#### EXHIBIT 7

October 2012 Cycle EAR-Based Amendments BCC Hearing May 22, 2013 Miami-Dade County

### ADDITIONAL INFORMATION ADDRESSING OCTOBER 2012 CYCLE EVALUATION AND APPRAISAL REPORT (EAR)-BASED APPLICATIONS

- PowerPoint presentation by Jeffrey Bercow, presented on October 2, 2013, at the Miami-Dade Board of County Commissioners (Board) public hearing addressing the EAR-based applications;
- Letter in support of the Department's recommendation on Application No. 1, submitted by 1000 Friends of Florida, Audubon of Florida, Clean Water Action, EMERGE Miami, Everglades Law Center, the Sierra Club, Tropical Audubon Society and the Urban Environment League, dated October 1, 2013;
- Letter submitted in reference to the Miami-Dade County Population Project submitted by Mr. John F. Long, Ph.D. and President, USA Demography, LLC, dated September 30, 2013;
- Letter of Opposition to EAR-Based Application No. 1 submitted by Armada Quirke from the Law Firm of Levine, Kellogg, Lehman, Schneider and Grossman, dated September 30, 2013. Letter depicts several maps and charts.
- Letter from the Florida Atlantic Building Association in support of Planning Advisory Board's recommendations to EAR-based amendments, received by the Department of Regulatory and Economic Resources, September 23, 2013;
- Letter (with attachments) from the Department of the Air Force addressing the removal of parcel Nos. 292 and 293 from the 2015 Urban Expansion Area, dated September 18, 2013; and
- Compliance Evaluation Report, dated July 8, 2013, prepared by Kenneth Metcalf for Limonar Development, Inc. (excerpt). Addresses 2015 Urban Expansion Area modification proposed through Parcel 294 of EAR-Based Application No. 1.

#### **EAR-BASED CDMP AMENDMENTS**

Miami-Dade Board of County Commissioners
October 2, 2013

### Adopted 2011 EAR

Table 1.1-7
Residential Land Supply/Demand Analysis
Miami-Dade County by Tier and Subtier, 2010 to 2030

Analysis Done Separately for Each		Structure Type	)
Type, i.e. No Shifting of Demand	Single	Multi-	Both
between Single & Multifamily Type	Family	Family	Types
Capacity in 2010	43,543	92,186	135,729
Annual Demand in 2010-2015	6,293	5,125	11,418
Capacity in 2015	12,078	66,561	78,639
Annual Demand 2015-2020	6,602	5,448	12,050
Capacity in 2020	0	39,321	18,389
Annual Demand 2020-2025	6,492	5,726	12,218
Capacity in 2025	0	10,691	0
Annual Demand 2025-2030	6,809	5,275	12,084
Capacity in 2030	0	0	0
Depletion Year	2016	2026	2021

Source: Miami-Dade County Department of Planning and Zoning, Research Section, 2011.

## County EAR Amendments

Table 3
Residential Land Supply/Demand Analysis,
Countywide, 2012 to 2030

Ctrustura Tuna

Analysis Done Separately For Each Type, i.e. No Shifting of Demand Between Single

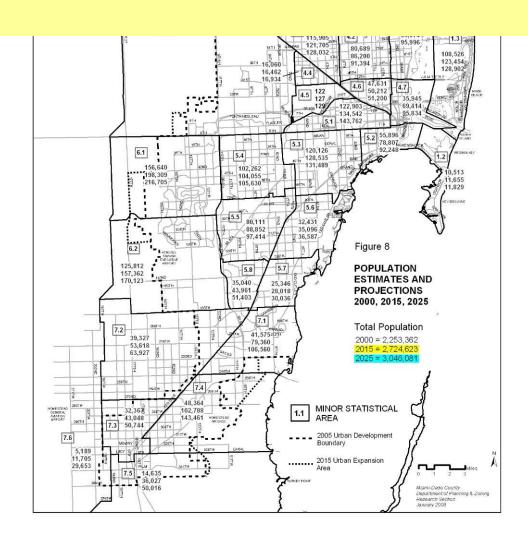
& Multi-Family Type		Structure Type	
22 120	Single-Family	Multifamily	Both Types
Capacity in 2012	41,001	102,049	143,050
Demand 2010-2015	4,013	3,927	7,940
Capacity in 2015	28,962	90,268	119,230
Demand 2015-2020	4,957	4,590	9,547
Capacity in 2020	4,177	57,318	71,495
Demand 2020-2025	5,353	4,920	10,273
Capacity in 2025	0	42,718	20,130
Demand 2025-2030	6,041	5,635	11,676
Capacity in 2030	0	14,543	0
Depletion Year	2020	2033	2026

Note: Residential capacity is expressed in terms of housing units.

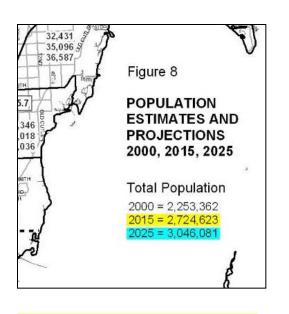
Housing demand is an annual average figure based on population projections.

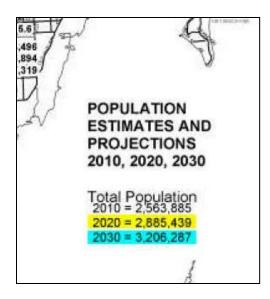
Source: Department of Regulatory and Economic Resources, Research Section, March 2013.

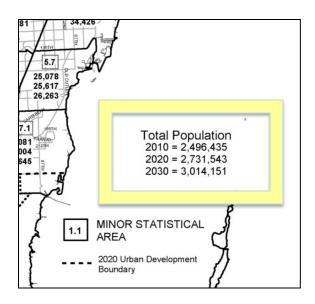
## Figure 8, Land Use Element



## Figure 8, Land Use Element







Adopted

2011 EAR

2012 Amendment

## Real World Experience

#### Miami Herald, April 15, 2013:

"After disputed presidential elections in Venezuela, Doral can expect a new wave of immigrants from the South American country who could increase the population by 40 percent in the next two years" - Mayor Luigi Boria

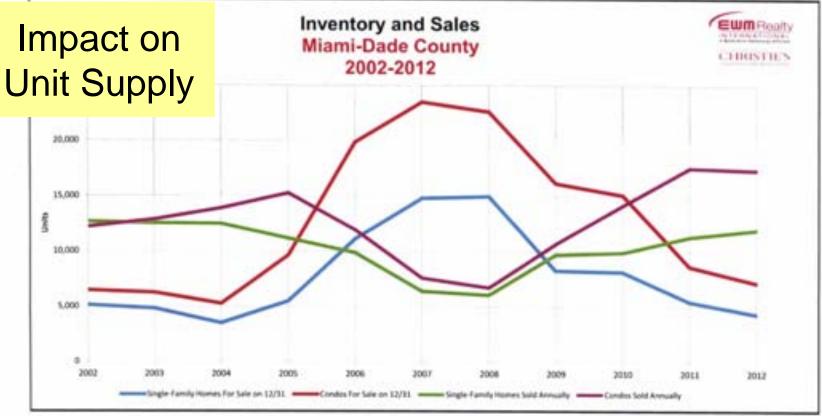
#### World Property Channel, by Michael Gerrity:

According to the Miami Association of Realtors, Miami experienced a **54%** increase year-over-year in condo sales in the month of June 2011 alone. Most of those sales were to **international buyers**, who mostly purchased in cash.

Moody's is among those predicting Florida's population will swell by 360,000 this year. New York, by comparison, is expected to add between 50,000 and 100,000 new net residents.

"A[n] . . . area around Collins
Avenue and 71st Street has become
known as "Little Buenos Aires,"
where thousands of working-class
Argentines have settled after fleeing
economic chaos in their country.
Wealthier Argentines have
gravitated toward Aventura,
between Miami and Fort Lauderdale,
and Key Biscayne, an island
southeast of downtown Miami."

-- MelG Group



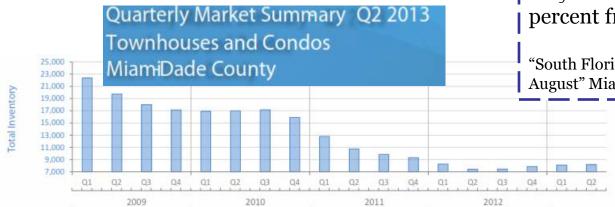
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Brige Family Homes For Bale on 12:31	5.134	4,826	3.505	5.419	11,109	14.818	14.988	8.278	8.156	5.474	4.334
Condos For Sale on 12/31	8.475	6.260	5.259	9.643	19.875	23.517	22.637	16.160	15,117	8.651	7,175
Single Family Homes Sold Annually	12,670	12.534	12,411	11,156	9,000	6.401	0.056	9.714	9,902	11.301	11.051
Condos Sold Annually	12,204	12,872	13,897	15.260	11,932	7,592	6,731	10,681	14,161	17,533	17,361
Total Units Sold (Single-Family & Condo)	24,862	25,406	26,378	26,416	21,818	13,993	12,780	20.395	24,063	28,834	29,312
Single-Family Sales % of Total Sales	51%	49%	47%	42%	45%	46%	47%	48%	41%	39%	41%
Condo Sales % of Total Sales	49%	51%	53%	58%	55%	54%	53%	52%	59%	61%	59%
Single-Family Median Sold Price (4th On Aug)	\$ 189,000	\$ 231,000	\$ 287,000	\$ 367,000	1 374,000	1 345,000	\$ 223,000	\$ 121,000	E-170,000	\$ 173,000	1 199,000
Annual Increase (Decrease)		22%	24%	28%	2%	-7%	-36%	-19%	4%	2%	15%
Condo Median Sold Price (4th Citr Aug)	\$ 133,000	\$ 152,000	\$ 206,000	\$ 254,000	\$ 253,000	\$ 360,000	\$ 168,000	\$ 137,000	\$ 101,000	\$ 124,000	\$ 157,008
Annual Increase (Decrease)	11 10 10 10 10 10	14%	36%	24%	-8%	2%	-35%	-18%	-26%	23%	27%
Single-Family # Months Supply on 12/31	4.9	4.6	3.4	5.9	13.5	27.8	29.7	10.2	9.9	5.8	4.6
Condos # Months Supply on 12/31	6.4	5.8	4.5	7.6	20.0	37.2	40.4	18.2	12.8	5.9	5.0

## Impact on Unit Supply



As of the end of 2012, condominium and single family unit supply was equivalent to that seen in 2003 and lower than any time since 2005.





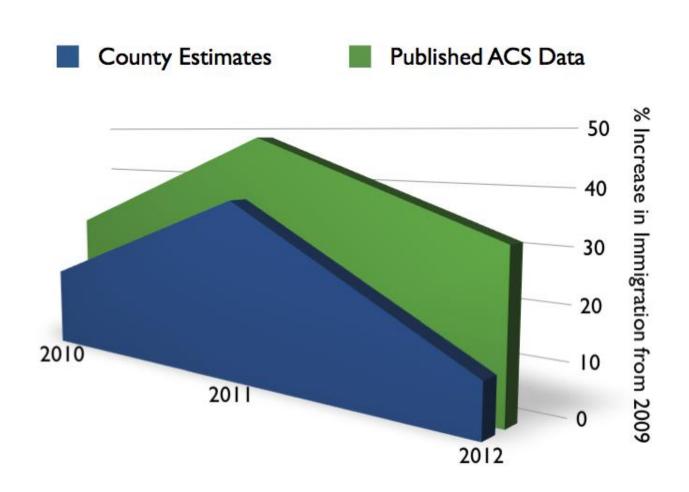
"In August [2013], Miami-Dade saw a 3.1 percent increase in inventory from a year earlier, but with buyers out in full force, that represented only a 4.9-month supply, down 12.7 percent from August 2012...."

"South Florida existing home prices up sharply in August" Miami Herald September 19, 2013

### **Immigration Data**

Period	Census Data	Transmitted Data	Final Data
2006		31,764	28,373
2007	32,729	32,579	30,024
2008	33,135	32,557	29,956
2009	28,653	28,377	26,036
2010	32,799	26,313	30,364
2011	38,054	28,876	35,447
2012		29,438	28,667

## **Immigration Data**



#### **Comparison of Immigration Projections**

Year	Transmitted Data	Final Data
2012	29,438	28,667
2013	30,000	29,063
2014	30,562	29,292
2015	31,124	29,355
	Difference	-4,747

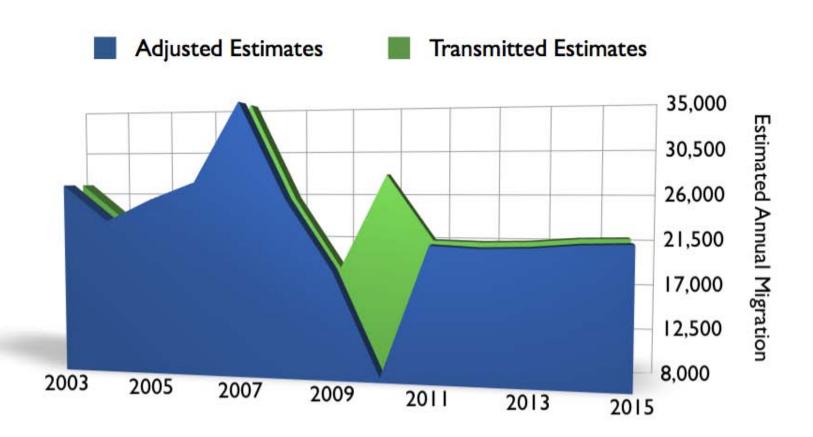
### **Migration Data**

Period	IRS Data	Transmitted Data
2005-06	27,190	27,190
2006-07	35,038	35,038
2007-08	25,572	25,572
2008-09	18,666	18,666
2009-10	8,502	27,974
2010-11	N/A	21,481
2011-12	N/A	21,358

### **Migration Data**

Period	Transmitted Data	Final Data
2005-06	27,190	27,190
2006-07	35,038	35,038
2007-08	25,572	25,572
2008-09	18,666	18,666
2009-10	27,974	8,502
2010-11	21,481	21,244
2011-12	21,358	21,003

## Migration Data



### **DEO** Recommendation



**Recommendation:** Update the population projection methodology to include the most recent estimates of migration and immigration published by the IRS and the ACS. The methodology should explain how the historical data is used (particularly with respect to the time period used) and whether recent changes in the data indicate long term trends.

recommendations regarding measures that can be taken to address the objections and have included recommendations regarding measures that can be taken to address the objections. We are also providing seven technical assistance comments consistent with Section 163.3168(3), F.S. The Department of Economic Opportunity's technical assistance comments will not form the basis of a challenge. They are offered as suggestions which can strengthen the County's comprehensive plan, or are technical in nature and designed to ensure compliance with the provisions of Chapter 163, F.S.

The County should act by choosing to adopt, adopt with changes, or not adopt the proposed amendment. Also, please note that Section 16.3.184(4)(e)1, F.S., provides that if the second public hearing is not held and the amendment adopted within 180 days of your receipt of the Department of Economic Opportunity report, the amendment shall be deemed withdrawn unless extended by agreement with notice to the Department of Economic Opportunity and any affected party that provided comment on the amendment. For your assistance, we have enclosed the procedures for final adoption and transmittal of the comprehensive plan amendment.

Florida Department of Economic Opportunity [Calificed Building] 107 E. Maitson Street [Calificaced ed. U., 1991 800 ELAC 1447 [EGG-1477] 105 [1840 UT], 124 UT] 124 UT] 124 UT] 125 UT] 125 UT]

# Concerns About Methodology



Sept. 30, 2013

Members of the Board of County Commissioners 111 NW 1st St. Miami, FL 33128

Dear Commissioners:

This letter is in reference to the Miami-Dade County Population Projections that you currently have under consideration.

I was asked by Miami Economic Associates, Inc. to review the population projections for Miami-Dade County because of my expertise in population projections methods (see attached vita). In the process of that review and discussions with the Miami-Dade County departments involved, I determined that the projections had been based on outdated and faulty data. The data failed to account for recent increases in international migration into the county and for declines in domestic migration out of the county. Both factors have led to increased population growth in the county in recent years and could reasonably be assumed to continue for the near future.

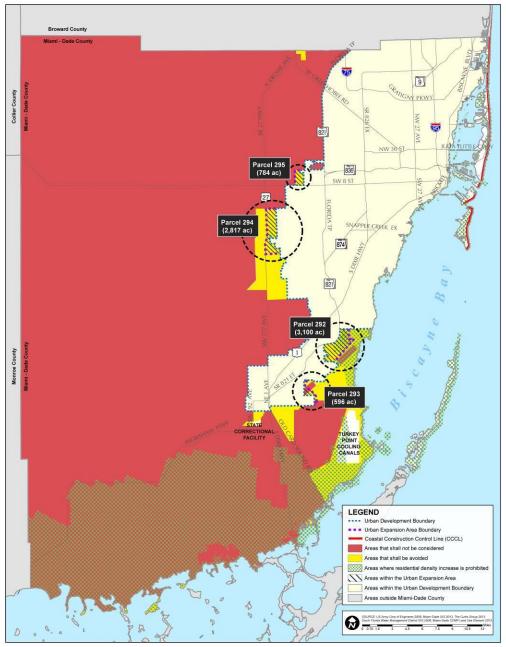
Professionally accepted methodology would be to base the assumptions about future changes in the demographic components on the updated historical data emphasizing recent trends. However, the assumptions in these projections do not reflect these recent trends and data corrections. In fact, the assumptions appear to have ignored these recent trends and kept a previously chosen set of assumptions that would lead to slow growth in the county. As a result these projections substantially underrepresent the likely population growth of the county – particularly in the short and medium term.

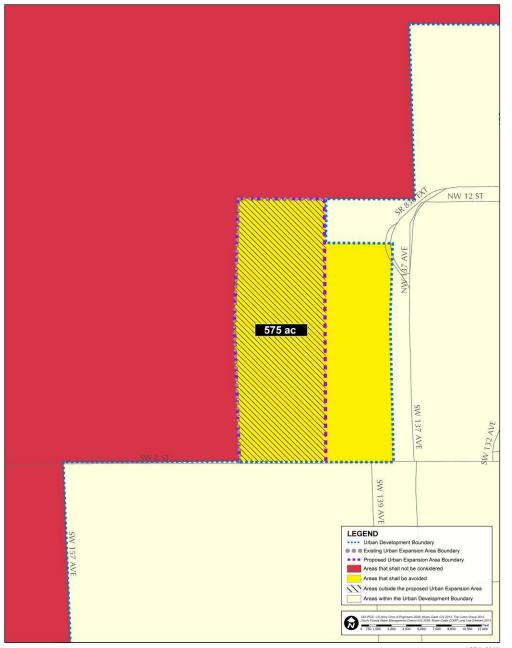
This failure to incorporate recent trends into the near-term assumptions of the projections is already evident in the first year of the projection period. Despite the fact that the county had substantially increased levels of immigration in 2010 and 2011, the Dept. of Planning chose to include assumptions of immigration for 2012 and subsequent years that were substantially lower than the 2010 and 2011 levels. The most recent data on immigration released from the U.S. Census Bureau's American Community Survey this month show that immigration for 2012 continues to run above the 2010 levels while the County projected a decline of 6 percent below the 2010 values. As a consequence, the County's population projections for 2012 are already below the current estimates made by the State of Florida and those made by the U.S. Census Bureau. These low levels of immigration are built into the County's assumptions for the next 5 to 10 years -- leading to what will probably be a substantial underestimate of immigration and population growth by 2020.

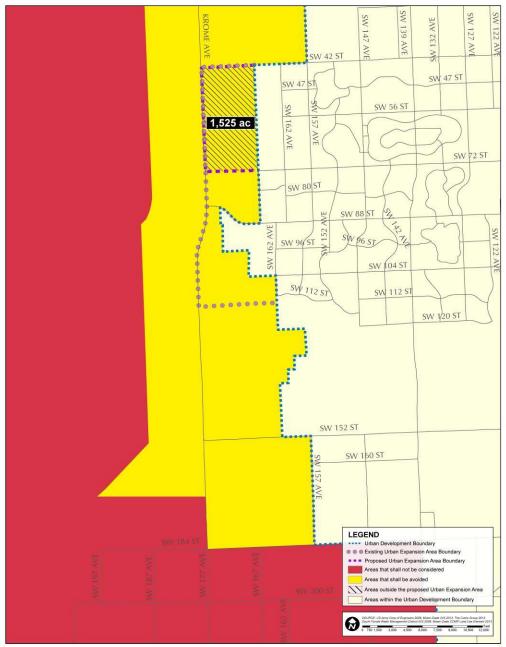
Sincerely.

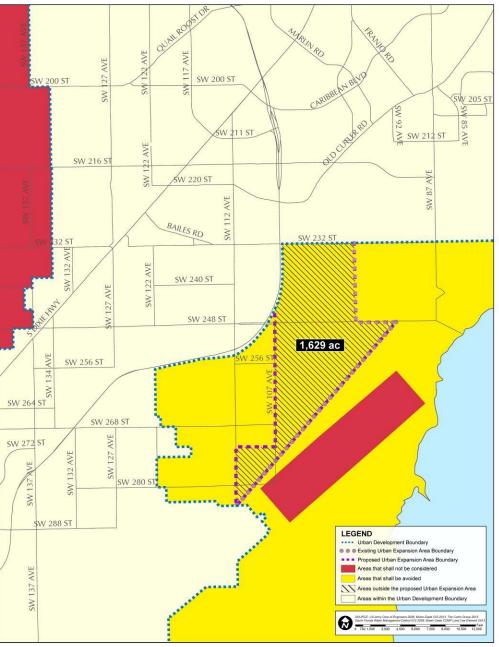
John F. Long, Ph.D.

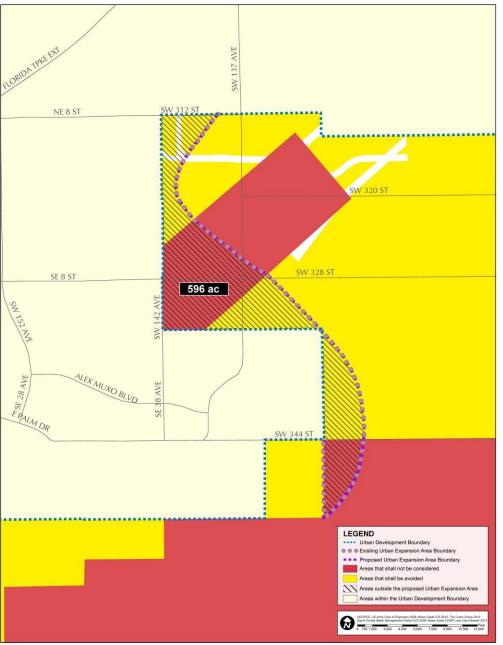
President, USA Demography, LLC johnlong@usademography.com







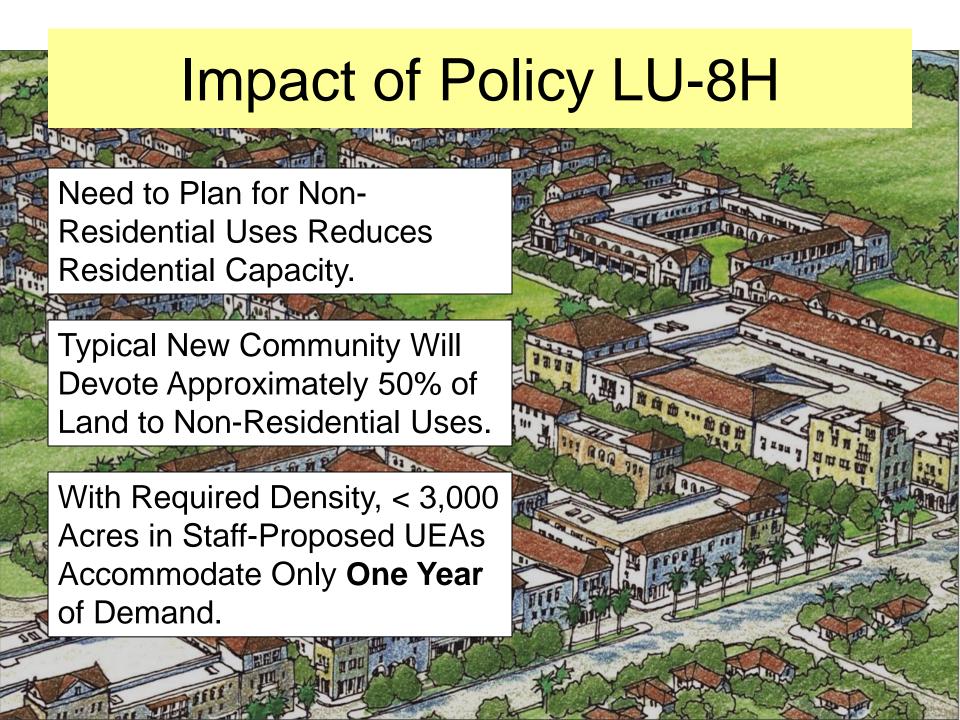




	EXISTING ACREAGE	STAFF-PROPOSED ACREAGE
Parcel 295	784 acres	209 acres
Parcel 294	2,817 acres	1,612 acres
Parcel 2 55	% Redu	uction
Parcel 293	596 acres	0 acres
TOTAL	7,298 acres	3,292 acres

## Proposed Policy LU-8H

- 79 <u>LU-8H.</u> Applications requesting expansion of the UDB shall be in accordance with the foregoing Policies LU-8F and LU-8G, and must meet the following criteria to be considered for approval:
  - a) Residential development proposals shall provide for the non-residential needs, of the future residents of such proposed developments including but not limited to places of employment, shopping, schools, recreational and other public facilities, and shall demonstrate that such needs are adequately addressed;
  - dwelling units per gross acre;
  - c) Residential development must participate in the Purchase of Development Rights, Transfer of Development Rights (TDR) or other County established program(s) geared to protecting agricultural lands and/or environmentally sensitive lands;
  - d) The non-residential component(s) of the proposed development, excluding public facilities, shall be developed at a minimum intensity of 0.25 FAR; and
  - e) The proposed development shall be planned to provide adequate buffering to adjacent agricultural lands and shall incorporate and promote bicycle and pedestrian accessibility throughout the development.
  - f) The proposed development must be demonstrated not to discourage or inhibit infill and redevelopment efforts within the UDB;
  - g) The proposed development will not leave intervening parcels of property between the proposed development and the UDB; and
  - h) It must be demonstrated that the proposed development will have a neutral or positive net fiscal to Miami-Dade County.



