide an urban design and a financial feasibility strategy for a large-scale real life site that ULI has identified somewhere in the United States. Through the formation of multidisciplinary teams, the program encourages cooperation and teamwork among future real estate professionals and the many allied professions, such as architecture, landscape architecture, urban planning, historic preservation, engineering, real estate development, finance, psychology, law, and others.

Participating Schools: University of Miami School of Architecture and School of Business

Programs: Master of Real Estate Development & Urbanism, Master of Architecture in Suburb & Town Design, Master of Architecture,

and the Master of Business Administration

Team 5010: Warren Bane, Benyameen Ghareeb, Jeffrey Hall, Victor Santana, and Jared Sedam

Faculty Advisors: Dr. Charles C. Bohl, Jaime Correa, and Stephen Nostrand





ALAMEDA - A NEW SUSTAINABLE URBANISM

Site is surrounded by major transportation corridors

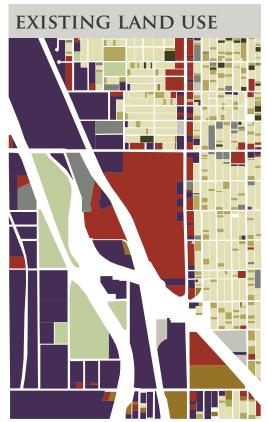
- Broadway connects directly with downtown Denver
- Alameda Avenue connecting to major urban parks and natural landscapes
- Alameda Station Light Rail connects Alameda Gardens to downtown Denver and its surrounding communities via one of the most extensive transit systems in the country
- I-25 links site to Northern and Southern Colorado

Self sustaining lifestyle is paramount in design

- Fourteen acres of public and semi private gardens
- On site water collection, filtration, retention and reuse
- Walkable neighborhood with daily necessities located within a quarter mile radius minimizes need to run errands by car

Providing for the needs of surrounding neighborhoods

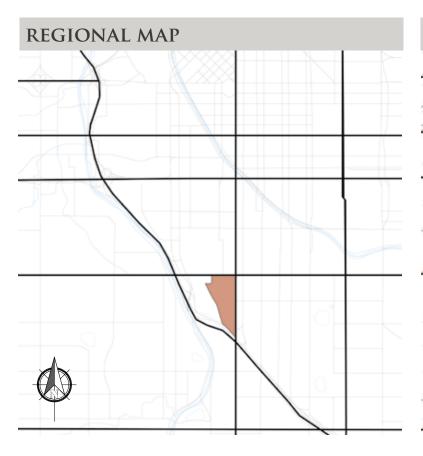
- Incorporating current Broadway Market Place retailers into walkable medium density urban environment
- Alameda Farmers Market sells produce grown on site
- Incorporating entertainment, health and educational centers

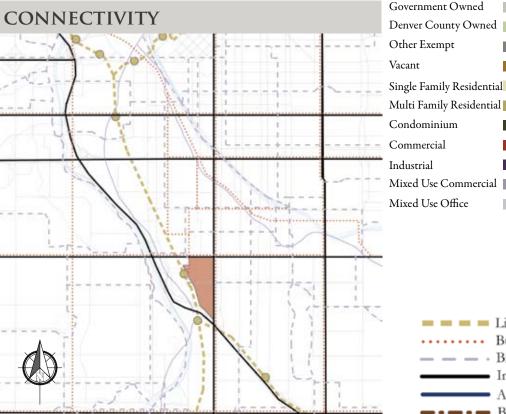


Existing Land Use 95% of site currently designated as retail 5% designated as light industrial

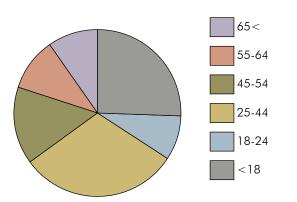


Regional Map An estimated million people will move to Denver in the next 20 years, underscoring the importance for sustainable housing