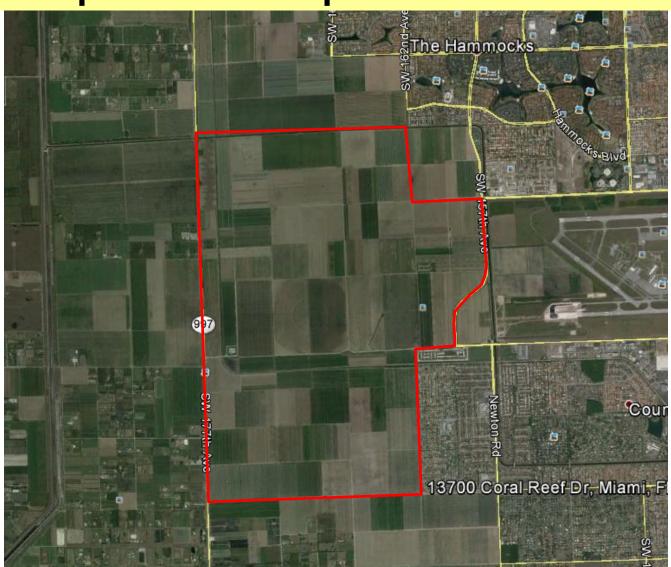
## Residential Development of UEAs

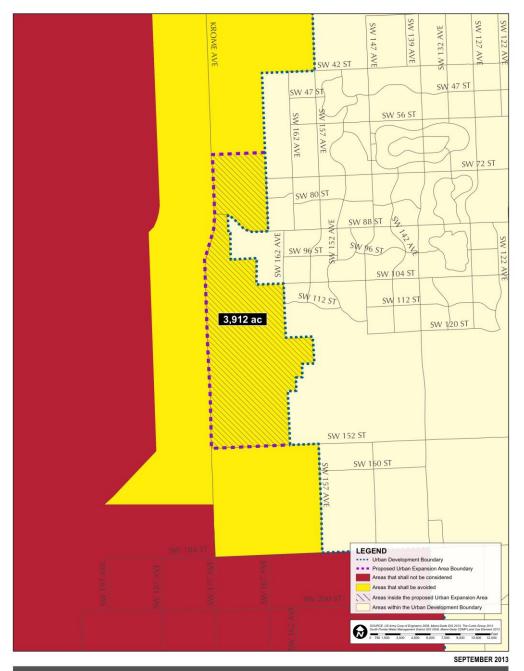
1,600 Acres Available for Residential

Policy LU-8H Contemplates 10 Units Per Acre of Residential Land

1,600 acres X 10 du/ac = 16,000 Potential Units

# Western UEA Proposed Expansion Area

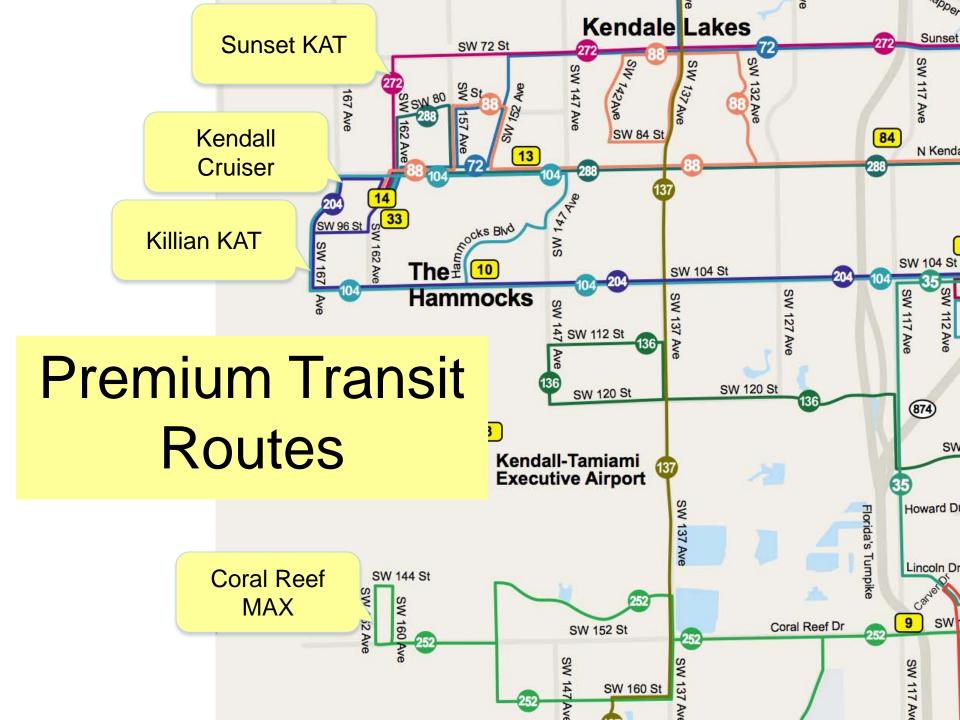


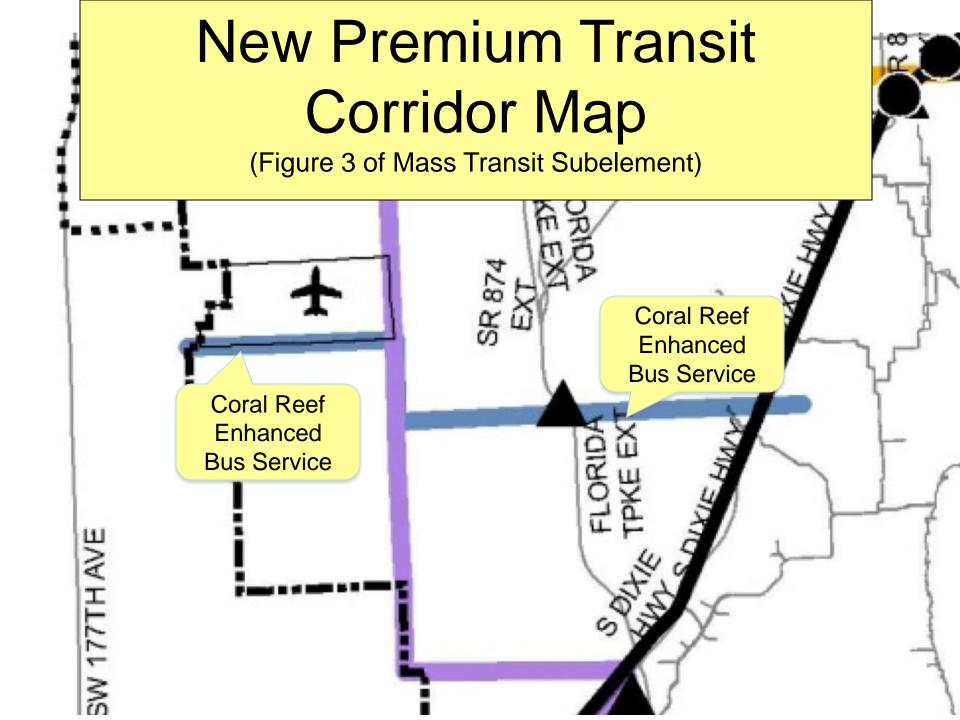


## Depletion of South-Central Tier

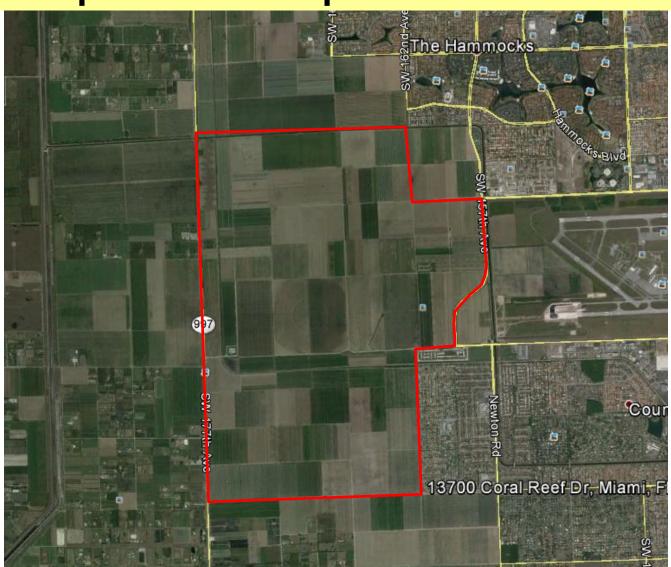
Table 1.1-10
Residential Land Supply/Demand Analysis
South Central Tier, 2010 to 2030

Analysis Done Separately	Subtier								
for Each Type, i.e. No	Ea	ast of Turnpil	ke	We	est of Turnpi	ke	Sou	th Central T	otal
Shifting of Demand between	Single	Multi-	Both	Single	Multi-	Both	Single	Multi-	Both
Single & Multifamily Type	Family	Family	Types	Family	Family	Types	Family	Family	Types
Capacity in 2010	2,173	12,419	14,592	4,607	1,711	6,318	6,780	14,130	20,910
Annual Demand 2010-2015	616	679	1,295	1,494	71	1,565	2,110	750	2,860
Capacity in 2015	0	9,024	8,117	0	1,356	0	0	10,380	6,610
Annual Demand 2015-2020	684	740	1,424	1,436	68	1,504	2,120	808	2,928
Capacity in 2020	0	5,324	997	0	1,016	0	0	6,340	0
Annual Demand 2020-2025	800	869	1,669	753	35	788	1,553	904	2,457
Capacity in 2025	0	979	0	0	841	0	0	1,820	0
Annual Demand 2025-2030	614	674	1,288	1,748	83	1,831	2,362	757	3,119
Capacity in 2030	0	0	0	0	426			0	
Depletion Year	2013	2026	2020	2013	2049	2014	2013	2027	2017
Source: Miami-Dade County Depa	artment of Pla	anning and Z	Zoning, Rese	earch Sectio	n, 2011.				

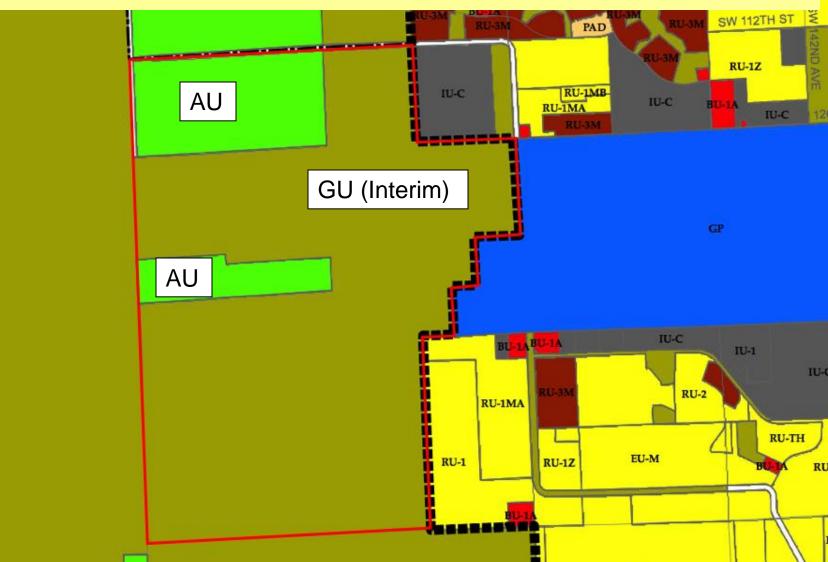


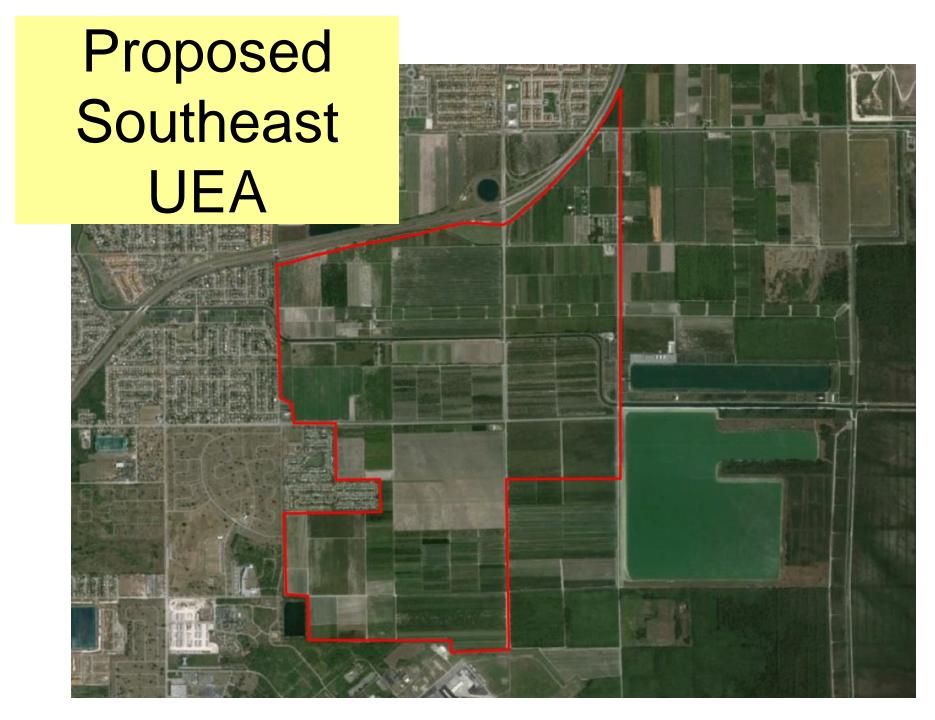


# Western UEA Proposed Expansion Area



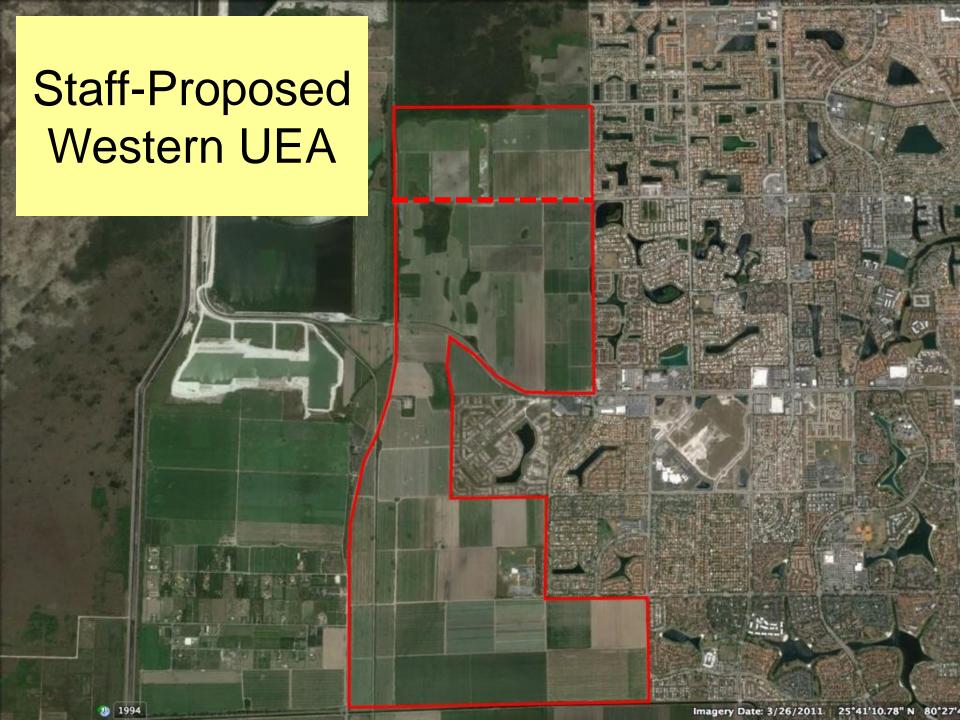
## Western UEA Zoning of Proposed Expansion Area

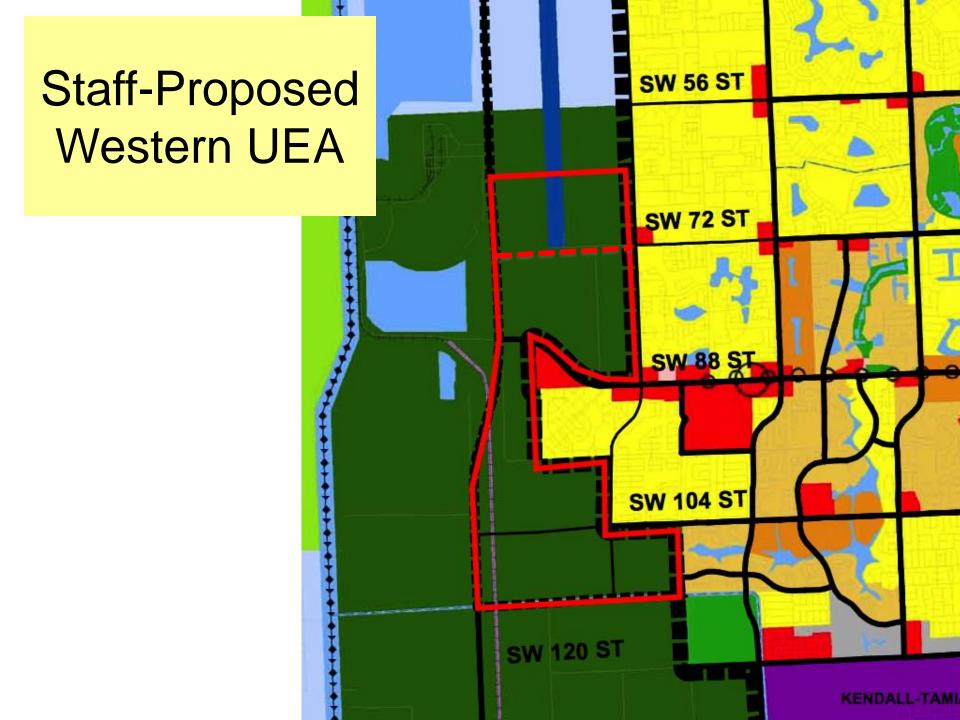




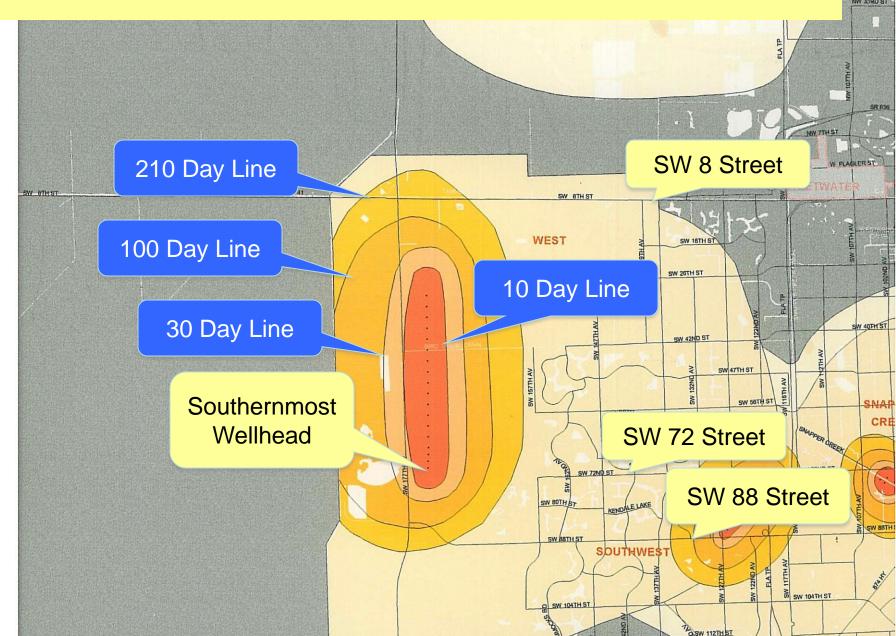
Proposed Southeast UEA







# West Wellfield



# **SUMMARY OF PROPOSED UEA CHANGES**

	EXISTING ACREAGE	PROPOSED ACREAGE
Parcel 295	784 acres	209 acres
Parcel 294	2,817 acres	+/- 4,253 acres
Parcel 292	3,100 acres	1,471 acres
Parcel 293	595 acres	0 acres
TOTAL	7,297 acres	5,933 acres

# **EAR-BASED CDMP AMENDMENTS**

Miami-Dade Board of County Commissioners
October 2, 2013

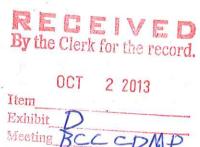
# 1000 Friends of Florida • Audubon of Florida Clean Water Action • EMERGE Miami Everglades Law Center • Sierra Club • Tropical Audubon Society Urban Environm

PLANNING & ZONING METROPOLITAN PLANNING SECT

October 1, 2013

Honorable Rebeca Sosa Miami Dade County Commission Stephen P. Clarke Center 111 NW First Street Miami, FL 33128

Dear Chairwoman Sosa,



On behalf of the undersigned organizations, we write to generally support your staff's recommended amendments to the Comprehensive Development Master Plan (CDMP) in order to implement recommendations of the 2010 Evaluation and Appraisal Report (EAR).

We support Miami-Dade Planning and Zoning's recommendations for the following reasons:

#### Staff's UEA maps are amended to follow policy LU-8G

The current EAR draft proposes to shrink some of the boundaries of the Urban Expansion Area (UEA) so the land use map is consistent with Policy LU-8G. Policy LU-8G states, in part, that the County must avoid four types of land when considering locations for inclusion within the UDB. They are: (1) future wetlands; (2) lands designated for agriculture, (3) hurricane evacuation areas, and (4) lands that are part of the Comprehensive Everglades Restoration Plan (CERP).

It is crucial for the Board of County Commissioners to understand that revising our UEAs is an important step to ensure we grow in a sustainable fashion, thus protecting our finite resources and the taxpayers' pockets. Staff's recommendations to contract all current UEAs and amending Policy LU-8G sets a clear path forward: to grow in areas fit to support population, save environmentally sensitive areas, and protect our water supply by standing clear off our wellfields.

The four existing UEAs are constrained in part by existing wetlands, wellfield protection areas, CERP footprints, and other types of land use that should be avoided for development. By modifying these UEAs, you can ensure that land identified for future urban expansion in each UEA is free from these constrains.

While the development industry *thinks* that even more land should be included in the UEAs, we *know* that the population projection numbers that your staff calculated are correct based on recent

statements from the state Department of Economic Opportunity.<sup>1</sup> These numbers do not justify expanding these areas at this time. The Commission should reject their claims and follow staff's expertise.

We fully support staff's modifications and agree that no other area outside the UDB fulfills the criteria for inclusion within a UEA. Contracting the following UEAs is of utmost importance, and we ask you hear to your Staff's recommendations that are based on solid facts:

#### Parcel 292:

Staff has recommended removing 1,489 acres from the UEA because this area falls into 4 out of the 4 criteria for exclusion per policy LU-8G: Accident Potential Zone (APZ) of the Homestead Air Reserve Base, High Coastal High Hazard Area (LU-8G(ii)(c), Future Wetlands and CERP Water Management Areas (LU-8G(ii)(a), and CERP project footprints for the Biscayne Bay Coastal Wetlands (LU-8G(ii)(d).

While exclusion from the UEAs does not stop developers from applying for a CDMP amendment, it does make it clear to everyone that this area has been identified by the county as *not suitable for urban development*. This is the most efficient way of protecting taxpayers from a flood issue, and of ensuring economic prosperity for fisheries dependent on a clean Biscayne Bay since land in this area has been purchased by the South Florida Water Management District for the Biscayne Bay Coastal Wetlands Restoration Project that is part of CERP.

#### Parcel 294:

Staff has recommended removing 1,525 acres from this UEA to bring the map into compliance with the CDMP's policies. These 1,525 acres lie within the West Wellfield Protection Area, which serves as a critical drinking water source for many Miami-Dade residents. The Biscayne aquifer is extremely porous and the water table is very close to the surface, making it vulnerable to pollution. Pollutants that are discharged onto the ground or that occur in surface waters can contaminate the groundwater and be drawn into our drinking water wells.

While LU-8G identifies the area to be protected as between SW 8<sup>th</sup> street and SW 42<sup>nd</sup> st, recent data from the county clearly indicates that this protection area should be expanded. In December 2012, the county published a map that shows the West Wellfield Protection Area reaching as far south as 72<sup>nd</sup> street.<sup>2</sup> The Florida Department of Economic Opportunity also found that the wellfield reaches to SW 72<sup>nd</sup> street.<sup>3</sup>

Miami-Dade maps of the wellfield also show that the travel time of aquifer water to well pumps is in the 10-day travel time period period. Based on the time travel contour lines depicted in the map pertaining to this UEA, any pollutants from nearby developments could filter through the aquifer and reach our potable water within 10 days.

<sup>&</sup>lt;sup>1</sup> Florida Department of Economic Opportunity Objections, Recommendations, and Comments Report to Miami-Dade County, Proposed Comprehensive Plan Amendment 13-4ER, August 23, 2013 at 4.

<sup>&</sup>lt;sup>2</sup> Initial Recommendations, October 2012 Cycle, EAR-Based Applications to Amend the Comprehensive Development Master Plan, April 2013, Miami-Dade County.

<sup>&</sup>lt;sup>3</sup> Florida Department of Economic Opportunity Objections, Recommendations, and Comments Report to Miami-Dade County, Proposed Comprehensive Plan Amendment 13-4ER, August 23, 2013 at 5.

Jeopardizing our drinking water supply in this area is simply not an option. It is because of these contour lines that your staff has made recommendations to amend this UEA to protect our water supply from the threat of pollution from development occurring so near such sensitive area.

Therefore, in order to protect this vital resource for the county, we also recommend amending the language in LU-8G to identify the area to be protected as between SW 8<sup>th</sup> street and SW 72<sup>nd</sup> street at a minimum. We strongly urge you to side with your staff on this UEA and protect our wellfield.

In addition, this area falls within an identified portion of the Everglades Buffer Areas as identified by the South Florida Water Management District to provide a buffer between the Everglades and east coast urban centers, managed in a manner that allows water to be captured, stored, and released at opportune times to benefit both the urban communities and the ecological system to the west.

#### Parcel 295

Staff has recommended removing approximately 575 acres as these lands contain areas identified by the SFWMD as future wetlands, which would be inconsistent for development pursuant to the CDMP's policy LU-8G. Indeed, these lands are now classified as wetlands, which provide a critical environmental service to Miami-Dade. Wetlands provide crucial storage for our aquifer, naturally clean pollutants out of our water, help mitigate storm and flooding impacts on nearby development, while also providing important habitat for numerous species including as a nursery for fish.

Many have recognized that growth patterns in previous decades have not been based on solid science or policy, and have had negative impacts on our economy and quality of life. This is an opportunity to be forward-thinking and support infill development projects that continue to improve our County, supply jobs and contribute to our economy. We strongly urge the BCC to embrace the fact that our economic success is intimately tied to the conservation and preservation of our environment.

#### **Density and Transit**

We must start to make the necessary infrastructure investments toward areas where growth is desirable and planned. It is foolish to continue the battle between land preservation and economic growth when the two can easily work hand-in-hand.

By prioritizing density at targeted areas, we can create vibrant communities that support successful transit systems. This will allow our sensitive westward lands to be conserved for agricultural uses, wildlife habitat, and natural water storage. We ask that you consider the plethora of positive impacts that will emerge from establishing enforceable minimum density requirements at targeted urban infill locations, and adopt strong text in the EAR to encourage this type of development.

There is an urgent need to increase our county's mobility. The most efficient way to do this is to ensure that all residents have access to an affordable, energy-efficient, reliable and convenient

public transit system. Alternative means of transit funding – like using a portion of Miami-Dade Expressway's resources – will become essential for us to develop the type of modern transit system our residents need to be economically viable. Successful transit can reduce traffic congestion and alleviate the burden on our overstressed roadways; it can also reduce the amount of greenhouse gases emitted each year, decreasing potential impacts of climate change.

#### **Climate Change Mitigation and Adaptation**

As a valuable member of the 4 county climate compact, and an active partner in the Seven50 regional planning process, Miami-Dade has the unique opportunity to emerge as a national leader in the mitigation and adaptation of climate change impacts. As the CDMP envisions future growth and plans for the locations of growth, it is critical to start assessing each new application with a climate filter in place that can be evaluated through multiple agency perspectives.

It is essential that commitment to Everglades restoration continue to be a top priority for our county. Water management structures will need to be modified, road-beds raised, drainage improved but if this issue is not addressed and envisioned in our comprehensive planning document now, we will be missing an opportunity to coordinate and ultimately create a safer, more economically-viable community for future growth.

For all these reasons, we are supportive of adopting the proposed new policies on climate change. However, many of the critical tools will not be implemented or even analyzed until 2017. Given the tremendous availability of data relevant to Miami-Dade and local climate experts, and the reality that we are already experiencing climate impacts, we urge you to accelerate these initiatives.

We would urge MDC to be an example of a community seeking to reduce its carbon footprint and advocate for carbon reduction nationally and worldwide.

#### **Urban Development Boundary**

The EAR concludes that, based on current demographics and supply and demand analysis by the County, "an expansion of the UDB is not warranted to meet the needs for commercial and industrial lands" for the 2025 planning horizon. However, County staff has identified a 554-acre parcel (parcel 296) to include within the UDB. The area in question is a proverbial "hole-in-the-donut" that was created as a result of previous Shoppyland and Beacon Lakes development initiatives, and is surrounded by lands already included within the UDB.

We are concerned that the proposed expansion will set a dangerous precedent of facilitating development without demonstrated need, and request that guidelines be mandated to ensure that this "hole-in-donut" land use scenario not be replicated in the future.

#### **Conclusion**

You are in the unique position to positively influence the growth of our county and leave a legacy for future generations. Thank you for your time and consideration of these important issues.

Sincerely,

Charles Pattison President 1000 Friends of Florida cpattison@1000fof.org

Julie Hill-Gabriel Audubon of Florida jhill-gabriel@audubon.org

Kathleen E. Aterno Florida Director Clean Water Action katerno@cleanwater.org

Bruce Stanley Organizer EMERGE Miami

Sara Fain
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Stephen Mahoney Conservation Chair, Miami Group Sierra Club rsmahoney@bellsouth.net

Laura Reynolds
Executive Director
Tropical Audubon Society
tropicalaudubon@gmail.com

Barbara Falsey President Urban Environment League <u>barbine237@gmail.com</u>

Cc: Members of the Board of County Commissioners

Mayor Carlos Gimenez

Mark Woerner

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# USA DEMOGRAPHY

CEIVED With a Clerk for the record.

Sept. 30, 2013

Members of the Board of County Commissioners 111 NW 1st St. Miami, FL 33128 OCT 2 2013

Item
Exhibit A
Meeting DCCCOMP

Dear Commissioners:

This letter is in reference to the Miami-Dade County Population Projections that you currently have under consideration.

I was asked by Miami Economic Associates, Inc. to review the population projections for Miami-Dade County because of my expertise in population projections methods (see attached vita). In the process of that review and discussions with the Miami-Dade County departments involved, I determined that the projections had been based on outdated and faulty data. The data failed to account for recent increases in international migration into the county and for declines in domestic migration out of the county. Both factors have led to increased population growth in the county in recent years and could reasonably be assumed to continue for the near future.

Professionally accepted methodology would be to base the assumptions about future changes in the demographic components on the updated historical data emphasizing recent trends. However, the assumptions in these projections do not reflect these recent trends and data corrections. In fact, the assumptions appear to have ignored these recent trends and kept a previously chosen set of assumptions that would lead to slow growth in the county. As a result these projections substantially underrepresent the likely population growth of the county – particularly in the short and medium term.