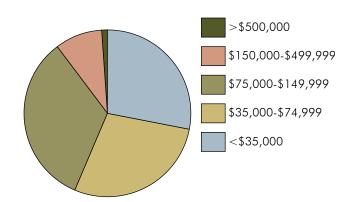




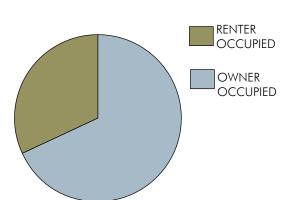
DEMOGRAPHICS



Denver Metro Age Distribution



Denver Metro Age Income

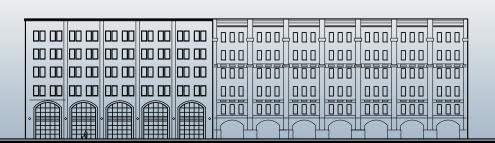


Light Rail
Bus Route
Bike Path
Interstate
A Road
B Road

Denver Metro Occupancy



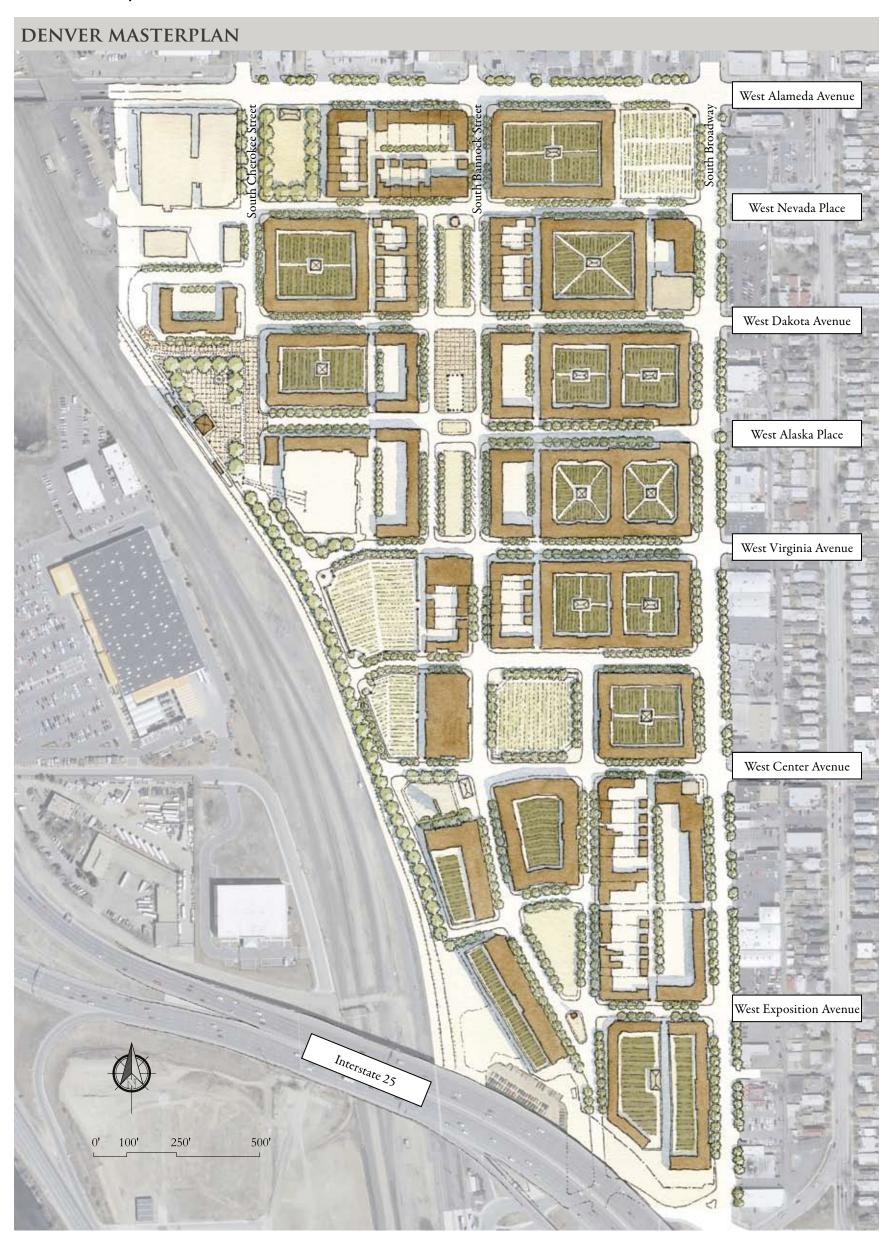
SOUTH CHEROKEE STREET







- Building on Existing & Historic Grid
- Balance of Public & Private Realms
- Sustainable Density