This failure to incorporate recent trends into the near-term assumptions of the projections is already evident in the first year of the projection period. Despite the fact that the county had substantially increased levels of immigration in 2010 and 2011, the Dept. of Planning chose to include assumptions of immigration for 2012 and subsequent years that were substantially lower than the 2010 and 2011 levels. The most recent data on immigration released from the U.S. Census Bureau's American Community Survey this month show that immigration for 2012 continues to run above the 2010 levels while the County projected a decline of 6 percent below the 2010 values. As a consequence, the County's population projections for 2012 are already below the current estimates made by the State of Florida and those made by the U.S. Census Bureau. These low levels of immigration are built into the County's assumptions for the next 5 to 10 years -- leading to what will probably be a substantial underestimate of immigration and population growth by 2020.

Sincerely,

John F. Long, Ph.D.

President, USA Demography, LLC johnlong@usademography.com



201 South Biscayne Blvd. 22nd Floor, Miami Center Miami, Florida 33131 Phone: 305.403.8788 Fax: 305.403.8789

#### 2013 SEP 30 P 5: 34

PLANNING & ZONING METROPOLINAN PLANNING SECT

REGEIVED By the Clerk for the record.

September 30, 2013

Mark Woerner Planning Director 111 NW 1st Street, 12th Floor Miami, Florida 33128 OCT 2 2013

Exhibit BCC CDMP

Re:

EAR Based CDMP Amendments, Application 1

Dear Mr. Woerner,

Please consider this letter in opposition to EAR Based CDMP Amendment, Application 1 (the "Proposed Amendment.") This firm represents Alger Farms, John Alger, and Richard Alger (the "Algers.") The Algers own hundreds of acres (the "Alger Property") that comprise the majority of the acreage in (a) Parcel 293, which is the 596 acre tract proposed to be removed from the Urban Expansion Area; and (b) the APZ I and APZ II area that is subject to the proposed amendment that the area "shall not be considered" for UDB expansion.<sup>2</sup>

#### Population Projections Require Addition - Not Removal - of UEAs

The UEAs are areas "where current projections indicate that further urban development beyond the 2020 UDB is likely to be warranted some time between the year 2020 and 2030." "The over 58% reduction in size of the existing UEAs, the proposed increase in significance of the UEAs to the County's planning efforts, and the expected need to devote land within the UEAs for non-residential purposes all suggest that additional UEA acreage should be recognized in order to provide the needed planning flexibility." Thus, according to the EAR, the addition – not removal - of UEAs is necessary to satisfy the increasing population in Miami Dade County.

The population projections cited in the EAR, and in the Proposed Amendment, show that the residential land supply may be exhausted between 2021-2026. In fact, population in the vicinity of the Alger Property is projected to double by 2030.<sup>5</sup> In addition, any residential

<sup>5</sup> 2010 EAR, Figure 1.1-7. (Ex. B)

<sup>&</sup>lt;sup>1</sup> Miami Dade folio numbers 10-7923-001-0020; 10-7923-001-0021; 10-7915-001-0260; 10-7915-001-0300; 10-7922-001-0010; 10-7922-001-0040; 10-7922-001-0050; 10-7922-001-0060; 10-7922-001-0070; 10-7922-001-0072; 10-7922-001-0080; 10-7922-001-0090; 10-7914-001-0060; 10-7914-001-0070; and 30-7914-001-0090. See Highlighted Area, Ex. A.

<sup>&</sup>lt;sup>2</sup> Proposed Amendment to Policy LU-8G(ii).

October 2012 Cycle EAR-Based CDMP Amendments, Ex. H stamped May 22, 2013 at p. 1.
 October 2012 Cycle EAR-Based CDMP Amendments, Ex. H stamped May 22, 2013 at p. 9.

Mark Woerner September 30, 2013 Page 2

expansion also requires the provision of places of employment, shopping, and other public facilities (Proposed Policy LU-GH). Therefore, based on the population projections in the EAR, Parcel 293 should not be removed from the UEA.

#### Designation of Parcel 293 as a UEA is Consistent with the AICUZ

The basis for the Proposed Amendment with respect to the Alger Property is that the "AICUZ overlay and the limited size of this UEA means it will have little utility for providing additional capacity." The majority of Parcel 293 is located in APZ II and *outside* the APZ zones According to the AICUZ Recommended Land Use Compatibility Guidelines, a number of land uses are compatible with the HARB in the APZ II. For example, residential units at 1-2 units per acre or more pursuant to a Planned Unit Development, manufacturing, utilities, retail, professional services, etc. In other words, the AICUZ states that many land uses that would require expansion of the UDB are actually compatible with the HARB operations. Therefore, the designation of Parcel 293 as a UEA is consistent with the AICUZ and the land uses that the Air Force itself has determined are compatible with the HARB.

The Alger Property is designated Agriculture. Thus, it is particularly affected by the Proposed Amendment, which clarifies that Agricultural land within a UEA would not be disfavored for inclusion within the UDB. Parcel 293 was designated a UEA when the HARB was in full operation, and the County specifically determined that Parcel 293 was an appropriate UEA. Nothing has changed. Therefore, there are no new circumstances that require the removal of Parcel 293 from the UEA.

For these reasons, Parcel 293 should not be removed from the UEA. Furthermore, the amendment to Policy LU-8G(ii) to prohibit consideration of the APZ I and APZ II for inclusion in the UDB should be rejected. If the Proposed Amendment is adopted in its current form, the Algers will not even have the opportunity to develop the Alger Property in a manner consistent with the AICUZ in the future. In that event, the Alger Property should have top priority for the Purchase of Development Rights Program. Please contact me at 305-722-8893 if you would like to discuss these issues in further detail.

Sincerely,

Amanda Quirke

<sup>&</sup>lt;sup>6</sup> October 2012 Cycle EAR-Based CDMP Amendments, Ex. H stamped May 22, 2013 at p. 7.

October 2012 Cycle EAR-Based CDMP Amendments, Ex. 7 stamped May 22, 2013 at p. 1-10. (Ex. C)

<sup>&</sup>lt;sup>8</sup> See AICUZ, Table 3-1 USAF Recommended Land Use Compatibility Guidelines in Relation to APZs and Noise Zones. (Ex. D).

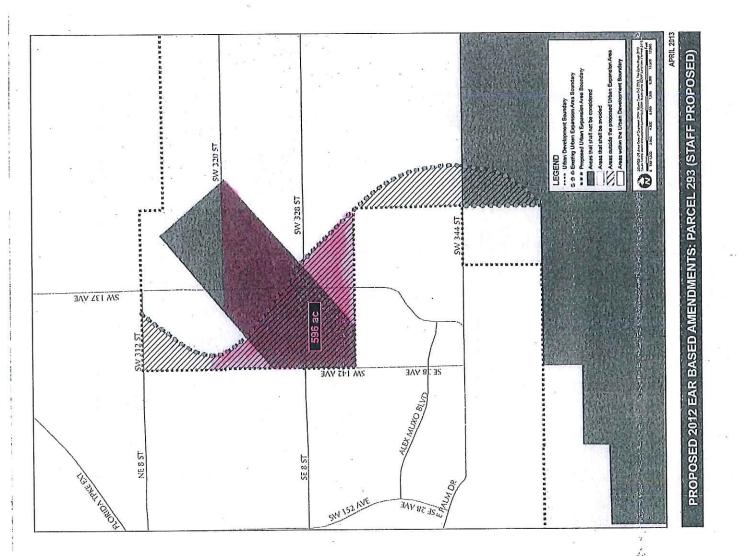
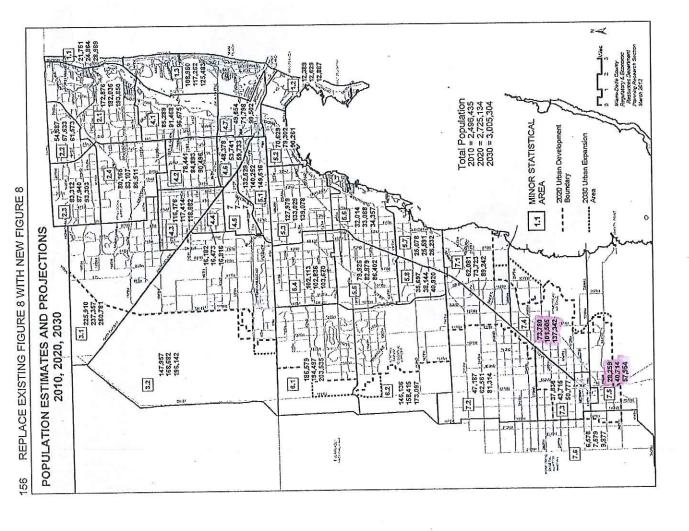


EXHIBIT A

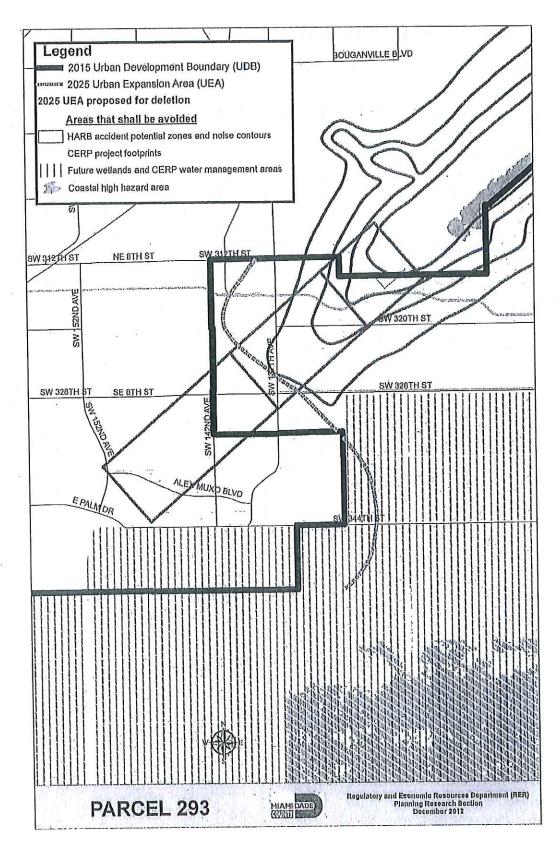


EXHIBIT

Signore

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# EXHIBIT "A"



EXHIBIT



Table 3-1. USAF Recommended Land Use Compatibility Guidelines in Relation to APZs and Noise Zones

	Land Use		APZs		Noise Zones			
SLUCM No.	Name	CZ	APZ I	APZ II	65–69 dBA	70–74 dBA	75–79 dBA	80+ dBA
10	Residential							
11	Household units							rA.
11.11	Single units; detached	N	N	Y	A <sup>11</sup>	В <sup>11</sup>	N	N
11.12	Single units; semidetached	N	N	N	A <sup>11</sup>	В <sup>11</sup>	N	N
11.13	Single units; attached row	N	N	N	A <sup>11</sup>	B <sup>11</sup>	N	N
11.21	Two units; side-by-side	N	N	N	A <sup>11</sup>	В11	N	N
11.22	Two units; one above the other	N	N	N	A <sup>11</sup>	В <sup>11</sup>	N	N
11.31	Apartments; walk-up	N	N	N	A <sup>11</sup>	В 11	N	N
11.32	Apartments; elevator	N	N	N	A <sup>11</sup>	В11	N	N
12	Group quarters	N	N	N	A <sup>11</sup>	B11	N	N
13	Residential hotels	N	N	N	A <sup>11</sup>	B <sup>11</sup>	N	N
14	Mobile home parks or courts	N	N	N	N	N	N	N
15	Transient lodgings	N	N	N	A <sup>11</sup>	B <sup>11</sup>	C <sup>11</sup>	N
16	Other residential	N	N	N <sup>1</sup>	A 11	B <sup>11</sup>	N	N
20	Manufacturing							
21	Food and kindred products; manufacturing	N	N <sup>2</sup>	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>
22	Textile mill products; manufacturing	N	N <sup>2</sup>	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>
23	Apparel and other finished products made from fabrics, leather, and similar materials; manufacturing	N	N	N <sup>2</sup>	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>
24	Lumber and wood products (except furniture); manufacturing	N	y <sup>2</sup>	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>
25	Furniture and fixtures; manufacturing	N	Y <sup>2</sup>	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>
26	Paper and allied products; manufacturing	N	Y <sup>2</sup>	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>
27	Printing, publishing, and allied industries	N	Y <sup>2</sup>	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>
28	Chemicals and allied products; manufacturing	N	N	N <sup>2</sup>	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>



Table 3-1. USAF Recommended Land Use Compatibility Guidelines in Relation to APZs and Noise Zones (continued)

Land Use		APZs			Noise Zones			
SLUCM No.	Name	CZ	APZ I	APZ II	65-69 dBA	70-74 dBA	75–79 dBA	80+ dBA
29	Petroleum refining and related industries	N	N	N	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>
30	Manufacturing				7			
31	Rubber and misc. plastic products; manufacturing	N	N <sup>2</sup>	N <sup>2</sup>	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>
32	Stone, clay, and glass products manufacturing	N	N <sup>2</sup> .	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>
33	Primary metal industries	N	N <sup>2</sup>	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y 14
34	Fabricated metal products; manufacturing	И	N <sup>2</sup>	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>
35	Professional, scientific, and controlling instruments; photographic and optical goods; watches and clocks; manufacturing	N	N	N <sup>2</sup>	Y	A	В	N
39	Miscellaneous manufacturing	N	Y <sup>2</sup>	Y <sup>2</sup>	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>
40	Transportation, communications and utilities					ř	- s	
41	Railroad, rapid rail transit, and street railroad transportation	$N^3$	Y <sup>4</sup>	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y. 14
42	Motor vehicle transportation	N <sup>3</sup>	Υ	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>
43	Aircraft transportation	N <sup>3</sup>	Y <sup>4</sup>	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>
44	Marine craft transportation	N <sup>3</sup>	Y <sup>4</sup> .	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y 14
45	Highway and street right- of-way	N <sup>3</sup>	Y	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y 14
46	Automobile parking	N <sup>3</sup>	Y <sup>4</sup>	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>
47	Communications	N <sup>3</sup>	Y <sup>4</sup>	Y	Y	A <sup>15</sup>	B <sup>15</sup>	N
48	Utilities	N <sup>3</sup>	Y <sup>4</sup>	Y	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>
49	Other transportation communications and utilities	N <sup>3</sup>	Y <sup>4</sup>	Y	Y	A <sup>15</sup>	B <sup>15</sup>	·N
50	Trade					-	10	, ,,
51	Wholesale trade	N	Y <sup>2</sup>	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>



Table 3-1. USAF Recommended Land Use Compatibility Guidelines in Relation to APZs and Noise Zones (continued)

	Land Use		APZs	*	Noise Zones			
SLUCM No.	Name	CZ	APZ I	APZ II	65-69 dBA	70–74 dBA	75-79 dBA	80+ dBA
52	Retail trade: building materials, hardware, and farm equipment	N	Y <sup>2</sup>	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>
53	Retail trade: general merchandise	N	N <sup>2</sup>	y <sup>2</sup>	Y	A	В	N
54	Retail trade: food	Ν.	N <sup>2</sup>	Y <sup>2</sup>	Y	Α	В	N
55	Retail trade: automotive, marine craft, aircraft, and accessories	N	Y <sup>2</sup>	Y <sup>2</sup>	Y	Α	В	-N
56	Retail trade: apparel and accessories	N	N <sup>2</sup>	Y <sup>2</sup>	Y	A	В	N
57	Retail trade: furniture, home furnishings, and equipment	N	N <sup>2</sup>	Y <sup>2</sup>	Y	. А	В	N
58	Retail trade: eating and drinking establishments	N	N	N <sup>2</sup>	Y	A	В	N
59	Other retail trade	N	N <sup>2</sup>	Y <sup>2</sup>	Y	A	В.	N
60	Services	П						
61	Finance, insurance, and real estate services	N	N	Y <sup>6</sup>	Y	A	В	N
62	Personal services	N	N	Y <sup>6</sup>	Y	A	В	N
62.4	Cemeteries	N	Y <sup>7</sup>	Y <sup>7</sup>	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14,2</sup>
63	Business services	N	y <sup>8</sup>	Y <sup>8</sup>	Y	A	В	N
64	Repair services	N	Y <sup>2</sup>	Y	Y	Y <sup>12</sup>	Y <sup>13</sup>	Y <sup>14</sup>
65	Professional services	N	N	Y <sup>6</sup>	Y	A	В	N
65.1	Hospitals, nursing homes	N	N	N	A*	B*	. N	N
65.1	Other medical facilities	N	N	N	. Y	A	В	N
66	Contract construction services	N	Y <sup>6</sup>	Υ.	Y	A	В	N
67	Governmental services	N	N	y <sup>6</sup>	Y* .	A*	B*	N
68	Educational services	N	N	N	A*	В*	N	N
69	Miscellaneous services	N	N <sup>2</sup>	Y <sup>2</sup>	Y	A	. B	N
70	Cultural, entertainment, and recreational						1 1	
71	Cultural activities (including churches)	N	N	N <sup>2</sup>	A*	B*	N	И
71.2	Nature exhibits	N	Y <sup>2</sup>	Y	Y*	N	N	N
72	Public assembly	N	N	N	Y	N	N	N
72.1	Auditoriums, concert halls	N	N	N	Α	В	N	N



Table 3-1. USAF Recommended Land Use Compatibility Guidelines in Relation to APZs and Noise Zones (continued)

Land Use			APZs		Noise Zones			
SLUCM No.	Name	CZ	APZ I	APZ II	65-69 dBA	70–74 dBA	75-79 dBA	80+ dBA
72.11	Outdoor music shell, amphitheaters	N	N	N	N	N	N	N
72.2	Outdoor sports arenas, spectator sports	Ñ	N	N	Y <sup>17</sup>	Y <sup>17</sup>	N	N
73	Amusements	N	N	Y	Y	Y	N	N
74	Recreational activities (including golf courses, riding stables, water recreation)	N	Y <sup>8,9,10</sup>	Y	Y*	A*	В*	И
75	Resorts and group camps	N	N	N	Y*	Y*	N	N
76	Parks	N	Y <sup>8</sup>	Y <sup>8</sup>	Υ*	Y*	N	N
79	Other cultural, entertainment, and recreation	N	Y <sup>9</sup>	y <sup>9</sup>	Υ*	Y*	N	N
80	Resources production and extraction							
81	Agriculture (except livestock)	Y <sup>16</sup>	Y	Y	Y 18	Y <sup>19</sup>	Y <sup>20</sup>	Y <sup>20,21</sup>
81.5 to 81.7	Livestock farming and animal breeding	N	Y	Y	Y <sup>18</sup>	Y <sup>19</sup>	Y <sup>20</sup>	Y <sup>20,21</sup>
82	Agricultural-related activities	N	· Y <sup>5</sup>	Y	Y <sup>18</sup>	Y <sup>19</sup>	N	N
83	Forestry activities and related services	N <sup>5</sup>	Y	Y	Y <sup>18</sup>	Y <sup>19</sup>	Y <sup>20</sup>	Y <sup>20,21</sup>
84	Fishing activities and related services	N <sup>5</sup>	Y <sup>5</sup>	Y	Y	Y	Y	Y
85	Mining activities and related services	N	Y <sup>5</sup>	Y	Y	Y	Y	Y
89	Other resources production and extraction	N	Υ5	Y	Y	Y	Y	Y

Source: USURA 1965

#### Key:

SLUCM = Standard Land Use Coding Manual, USURA.

Y = Yes - Land uses and related structures are compatible without restriction.

N = No - L and use and related structures are not compatible and should be prohibited.

Yx = Yes with restrictions - Land use and related structures generally compatible; see notes indicated by the superscript.

 $N^x = No$  with exceptions – See notes indicated by the superscript.

NLR = Noise Level Reduction (NLR) (outdoor to indoor) to be achieved through incorporation of noise attenuation measures into the design and construction of the structures.

A, B, or C = Land use and related structures generally compatible; measures to achieve NLR for A (DNL of 65–69 dBA), B (DNL of 70–74 dBA), C (DNL of 75–79 dBA) need to be incorporated into the design and construction of structures.



- A\*, B\*, and C\* = Land use generally compatible with NLR; however, measures to achieve an overall noise level reduction do not necessarily solve noise difficulties and additional evaluation is warranted. See appropriate notes below.
- \* = The designation of these uses as "compatible" in this zone reflects individual Federal agencies and program considerations of general cost and feasibility factors, as well as past community experiences and program objectives. Localities, when evaluating the application of these guidelines to specific situations, might have different concerns or goals to consider.

#### Notes:

- Suggested maximum density of 1 to 2 dwelling units per acre, possibly increased under a Planned Unit Development where
  maximum lot coverage is less than 20 percent.
- Within each land use category, uses exist where further deliberating by local authorities might be needed due to the variation
  of densities in people and structures. Shopping malls and shopping centers are considered incompatible use in any accident
  potential zone (CZ, APZ I, or APZ II).
- 3. The placement of structures, buildings, or aboveground utility lines in the CZ is subject to severe restrictions. In a majority of the CZs, these items are prohibited. See AFI 32-7060, Interagency and Intergovernmental Coordination for Environmental Planning (USAF 1994), and Unified Facilities Criteria 3-260-01, Airfield and Heliport Planning and Design (USACE 2006) for specific guidance.
- 4. No passenger terminals and no major aboveground transmission lines in APZ I.
- 5. Factors to be considered: labor intensity, structural coverage, explosive characteristics, and air pollution.
- 6. Low-intensity office uses only. Meeting places, auditoriums, and similar structures are not recommended.
- 7. Excludes chapels.
- 8. Facilities must be low-intensity.
- 9. Clubhouse not recommended.
- 10. Areas for gatherings of people are not recommended.
- 11. (a) Although local conditions might require residential use, it is discouraged in DNL of 65-69 dBA noise zone and strongly discouraged in DNL of 70-74 dBA noise zone. The absence of viable alternative development options should be determined and an evaluation should be conducted prior to approvals indicating a demonstrated community need for residential use would not be met if development were prohibited in these zones.
  - (b) Where the community determines the residential uses must be allowed, measures to achieve outdoor to indoor NLR for the DNL of 65–69 dBA noise zone and the DNL of 70–74 dBA noise zone should be incorporated into building codes and considered in individual approvals.
  - (c) NLR criteria will not eliminate outdoor noise problems. However, building location and site planning, and design and use of berms and barriers can help mitigate outdoor exposure, particularly from near ground level sources. Measures that reduce outdoor noise should be used whenever practical in preference to measures that only protect interior spaces.
- 12. Measures to achieve the same NLR as required for facilities in the DNL of 65–69 dBA noise zone must be incorporated into the design and construction of portions of these buildings where the public is received, office areas, noise-sensitive areas, or where the normal noise level is low.
- 13. Measures to achieve the same NLR as required for facilities in the DNL of 70–74 dBA noise zone must be incorporated into the design and construction of portions of these buildings where the public is received, office areas, noise-sensitive areas, or where the normal noise level is low.
- 14. Measures to achieve the same NLR as required for facilities in the DNL of 75-79 dBA noise zone must be incorporated into the design and construction of portions of these buildings where the public is received, office areas, noise-sensitive areas, or where the normal noise level is low.
- 15. If noise-sensitive, use indicated NLR; if not, the use is compatible.
- 16. No buildings.
- 17. Land use is compatible provided special sound reinforcement systems are installed.
- 18. Residential buildings require the same NLR as required for facilities in the DNL of 65-69 dBA noise zone.
- 19. Residential buildings require the same NLR as required for facilities in the DNL of 70-74 dBA noise zone.
- 20. Residential buildings are not permitted.
- 21. Land use is not recommended. If the community decides the use is necessary, personnel should wear hearing protection devices.

Homestead ARB, FL October 2007

4601 Sheridan Street, Suite 401, Hollywood, FL 33021 H Miami-Dade: 305-556-6300 Broward: 954-399-9233 Fax: 954-639-7107 www.myfaba.com

Honorable Rebeca Sosa, Chairwoman and County Commissioners Miami-Dade County Commission 111 NW First Street, 2<sup>nd</sup> Floor Miami, FL 33128

Via-mail only

Re: Support of PAB Recommendations to EAR-based Amendments to Master Plan

Dear Chairwoman Sosa and County Commissioners:

I am writing to you today, to express some concerns and the position of the Miami-Dade Legislative Committee of the Florida Atlantic Building Association (FABA) regarding the EAR-based amendments to the Comprehensive Development Master Plan (CDMP).

FABA supports the Planning Advisory Board (PAB)'s recommended revisions to the staff recommendations for the following reasons:

- The PAB's recommendations provide the County Commission with more flexibility to expand Urban Expansion Area (UEA).
- 2. The PAB's recommendations are the middle of the road option: they would add more land than staff would recommend, but less than the construction industry's numbers indicate should be included. While the industry thinks that even more land should be added to the UEAs, given the now-rising land costs, and their population projection evaluations, the PAB'S recommendations are the minimum which the membership thinks is necessary to retain the land price vs. home prices balance.
- 3. Our concern is driven by the fact that the CMDP requires the County to accommodate the projected population as well as have residential land supply for 15 years. The reason is to retain the proper balance between the cost each family has to pay to rent or buy a home or apartment and actual number of homes or apartments are available or can be built. The number of acres made available by the County on which to build and the cost of a new or existing place directly affects a family's budget: how much will that home or apartment cost to live in each month.
- 4. There could be two approaches to this:
  - a. The County Commission could simply increase the density throughout the county to encourage even more infill development and more mid-rise communities;
  - b. Or, judiciously expand the UEA with additional safeguards for the residents and the County. The PAB's proposal includes such additional criteria, and they would apply to any application which seeks to expand the UEA. Each application must meet the same criteria which include requirements for employment centers, schools, and infrastructure construction, among other things.

County Commission PAB Workshop Page Two September 23, 2013

#### Other issues which FABA wants to stay involved in, include:

- 5. Climate change we want to be part of climate change discussion and analysis tool staff says they will develop for this purpose.
- 6. **Infill development** FABA urges the County Commission to meet with municipalities by the end of 2013, to start work on a study discussed in the EAR report to streamline requirements for residential density for transit-oriented development.

Based on the above, FABA reiterates its support for the PAB recommendations to the EAR report. We thank the Commission and staff for their consideration of industry's views. We stand ready to work with the staff and Commission members to implement these land use requirements in the most cost efficient and meaningful way possible.

Sincerely,

Truly Burton, Executive Vice President and Government Affairs Director



CHAIRMAN'S CIRCLE





BOARD of TRUSTEES



# DEPARTMENT OF THE AIR FORCE AIR FORCE RESERVE COMMAND

18 Sep 13

Colonel Christian G. Funk Commander, 482d Fighter Wing 29050 Coral Sea Blvd, Bldg 360 Homestead ARB FL 33039-1299

The Honorable Carlos Gimenez, Mayor, Miami-Dade County The Miami-Dade County Board of County Commissioners Stephen P. Clark Center, Suite 220 111 N.W. 1st Street Miami, FL 33128

Dear Mayor Gimenez and Members of the Board

This letter is in reference to Application No.1 (*CDMP Preface and Land Use Element*) of the EAR-Based applications to amend Miami-Dade County's Comprehensive Development Master Plan (CDMP), specifically the removal of Parcels 292 and 293 from the Urban Expansion Area.

On 15 April 2013 and 6 May 2013, the Planning Advisory Board (PAB), accepted the recommendations of the Miami-Dade County Planning staff, to adjust the boundaries of the Urban Expansion Area (UEA) in the vicinity of Homestead Air Reserve Base (ARB), as outlined in Application No.1 (Land Use Element) of the Evaluation and Appraisals Report (EAR)-Based Amendment Application. Attachment 1 contains an excerpt from Application No.1 (Figure P, "Proposed Land Use Plan Map Changes", pg. 150), showing the recommended changes to the UEA. In addition to the important conservation impacts of the proposed boundary changes to the UEA, these actions will reduce the potential for incompatible land use around Homestead ARB, will improve safety for military personnel as well as the surrounding communities, and help prevent impediments to military mission sustainment and growth. It is important to note that the existing noise contours, which are based on current flying operations, may expand in the future as mission requirements change. As such, ensuring compatible land use near Homestead ARB could prove beneficial to both the Air Force and Miami-Dade County. County staff and the PAB's recommendations support the long term viability of the base.

On 21 May 2013 (the day before the Board of County Commissioners (BCC) meeting on the subject), Homestead ARB received two letters from the Larsarte Law Firm (Attachments 2 and 3), requesting that the staff-recommended UEA boundary changes be adjusted, both in Parcel 292 and 293. The proposals contained within the Lasarte letters could serve to eventually permit development closer to Homestead ARB in the future, which could impact the ability of the Air Force (and/or the other Armed Forces tenants) to sustain or modify the mission and operations at Homestead ARB, and may increase the potential for land use incompatibility at a later date.

After examining the staff and PAB recommendations, the Board of County Commissioners, at its 22 May 2013 meeting, recommended the transmission of the staff and PAB recommended UEA boundary changes to the Florida Department of Economic Opportunity, which was officially transmitted on 19 June 2013. Homestead ARB strongly believes that the staff, PAB and BCC recommendations, as transmitted to the State on 19 June, best support the long term viability of the base as well as serving to protect military and civilian personnel.

Homestead ARB would like to thank the Planning Division of the Miami-Dade Department of Regulatory and Economic Resources and the Board of County Commissioners for all the work that was performed on these applications. Please contact Mr. Lawrence Ventura at (786) 415-7163 or by e-mail at <a href="mailto:lawrence.ventura@us.af.mil">lawrence.ventura@us.af.mil</a> with any questions.