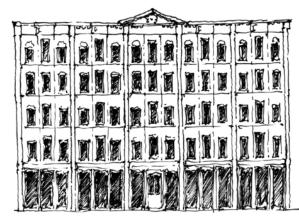
URBAN DESIGN ELEMENTS

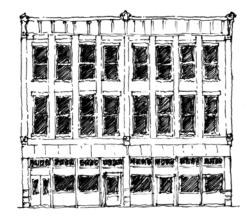


- Flexible Design
- Contextual Design Strategies

STUDY OF HISTORICAL PRECEDENTS IN DENVER









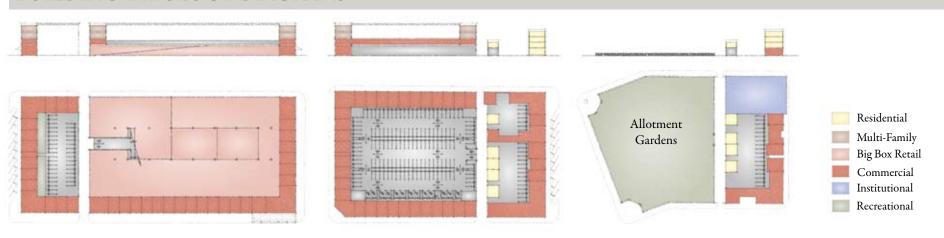
Live/Work Unit

Mixed Use Building

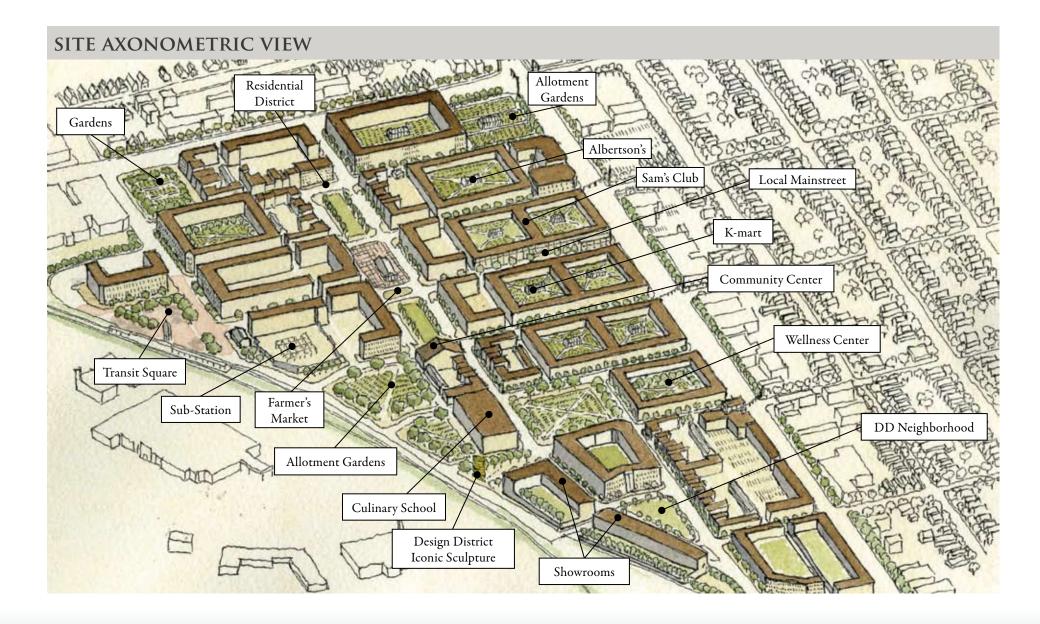
Mixed Use Building

Warehouse Building

BUILDING TYPOLOGY DIAGRAMS



Big Box Type Mixed-Use Mid-Rise Townhouse Live/Work Unit



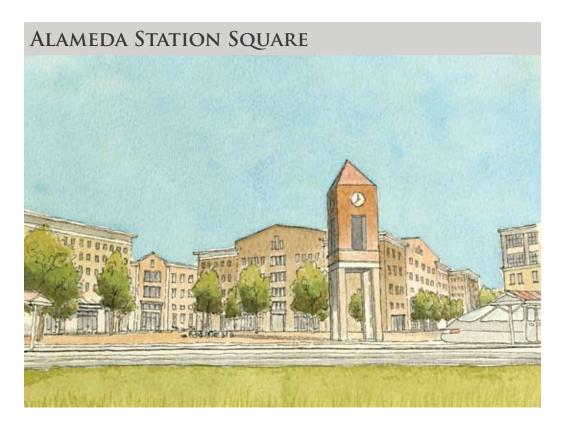
SOUTH Broadway

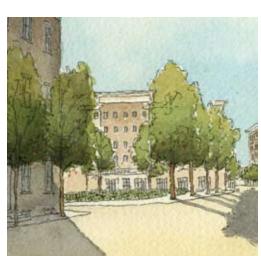