Sincerely.

CHRISTIAN G. FUNK, Colonel, USAFR Commander

#### 3 Attachments:

- 1. Figure P, page 150, Application No. 1, EAR-Based Amendments
- 2. Letter from Lasarte Law Firm, 17 May 2013, Re: "October 2012 EAR-Based Amendments..."
- 3. Letter from Lasarte Law Firm, 17 May 2013, Re: "Amended Request..."

#### cc:

- 1. Jack Osterholt, Deputy Mayor/Director, Department of Regulatory and Economic Resources, Miami-Dade County
- 2. Mark Woerner, Assistant Director for Planning, Department of Regulatory and Economic Resources, Miami-Dade County
- 3. Bill Pable, Division of Community Development, Department of Economic Opportunity, State of Florida



P. 305.594.2877 F. 305.594.2878 The Lasarte Law Firm 3250 N.E. First Avenue Suite 334 Miami, FL 33137 www.lasartelaw.com

2013 MAY 17 P 3: 34 lix M. Lasarte, Esq. felix@lasartelaw.com

PLANKING & ZONING METROPOLITAN PLANKING SECT

#### VIA HAND DELIVERY

May 17, 2013

Mr. Mark Woerner Metropolitan Planning Section Permitting, Environment and Regulatory Affairs Miami-Dade County 111 NW 1st Street, 12th Floor Miami, Florida 33128

Re: Amended Request / October 2012 EAR-Based Amendments (Application No. 1) / Properties located E/O Fl. Turnpike, W/O SW 97 Ave and S/O SW 248 St in Miami-Dade County, Florida

Dear Mr. Woerner:

We have revised our proposed re-alignment of the boundaries for the Urban Expansion Area (UEA) in this section of the County to address the comments we discussed in our last meeting. I have attached an aerial showing our proposed revised boundaries as Exhibit "A." We would like you for you to please reconsider repositioning the boundaries according to the lines highlighted in blue in the attached Exhibit. Please note that we are not adding areas to the UEA which were previously excluded under the current UEA boundary which is highlighted in red in the attached Exhibit.

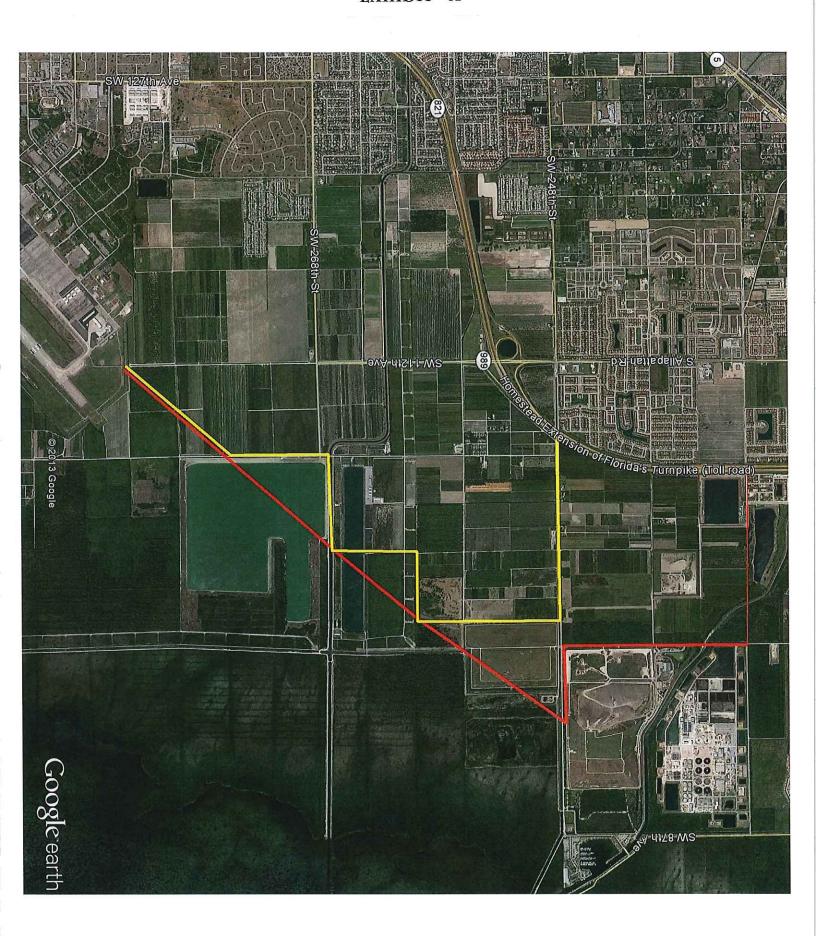
We appreciate your considerate time and attention to this matter. As always, should you have any questions or concerns, please do not hesitate to contact my office.

Sincerely,

THE LASARTE LAW FIRM

Felix M. Lasarte

# EXHIBIT "A"





P. 305.594.2877 F. 305.594.2878 The Lasarte Law Firm 3250 N.E. First Avenue Suite 334 Miami, FL 33137 www.lasartelaw.com

2013 MAY 17 P 3: 34

Felix M. Lasarte, Esq. felix@lasartelaw.com

VIA HAND DELIVERY

PLANNING & ZONING METROPOLITAN PLANNING SECT

May 17, 2013

Mr. Mark Woerner Metropolitan Planning Section Permitting, Environment and Regulatory Affairs Miami-Dade County 111 NW 1st Street, 12th Floor Miami, Florida 33128

Re: October 2012 EAR-Based Amendments / Application No. 1 / Parcels located S/O SW 312<sup>th</sup> Street and E/O SW 142<sup>nd</sup> Avenue in Miami-Dade County, Florida

Dear Mr. Woerner:

We have reviewed your proposed realignment of the boundaries for the Urban Expansion Area (UEA) in this section of the County under Application No. 1 to the October 2012 EAR-Based Amendment Cycle. I am attaching a copy of the new proposed boundaries as Exhibit "A." The purpose of this letter is to request that you please reconsider repositioning the boundaries according to the lines highlighted in yellow in the attached Exhibit "B."

This particular expansion area, which is highlighted in yellow, is located at the intersection of two major section lines (SW 312<sup>th</sup> Street and SW 137<sup>th</sup> Avenue). These parcels of land are surrounded by existing residential and commercial development to the North, East and West and are bordered by a large canal to the South. Additionally, they are located away from the Accident Potential Zones (APZ) of the Homestead Air Reserve Base and away from any future wetlands and CERP Water Management Areas.

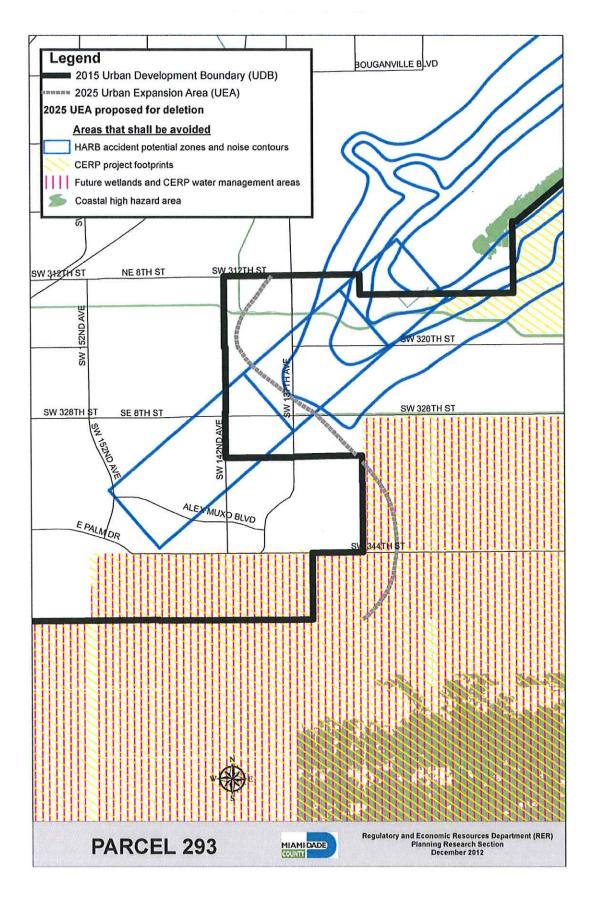
We appreciate your considerate time and attention to this matter. As always, should you have any questions or concerns, please do not hesitate to contact my office.

Sincerely,

THE LASARTE LAW FIRM

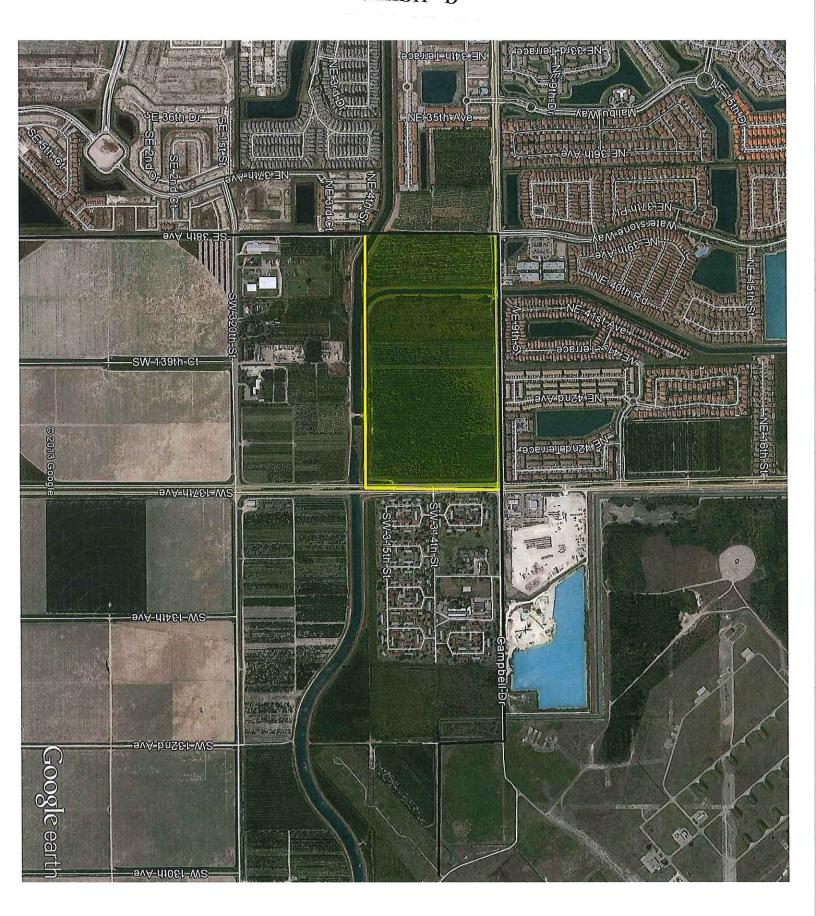
Felix M. Lasarte

### EXHIBIT "A"





# EXHIBIT "B"



254299

2013 JUL 18 P 4: 14

PLANNING & ZONING METROPOLITAN PLANNING SECT

# **COMPLIANCE EVALUATION REPORT**

An Evaluation of Compliance Issues Related to Proposed Amendment No. 1, Part C, (pertaining to Parcel 294) transmitted by Miami-Dade County to the Florida Department of Economic Opportunity

Prepared by Kenneth Metcalf, AICP
Planning Director, Greenberg Traurig, PA

Submitted on Behalf of Limonar Development, Inc. & Wonderly Holdings, Inc July 8, 2013

Kenneth Metcalf, AICP

#### 1.0 Introduction

Miami-Dade County transmitted by letter, dated June 19, 2013, certain proposed comprehensive plan amendments to the Department of Economic Opportunity ("Department"). The subject line of the County's transmittal letter states:

State Coordinated Review of the Proposed October 2012 Cycle Evaluation and Appraisal-Based Applications (EAR-Based Application Nos. 1 through 11) to Amend the Comprehensive Development Master Plan for Miami-Dade County, Florida

As noted in the County transmittal letter, EAR-Based Application No. 1, Part C, proposes to remove Parcels 292, 293, 294 and 295 from the Urban Expansion Area ("UEA") depicted on the Future Land Use Map ("FLUM") of the Comprehensive Development Master Plan ("CDMP").

Limonar Development, Inc., and Wonderly Holdings, Inc., (collectively "Limonar") is the owner of certain property in Miami-Dade County generally situated between S.W. 64<sup>th</sup> Street (north boundary) and Kendall Drive (south boundary) and S.W. 167<sup>th</sup> Avenue (east boundary) and Krome Avenue (west boundary) as depicted on Exhibit 1 ("Limonar Property"). EAR-Based Application No. 1, Part C, proposes to amend the FLUM to remove Parcel 294<sup>1</sup> in its entirety from the UEA. Limonar owns that portion of Parcel 294 which lies between S.W. 64<sup>th</sup> Street and S.W.72<sup>nd</sup> Street, except for a strip of land measuring 660' in width where the West Wellfield is located ("Subject Property"), as shown in orange on attached Exhibit 2. For the reasons outlined in this Compliance Evaluation Report, Limonar objects to EAR-Based Application No. 1, Part C, as related to that component which proposes to remove the Subject Property from the UEA ("Subject Amendment").

The Limonar Property, which includes the Subject Property, presents a unique opportunity for Miami-Dade County to work with Limonar and adjacent property owners to achieve the vision and policy directives of the CDMP, particularly in achieving self-sustaining, transit oriented development projects along Premium Transit Corridors. Limonar has actively acquired lands within the UEA and has undertaken significant planning efforts directed toward the development of a transit oriented, New Town project (Green City) at the west end of the Kendall Premium Transit Corridor. However, the Subject Amendment would exclude a significant portion (280 of 485 acres) of the Limonar Property from the UEA, thereby preventing Limonar from implementing its development plans that were envisioned based on the tenets

<sup>&</sup>lt;sup>1</sup> Parcels 292-295 are parcel reference numbers utilized by Miami-Dade County to define the geographic area of each proposed amendment to the UEA. This parcel identification does not indicate parcel ownership. Proposed amendment 294 would divide the ownership of Limonar, retaining the area south of S.W.72<sup>nd</sup> Street in the UEA and excluding the area between S.W. 64<sup>th</sup> Street and -S.W.72<sup>nd</sup> street.

and specific policy directives of the CDMP. The compliance analysis herein demonstrates that the Subject Amendment is not consistent with these important policy directives and is <u>not</u> In Compliance. Moreover, the Planning Advisory Board voted to recommend, in its capacity as the Local Planning Agency, modification to Parcel 294 to retain the Subject Property within the UEA. Limonar respectfully requests that Miami-Dade County reconsider and withdraw the Subject Amendment in light of the Planning Advisory Board recommendation and in recognition of the compliance concerns raised in this Compliance Evaluation Report, but equally importantly, so that the County may take advantage of a unique opportunity to further protect the West Wellfield, support the County's multimodal strategy for the Kendall Premium Transit Corridor and improve livability in the western Kendall area.

#### 1.1 State Coordinated Review Process

Section 163.3184(2)(c), Florida Statutes, requires that EAR-based amendments undergo the state coordinated review process as set forth in s. 163.3184(4), Florida Statutes. Section 163.3184(c), Florida Statutes, states that written comments submitted by the public shall be sent directly to the local government, but does not preclude the public from submitting written comments directly to the Department; nor does s. 163.3184(4)(d), Florida Statutes, preclude the Department from considering written comments submitted by the public. This Compliance Evaluation Report has been submitted concurrently to Miami-Dade County and the Department for consideration.

Pursuant to s. 163.3184(4)(d)1, Florida Statutes, the state land planning agency (i.e., the Department) must issue a report giving its "objections, recommendations and comments" within 60 days after receipt of the proposed plan amendment. Unlike for amendments subject to the expedited review process, the Department may object to proposed EAR-based amendments based on whether the amendment is "in compliance" as related to supporting data, internal inconsistency and other compliance issues as identified in this evaluation. In addition, the Department must determine whether important state resources or facilities will be adversely impacted by the plan amendment. Based on modeling of wellfield impacts, the West Wellfield could potentially be adversely impacted by the Subject Amendment as further discussed in this evaluation.

### 1.2 Purpose of Compliance Evaluation Report

This Compliance Evaluation Report has been prepared on behalf of Limonar to serve several purposes:

1. Assist the Department in formulating its Objections, Recommendations and Comments (ORC) Report by identifying objections which would form the basis for a Not In Compliance determination with respect to the Subject Amendment;

- 2. Assist the Department in making recommendations that would resolve the compliance issues with respect to the Subject Amendment;
- 3. Assist Miami-Dade staff in formulating its final recommendations to the Board of County Commissioners based on consideration of the Department's ORC Report and this Compliance Evaluation Report;
- 4. Recommend to the Board of County Commissioners that the Subject Amendment be modified to retain the Subject Property within the UEA; and
- 5. Describe Limonar's acquisition and development plans for the Limonar Property and demonstrate that the Subject Amendment would effectively undermine Limonar's effort to implement plans that were envisioned pursuant to the CDMP.

Section 163.3184(4)(e), Florida Statutes, provides that the local government shall consider the report submitted to it by the State Land Planning Agency and "written comments submitted by any other person." Limonar requests that the County carefully consider the objections set forth in this report as well as the significant investments and planning efforts that Limonar has made in pursuit of a progressive development strategy that is fully consistent with the requirements of the CDMP.

### 2.0 Objections to Subject Amendment

The Subject Amendment is not "In Compliance" with statutory requirements. §163.3184(1)(b), Florida Statutes, defines In Compliance as follows:

(b) "In compliance" means consistent with the requirements of ss. 163.3177, 163.3178, 163.3180, 163.3191, 163.3245, and 163.3248, with the appropriate strategic regional policy plan, and with the principles for guiding development in designated areas of critical state concern and with part III of chapter 369, where applicable.

The following objections identify compliance issues in accordance with the above definition and relevant statutory requirements.

### Objection 1. Data and Analysis.

The Subject Amendment is not based on relevant and appropriate data as required by §163.3177(1)(f), Florida Statutes. This paragraph further requires that:

To be based on data means to react to it in an appropriate way and to the extent necessary indicated by the data available on that particular subject at the time of adoption of the plan or plan amendment at issue. The supporting analysis set forth in the amendment package does not react appropriately to the data. The Subject Property is located within the West Wellfield Protection Area. Miami Dade County Department of Regulatory and Economic Resources — Planning Division staff ("planning staff") cite protection of the West Wellfield as the primary rationale for excluding the Subject Property from the UEA. However, no supporting data or related analysis has been presented to support the exclusion of all urban development from the portion of the West Wellfield Protection Area that occurs on the Subject Property.

The Miami Dade Evaluation and Appraisal Report (EAR) describes the County's process for determining development capacity within the UDB. It states on p. 1.1-6, that:

Development capacity is the ability of land without an existing use to accommodate greater development. It is simply developable vacant land, without severe physical constraints (size, shape, accessibility), legal restrictions (dedicated platted areas like landscape parcels, entrances, lakes, or right of way and easements, etc.) or environmental constraints (conservation areas, environmentally sensitive parcels, preserves, etc.) and finally ownership limitations (government owned properties, private institutionally owned properties, community associations), which might have a future use different to residential, industrial or commercial.

None of these constraints exist or apply to the Subject Property, except that the property has not yet been included within the UDB to allow for an urban FLUM land use category designation. Once the need for additional lands in the UDB is triggered pursuant to Policy LU-8F, the Subject Property would qualify for inclusion within the UDB based on Policy LU-8G and would be counted toward development capacity based on the assigned FLUM designation. Development constraints as identified in the UDB development capacity methodology would not apply, except as to industrial uses.

The EAR also discusses the methodology for considering inclusion of properties within the UEA. Page 1.1-45 describes the County's process for evaluating vacant land during each cycle and for reevaluating the UEA boundaries. It states:

The County also reassesses the feasibility of utilizing the Urban Expansion Areas (UEAs) for development, given new considerations.

#### The narrative further states that:

Areas that should be excluded from the UEA could include Environmentally Endangered Lands (EEL) acquisition project areas, footprints of Comprehensive Everglades Restoration Plan properties and related areas, wetlands, wellfield

protection areas, saltwater intrusion areas, 100-year floodplains, natural forest areas, accidental zones around Homestead Air Reserve Base, and prime agricultural lands.

The narrative also specifically discusses the West Wellfield. It states:

Roughly the northern half of the UEA that borders the north side of theoretical 112<sup>th</sup> Street is within the West Wellfield Protection Area. The County Code establishes some protections for this area, through the restriction of certain land uses and hazardous materials management, to protect the County's drinking water supply. Some of this acreage, therefore, may not be suitable for development, or may be suitable for development specifically designed for this sensitive area.

As described by planning staff, the EAR process is designed to consider changed circumstances or conditions that warrant a change in policy direction in the comprehensive plan. Section 163.3191(3) states:

Local governments are encouraged to comprehensively evaluate and, as necessary, update comprehensive plans to reflect <u>changes in local conditions</u>. (emphasis added)

However, the EAR analysis does not identify any changed conditions or new considerations that warrant the exclusion of the Subject Property from the UEA. Limonar does not object to the proposed amendment to Policy LU-8G, nor does it object to the exclusion of that portion of Parcel 294 which occurs north of S.W. 64<sup>th</sup> Street; however, it does object to the arbitrary exclusion of the Subject Property from the UEA.

The above EAR finding is correct that the County Code restricts certain land uses and limits hazardous materials. However, the restricted land uses are industrial in nature or involve certain special commercial uses, such as dry cleaners or junkyards, which pose a threat to underlying groundwater resources. All residential uses and most commercial uses are allowed, subject only to restrictions regarding the amount of sewage flow which may occur within specified groundwater travel contours. Pursuant to Chapter 24 of the County land development regulations, the level of protection for the West Wellfield increases with proximity to the wellfield head; sewage flow limitations are increasingly restrictive with proximity to the wellfield. For example, the maximum allowable sewer flow within the 30-day groundwater travel contour is 1,600 GPD/acre, which decreases to 850 GPD/acre within the 10-day contour. Thus, we concur with the conclusion that the West Wellfield Protection Area is not suitable for specifically prohibited industrial uses, but contest that the West Wellfield Protection Area south of S.W. 64<sup>th</sup> Street is not suitable in general for urban development.

No data has been cited and analyzed to indicate or confirm that urban development with appropriate limitations required by the CDMP and County Code has caused adverse water quality impacts to groundwater resources within wellfield protection areas. To the contrary, a 1996 study<sup>2</sup> modeled alternatives to reduce potential contamination and determining that urban development reduces potential risk as compared to agricultural activities. Monitoring and Data programs for the Conservation Element define monitoring requirements for groundwater and wellfields. The amendment package does not cite to any exceedances based on the monitoring data to indicate a changed condition that supports the Subject Amendment or that confirms that the existing wellfield protection program, as defined by the CDMP, has not been effective. The general conclusion that the West Wellfield Protection Area is not suitable for urban development is not based on relevant and appropriate data as required by \$163.3177(1)(f), Florida Statutes.

The Biscayne Aquifer serves as the primary potable water drinking source for some 3 million people. As such, it constitutes an important state resource which should be protected from adverse impacts. Data and supporting analysis has not been presented to demonstrate that the Subject Amendment, which would continue agricultural uses in the West Wellfield on an indefinite basis, does not pose a long term threat to the Biscayne Aquifer from adverse impacts associated with fertilizers, pesticides and animal waste.

# Objection 1.1 Inaccurate Data Generalizations Regarding the UEAs and Specifically the Subject Property

The specific findings documented in Amendment Application No. 1, Part C, and the related exhibits also indicate that some confusion may have inadvertently occurred in regard to the designations which precisely apply to the Subject Property. Miami Dade County Department of Regulatory and Economic Resources — Planning Division staff ("planning staff") provided a powerpoint presentation (stamped as Exhibit J in the amendment package) at the same hearing indicating that Parcel 294 "removes portions of the UEA" from the West Wellfield Protection Area, East Coast Buffer Area and South Florida Water Management District property ownership within the area. This general summation did not adequately describe the boundaries of these areas within Parcel 294.

As noted in the minutes from the April 19, 2013 Planning Advisory Board hearing on Application No. 1, planning staff stated generically that the amendments:

<sup>&</sup>lt;sup>2</sup> Tsihrintzis, V. A., Fuentes, H. R. and Gadipudi, R. K. (1996), MODELING PREVENTION ALTERNATWES FOR NONPOINT SOURCE POLLUTION AT A WELLFIELD IN FLORIDA. JAWRA Journal of the American Water Resources Association, 32: 317–331. doi: 10.1111/j.1752-1688.1996.tb03454.x.

"...adjust the 2015 Urban Expansion Area boundaries by excluding lands with development constraints from the UEA" and further described that constraints included "CERP project footprints, the Coastal High Hazard Areas, future wetlands and CERP water management areas, Homestead Air Reserve Base (HARB) noise contours, Everglades buffer areas, and the Northwest Wellfield Area." When questioned by a Board member regarding why the Subject Property would be excluded from the UEA, planning staff explained that "staff considered protecting areas within the West Wellfield Protection Area and the Everglades Buffer Areas from development."

However, the Subject Property is not located within the Everglades Buffer Areas which are depicted on Exhibit 3, which is a map showing the Everglades Buffer Area, Future Wetlands and CERP water management areas and CERP project footprints, none of which occur on the Subject Property. Importantly, this County map incorrectly labels the West Wellfield Protection Area as the Northwest Wellfield Protection Area, again perhaps causing confusion during the public hearing process, considering that the Northwest Wellfield Protection Area is prohibited from inclusion within the UDB and by extension the UEA.

Application No 1, p. 173, Under Reasons for Change, cites to the Major Issue discussion in the EAR, as reviewed above, and states in regard to Parcel Nos. 292 through 295 that:

"...each UEA is constrained by the existence of wetlands, wellfield protection areas, EEL properties within the UEAs, among other factors, such as the Comprehensive Everglades Restoration Project (CERP), which are areas that shall either not be considered for urban expansion or should be avoided, pursuant to Land Use Element Policy LU-8G. Recommendation No. 4 provides that each UEA should be modified to appropriately address the provisions of Policy LU-8G and other factors that constrain development within the UEAs, and to modify the UEAs as necessary to ensure that UEA land identified for future urban expansion is free of these constraints."

The analysis again overgeneralizes perhaps simply due to the phraseology. In any case, the finding gives the impression that all of the various constraints apply to all of the UEAs and that the constraints apply throughout the identified parcel. This does not accurately summarize the data sets and applicable conditions. The Subject Property does not include any of the constraints, except for the purported West Wellfield Protection Area constraint, which as previously stated does not constrain residential and commercial land uses. Given the phraseology, the finding could also be misconstrued to mean that Policy LU-8G requires wellfields to be prohibited from consideration or avoided in determining lands for inclusion within the UDB, hence supporting a finding that such lands should be excluded from the UEA.

However, Policy LU-8G prohibits only the Northwest Wellfield Protection Area and does prohibit the West Wellfield Protection Area within the UDB or even require that the County avoid its inclusion.

The generalized analysis does not react appropriately to the data and is not consistent with §163.3177(1)(f), Florida Statutes.

### Objection 2. Internal Consistency

The Subject Amendment is not internally consistent with the CDMP policies addressing UDB expansion, designation of the UEA and wellfield protection. §163.3177(2), Florida Statutes, requires internal consistency among the elements of the CDMP and that maps depicting future conditions must reflect the principles, guidelines, and standards within all elements. §163.3177(2) states:

(2) Coordination of the several elements of the local comprehensive plan shall be a major objective of the planning process. The several elements of the comprehensive plan shall be consistent. Where data is relevant to several elements, consistent data shall be used, including population estimates and projections unless alternative data can be justified for a plan amendment through new supporting data and analysis. Each map depicting future conditions must reflect the principles, guidelines, and standards within all elements, and each such map must be contained within the comprehensive plan.

The CDMP includes a section starting at Paragraph No. 100, entitled, *Interpretation of the Land Use Plan Map: Policy of the Land Use Element.* Although not formatted as a policy, the paragraphs in this section are adopted provisions of the CDMP, are deemed an integral component of the land use element as described by Objective LU-5 and are subject to the same statutory requirements as policies. §163.3177(1), Florida Statutes, requires that the CDMP include principles, guidelines, standards, and strategies for the orderly development of the community, and §163.3177(1)(c) further provides that guidelines and principles are typically expressed as goals, objectives and policies, but are not required to be presented in that format. For the purpose of this report, the paragraphs in this section of the CDMP and all other adopted provisions that are not defined as goals, objectives and policies shall be considered as guidelines and/or principals as appropriate, and are evaluated for compliance in the same manner as required for policies.