PUBLIC SPACE & PHASING

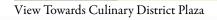
- Sense of Place
- Flexible Spaces (Agriculture, Street Fairs, Farmer's Market, Outdoor Living)













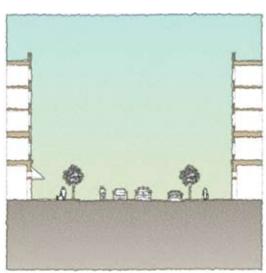
Culinary District Plaza





DEVELOPMENT SITE

- Mainstreet Element
- Connectivity
- Daily Needs on Site



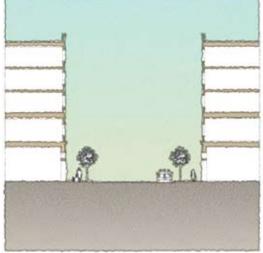
Typical "A" Street Section



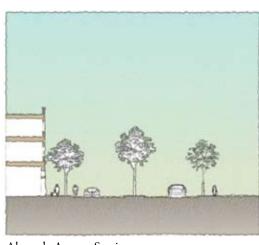




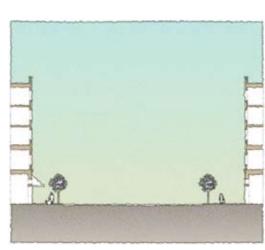
View Along the Local Main Street (Alaska Avenue)



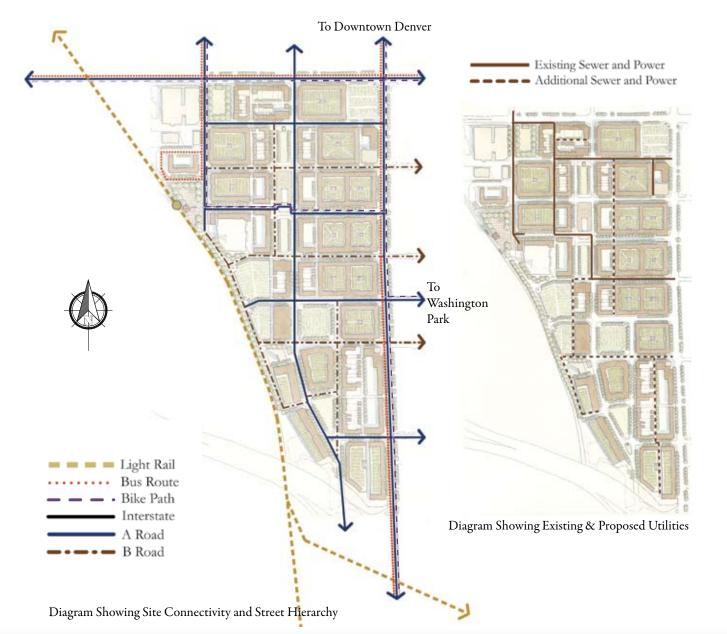
Typical "B" Street Section



Alameda Avenue Section



Broadway Street Section





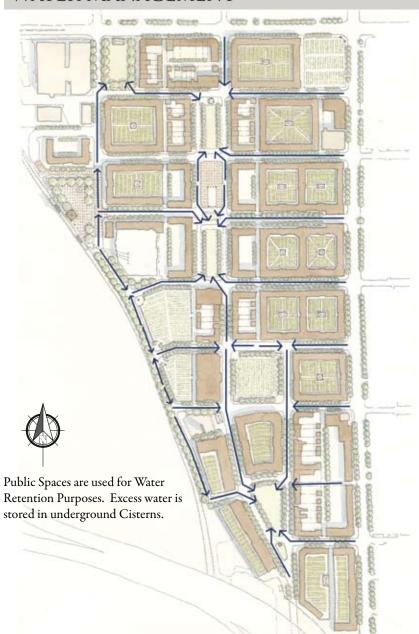


SUSTAINABILITY

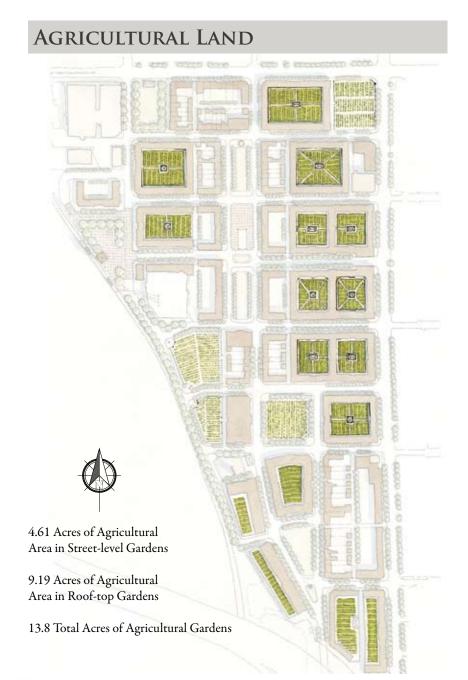


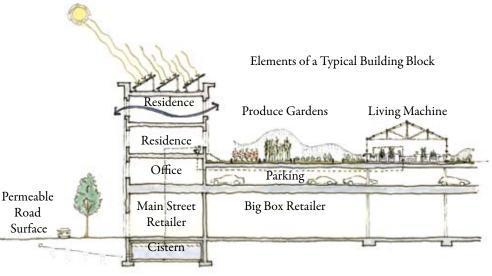
- Strive for Self-Sufficiency
- Sustainable Densities
- Minimize Carbon Footprint