Guideline/Principal No. 137, under this section of the CDMP, states that:

The Land Use Plan Map also contains a year 2030 Urban Expansion Area (UEA) Boundary. The UEA is comprised of that area located between the 2020 UDB

and the 2030 UEA Boundary. The Urban Expansion Area is the area where current projections indicate that future development beyond the 2020 UDB is <u>likely to be warranted</u> sometime between the year 2020 and 2030. Until these areas are brought within the year 2020 UDB through the plan review and amendment process, they are allowed to be used in a manner consistent with provisions set forth for lands designated as "Agriculture" or the applicable "Open Land Area." (emphasis added)

This guideline or principle does not provide criteria for the location of the UEA, but instead indicates that the UEA identifies areas where current projections indicate development is likely to be warranted. As discussed in Objection 3, the CDMP does not provide predictable guidelines and standards for determining how the UEA should be designated. In the absence of specific direction, the only reasonable interpretation that achieves internal consistency in implementing the CDMP would be to follow the criteria set forth in Policy LU-8G given that these criteria determine lands which are eligible for inclusion within the UDB. Since the purpose of the UEA is to identify areas for eventual inclusion within the UDB, the UEA lands must necessarily be consistent with the UDB criteria. Planning staff recognized this point in proposing the amendment to Policy LU-8G to prioritize agricultural lands within the UEA for inclusion within the UDB. The amendment was necessary considering that Agricultural lands comprise the vast majority of acreage within the UEA, but were previously listed as a geographic area to be avoided for inclusion in the UDB. This was an inherent conflict which requires reconciliation by interpreting the UEA lands as an exception to Policy LU-8G. The amendment to Policy LU-8G corrects this inconsistency.

Importantly, as part of the internal consistency requirement, §163.3177(1), Florida Statutes, requires that the comprehensive plan include principles and standards to guide future decisions in a consistent matter and describe how program, activities and land development regulations will be implemented in a consistent manner. The Subject Amendment is not internally consistent with the guideline above and related Policy LU-8G. As previously noted, this policy does not *prohibit* consideration of lands within the West Wellfield Protection Area from inclusion within the UDB or even require that the County *avoid* the protection area in extending the UDB. Based on the adopted criteria, only those locations north of S.W. 64<sup>th</sup> Street would be excluded from the UEA. Moreover, Policy LU-8G, defines criteria for prioritizing lands to be included within the UDB. Lands within the West Wellfield Protection Area south of S.W. 64<sup>th</sup> Street are consistent with the criteria for prioritizing their inclusion within the UDB, and therefore, by logical and consistent extension, are suitable for designation within the UEA. Conversely, it is not internally consistent with Policy LU-8G and the above guideline, to arbitrarily exclude that portion of the West Wellfield Protection Area which is otherwise

prioritized for inclusion by Policy LU-8G and not affected by the criteria for avoiding or prohibiting inclusion.

Lands within the West Wellfield Protection Area south of S.W. 64th Street, including the Subject Property, do not trigger the criteria for prohibiting or avoiding inclusion within the UDB (Policy LU-8G.i and ii) as follows (policy requirement in **bold**/findings in *italics*):

### i) The following areas shall not be considered:

- a. Lands within the Northwest Wellfield. The Subject Property is located within the West Wellfield Protection Area (#19) and not located within the Northwest Wellfield (#13) as documented by Figure 4, attached as Exhibit 4.
- b. Water Conservation Areas, Biscayne Aquifer Recharge Areas, and Everglades Buffer Areas. The Subject Property is not located within these areas as documented by attached Exhibit 3 and Exhibit 3.A.
- c. **The Redland Area south of Eureka Drive.** The Subject Property is not located within this area.
- d. Areas within the Accident Potential Zones of HARB. The Subject Property is not located within this area.

### ii) The following areas shall be avoided:

- a. Future Wetlands designated in the Conservation and Land Use Element and land designated as Agriculture on the Land Use Plan map, except where located in designated Urban Expansion Areas (UEAs). The Subject Property is not located within Future Wetlands as documented by Figure 14, attached as Exhibit 3.B. The Subject Property is designated as Agriculture on the Land Use Plan map, but is also currently located within the UEA. The proposed amendment to LU-8G corrects this inconsistency as previously discussed.
- b. Coastal High Hazard Areas. The Subject Property is not located in these areas.
- c. Comprehensive Everglades Restoration Plan project footprints delineated in Tentatively Selected Plans and/or Project Implementation Reports. The Subject Property is not located within CERP project footprints as documented by Exhibit 3. However, Exhibit 3 identifies a small area in yellow extending south beyond S.W. 64<sup>th</sup> Street which is labeled as "CERP project footprint". This portion of the CERP project footprint does not occur within the Subject Property, but rather is located within the 660' wide strip just north of the West Wellfield. Attached Exhibit 3.C. is a map downloaded from the interactive GIS portal on <a href="www.Everglades.org">www.Everglades.org</a>, the official CERP website jointly maintained by the U.S. Army Corps of Engineers and SFWMD, which depicts the CERP footprint and shows the West Miami Dade Reuse site just north of the West Wellfield, which is the small area shown in yellow on Exhibit 3.

Lands within the West Wellfield Protection Area south of S.W. 64<sup>th</sup> Street, including the Subject Property, reflect the prioritization criteria for inclusion within the UDB (Policy LU-8G.iii) as follows (policy requirement in **bold**/findings in *italics*):

- a) Planning Analysis Tiers with earliest depletion years: Located within the western subtier of the South Central Tier as shown on Figure 2, attached as Exhibit 5. Table 6, shown in attached Exhibit 6, indicates that this tier has the earliest depletion year (2024) and that the western portion of the tier will deplete at an earlier year than the eastern portion.
- b) Lands within the UEA and contiguous to the UDB: The Subject Property is within the UEA and contiguous to the UDB as shown on Exhibit 2.
- c) Locations within one mile of a planned urban center or extraordinary transit service: Figure 3 (from Application No. 2), attached as Exhibit 8, confirms that Kendall Drive is a designated Premium Transit Corridor, which is defined by Policy TC-1B as extraordinary transit service. Exhibit 7 confirms that the transit stop at the west end of the Kendall Corridor is located within one mile of the Subject Property. Figure S, attached as Exhibit 7.A., documents the location of Planned Urban Centers. As shown, a Community Urban Center³ is located about one mile east of S.W. 167<sup>th</sup> Avenue, placing it approximately two miles (driving distance) from the Subject Property. However, this spacing is appropriate considering that Green City should be designated as a Metropolitan Urban Center upon inclusion into the UDB and would provide a much needed western, TOD anchor for the Kendall Premium Transit Corridor as further discussed in Section 3 of this report.
- d) Locations having projected surplus service capacity or where necessary facilities and services can be readily extended: Urban infrastructure extends to the western edge of the UDB in this general area and could be readily extended to serve the Subject Property as indicated by Figure 3-2, attached as Exhibit 9. In addition, it is important to recognize that Green City will provide significant opportunities for the inclusion of clustered public facilities and civic uses that will be accessible by transit for Green City residents and western Kendall residents.

The analysis confirms that the West Wellfield Protection Area south of S.W. 64<sup>th</sup> Street, including the Subject Property, fulfills the requirements for inclusion within the UDB. The Subject Amendment is internally inconsistent with Policy LU-8G and by extension with the CDMP guideline as previously cited. It should also be recognized that the Subject Amendment is more proximate to planned urban centers, extraordinary transit service, and urban

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<sup>&</sup>lt;sup>3</sup> Guideline No. 122 indicates that Planned Community Centers shall have a radius of 700-1,800'. The Subject Property is just over a mile from this center measured in a straight line. It would potentially be within one mile if the center were expanded beyond the minimum required radius.

infrastructure as compared to other existing UEA lands that are not proposed for removal and as compared to lands that are proposed for inclusion in the amendment package. As the Subject Amendment involves a change to an adopted CDMP map, it is required to reflect the principles, guidelines and standards of the CDMP. The Subject Amendment does not comply with this requirement.

### 2.1 CDMP Protection of Wellfield Protection Areas

It is also important to recognize that the CDMP defines the policies, principles and standards for protecting the West Wellfield from incompatible land uses in accordance with §163.3177(d) 2, Florida Statutes, which states:

2. The element must contain principles, guidelines, and standards for conservation that provide long-term goals and which:

\*\*\*

b. Conserves, appropriately uses, and protects the quality and quantity of current and projected water sources and waters that flow into estuarine waters or oceanic waters and protect from activities and land uses known to affect adversely the quality and quantity of identified water sources, including natural groundwater recharge areas, wellhead protection areas, and surface waters used as a source of public water supply. (emphasis added)

The CDMP protects the West Wellfield through numerous objectives, policies, guidelines and standards, including, but not limited to:

- Policies LU-3B and LU-9B which provide for the protection of wellfields from incompatible land uses and by adoption of appropriate implementing regulations, which are further defined in the references below;
- Land Use Guideline Nos. 118, 119, 157 and 168 which recognize land use restrictions requires to ensure compatibility with protection of wellfields;
- Objectives CON-2 and CON-3 and their implementing policies as related to protection from hazardous wastes;
- Monitoring requirements which recognize the need to collect and analyze data to determine whether regulatory adjustments are required; and
- Policy CON-3d which requires implementation of BMPs for agriculture.

Most importantly, Policy WS-1D clearly provides that the protection of groundwater within wellfield protection areas shall be achieved through land use restrictions and regulatory standards. It states:

The County shall protect the integrity of groundwater within wellfield protection areas by strict adherence to the Wellfield Protection Ordinances, by rigorous enforcement of sanitary sewer requirements, hazardous waste prohibitions, land use restrictions, and all other applicable regulations, and by supporting system improvements which are designed to protect or enhance the raw water supply. Existing and future wellfields of exceptional quality, such as the Northwest Wellfield, shall be particularly addressed in the regulations to prevent degradation of water quality.

The analysis presented on p. B-8 identifies the incompatible land uses and cites to the land use restrictions applicable to the West Wellfield Protection Area as set forth Chapter 24 of the County regulations and listed in Table 2 on p. B-11. The analysis confirms that all wellfields include a protection zone based on the 210-day groundwater travel distance from the wellhead and that land use restrictions are increasingly more stringent the closer a proposed development is to a wellfield. This is the land use compatibility approach required by the CDMP.

Appendix C to Amendment No. 1, Part C, provides a consistency analysis for the amendments. This consistency analysis (p. C-3) again overgeneralizes in citing Policies LU-3 and LU-3B in regard to Parcel 294 by not specifically recognizing that the CERP footprint, Future Wetland designation and other resource protection areas, as cited in those policies and Policy LU-8G, do not apply to the Subject Parcel. The consistency analysis in Appendix C is incomplete, not relevant to the Subject Property and does not support the Subject Amendment. The Subject Amendment is internally inconsistent with the CDMP requirements which define the land use restrictions and implementing regulations required for the West Wellfield and do not require or support the exclusion of the West Wellfield Protection Area from the UEA.

It must also be recognized that the County has supported the adoption of the amendment for Parcel 296, which proposes to include vacant property within the UDB within the Northwest Wellfield and change the future land use designation for the property from Open Lands to Restricted Office and Industrial. The rationale for the amendment is to maintain a consistent land use pattern and resolve the "hole in the donut." This would seem to recognize development expectations based on the surrounding land use patterns and related precedent decisions. While Limonar does not object to the amendment, it seeks comparable and equitable review in recognizing its reasonable development expectations, particularly given that the entirety of the Limonar Property, including the Subject Property, has been in the UEA for decades and is fully consistent with the relevant CDMP requirements pertaining to the West Wellfield.

### 2.2 Consistency with Staged Urbanization of UEA/Agricultural Protection

The West Wellfield Protection Area is not intended or required by the CDMP to remain in agricultural use. Rather, the UEA guidelines and policies anticipate, and are intended to provide for, the staged urbanization of the UEA. This fundamental relationship is recognized by the following policies and guidelines:

- Policy LU-2B and Guideline Nos. 155 and 162 which provide for the staged extension of urban infrastructure to serve the UEA upon inclusion into the UDB;
- Policies WS-1H and CIE-5A which provide for the staged extension of urban infrastructure to serve the UEA upon inclusion into the UDB; and
- Policy TC-4C and Guideline No. 63 which provide for the stage extension of roadways and mass transit to serve the UEA upon inclusion into the UDB.

The Agricultural future land use designation on lands within the West Wellfield Protection Area is not intended to preclude eventual urbanization. Those lands are not comprised of Prime Agricultural lands or even relatively high ranking agricultural lands. The Agricultural Land Study determined the relative suitability of agricultural lands as depicted on the Agriculture Suitability map, attached as Exhibit 10, which indicates that the Subject Property is less suitable for Agricultural lands as compared to lands south of S.W. 112<sup>th</sup> Street. As the map indicates, the suitability of lands for agricultural use generally increases from a north to south direction in the County with the Redlands reflecting the highest suitability. This finding is also reflected in Guideline No. 161 which discusses the potential Ultimate Development Area and recognizes that agricultural lands in south Dade warrant careful planning to progressively extend the UDB westward and avoid premature conversion of the Redlands. Conversely, Guideline 161 identifies the partially drained wetlands within the Bird-Trail Canal basins as the most suitable which would include the lands within the West Wellfield Protection Area. The Subject Amendment is internally inconsistent with the referenced policies and guidelines and is not based on relevant and appropriate data.

### Objection 3. Predictable Standards and Meaningful Guidelines for Implementation

§163.3177(1), Florida Statutes, requires that the CDMP include predictable standards and meaningful guidelines for implementation strategies, including appropriate policy direction for the adoption and implementation of land development regulations. As previously stated, the CDMP does not include specific direction to define the criteria for inclusion of properties within the UEA, unless Policy LU-8G is deemed to also apply for the purpose of determining the eligibility of properties for inclusion within the UDB and the UEA. Such an interpretation is reasonable for the reasons previously discussed and supports the retention of the Subject Property within the UEA. However, if the policy were interpreted to not apply to the UEA, then

this objection applies due to the need for additional policy direction regarding the UEA. Guideline No. 137 does not provide predictable and meaningful guidelines for determining areas "likely to be warranted" for inclusion in the UEA. This guideline does not include any criteria for making that determination. Similarly, CON Objectives 2 and 3 and the implementing policies clearly define an implementation framework for protecting the West Wellfield through regulatory standards, BMPs, and other strategies. However, if these provisions are not interpreted and applied in a manner to define acceptable land uses for inclusion within the UEA, in conjunction with the specific policy direction provided by Policy LU-8G, then this objection applies due to the need for additional clarity to achieve predictable and meaningful implementation guidelines and standards. This objection is presented in this conditional manner because it is our position that the CDMP provides sufficient clarity to warrant and require the retention of the Subject Property in the UEA.

Based on the three objections set forth above, the Subject Amendment should be withdrawn or modified so that the Subject Property remains within the UEA. It is important to recognize that the Local Planning Agency (Planning Advisory Board) recommended that the Subject Property remain with the UEA. The approved motion stated the following in regard to Parcel 294:

Move the northern boundary line of the Urban Expansion Area (addressed by Parcel 294) south from Bird Road/S.W. 42<sup>nd</sup> Street to S.W. 64<sup>th</sup> Street rather than S.W. 72<sup>nd</sup> Street as proposed by staff;

Limonar respectfully requests that the Planning Division recommend adoption of this PAB recommendation to the Board of County Commissioners.

### 3.0 Green City

Limonar has focused on acquiring properties located within the UEA for future urban development in reliance on Miami-Dade County's CDMP which sets forth specific policy direction for prioritizing land to be included within the Urban Development Boundary ("UDB") and for staging the expansion of the UDB to incorporate the UEA into the UDB. Limonar began acquiring property located within the UEA in 1997 and substantially increased its holdings in 2009 for the future development of Green City. As part of its diligence, Limonar examined the CDMP policies to determine the most suitable location for the long term planning and development of a mixed use, new town type development, which is strongly favored by the CDMP, particularly along transit routes. Guided by Policy LU-8G and the various policies and guidelines as cited throughout this Compliance Evaluation Report, Limonar acquired properties that are:

- contiguous to the UDB;
- proximate to planned centers and transit service;
- comprised primarily of uplands/drained wetlands; and
- located in high demand tier/minor statistical area.

### Conversely, Limonar avoided properties that are:

- located within the Northwest Wellfield Protection Area;
- environmentally significant;
- located within Everglades Buffer Areas; or
- located within Comprehensive Everglades Restoration Plan ("CERP") delineated project footprints.

Limonar has made significant investments in reliance on the CDMP and pursued its vision of Green City based on these development backed expectations. The CDMP emphasizes its role in guiding and influencing the private land market. Indeed, this is one of its most important functions as summarized in Guideline No. 13, which states:

The Land Use Element is at the same time both proactive and reactive. It not only reflects previously adopted plans and established land use and zoning patterns, it also establishes the County's policy regarding future zoning and land use patterns. Similarly, while it reflects existing urban service capacities and constraints, it also establishes locations where future service improvements will have to follow. It both reflects, and seeks to promote, activity in the private land market. Recent development trends are carefully considered, however, the Land Use Element endeavors to assert County influences on locations and intensify of future development.

Similarly, Guideline No. 155 emphasizes the importance of the UDB and UEA in defining development expectations in the private market based on County policy direction regarding the location of infrastructure. Of course, this does not mean that the County is forever more precluded from amending its policies, but it should mean that the County will recognize investment-backed development expectations and maintain cornerstone policies, unless significant changes in circumstances or conditions occur that clearly warrant a shift in policy. This has not occurred with regard to the West Wellfield Protection Area and the adoption of the Subject Amendment would impart an unnecessary hardship on Limonar.

Limonar intentionally targeted lands within the Urban Expansion Area to allow sufficient time to assemble and consolidate acreage, conduct preliminary planning studies, and to ultimately work with the County on the eventual land use amendments and implementation regulations required to achieve the vision of Green City - a progressive, sustainable mixed use community

incorporating a transit oriented core downtown and many other planning and design principles espoused by the CDMP. Green City will be the first of its kind in Miami-Dade County with its own overlay zoning designation and new building standards that exceed those set forth in the Miami-Dade County zoning code. Limonar seeks the cooperation and partnership of Miami-Dade County to achieve its vision as a landowner and developer which is fully consistent with the vision and specific policy direction of the CDMP.

Limonar has undertaken preliminary planning studies and conducted intensive charrettes to develop strategies for TOD development, mixed use land use patterns, wellfield protection buffers, wellfield land use allocations based on sewage flow limitations and other key aspects as discussed in the following review. Also, please refer to Exhibit 5 to the amendment package, which includes a powerpoint presentation by Valle Valle & Partners ("Valle Presentation"). The following analysis identifies example CDMP policies which Limonar seeks to implement through Green City.

### 3.1 Transit Oriented Development

Kendall Drive is proposed as the only east-west, Premium Transit Corridor, south of S.W. 8th Street, which provides a direct connection to the Metrorail. The Kendall Transit Corridor is anchored on the east end by the Dadeland Metrorail Station, Downtown Kendall and significant future redevelopment opportunities. A Metropolitan Urban Center has been designated roughly midway between the east and west ends of the corridor as shown in Exhibit 7.A. However, the west end of the corridor currently lacks a comparable TOD anchor, which is critically necessary to the success of the corridor as a premium multimodal facility. Although major trip generators occurs along the corridor, the land use pattern, densities, intensities and development form throughout most of the corridor remains suburban in character and not conducive to transit use. Green City provides a significant opportunity to achieve transit oriented development that will enhance the Kendall Premium Transit Corridor and expand on the west anchor initiated with Kendall Commons. The withdraw of the Subject Amendment is a critical step to support Green City and would be consistent with Objective LU-7 and its implementing policies. See Valle Presentation and Composite Exhibit 11 for related designs and additional details.

### 3.2 Enhanced Wellfield Protection

CDMP Policy CON-2J requires a 500' protection zone for non-community water supplies that serve uses, such as schools. Green City has proposed minimum buffers for sewage-generating uses of 500' and designed buffers ranging between 500' and nearly 1,000', substantially exceeding minimum code requirements. In addition, Green City has designed the land uses and densities within the West Wellfield Protection Area to ensure compliance with sewage

limitation flows in accordance with Chapter 24. Green City provides a significant opportunity to enhance protection of the West Wellfield and implement Objective CON-3 and its implementing policies. See Valle Presentation and Composite Exhibit 11 for related designs and additional details. The design appropriately locates the TOD and most intensive core areas of the project closest to Kendall Drive, which also affords the greatest distance to the wellfield.

# 3.3 Planning for Population Growth, Discouraging Urban Sprawl and Supporting Economic Development

Table 3 shows a year 2025 projected countywide capacity of 20,130 units and a projected annual demand of 11,670 units, indicating countywide capacity will be exhausted during 2027. By 2030, a minimum allocation of over 35,000 dwelling units will be required to satisfy demand. At the minimum average density of 10 units per acre as required by proposed Policy LU-8H(b), and conservatively accounting for 25% set aside for infrastructure and 10% in transitional/vacant use as evaluating by planning staff, a minimum allocation of about 5,400 acres would be required to satisfy the projected demand. While a segment of this demand may be satisfied through intensified redevelopment, the analysis supports retention of the Subject Property within the UEA, particularly when considering the priority given to the South Central tier based on its depletion year.

The CDMP utilizes the UDB and related UEA designation to provide for the staged provision of urban infrastructure as a primary means to discourage urban form. Implementing the existing policies by retaining the Subject Property within the UEA and thereby prioritizing its eventual inclusion within the UDB is consistent with Objectives WS-1 and TC-4. The CDMP also relies on various objectives, policies and guidelines, including Objectives LU-8 and LU-9 and their implementing policies to achieve efficient use of lands, timely conversion of agricultural lands, minimum targeted densities and required urban development form to discourage urban sprawl. These objectives can be most effectively achieved through larger-scale acreage opportunities which provide for economies of scale, agglomeration of supporting economic sectors and greater flexibility to achieve quality design. Green City provides these opportunities which supports retention of the Subject Property based on the requirements of the CDMP.

The Economic Element of the CDMP, Goal II, emphasizes the need to achieve socio-economic objectives including employment opportunities for disadvantaged groups to achieve improved economic mobility. Mixed use development patterns, diverse housing products across income strata, proximate employment and regional accessibility to job centers are all key elements to achieve socioeconomic objectives. Green City incorporates all of these factors in its carefully planned land use allocations, densities and intensities, and design strategies. Moreover, Policy LU-8H achieves long term protection of the agricultural base through attendant TDR requirements. Although the Subject Property does not consist of the higher quality agricultural

lands within Miami Dade County, Green City supports the use of TDRs to achieve balance and will actively work with Miami Dade County to achieve economic objectives as the project ultimate proceeds through land use amendments, zoning overlay review and site plan approval. Green City is consistent with the County's economic goals.

For the sake of brevity, it is not possible to explore all beneficial aspects of Green City in narrative format. Readers are encouraged to review Composite Exhibit 11 for additional details, particularly as related to sustainability strategies related to LEED design, water recycling, and other progressive strategies.

#### 4.0 Conclusion

The Subject Amendment is <u>not</u> In Compliance as defined by §163.3184(1)(b), Florida Statutes, would impart a hardship on Limonar considering its investment-backed expectations reasonably made in reliance on the CDMP and would preclude the ability to develop Green City and achieve numerous important objectives and policies of the CDMP. Limonar respectfully requests that Miami-Dade County withdraw the Subject Amendment and work proactively in partnership with Limonar to jointly plan and ultimately approve development plans for Green City.

### **EXHIBIT "1"**



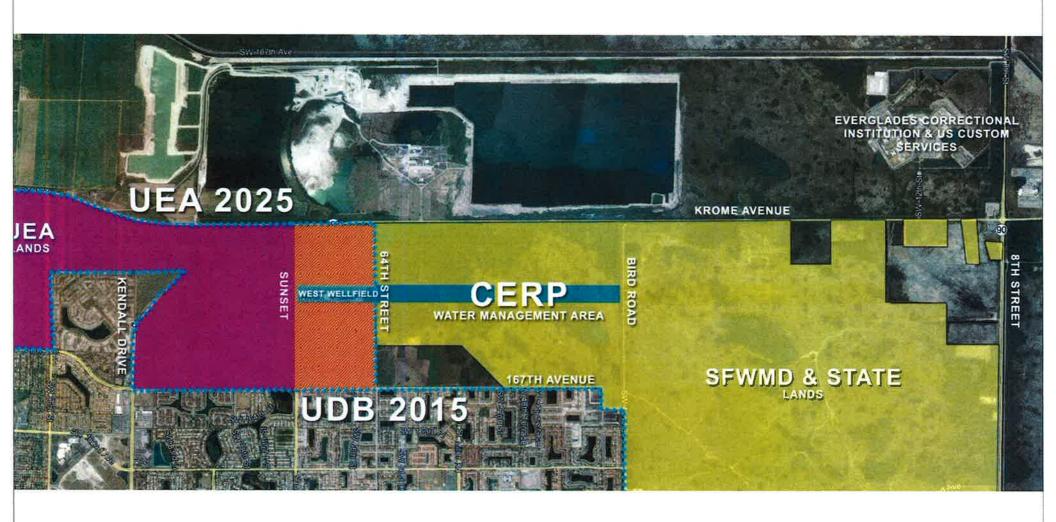
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WH - WONDERLY HOLDINGS LD - LIMONAR DEVELOPMENT LP - LUIS POSADA

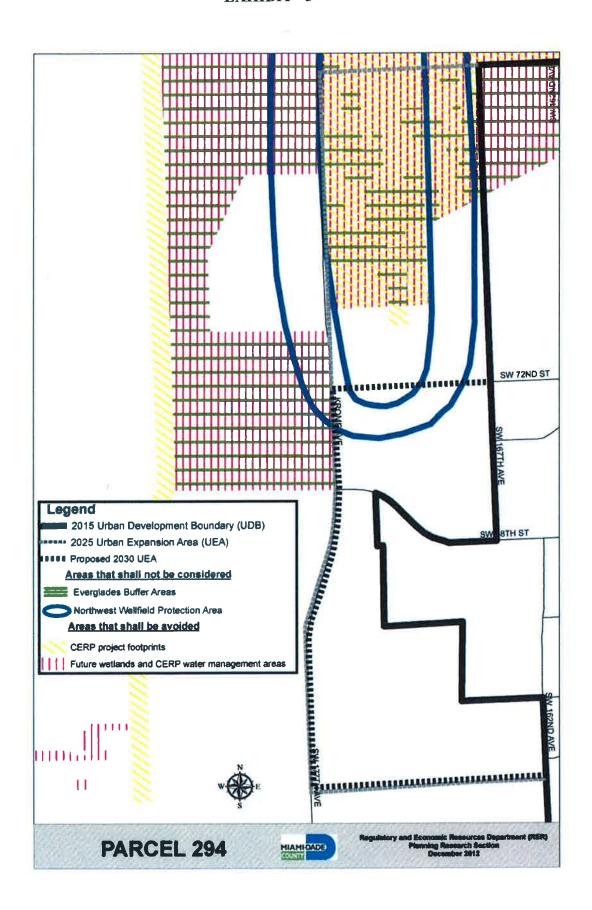
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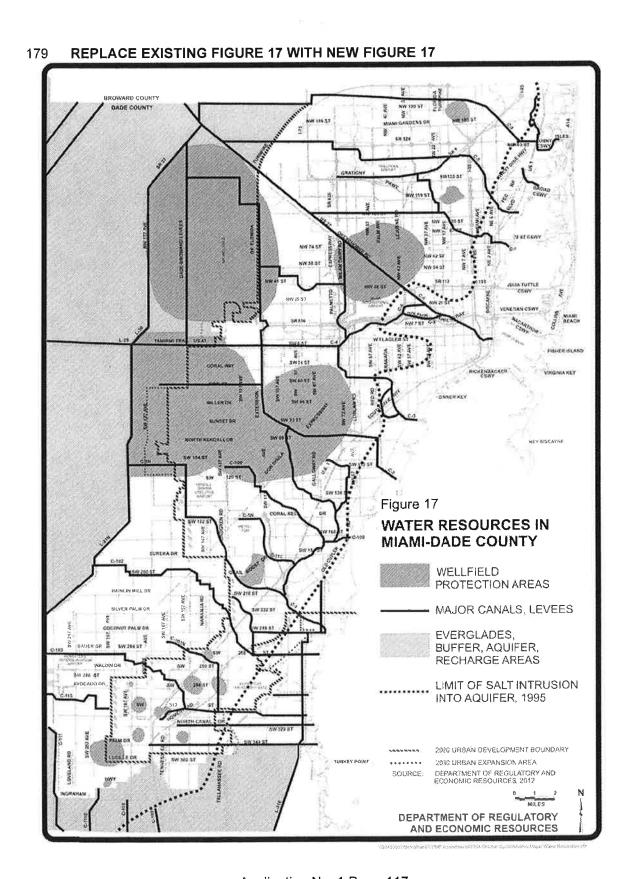


### Parcel No. 294

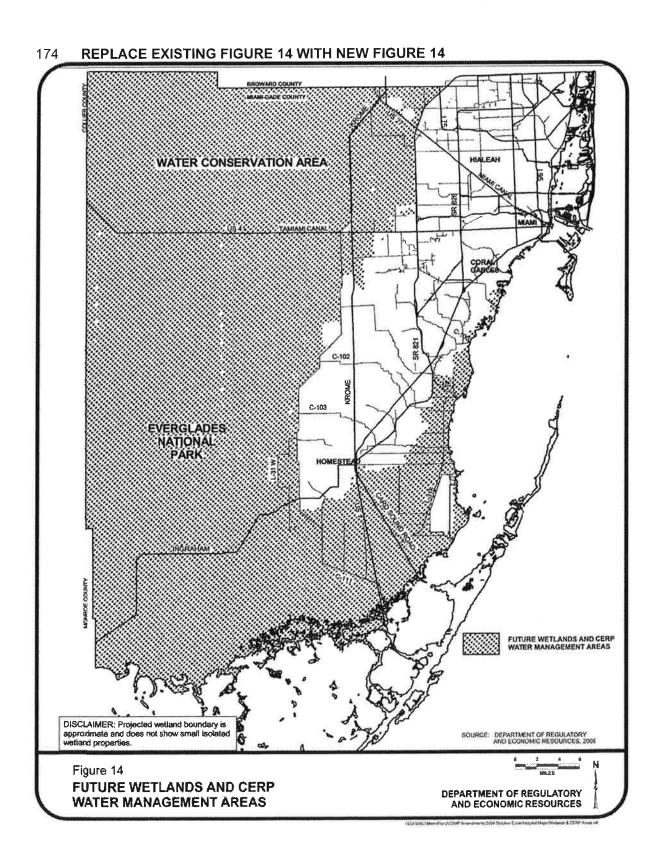


Request to move the UEA to 64th Street





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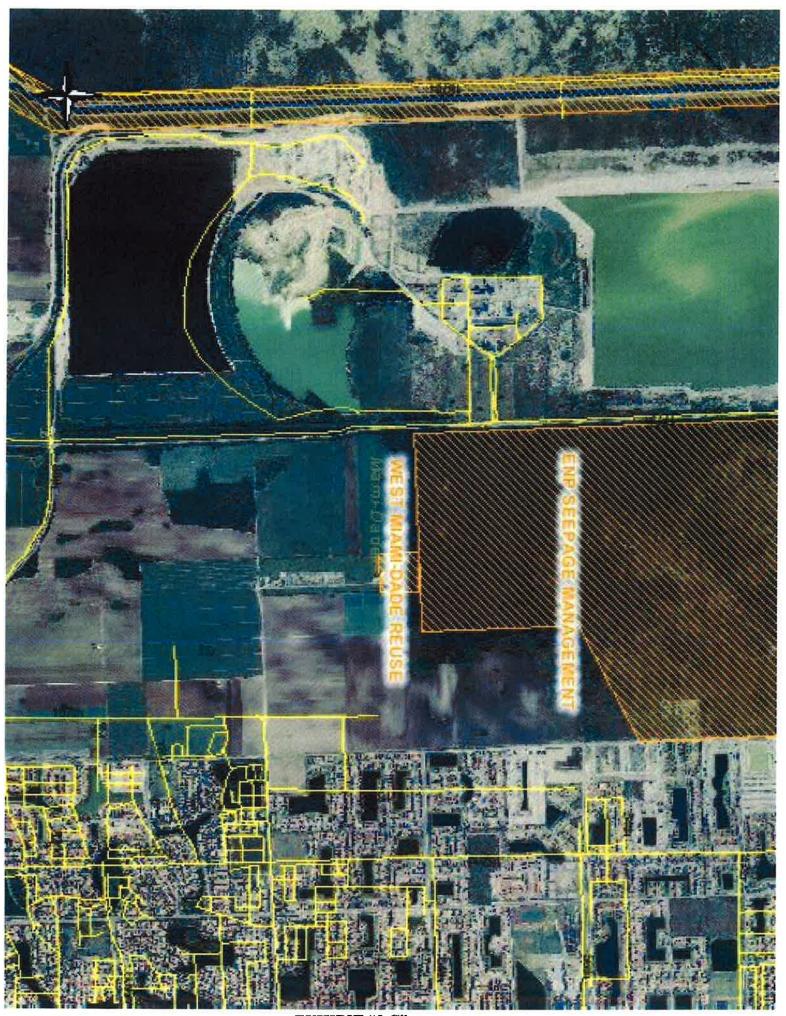
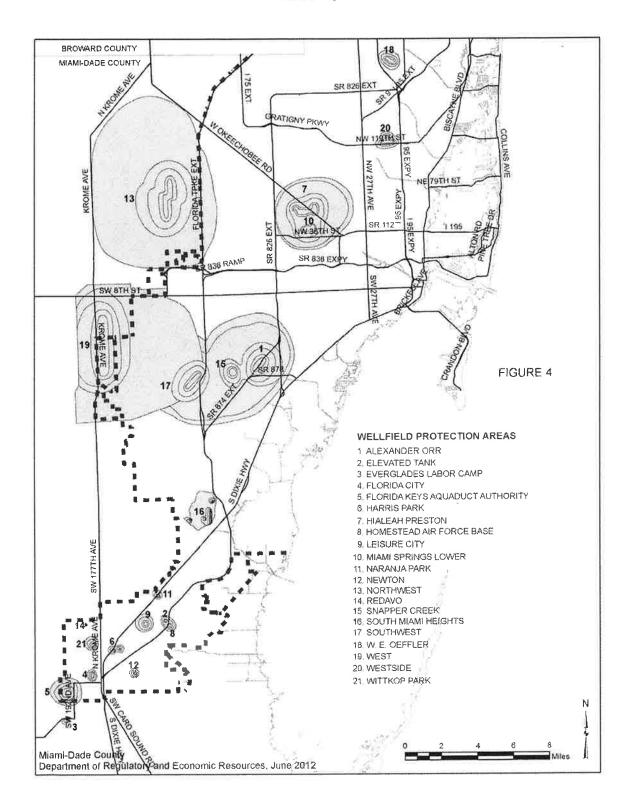
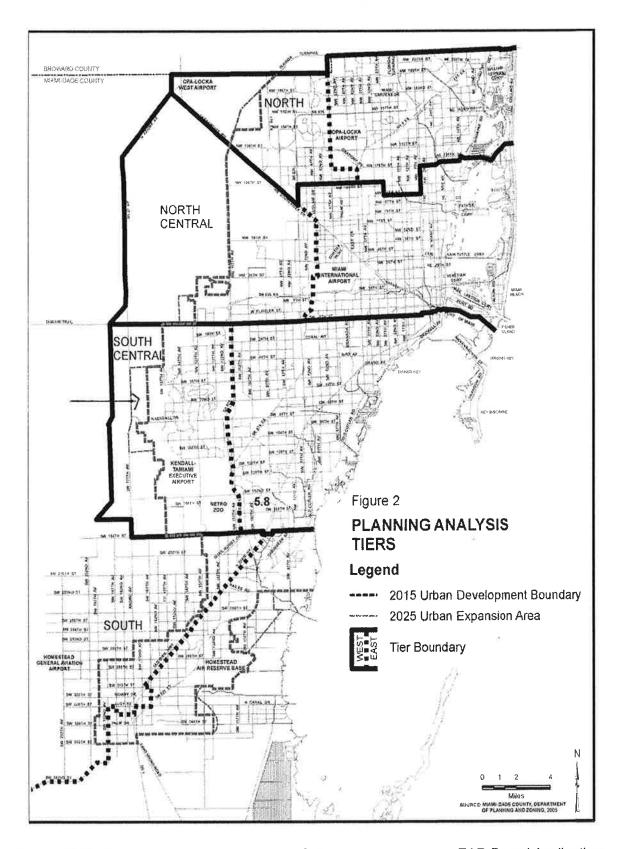


EXHIBIT "3.C"

### **EXHIBIT "4"**





### **EXHIBIT "6"**

Table 5
Residential Land Supply/Demand Analysis
North Central Tier, 2012 to 2030

Analysis Dans Remarkshy	Subs								
Analysis Done Separately for Each Type, i.e. No	Eastern Part			Western MSA 3.2			North Central Total		
Shifting of Demand between Single & Multifamily Type	Single Family	Multi- Family	Both Types	Single Family	Multi- Family	Both Types	Single Family	Multi- Family	Both Types
Capacity in 2012	2,651	44,862	47,513	2,554	9,765	12,319	5,205	54,627	59,832
Demand 2010-2015	734	1,960	2,694	314	299	613	1,048	2,259	3,307
Capacity in 2015	449	38,982	39,431	1,612	8,868	10,480	2,061	47,850	49,911
Demand 2015-2020	684	1,954	2,638	443	422	865	1,127	2,376	3,503
Capacity in 2020	0	29,212	26,241	0	6,758	6,155	0	35,970	32,396
Demand 2020-2025	730	2,146	2,876	488	465	953	1,218	2,611	3,829
Capacity in 2025	0	18,482	11,861	0	4,433	1,390	0	22,915	13,251
Demand 2025-2030	842	2,486	3,328	540	514	1,054	1,382	3,000	4,382
Capacity in 2030	0	6,052	0	0	1,863	0	0	7,915	0
Depletion Year	2015	2033	2029	2018	2034	2026	2016	2033	2028

Note: Housing demand is an annual average figure based on population projections.

Source: Department of Regulatory and Economic Resources, Research Section, March 2013.

Table 6
Residential Land Supply/Demand Analysis
South Central Tier, 2012 to 2030

	Subs								
Analysis Done Separately	East of Turnpike			West of Turnpike			South Central Total		
for Each Type, i.e. No Shifting of Demand between	Single	Multi-	Both	Single	Multi-	Both	Single	Multi-	Both
Single & Multifamily Type	Family	Family	Types	Family	Family	Types	Family	Family	Types
Capacity in 2012	1,684	13,736	15,420	4,045	2,106	6,151	5,729	15,842	21,571
Demand 2010-2015	459	417	876	426	115	541	885	532	1,417
Capacity in 2015	307	12,485	12,792	2,767	1,761	4,528	3,074	14,246	17,320
Demand 2015-2020	540	499	1,039	643	174	817	1,183	673	1,856
Capacity in 2020	0	9,990	7,597	0	891	443	0	10,881	8,040
Demand 2020-2025	600	553	1,153	649	175	824	1,249	728	1,977
Capacity in 2025	0	7,225	1,832	0	16	0	0	7,241	0
Demand 2025-2030	689	634	1,323	674	181	855	1,363	815	2,178
Capacity in 2030	0	4,055	. 0	0	0	0	0	3,166	0
Depletion Year	2015	2038	2026	2019	2025	2020	2017	2034	2024

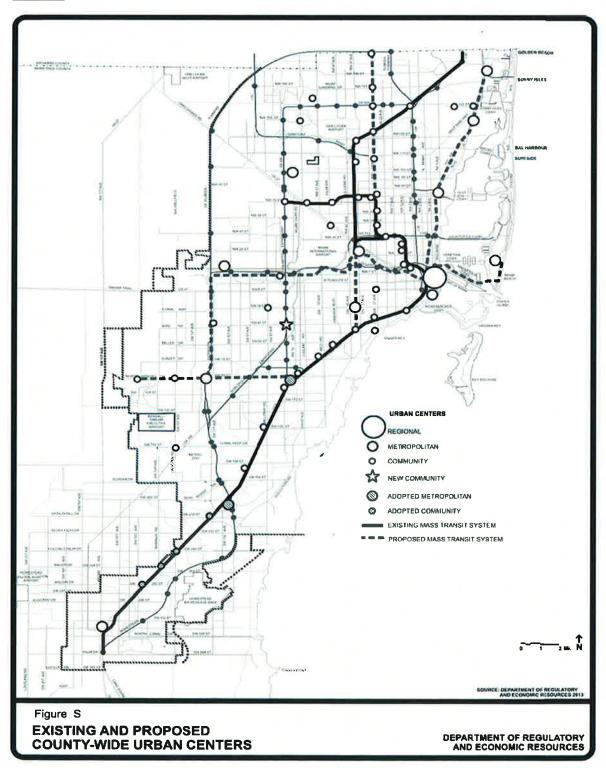
Note: Housing demand is an annual average figure based on population projections.

Source: Department of Regulatory and Economic Resources, Research Section, March 2013.

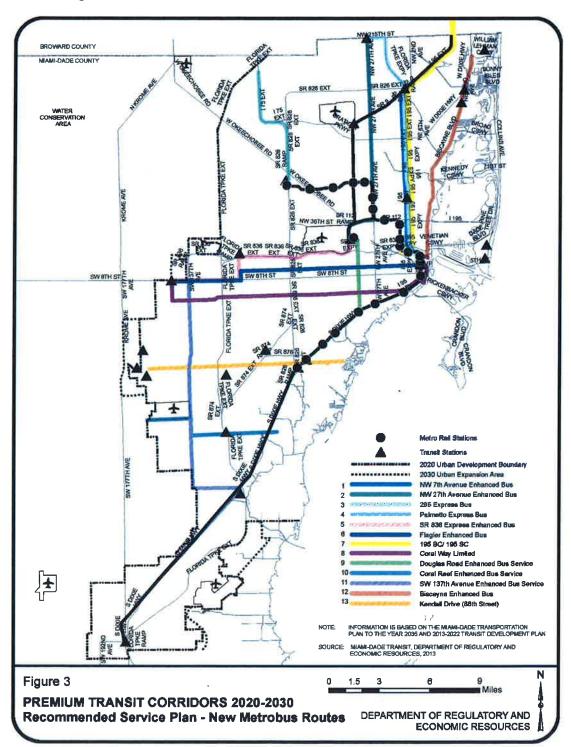
Table 7 below shows that the South Tier has sufficient capacity to accommodate projected housing demand to the year 2028. The capacity for single-family units is projected to be depleted in 2024, and multi-family capacity extends to 2042. Both housing demand and capacity is higher in the eastern half than in the western half.

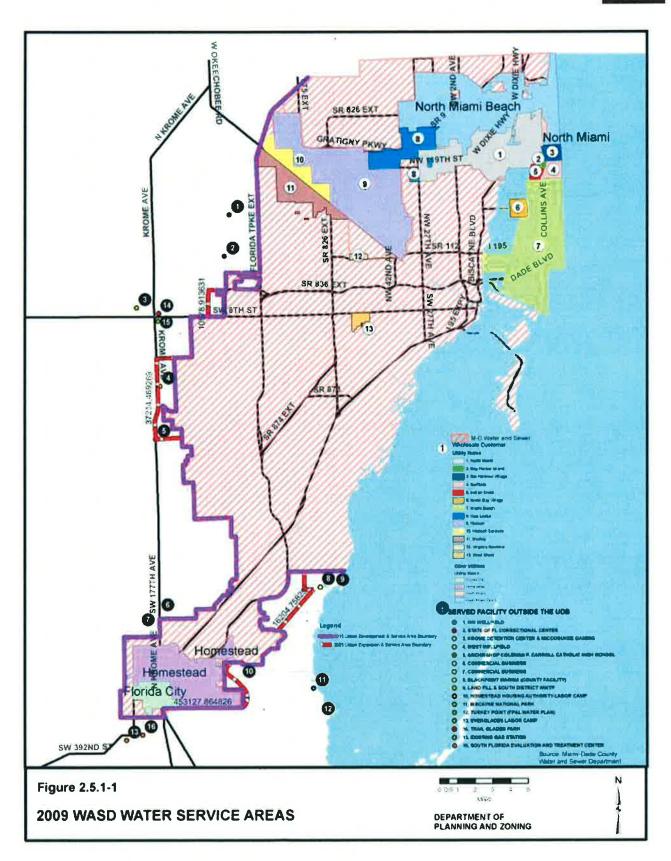


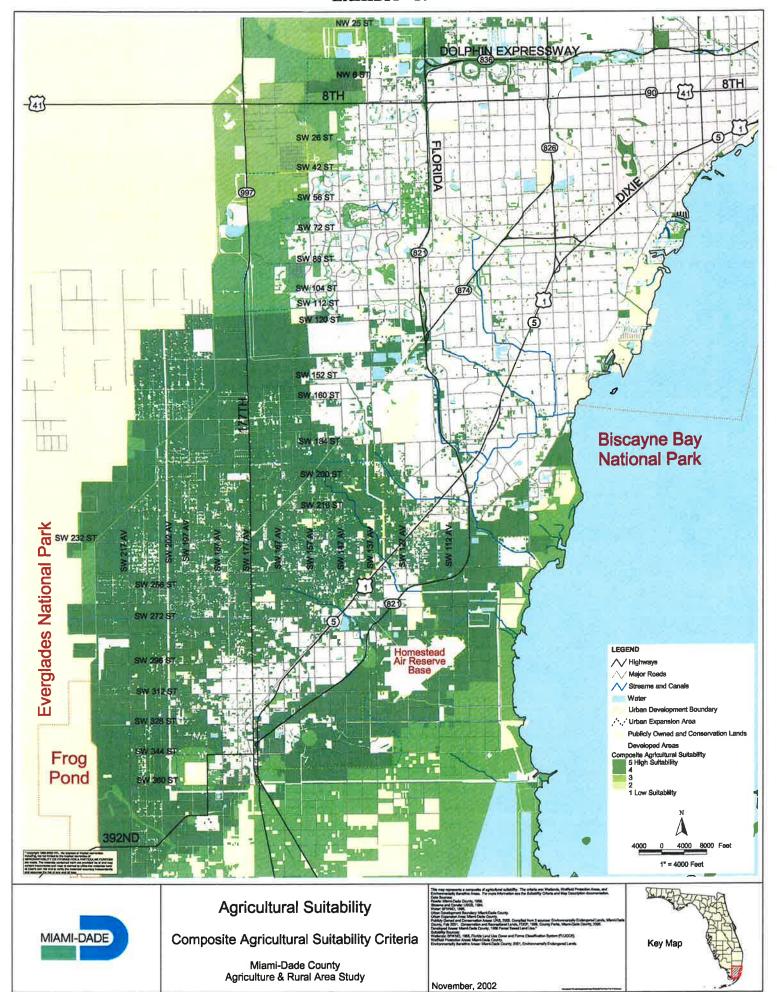
## Replace existing Figure S with new Figure S – Existing and Proposed County-Wide Urban Centers



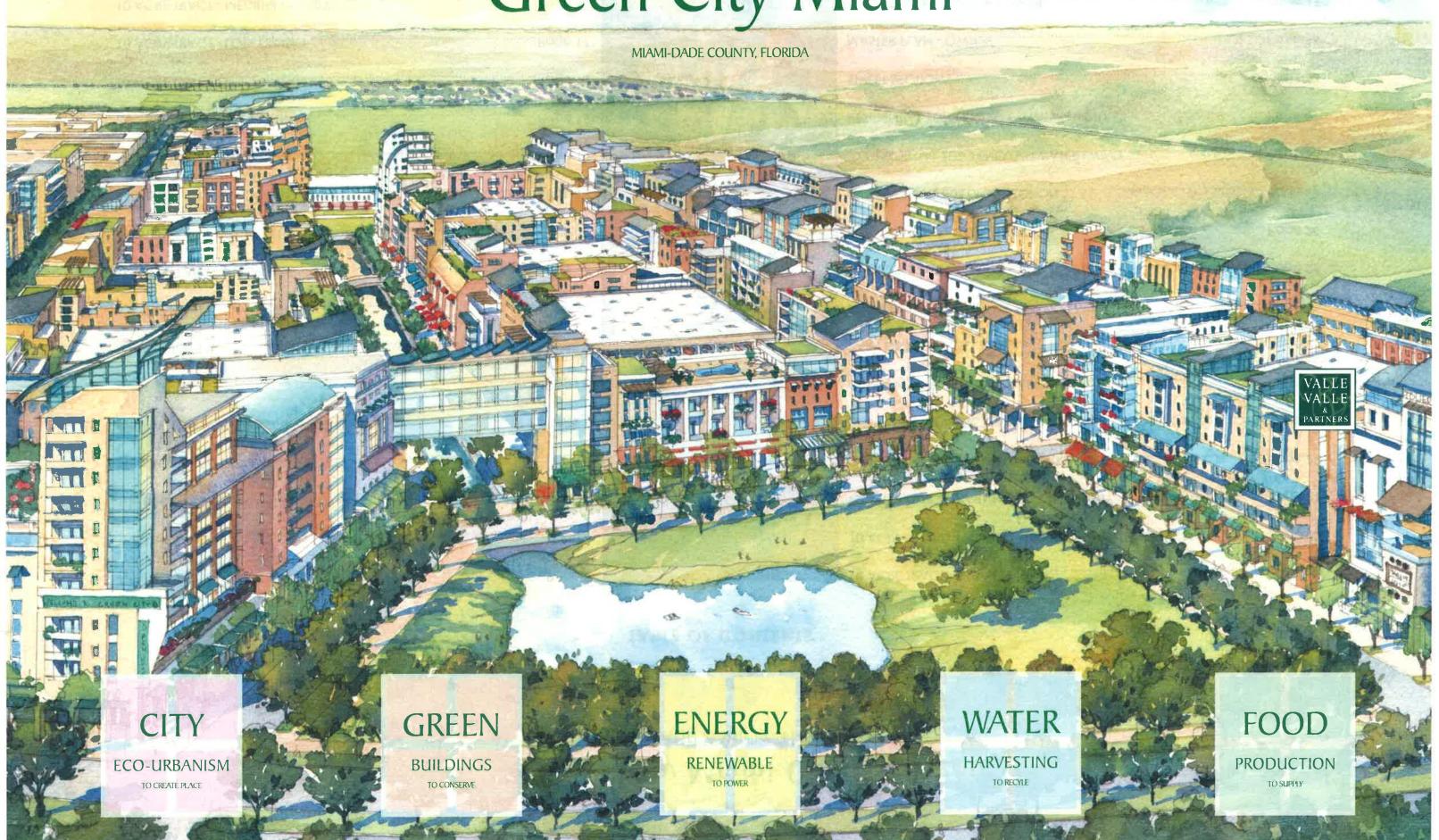
### 46. Insert new Figure 3 Premium Transit Corridors







# Green City Miami



# Green City Miami Charrette

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### The Project and Visioning Process

The **Green City Miami** charrette took place on February 15<sup>th</sup>, 2011. It grew out of a major land owner's foresight to produce a "Vision" for a 650 acre tract of agricultural land that is situated within the county's 2025 Urban Development Boundary (UDB) line. Their vision for this study area was focused on building an ideal Green City in Miami. Located within a mile from the edges of the Florida Everglades National Park this new master planned community would become a model for how to protect, enhance, and celebrate the natural resources available in this region of South Florida. This new self-sustainable community would demonstrate how to integrate a variety of housing, working, and entertainment options, utilized renewable energies, recycle rain-water, and produce food.

The study area stretches from 167<sup>th</sup> street on the East to Krome Avenue on the West and Sunset Drive on the North to Kendall Drive on the South. The charrette's team professionals included Valle Valle & Partners (Estela Valle, Erick Valle, Yukai Hsiung, Maria Martin-Hidalgo and John Zanetta), and the civil engineer Nicolas Martin-Hidalgo. During the charrette boards were mounted on the walls demonstrating the boundaries of the study area with aerial photographics of the surrounding neighborhoods. Tables were set up with aerial maps, sketch paper, pens, color markers, and note pads for the participants to write and/or draw anything they felt compelled to share during this visioning process.





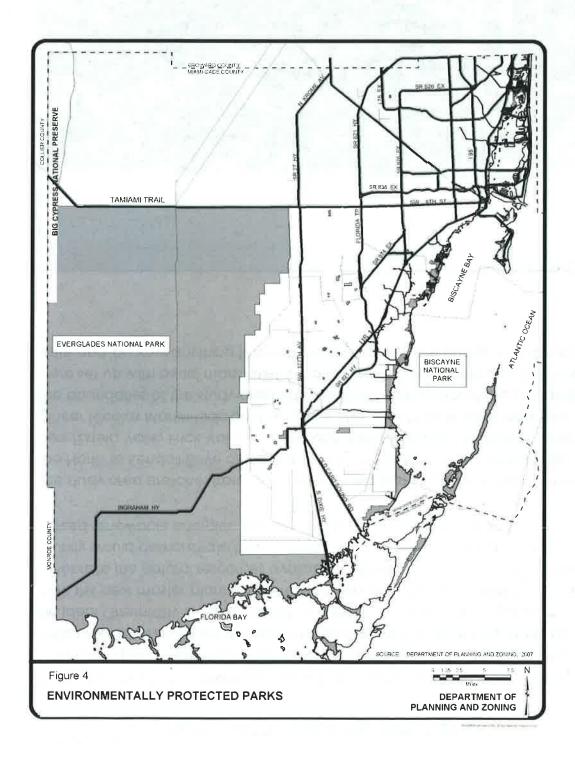


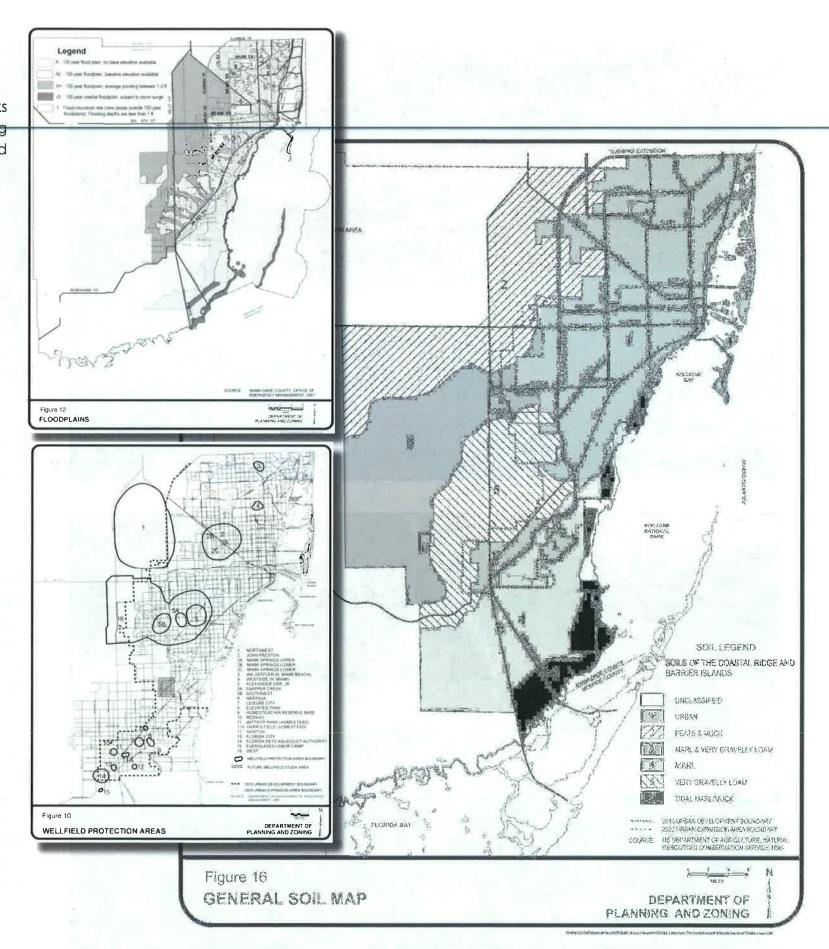
GREEN CITY MIAMI, MIAMI CHARRETTE 2011



### The Study Area

The **Green City Miami** study area is a mile from the eastern edge of 1,000,000 acres of Protected Parks known as the Everglades National Park, it is subject to the AH - 100 year floodplain, has an averaging ponding between 1-3 ft., the soils consist of marl & very gravelly loam, it lies entirely in the west wellfield protection area, and nearly 95 percent of these lands are currently used for agricultural farming.



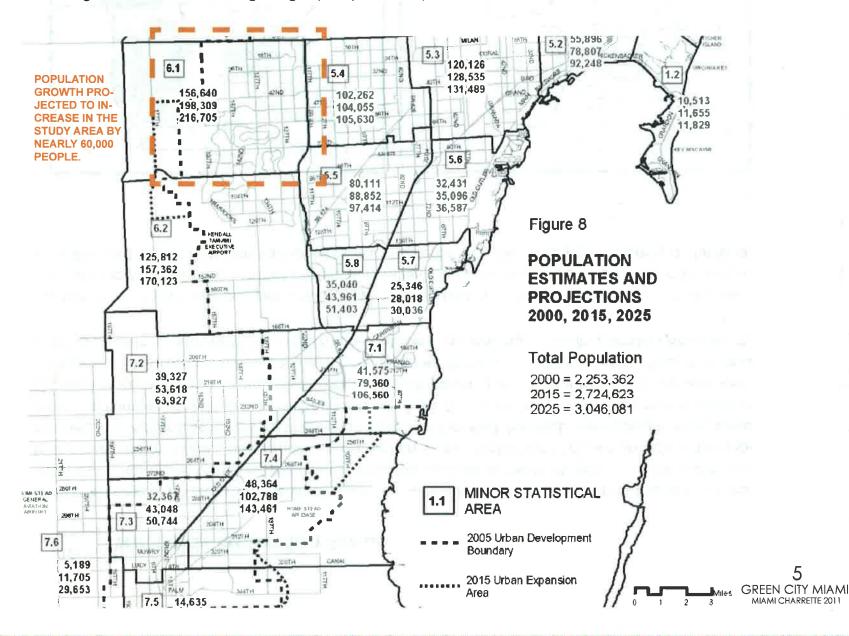




# The Urban Development Boundary (UDB)

The **Green City Miami** study area consisting of 650 acres currently used for agricultural farming and considered to be within the 2025 UDB. The Urban Development Boundary (UDB) Line was first created in 1975; increasing in 36 years by only 15%. This has been Miami-Dade County's key tool for growth management. Now with less than 6% of undeveloped remaining inside the UDB, it is considered by Miami-Dade county insufficient to accommodate another 15 years of development.