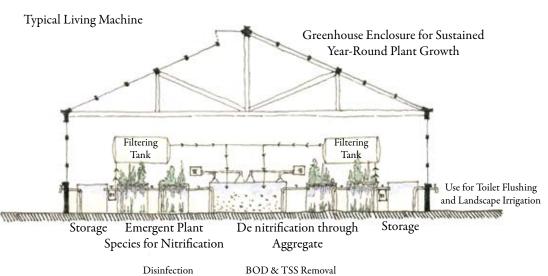
WATER MANAGEMENT

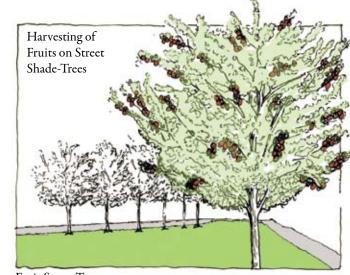


- Food Production & Recycling (Composting)
- Energy Production (Photovoltaic Panels)
- Minimize Energy Usage (Natural Light & Cross Ventilation)
- Water Harvesting & Recycling









Fruit Street Trees











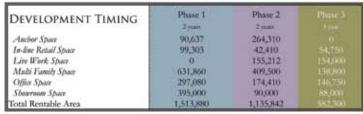


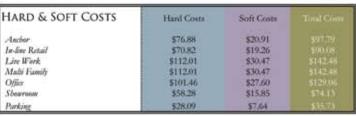


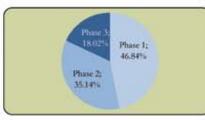
ALAMEDA AVENUE

FINANCIAL

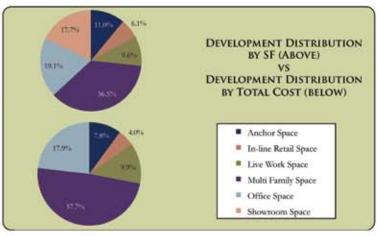
TABLES & CHARTS



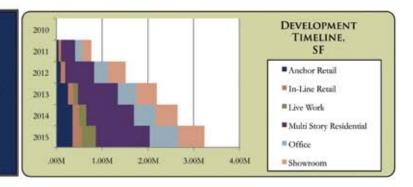






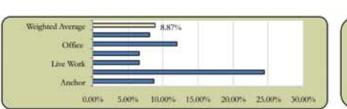


CONSTRUCTION COSTS	PHAS	SE 1	PHA	PHASE 3	
CONSTRUCTION COSTS	2011	2012	2013	2014	2015
Anchor Space	\$4,431,758	\$4,431,758	\$15,508,341	\$10,338,894	30
In-line Retail Space	\$4,472,758	\$4,472,758	\$2,292,253	\$1,528,169	\$4,932,046
Lire Work Space	50	50	\$13,268,458	\$8,845,639	\$21,941,415
Multi Family Space	\$45,012,670	\$45,012,670	\$35,006,530	523,337,687	319,775,769
Office Space	\$19,170,145	\$19,170,145	\$13,505,311	\$9,003,541	\$18,939,132
Showroom Space	\$14,641,102	514,641,102	\$4,003,137	52,668,758	\$6,523,630
Parking Space	\$9,386,201	\$14,006,348	\$14,006,348	\$3,573,048	50.
Green Initiatives	\$3,347,500	\$3,320,617	\$2,480,490	52,419,844	\$4,683,467
Infastructure & Landscape	5298,040	\$306,981	\$317,174	\$325,677	\$449,349
Total Development Costs	\$100,760,173	\$105,362,379	\$100,388,043	\$62,041,255	\$77,244,809