Looking forward, it is projected that Miami-Dade will gain 700,000 residents by 2030. Where will these people live, work, play, pray, and have a choice of schools. Furthermore, the impact on our roadways will mean a profound impact on how the county deals with transportation and with providing the necessary civil services. In the illustration below it is projected that between 2000-2025 our study area will be impact by nearly 60,000 new residents. The **Green City Miami** development is projected to absorb 25,000 people and proposes a self-sustainable solution addressing environmental, economical, and social issues within a new master planned community. This proposal celebrate's the natural, cultural, and regional resources offering a high quality of life experience.



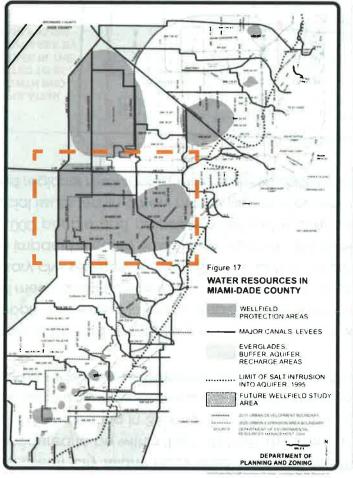


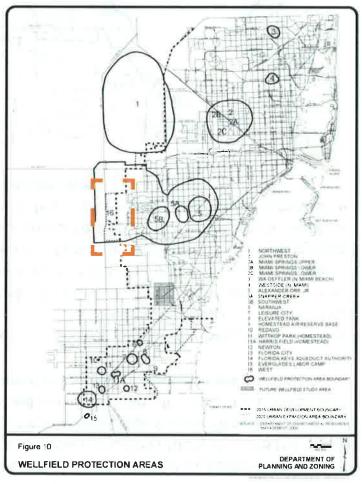


## **Wellfields Protection Area**

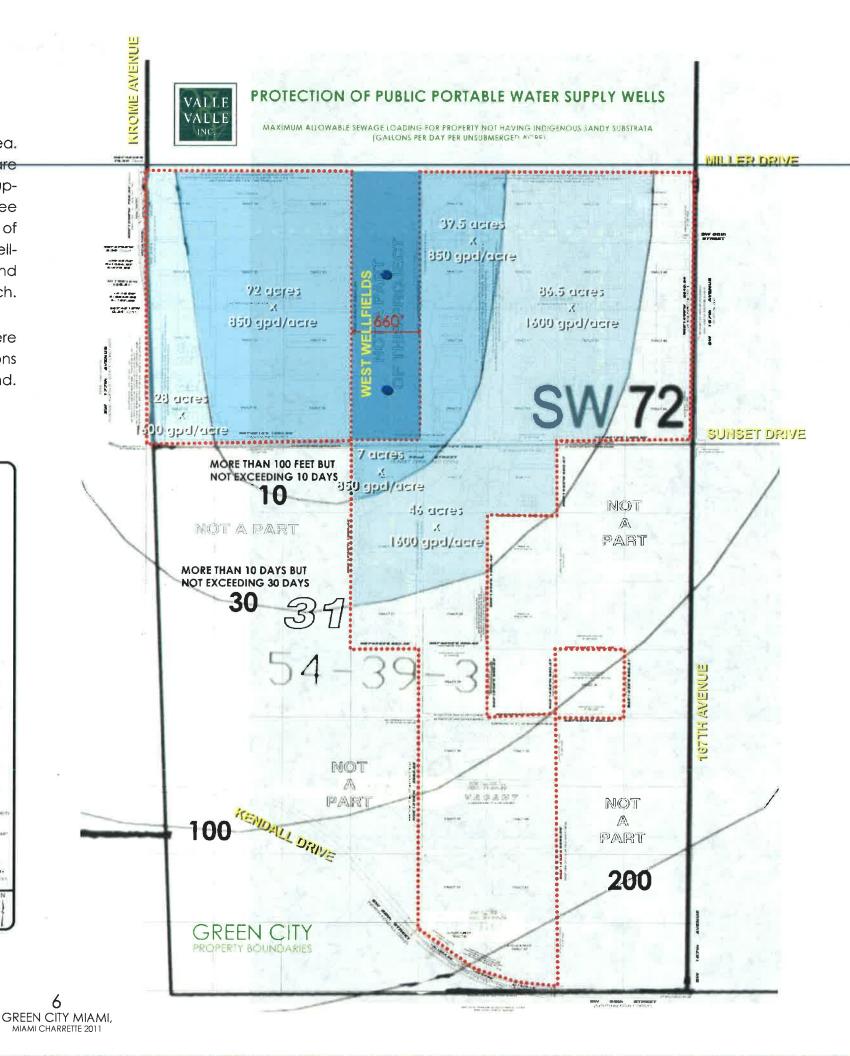
The Green City Miami study area is situated entirely within the West Wellfield Interim protection area. This meant that more restrictive regulations would be applied to the study area. The restrictions are found in the Miami-Dade County zoning code section 24-43. - Protection of public potable water supply wells. The Water & Sewer Department projected that the West Wellfields were going to have three times the number of wells that have been actually built. Based on that earlier projection a series of circles were drawn that indicated the number of days it would take for water to travel to the west well-fields protection area. In the illustration to the far right, the circles were overlay over the study area and colored shaded to analyze the maximum allowable sewage loading capacity permited within each.

The maximum gallons per day per unsubmerged acre found in Table B-1, under section 24-43, were used to calculate the program that can be built within these travelling water circles. The calculations were then distributed between various landuses to deteremined the density and intensity of the land.





THE STUDY AREA FALLS WITHIN THE BOUNDARIES OF WEST WELLFIELDS PROTECTION AREA





## **Wellfields Protection Area**

The table below was created to calculate the maximum density and intensity that can be built within the land areas that fall within each of the travelling water circles. The distribution of program became a back-and-forth exercise between the master plan and the table until the appropriate balanced was achieved. The totals shown in dark red column on the table below indicates the program used.

SEC. 24-43. PROTECTION OF PUBLIC PORTABLE WATER SUPPLY WELLS: The provisions of this section which impose upon land uses within the West Wellfield Interim protection area regulations which are more restrictive than those regulations applicable to the other public utility potable water supply wellfields in Miami-Dade County shall be deemed interim in nature. Said more restrictive regulations shall be reviewed by such technical review task force(s) or committee(s) as provided by the Board of County Commissioners or its designee upon recommendation of the Director. The Director shall submit to the Board of County Commissioners progress reports, as necessary, pertaining to said review, and recommendations necessary to protect the public health, safety and welfare arising out of said review shall be presented to the Board of County Commissioners. The Miami-Dade County Conflict of Interest and Code of Ethics Ordinance (Section 2-11.1 of this Code) shall not be applicable to task forces or committees provided for in this section.

LOCATION	MORE THAN 100 FEET BUT NOT EXCEEDING 10 DAYS	MORE THAN 10 DAYS BUT NOT EXCEEDING 30 DAYS	ALLOWABLE GALLONS/DAY PER UNSUBMERGED ACRE	TOTAL GPD	CLASSIFICATION	Single Family - Detached gpd/unit	Single Family - Attached gpd/unit	Multifamily gpd/unit	Retail gpd/sf	Office gpd/sf	Industrial gpd/sf	Parks gpd/person	School gpd/stud	School gpd/staff	Community gpd/sf
	1000	78	ALC: N		STANDARD LEED	350 280	250 <b>200</b>	200 160	5/100 <b>4/100</b>	10/100 8/100	20/1000 16/1000	5 4	20	15	10/100 8/100
west side	92	28	850 1,600	78,200 44,800	PROPOSED	NA	NA	498	120	325,000	700,000	-	300	10	
	0.0	20	1,000	123,000	LEED	fer and te	*	79,650		26,000	11,200		6,000	150	
east side	39.5		850	33,575	PROPOSED	NA NA	NA NA	1,024	125,000	55,000		120	8	37-37-	5,0
		86,5	1,600	138,400 <b>171,975</b>	LEED			163,895	5,000	2,200		480	10	- 2	
south side	7	46	850 1,600	5,950 73,600	PROPOSED	NA	NA	279		18		15	1,700	57	
				79,550	LEED			44,696	100		1 00	4	34,000	850	
	<b>BUT NOT EXCEEDING 10 DAYS</b>	BUT NOT EXCEEDING 30 DAYS				SF - Detached	SF - Attached	Multifamily Units	Retail sf	Office sf	Industrial sf	Parks Acres	Students	Staff	Communit
	138.5	160.5			TOTALS			1,802	125,000	380,000	700,000	135	2,000	67	5,0

TABLE B-1 Residential Property Served by Sanitary Sewers; Nonresidential Property Served by Sanitary Sewers and Not Using, Generating, Handling, Disposing, Discharging or Storing Hazardous Materials

Travel Time in Days or Distance in Feet from Property to Nearest Public Utility Potable Water Supply Well	Maximum Allowable Sewage Loading for Property Not Having Indigenous Sandy Substrata (Gallons Per Day Per Unsubmerged Acre)	Maximum Allowable Sewage Loading for Property Having Indigenous Sandy Substrata (Gallons Per Day Per Unsubmerged Acre)
More than 30 days	No additional restrictions	No additional restrictions
More than 10 days but not exceeding 30 days	1600	No additional restrictions
More than 100 feet but not exceeding 10 days	850	1600
100 feet or less	SHIRLS NOT BOTH WHITE	0

TABLE C-1 Allowable Storm Water Disposal Methods for Residential and Nonresidential Property

Travel Time in Days or
Distance in Feet from
Property to Nearest
Public Utility Potable
Water Supply Well

Allowable Methods for
Storm Water Disposal
Property to Nearest
Public Utility Potable
Water Supply Well

More than 30 days but not Infiltration or seepage or exceeding 210 days overflow outfalls only

More than 10 days but not Infiltration or seepage only exceeding 30 days

More than 100 feet but not infiltration only exceeding 10 days

100 feet or less

TABLE E-1: Allowable Land Uses Within the Northwest Wellfield Protection Area and Within the West Wellfield Interim Protection Area

#### SAMPLE OF PERMITTED LAND USES

Hotels, motels, Libraries (public), Office building, Plant sales (no propagation), Police station, Post office, Produce or fruit market, Professional and semiprofessional offices (no medical laboratory or clinic), Residential uses, Restaurants, including outdoor patios and service, Schools (no hazardous materials), Seafood stores, Storage warehouse (no hazardous materials), Vegetable stands, Warehouses (storage of food, fodder, apparel, and other nonhazardous materials), and Water tanks or towers

# CIT.Y ECO-URBANISM

## Case Studies I

These case studies show potential densities outside the 30 day travelling water circle.

**Bay Meadow Park**: The lessons we learn from this development demonstrate how a mixed-use program can function both vertically and horizontally. The intense mixed-use program is located along a well-defined public open space with ample access roads in the form of boulevards. The buildings frame the street edges with wide sidewalks and parallel parking. The majority of the parking is hidden behind the buildings in parking structures. The aerial view demonstrates how to scale down from the vertical mix to a compatible residential program using apartments and townhouses to buffer from the adjacent single family residential neighborhood.

**Market Commons**: The lessons are similar, however it is a more intensive vertical mix program. In this case study the townhouses are attached to mixed-use buildings to help buffer from the single family residential neighbor. The parking is sandwiched between buildings on three sides in an attempt to wrap program along all the street edges to celebrate the pedestrian experience.

**Addison Circle**: The lessons that we learn in this case study are how to preserve a human scale to the development while building a highly dense program, how to prioritize the road network so that access to the parking garages is kept to the secondary roads, the opportunities created when carving out public space, and various ways to hide parking garages.

#### ADDISON CIRCLE









	SITE DATA	
	Location:	Addison, Texas
п	Municipality:	
	Acres:	
7	Acres: Zoning:	Mixed-Use
	Setting: Structured Parking:	Infill
я.	Transportation:	
_	Access to Bicycle/Pedes	
		1/4 Mile
rii.	PROGRAM	
70	F.A.R.:	2.5
	Density Type (D.U./Acre	
	Housing:	
Ø	Retail:	
×	Hotel:	None
Ţ.	Office:	
	Dorlett and anning	

Office:
REGULATIONS
Landuse:Mixed-Use
Build-To-Line (BTL):At Pedestal and Tower
Bldg. Height:
Pedestal Height: N.A.
I lower Blod Height: N.A.
Penthouse Bldg. Height:
Bldg Frontage: Minimum 75 %
Bldg. Placement:Front 0 + Sides/
Rear 0 Colonnade/Balcony: Encroachment over
Sidewalk
Habitable Space: N.A.
Expression Line: N.A.
Vehicular Entries: N.A. Open Space: 12 % Min. in the
Form of Courtyard Gardens, Colonnades,
Squares, & Plazas

#### BAY MEADOW PARK









SITE DATA	
Location: San Fr	ancisco, California
Municipality:	
Acres:	
Zoning:	Mixed-Use
Setting:	
Structured Parking:	5,000 Spaces
Transportation: Loca	I Bus & Metro-Rail
Access to Bicycle/Pede	
(5)	1/4 Mile

PROGRAM F.A. R.: Density Type (D.U./Acre): Housing [Rental+Sale]: Retail: Hotel: Office: Park/Landscaping:	
REGULATIONS	**
Landuse:	Mixed-Use
Build-To-Line (BTL):	At Setback
Bldg. Height:	6 Stories Max.
Pedestal Height:	6 Stories Max.
Tower Bldg. Height:	N.A.
Penthouse Bidg. Height:	
Bidg. Frontage:	
Bidg. Placement:	

Vehicular Entries: N.A.
Open Space: 20 % Min. in the
Form of Courtyard Gardens, Colonnades,
Squares, & Plazas

Encroachment

Top of 1nd Story

Colonnade/Balcor

Habitable Space

Expression Line:

SITE DATA Location: ..... Municipality:

#### MARKET COMMONS









Zoning:
PROGRAM       3.0         F.A.R.:       3.0         Density Type (D.U./Acre):       40         Housing [Rental+Sale]:       300+87 Units         Retail:       240,000 Sq Ft         Hotel:       None         Office:       100,000 Sq Ft         Park/Landscaping:       20% Required
REGULATIONS Landuse: Mixed-Use Build-To-Line (BTL): Pedestal Bldg. Height: 8 Stories Max Pedestal Height: 2 Stories Max Tower Bldg. Height: 4 Stories Max Penthouse Bldg. Height: 2 Stories Max Max
Bldg. Frontage: Mini, 75 % Bldg. Placement: Front 0 + Sides/Rear 0 Colonnade/Balcony: Encroachment
over Sidewalk Habitable Space: 20' Min. for 8 Stories Expression Line:
Vehicular Entries:

#### MIZNER PARK







Mixed-Use "Urbon Village" lifti 1,000 Spaces Local Bur
1,000 Spaces
Local Bus
1,000 Spaces
1,000 Spaces
Local Bus
1/4 Mile
2.5
50 and 100
272 Unils
200,000 Sq F
None
170,000 Sq F
20% Required
Mixed-Use "Urban Village"
Al Pedesta
12 Stories Max
1 Stories Max
11 Stories Max
N.A
Minimum 75 %
Front 0 + Sides/Rear 0
croachment over Sidewalk
N.A
Top of 1st Story Required
N.A

#### DOWNTOWN KENDALL









Murnicipality:         Miami-Dade t           Acres:         1.2           Zoning:         Mixer           Situctured Parking:         200 s           Transportation:         Local Bus & CalTrain           Access to Bicycle/Pedestrian Paths:         1           PROGRAM         FA R:           Density Type (D U /Acre):         Housing:         7           Retail:         22,50           Hotel:         00ffce:           Park/Landscaping:         20% Re           REGULATIONS         Landuse:         Core Sub-District/Mixe           Bulld-To-Line (BTL):         Al Pedestal and Bulld-To-Line (BTL):         A Pedestal Height:           Pedestal Height:         2 Stone         5 Storie           Pedestal Height:         5 Storie         6 Storie           Penthouse Bkig Height:         5 Storie         6 Storie           Penthouse Bkig Height:         Front 0 + Sidas         Colonnade/Balcony:         Encroachment over S	Location:	Mami
Acres: 12 Zoning: Milan Selturg: Milan Selturg: 200 S Sitructured Parking: 200 S Transportation: Local Bus & CalTrain Access to Bicycle/Pedestrian Paths: 1  PROGRAM FAR: Density Type (D U /Acre): Housing: 7 Retail: 22,500 Holet: 23,500 Hole		Miami-Dade (
Selting: 200 S Structured Parking: 200 S Transportation: Local Bus & CalTrain Access to Bicycle/Pedestrian Paths: 1  PROGRAM F A R:  Density Type (D U /Acre): 7  Retail: 22,500  Housing: 7  Retail: 22,500  Hotel: 22,500  Hotel: 7  Coffice: Park/Landscaping: 20% Re  REGULATIONS  Landuse: Core Sub-District/Mix  Build-To-Line (BTL): Al Pedestal and  Bidg. Height: 7 Slorie  Pedestal Height: 2 Storie  Tower Bidg. Height: 6 Storie  Penthouse Bidg Height: 6 Storie  Penthouse Bidg Height: 1  Bidg Frontage: Minimur  Bidg. Placement Front 0 + Sidesi  Colonnade/Balcony: Encroachment over S  Habitable Space: 20° Min. for First 7  Expression Line: Top of 2nd Slory Re		
Selting: 200 S Structured Parking: 200 S Transportation: Local Bus & CalTrain Access to Bicycle/Pedestrian Paths: 1  PROGRAM F A R:  Density Type (D U /Acre): 7  Retail: 22,500  Housing: 7  Retail: 22,500  Hotel: 22,500  Hotel: 7  Coffice: Park/Landscaping: 20% Re  REGULATIONS  Landuse: Core Sub-District/Mix  Build-To-Line (BTL): Al Pedestal and  Bidg. Height: 7 Slorie  Pedestal Height: 2 Storie  Tower Bidg. Height: 6 Storie  Penthouse Bidg Height: 6 Storie  Penthouse Bidg Height: 1  Bidg Frontage: Minimur  Bidg. Placement Front 0 + Sidesi  Colonnade/Balcony: Encroachment over S  Habitable Space: 20° Min. for First 7  Expression Line: Top of 2nd Slory Re	Zoning:	Miss
Trensportation: Local Bus & CalTrain Access to Bicycle/Pedestrian Paths: 1  PROGRAM  F.A.R.:		
Trensportation: Local Bus & CalTrain Access to Bicycle/Pedestrian Paths: 1  PROGRAM  F.A.R.:	Structured Parking:	200 8
PROGRAM    FAR:		
FAR:  Density Type (D U /Acre): Housing: 7. Retail: 22.50 Hole: Office: Park/Landscaping: 20% Re  REGULATIONS  Landuse: Core Sub-District/Mix Build-To-Line (BTL): Al Pedestal and Pedestal Height: 7 Storie Pedestal Height: 2 Storie Pedestal Height: 5 Storie Penthouse Bidg Height: Bidg Fronlage: Minimur Bidg Placement: Front 0 + Sideal Colonnade/Balcony: Encroachment over S Habitable Space: 20 Min for First 7 Expression Line: Top of 2nd Slory Re	Access to Bicycle/Pedestrian Pati	hs:1
Density Type (D U /Acrs):	PROGRAM	
Housing: 7. Retail: 22.50 Hole! Office: Park/Landscaping: 20% Re  REGULATIONS  Landuse: Landuse: Core Sub-Distinct/Mix Build-To-Line (BTL): Al Pedestal and Pedestal Height: 7. Storie Pedestal Height: 2. Storie Tower Bldg. Height: 6. Storie Penthouse Bldg. Height: Penthouse Bldg. Height: Bldg. Fronlage: Minimum Bldg. Piacement: Front 0 + Sideal Colonnade/Balcony: Encroachment over S Habitable Space: 20 Min. for First 7 Expression Line: Top of 2nd Slory Re	FAR:	
Retail: 22.50 Hotel: Office: Part/Landscaping: 20% Re REGULATIONS Landuse: Core Sub-Distinct/Mix Build-To-Line (BTL): At Pedestal and Bidg Height: 7 Storie Pedestal Height: 2 Storie Pedestal Height: 5 Storie Penthouse Bidg Height: 5 Storie Penthouse Bidg Height: 10 Storie Penthouse Bidg Height: 5 Storie Penthouse Bidg Height: 10 Storie Penthouse Bidg Height	Density Type (D U /Acre):	
Holel:	Housing:	
Office: Part/Landscaping: 20% Re  REGULATIONS  Landuse: Core Sub-Distinct/Mix  Build-To-Line (BTL): Al Pedestal and  Bidg Height: 7 Slorie Pedestal Height: 2 Storie Tower Bidg Height: 5 Storie Penthouse Bidg Height  Bidg Frontage: Minimum  Bidg Placement: Front 0 + Sideal  Colonnade/Balcony: Encroachment over S  Habitable Space: 20° Min for First 7  Expression Line: Top of 2nd Slory Re	Retail:	22,50
Park/Landscaping: 20% Re REGULATIONS  Landuse: Core Sub-District/Mix Build-To-Line (BTL): Al Pedeslat and Bidg, Height: 7 Slorie Pedeslat Height: 2 Storie Tower Bidg Height: 6 Storie Penthouse Bidg Height: 1 Storie Penthouse Bidg Height: 1 Front 0 + Sideal Colonnade/Balcony: Encroachment over S Habitable Space: 20 Min for First 7 Expression Line: Top of 2nd Slory Re	Hotel:	
Park/Landscaping: 20% Re REGULATIONS  Landuse: Core Sub-District/Mix Build-To-Line (BTL): Al Pedeslat and Bidg, Height: 7 Slorie Pedeslat Height: 2 Storie Tower Bidg Height: 6 Storie Penthouse Bidg Height: 1 Storie Penthouse Bidg Height: 1 Front 0 + Sideal Colonnade/Balcony: Encroachment over S Habitable Space: 20 Min for First 7 Expression Line: Top of 2nd Slory Re	Office:	
Landuse: Core Sub-District/Mix Build-To-Line (BTL): Al Pedestal and Bidg, Height: 7 Storie Pedestal Height: 2 Storie Tower Bidg, Height: 5 Storie Penthouse Bidg Height: 6 Storie Penthouse Bidg Height: Minimur Bidg Paucement: Front 0 + Sidest Colonnade/Balcony: Encroachment over S Habitable Space: 20 Min, for First 7 Expression Line: Top of 2nd Slary Re	Park/Landscaping:	20% Re
Build-To-Line (BTL) Al Pedestal and Bidg, Height: 7 Slorie Pedestal Height: 2 Storie Tower Bidg, Height: 5 Storie Penthouse Bidg Height: 5 Storie Penthouse Bidg Height: Minimur Bidg Paucement: Front 0 + Sidas Colonnade/Balcony: Encroachment over S Habitable Space: 20 Min for First 7 Expression Line: Top of 2nd Slory Re	REGULATIONS	
Bidg, Height: 7 Slorie Pedestal Height: 2 Storie Tower Bidg, Height: 5 Storie Penthouse Bidg Height: 6 Minimur Bidg, Frontage: Minimur Bidg, Paucement: Front 0 + Sidas Colonnade/Balcony: Encroachment over S Habitable Space: 20' Min, for First 7 Expression Line: Top of 2nd Slory Re	Landuse:	Core Sub-District/Mixe
Pedestal Height 2 Storie Tower Bidg Height: 6 Storie Penthouse Bidg Height: Minimur Bidg Frontage: Minimur Bidg Pacement: Front 0 + Sidesi Cotonnade/Batcony: Encroachment over S Habitable Space: 20 Min for First 7 Expression Line: Top of 2nd Slary Re		
Tower Bidg Height: 5 Storie  Penthouse Bidg Height:  Bidg Fronlage: Minimur  Bidg Placement: Front 0 + Sideal  Colonnade/Balcony: Encroachment over S  Habitable Space: 20' Min. for First 7  Expression Line: Top of 2nd Slary Re	Bldg Height:	7 Slorie
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Bidg. Placement: Front 0 + Sidesi Colonnade/Belcony: Encroachment over S Habitable Space: 20 Min. for First 7 Expression Line: Top of 2nd Slary Rt	Penthouse Bldg Height	
Bidg. Placement: Front 0 + Sidesi Colonnade/Belcony: Encroachment over S Habitable Space: 20 Min. for First 7 Expression Line: Top of 2nd Slary Rt	Bldg Fronlage:	Minimur
Habitable Space: 20 Min. for First 7  Expression Line: Top of 2nd Story Ro		
Habitable Space: 20 Min. for First 7  Expression Line: Top of 2nd Story Ro	Colonnade/Balcony:	Encroachment over S
	Expression Line:	Top of 2nd Slory Re
	Expression care.	

# CITY ECO-URBANISM

## Case Studies II

These case studies show potential densities outside the 100 day travelling water circle.

**Mizner Park**: The lessons we learned from our research, as seen in these photographic views, are the importance of varying the building massing, the significance of carving out a linear park, the need to hide off-street parking, and the importance of attaching a single layer of program to a parking garage to hide it from a primary street.

**Downtown Kendall:** The lessons we learned from this project include the need to establish maximum building frontages, the need to restrict parking garage access to secondary streets, the importance of requiring 100% build-out of the retail along primary streets, and what happens when habitable space is required along the street frontage as a method to hide the parking.

**City Place**: The real lesson learned from this project is understood best in the site plan; it shows us how to spread density so that it can be kept to a human scale in the more public streets and more intense (higher floors) setback of the street edges.

#### CITY PLACE







Location:	v	Vest Palm Beach, Florid
Municipality:		Palm Beach Coun
Acres:		72 aure
Zoning:		Mixed-Us
Setting:		liv
Structured Parking:		3,300 Space
Trensportation:		Local Bus & Metro-Re
Access to Bicycle/Pedestrian	Paths:	1/4 Mi

Transportation:	Local Bus & Melro-Re
Access to Bicycle/Pedestrian Paths:	1/4 Mi
PROGRAM	
FAR	2
Density Type (D U /Acre):	25 and 12
Housing:	600 Uni
Retail:	700,000 Sq
Hotel:	400 Room
Office:	750,000 5q
Park/Lendscaping:	20% Require

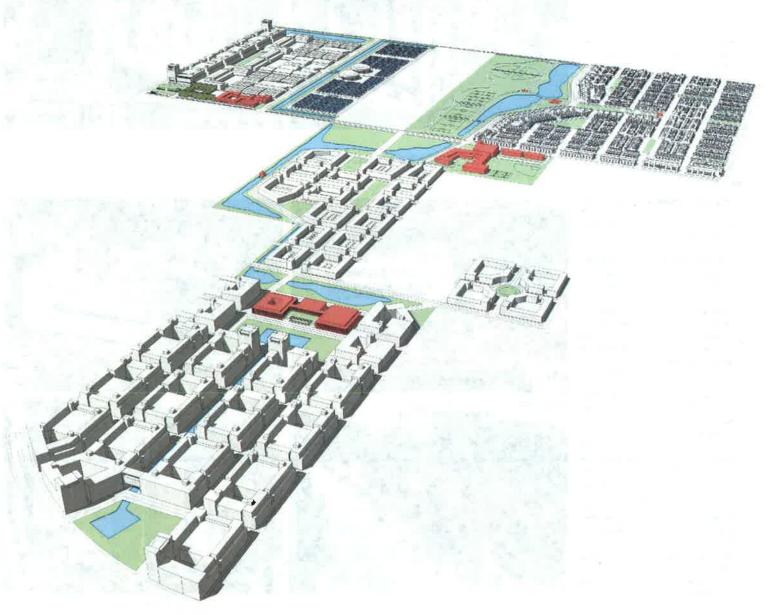
Landuse	Mixed-Use
Build-To-Line (BTL):	At Pedesial and Tower
Bldg Height	25 Stories Max
Pedestal Height:	3 Stories Max
Tower Bldg Heighl:	20 Stories Max
Penthouse Bldg. Height	2 Stories Mex
Bldg Fronlage:	Minimum 75 %
Bldg Placement:	Front 0 + Sides/Rear 0
Colonnade/Balcony:	Encroachment over Sidewalk
Habitable Space	NA NA
Expression Line:	Top of 1st Story Required
Vehicular Entries:	N A
Open Space:	10 % Min. in the

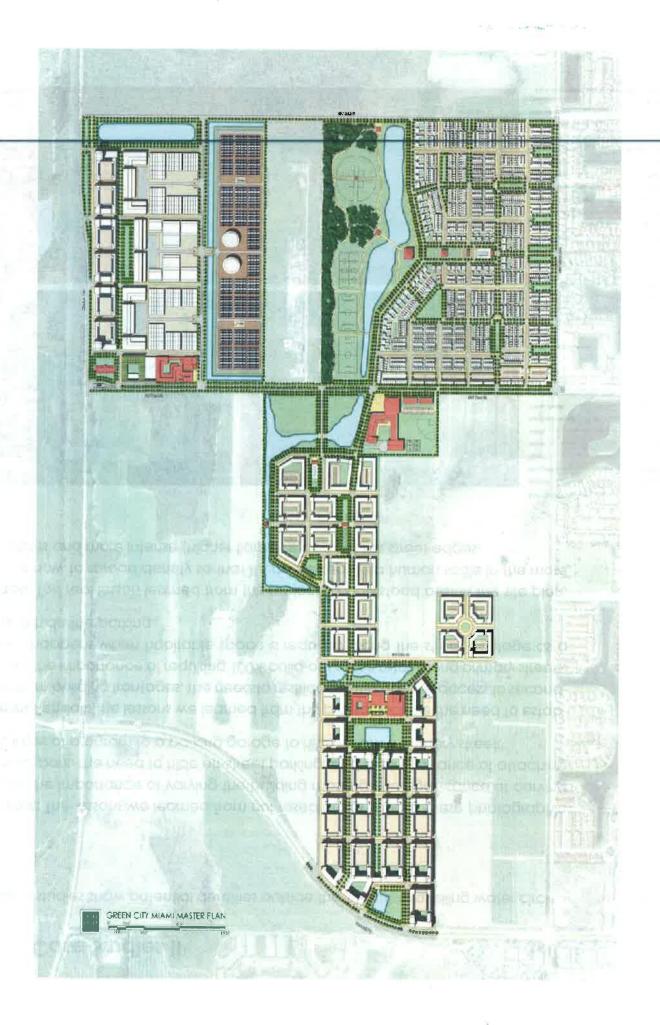


# Charrette Master Plan I

This master plan shows the 450 acres owned by the majority land owner. The master plan is divided into four distinct neighborhoods. The Downtown District located off Kendall Drive with high density mixed-use residential, the Central District located off Sunset Drive with Medium Density mixed-use residential, the Park District located off Miller Drive with low density mixed-use residential, and the Eco-Industrial Park of Krome Avenue with high density mixed-use residential.