PRO FORMA	2009	2010	2011	2012	2013	2014	2015		2017		2019	2020
Potential Gross Income	\$0	\$4,086,000	\$14,727,199	\$25,741,708	\$35,423,874	\$44,118,559	\$56,017,589	\$57,978,204	\$60,007,442	\$62,107,702	\$55,943,051	\$57,901,058
Vacancy & Collection Loss	\$0	\$0	\$2,592,970	\$4,567,842	\$5,263,809	\$5,086,291	\$4,995,161	\$4,300,319	\$4,450,830	\$4,606,609	\$4,350,920	\$4,503,200
Effective Gross Income	\$0	\$4,086,000	\$12,134,229	\$21,173,866	\$30,160,065	\$39,032,268	\$51,022,427	\$53,677,885	\$55,556,611	\$57,501,093	\$51,592,132	\$53,397,85
Operating Expenses	\$0	\$1,789,355	\$5,077,662	\$7,710,098	\$10,297,519	\$12,900,903	\$16,051,254	\$16,554,913	\$17,074,456	517,610,386	\$15,481,624	\$16,191,34
Net Operating Income	\$0	\$2,296,645	\$7,056,567	\$13,463,768	\$19,862,546	\$26,131,365	\$34,971,174	\$37,122,973	\$38,482,156	\$39,890,707	\$36,110,508	\$37,206,51
Annual Debt Service	\$0	\$0	\$0	\$0	\$0	\$0	50	\$29,837,809	\$29,837,809	\$29,837,809	\$29,837,809	\$29,837,80
Operating Cash Flow	\$0	\$2,296,645	\$7,056,567	\$13,463,768	\$19,862,546	\$26,131,365	534,971,174	\$7,285,163	\$8,644,346	\$10,052,897	\$6,272,699	\$7,368,70
Reversion Cash Flow	\$0	\$0	\$0	\$0	\$0	\$0	50			\$65,234,811		\$114,533,97
Annual Cash Flow	\$0	\$2,296,645	\$7,056,567	\$13,463,768	\$19,862,546	\$26,131,365	\$34,971,174	\$7,285,163	\$8,644,346	\$78,171,589	\$6,272,699	\$127,869,22

YIELD TO COST	Gross Rent	Expenses	NOI	Cost / Unit	Yield to Goo
Anchor In-line Retail Lire Work	\$16.50	\$8.00	\$8.50	\$97.79	
In-line Retail	\$30.00	\$8.00	\$22.00	\$90.08	
Live Work	\$14,00	\$4.62	\$9.38	\$142.48	
Multi Family	\$14.00	\$4.62	\$9.38	\$142.48	
Multi Family Office	\$24.00	\$8.50	\$15.50	\$129.06	
Shearoom	\$10.00	\$4.00	\$6.00	\$74.13	
Weighted Average	\$16.45	\$5.83	\$10.62	\$119,70	

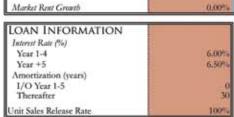




FINANCING	2009	2010	2011	2012	2013	2014	2015	2016	2017		2019	2020
Global Capped Value	50	\$88,207,093	\$168,297,007	\$248,281,822	\$326,642,060	\$437,139,669	\$464,037,159	\$481,036,940	\$498,633,835	\$451,381,349	\$465,081,455	5484,873,842
Land Value	50	\$140,000,000	\$144,200,000	\$148,526,000	\$152,981,780	\$157,571,233	\$162,298,370	\$167,467,032	\$172,182,341	\$177,347,811	\$182,668,246	\$188,148,293
Total Estimated Value	\$0	\$228,207,093	\$312,497,097	\$396,807,822	\$479,623,840	\$594,710,902	\$626,335,529	3648,194,270	\$670,816,176	\$628,729,160	\$647,749,701	\$673,022,136
Loan to Value	0,00%	4.11%	26.16%	41.27%	41.27%	50.28%	58.69%	59.99	57.25	60.26%	57.64%	54.60%

ASSUMPTIONS

VACANCY FACTOR & RENT GROWTH	2010	2011	2012	2013	2014	2015	+2016
Anchor	7.50%	25.00%	19.50%	15.00%	11.50%		7.5(0)
In-line Retail	7,50%	25.00%	19.50%	15.00%	11.50%		7.50%
Multi Family/Live Work	6,00%	20.00%	15.00%	11.00%	8.50%		5.00%
Office	12.50%	30,00%	24.00%	19.00%	15.00%		10.00%
Shearoom	6.00%	20.00%	15.00%	11.00%	8.50%		5.0XP%
Market Rent Growth	0.00%	5.50%	4.50%	4.00%	3.75%		3,50%



MARKET INFORMATION	
80% of AMI during 2008	45950
Housing Ratio	31,00%
Maximum Affordable Rent	\$1,187
Maximum Home Price *	\$178,421
Market Rate Price	\$223,027
Minimum Affordable Units	125
Affordable Units Provided	129
* (0% down)	

Several key assumptions were made during the estimate of expected potential cash flows. These assumptions are outlined below:

- a) The majority of the NPV and IRR measurements are derived from the sale event. A going out cap rate between 7.5% and 7.75% was used to estimate the sale of the Showroom portion of the portfolio during 2018 and the remaining portfolio during 2020. Sales costs of 2.5% were also included.
- b) An interest reserve was utilized to fund interest payments during the construction period. A 6 year interest only loan at 6% was used. The maximum loan to value was 60% throughout the construction period. It was assumed the loan would be refinanced at 6.5% with a 30 year amortization scheduled thereafter.
- c) A 50% reduction in the nominal cost of the Photovoltaic System was assumed. This rebate is currently (2009) provided by Holy Cross Solar.
- d) Inflation would remain constant during the holding period at 3.00%





THE CITY IN '2050'

- Self Sufficiency
- Energy & Food Production
- Flexibility

ADAPTABLE SPACES

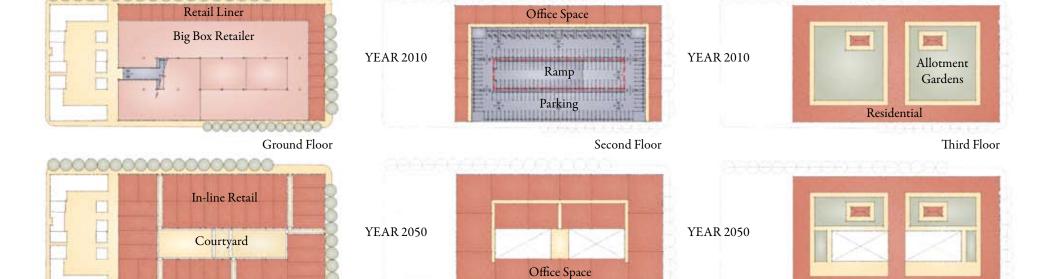
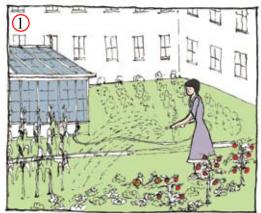


Diagram showing future use of a big box / parking structure converted to a usable courtyard in 2050.

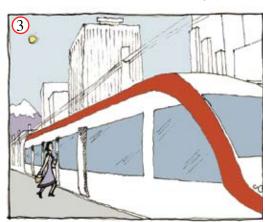
'ONE DAY IN THE YEAR 2050'



She steps out at 7:30 into the communal allotment to water her vegetable garden, using water that comes from recycled brown water that has been run thru a "Living Machine," which uses specific plant species to filter the contaminants out of the water and prepare it for reuse in irrigation and toilet water.



She steps out into the sun at 7:50 and walks to work, relishing the fact that she has not needed a car for the past twenty years. After a four-minute walk, she arrives early at her office, which is powered by the photovoltaic system on the building's roof.



Her business lunch is scheduled at 12:00. At 11:45 she steps out of her office and within two minutes is waiting for the next light train heading into downtown Denver. The train arrives promptly at 11:50 and deposits her at 11:56 two blocks from the restaurant.





Residential

Her annual checkup at her doctor's office in the neighborhood Wellness Center is scheduled for 3:30. The Wellness Center is a five-minute walk from her office and on the way she picks a pear off one of the trees lining the street.



She plans on harvesting some fresh vegetables from her garden and bringing them to her friend's house for dinner at 7:00, after which they will attend a neighborhood art gallery opening just down the street from his house.



The opening at the gallery is a perfect finish to a stress free day, a day without traffic jams, a day powered by the sun not by oil and a day when the food she grows herself sustains her.