The diagrams in the next page show the landuses, the four distinct neighborhoods, the green network, the water network, the street network and the transportation network.







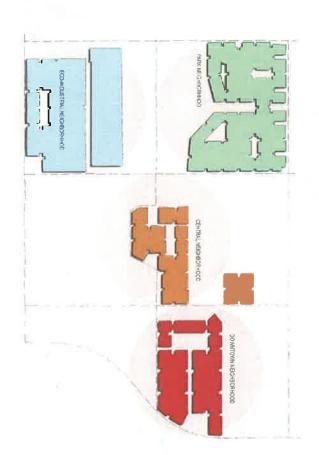
#### LANDUSE:

This diagram illustrates the location of landuses within each district. The dark red (mix-use) is located along the collector roads and at the downtown district, the light grey color indicates the EIP, the other colors are single uses.



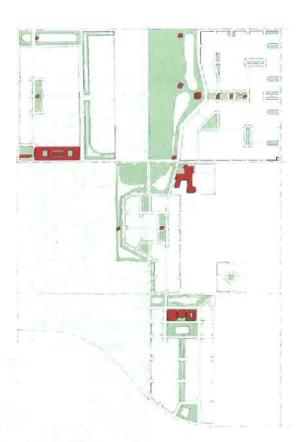
#### **NEIGHBORHOODS:**

This diagram illustrates four differently colored neighborhoods; 1) downtown; 2) central; 3) park; and, 4) EIP. The circles shows five minute walking distance between each neighborhood.



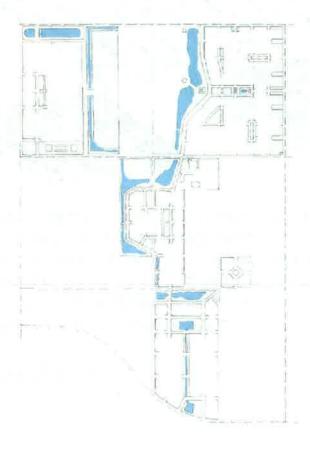
#### **GREEN NETWORK:**

This diagram illustrates a network of public greens interconnecting the four neighborhoods. This design encourages pedestrians to walk from paseo's to the pocket parks.



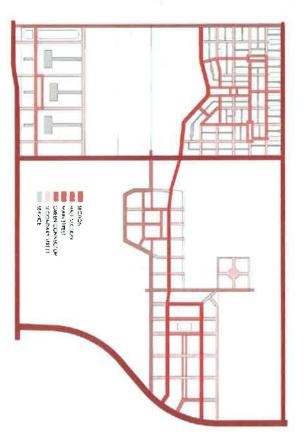
#### **WATER NETWORK:**

This diagram illustrates how to allow a natural water flow to be used to interconnect each of the neighborhoods, while also creating natural features in the landscape.



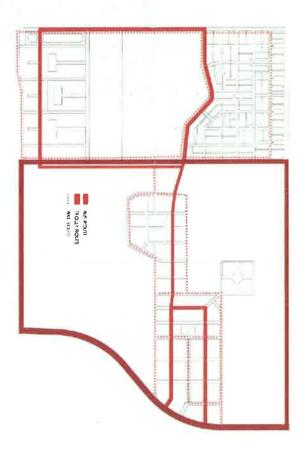
#### STREET NETWORK:

This diagram illustrates a hierarchy of roads ranging from the major collectors (dark colored) to the local neighborhood streets (light colored). The roadways are layout to permit multiple access routes within each neighborhood.



#### TRANSIT NETWORK:

This diagram illustrates dedicated routes to support three forms of public transportation;
1) expanded county bus route (dark red);
2) local trolly (light red) stopping at each neighborhood; and, 3) dedicated bicycle (red dots) lanes.





## **Charrette Master Plan II**

This master plan shows an additional 215 acres infilling the balance of the lands between 167th avenue and the majority land owner and a section of land along the west side adjacent to Kendall Drive. Master Plan II continues the networks of streets, waterways, and greens with the previous seemlessly. The combination of both master plan I + master plan II are projected to create a population growth of 22,854 residents, provide 10,138 residential units and 4,195,837 square feet of non-residential (government offices, residential and commercial space) and create 9,091 permanent jobs.

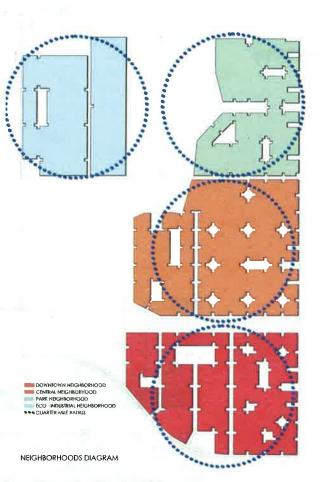




# MINED USE ILITOTYCONX RESIDENTIAL (IOWNHOUSE) RESIDENTIAL (IOWNHOUSE

#### NEIGHBORHOODS:

This diagram illustrates four differently colored neighborhoods; 1) downtown; 2) central; 3) park; and, 4) EIP. The circles shows five minute walking distance between each neighborhood.



#### **GREEN NETWORK:**

This diagram illustrates a network of public greens interconnecting the four neighborhoods. This design encourages pedestrians to walk from paseo's to the pocket parks.



### **WATER NETWORK:**

LANDUSE:

This diagram illustrates

the location of landuses

within each district. The

located along the col-

lector roads and at the

downtown district, the

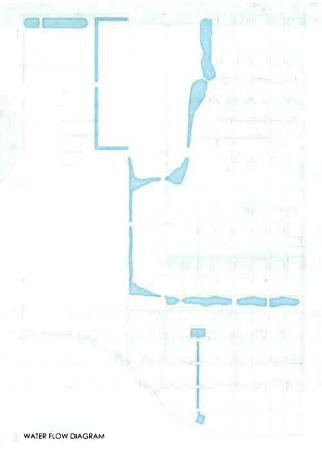
cates the EIP, the other

colors represent single

light grey color indi-

dark red (mix-use) is

This diagram illustrates how to allow a natural water flow to be used to interconnect each of the neighborhoods, while also creating natural features in the landscape.



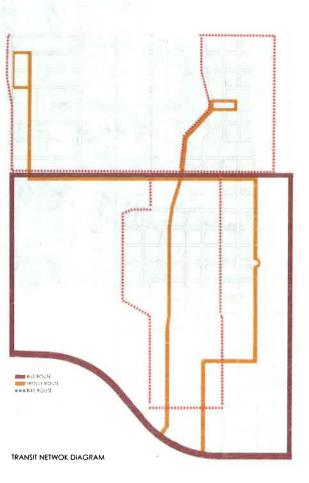
#### **STREET NETWORK:**

This diagram illustrates a hierarchy of roads ranging from the major collectors (dark colored) to the local neighborhood streets (light colored). The roadways are layout to permit multiple access routes within each neighborhood.



#### TRANSIT NETWORK:

This diagram illustrates dedicated routes to support three forms of public transportation;
1) expanded county bus route (dark red);
2) local trolly (light red) stopping at each neighborhood; and, 3) dedicated bicycle (red dots) lanes.

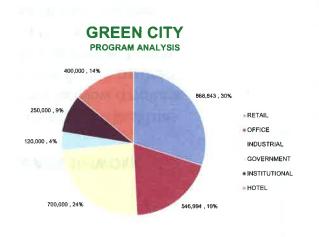


GREEN CITY MIAMI,



# Master Plan I - Program

It was calculated, in the tables below, the proposed program of "Master Plan I" would produce a projected population growth of 9,803 residents of which 1,658 will be of school age for grades from Kindergarden to High School. These people would be living in 4,303 residential units ranging from single family homes to mid-rise buildings and they would have the opportunity to work in the 5,272 new jobs created from the 2,885,837 sq. ft. of non-residential (government, commercial and office).



	CIVIC	SHOPFRONT	WORKSHOP	RESIDENTIAL	ROADWAYS	GREENS
LAND ALLOCATION (ACRES)	20	20	13	141	71	185
TOTAL ACRES	450					
	RETAIL	OFFICE	INDUSTRIAL	GOVERNMENT	INSTITUTIONAL	HOTEL
PROGRAM SQ FT,	868,843	546,994	700,000	120,000	250,000	400,000
TOTAL NON-RESIDENTIAL	2,885,837	SQ. FT,				
TOTAL RESIDENTIAL	4,303	UNITS			73	
OPULATION PROJECTIONS	9,803	RESIDENTS				
STUDENT GENERATION	1,658	ELEMENTARY	THROUGH HIGH	H SCHOOL (K-12)		
IPLOYMENT ASSUMPTIONS	5,272	NUMBER OF JO	OBS THAT WILL	BE CREATED WIT	TH THE PROPOSED	PROGRAM

			GREEN CITY NEIGHBORHO	OODS PROGRAM ANALY	SIS					
						SQUA	RE FEET			ACRE(S)
NEIGHBORHOOD	UNITS	ACRES	DENSITY	RETAIL	OFFICE	INDUSTRIAL	GOVERNMENT	INSTITUTIONAL	HOTEL	PARK/GREEN
DOWNTOWN	2,317	30,89	75 d.u./acre	443,551	139,902		120,000	- 3	200,000	10
CENTRAL	574	35.54	24 d.u./acre	158,820	27,866	*:	1.54	100,000	1.5	15
PARK	646	62.77	8 d.u./acre	49,288	54,374	#2	\(\mathbb{e}\)	3/		120
EIP	766	44.08	75 d.u./acre	217,185	324,853	700,000	16	150,000	200,000	40
TOTAL	4,303	173.29		868,843	546,994	700,000	120,000	250,000	400,000	185

		100		GREEN (	CITY PROJECTION	ONS					
POPULATION PROJECTIONS				STUDENT GENERATION				NON-RESIDENTIAL NEEDS			
Program	Units	Ratio	Population	Program	Units	Ratio	Students	Program	Units	Sq.Ft./D.U.	Sq.Ft.
Ass't Living	0	0	-	Ass't Living	0	0	12	Retail	4,303	60	258,184
Hotel	0	0	12	Hotel	0	0	12	Office	4,303	15	64,546
Mixed-Use	2,971	2,14	6,358	Mixed-Use	2,971	0.37	1,099	Institutional	4,303	30	129,092
Multi-Family	686	2.23	1,530	Multi-Family	686	0.37	254				
Townhouse	541	2.9	1,569	Townhouse	541	0.46	249				
Single Family	105	3.3	347	Single Family	105	0.53	56				
Total	4,303		9,803	Total	4,303		1,658	Total			451,822

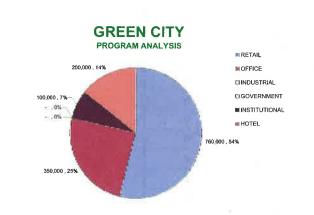
-11 -1-1	EMPLOYMENT	ASSUMPTIONS		Ti to
Program	SF/Employee	AREA	Range/Employee	Jobs
Retail - Neighborhood	450	820,843	450-650 sq.ft.	1,93
Office Class A	350	546,994	225-450 sq.ft.	1,56
Grocery	700	48,000	per sq.ft.	69
Cinema	1500		per sq.ft.	*:
Restaurant (Sit)	450	386	per sq.ft.	+:
Restaurant (Fast)	100	(36)	per sq.ft.	
Government	500	120,000	per sq.ft.	24
Hotel	1800	400,000	0.5-1.0/room	22
ACLF/Nursing	1	200	1 per bed	20
Parks & Recreation	1	185	1 per acre	18
Institutional	300	150,000	225-1,000 sq.ft	50
Warehouse	4250	350,000	1,000-7,500 sq.ft.	8
Industrial	2500	350,000	2,500-10,000 sq.ft.	28
Total				5,27





# Master Plan II - Program

It was calculated, in the tables below, the proposed program of "Master Plan II" would produce an additional projected population growth of 13,051 residents of which 2,181 will be of school age for grades from Kindergarden to High School. These people would be living in 5,835 residential units ranging from multi-family apartments to mid-rise buildings and they would have the opportunity to work in the 3,819 new jobs created from the 1,310,000 sq. ft. of non-residential (commercial and office).



		GREEN C	ITY SUMMA	RY		
	CIVIC S	OPFRONT WO	ORKSHOP	RESIDENTIAL	ROADWAYS	GREENS
LAND ALLOCATION (ACRES)	15	30	30	100	35	20
TOTAL ACRES	215					
	RETAIL	OFFICE IN	DUSTRIAL	GOVERNMENT	INSTITUTIONAL	HOTEL
PROGRAM SQ FT	760,000	350,000	7.5	ia i	100,000	200,000
TOTAL NON-RESIDENTIAL	1,310,000 SC	FT				
TOTAL RESIDENTIAL	5,835 UN	ITS				
POPULATION PROJECTIONS	13,051 RE	SIDENTS		*		
STUDENT GENERATION	2,181 EL	EMENTARY TH	ROUGH HIGH S	SCHOOL (K-12)		
MPLOYMENT ASSUMPTIONS	3,819 NU	MBER OF JOBS	S THAT WILL B	CREATED WITH TH	E PROPOSED PRO	OGRAM

			G	REEN CITY	NEIGHBORHOO	DS PROGRAM ANAL	YSIS					
NEIGHBORHOOD	UNITS	ACRES	HIGH	MEDIUM	LOW	RETAIL	OFFICE IN	SQUARE FE	T(E)	INSTITUTIONAL	HOTEL	ACRE(S) PARK/GREEN
DOWNTOWN	3,585	105.00	75	24		660,000	300,000		*	100,000	200,000	
CENTRAL	2,250	110.00		24	8	100,000	50,000			100		
TOTAL	5.835	215.00				760,000	350 000	-	-	100 000	200 000	

POPULATION PROJECTIONS							
Program	Units	Ratio	Population				
Ass'l Living	0	0					
Hotel	0	0					
Mixed-Use	1,425	2.14	3,050				
Multi-Family	4,160	2.23	9,277				
Townhouse	250	2.9	725				
Single Family		3.3					
Total	5,835		13,051				

	GREEN CITY PRO	DJECTIONS	
	STUDENT GE	NERATION	
Program	Units	Ratio	Students
Ass't Living	0	0	
Hotel	0	0	
Mixed-Use	1,425	0,37	527
Multi-Family	4,160	0.37	1,539
Townhouse	250	0.46	115
Single Family		0.53	*
Total	5,835		2,181

- 1	ION-RESIDENTI	AL NEEDS	
Program	Units	Sq.Ft./D.U.	Sq.Ft.
Retail	5,835	60	350,100
Office	5,835	15	87,525
Institutional	5,835	30	175,050
Total			612,675

Program	SF/Employee	AREA	Range/Employee	Jobs
Retail - Neighborhood	450	712,000	450-650 sq.ft.	1,689
Office Class A	350	350,000	225-450 sq.ft.	1,000
Grocery	700	48,000	per sq.ft.	69
Cinema	1500	(e:	per sq.ft	*
Restaurant (Sit)	450	350	per sq.ft.	-
Restaurant (Fast)	100		per sq.ft.	3
Government	500	120,000	per sq.ft.	240
Hotel	1800	200,000	0,5-1,0/room	111
ACLF/Nursing	1	200	1 per bed	200
Parks & Recreation	1	10	1 per acre	10
Institutional	300	150,000	225-1,000 sq.ft	500
Warehouse	4250	( to the state of	1,000-7,500 sq.ft.	-
Industrial	2500		2,500-10,000 sq.ft.	- 4
Total				3,819

School	Name	Students	Teachers	Student/Teacher Ratio	Populated	Available	Address
Elementary	Christina M. Eve Elementary	783	52	15.1	84%	16%	16251 SW 99th Street
Middle	Lamar Louise Curry Middle	1,502	57	26.4	120%	-20%	15750 SW 47th Street
High	John A. Ferguson Senior	2,595	114	22.8	95%	5%	15900 SW 56th Strret
- 77	de County voters elected to limit the	public school ch	assroom size	in each grade level as follows		070	10300 GW DOWN GWG
- 77	- In the second	public school cla \$ E		7050		378	18300 GW BOIN GING



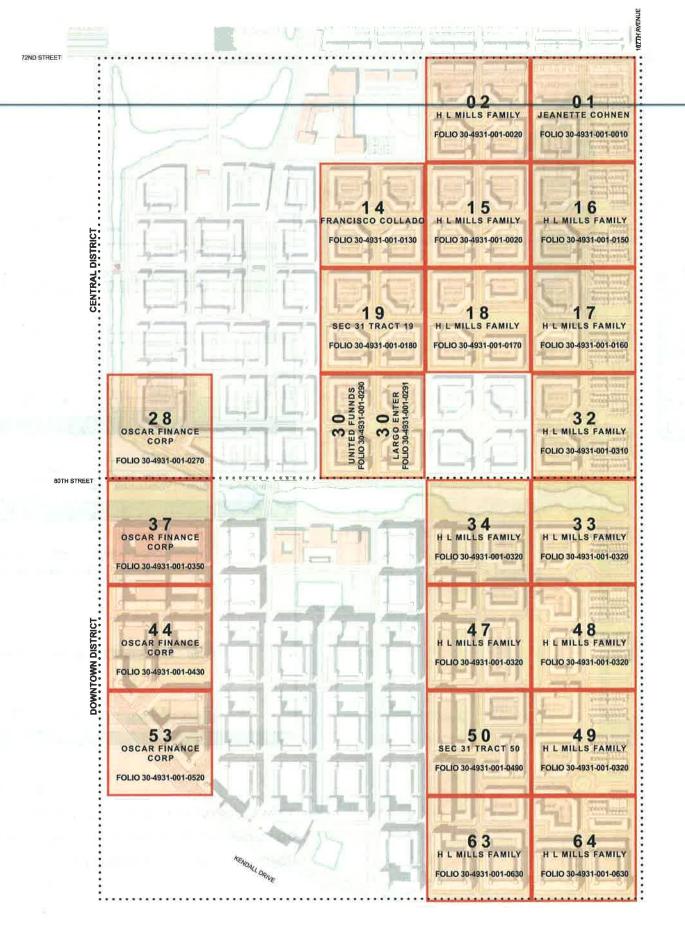
# 10 ACRE OWNERSHIP PATTERN



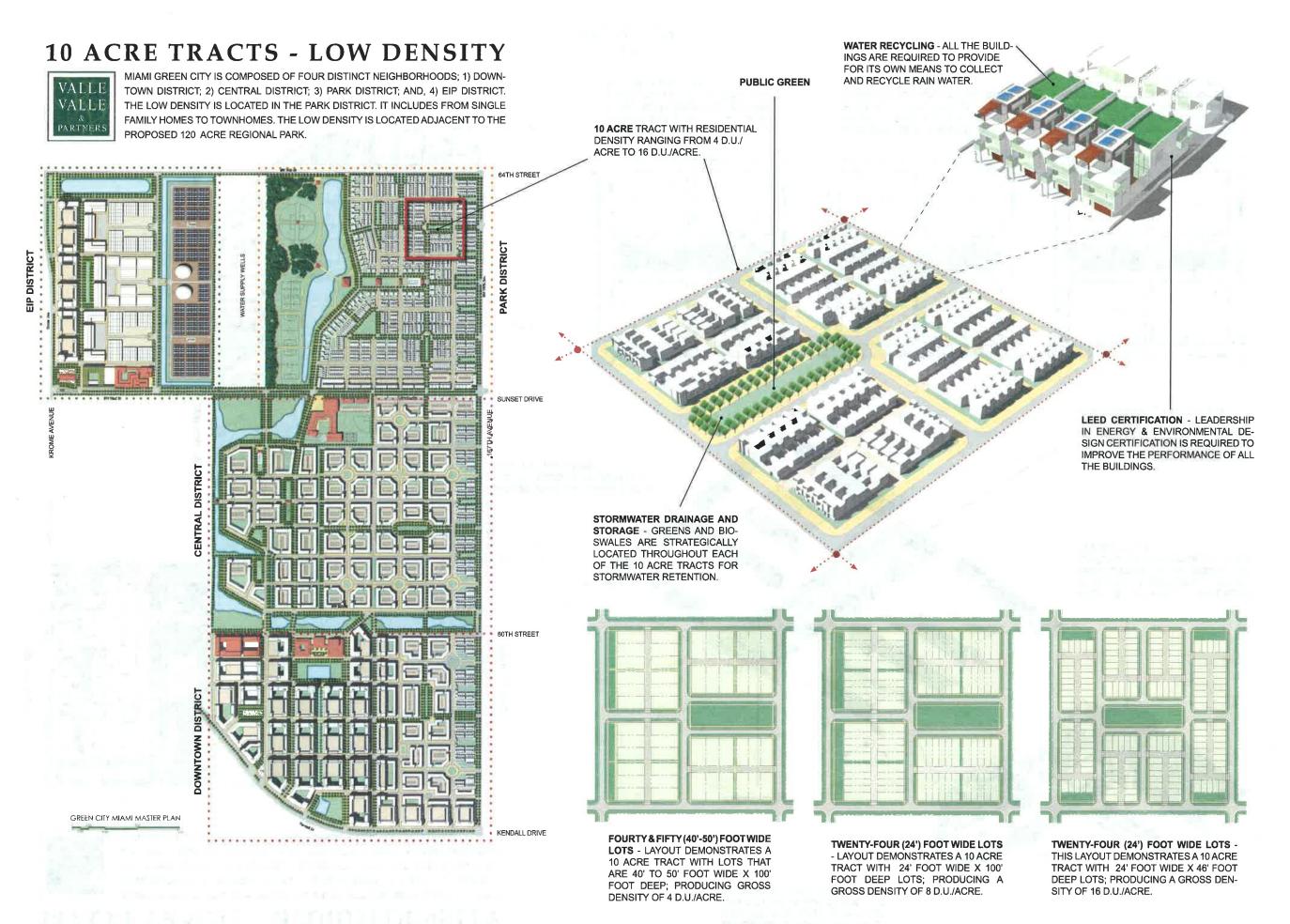
GREEN CITY MIAMI IS SPREAD OVER 660 ACRES. THE MAJORITY OF THE LAND, 445 ACRES. IS OWNED BY CONSTRUCTORA LIMONAR. THE OWNERSHIP PATTERN OF THE BALANCE OF THE SITE IS ILLUSTRATED HERE. THE NEXT LARGEST LAND OWNER IS THE HL MILLS FAMILY WITH 120 ACRES, THEN THE OSCAR FINANCE CORP WITH 35 ACRES AND THE BALANCE OF 60 ACRES IS OWNED IN 5 & 10 ACRE TRACTS.

		CENTRAL DISTRIC	Т	
TRACT	ACRES	RETAIL	OFFICE	RESIDENTIA
01	10	50,000	25,000	210
02	10	50,000	25,000	240
16	10	<b>2</b> 1		160
15	10	Ē:		240
14	10	100		240
17	10	* *		160
18	10	l <b>e</b> s	26	240
19	10	*	i.€	240
32	10	e?	88	160
30	05		(es	120
30	05	80	(2)	120
28	10	<b>1</b>		120
TOTAL	110	100,000	50,000	2,250
		DOWNTOWN DISTRIC		
TRACT	ACRES	RETAIL	OFFICE	RESIDENTIA
33	10		(2)	80
34	10	2:	(4)	120
37	10	LANDS DESI	GNATED FOR NEW URBAN	K-20 SCHOOL
48	10	<b>E</b> (		160
47	10	<b>9</b> 7	XS	495
44	- 10	60,000	122	750
49	10	_ = 23	950	160
50	10		2	495
53	05	120,000	60,000	375
64	10	240,000	120,000	455
63	10	240,000	120,000	495

PROGRAM DISTRIBUTION BY DISTRICT - THE ABOVE TABLES PROJECT THE ADDITIONAL PROGRAM GENERATED FROM INCLUSION OF LAND AREAS WITHIN THE CENTRAL AND DOWNTOWN DISTRICTS THAT ARE HELD IN OWNERSHIP BY OTHERS.



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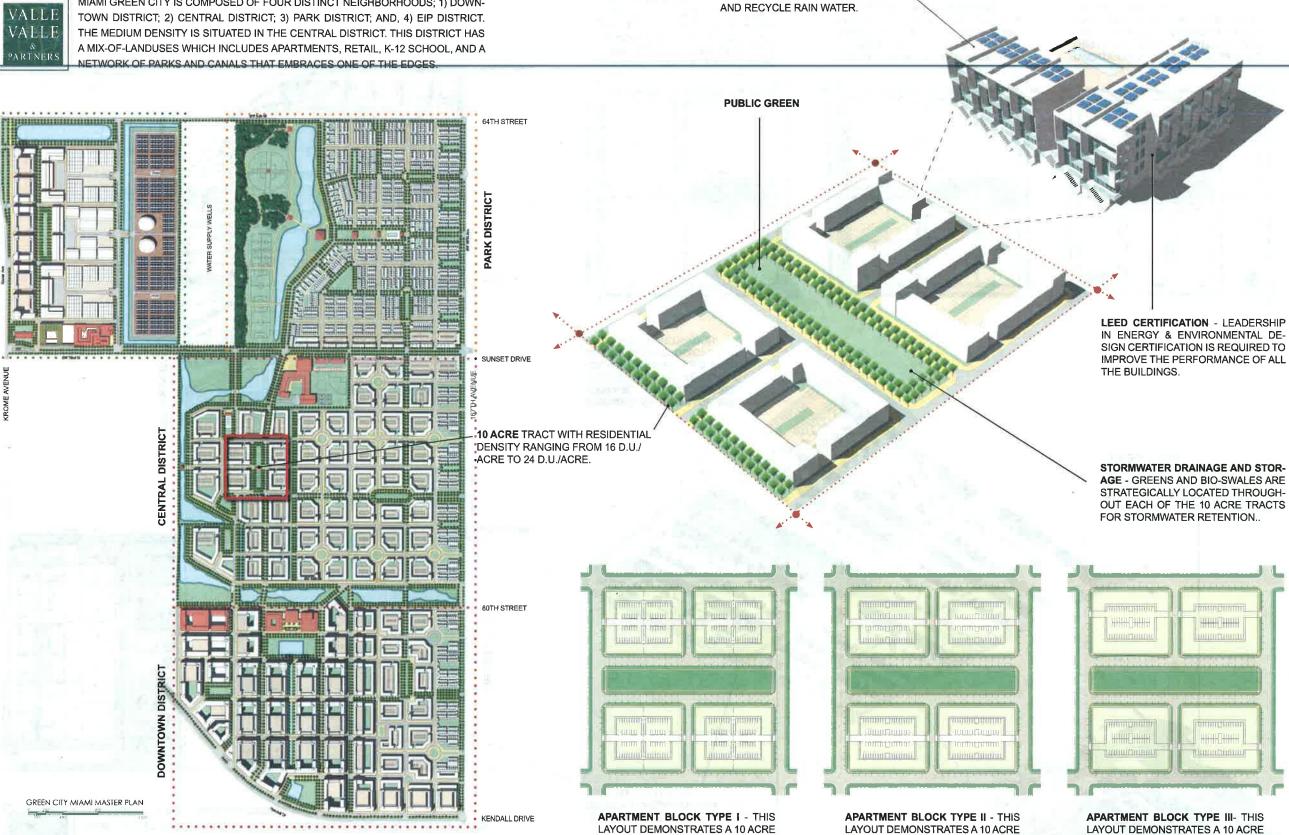


17 GREEN CITY MIAMI,

# 10 ACRE TRACTS - MEDIUM DENSITY



MIAMI GREEN CITY IS COMPOSED OF FOUR DISTINCT NEIGHBORHOODS; 1) DOWN-



WATER RECYCLING - ALL THE BUILD-INGS ARE REQUIRED TO PROVIDE FOR ITS OWN MEANS TO COLLECT

SITY OF 24 D.U./ACRE.

TRACT WITH FOUR PARCELS PER

BLOCK; PRODUCING A GROSS DEN-

TRACT WITH TWO PARCELS PER

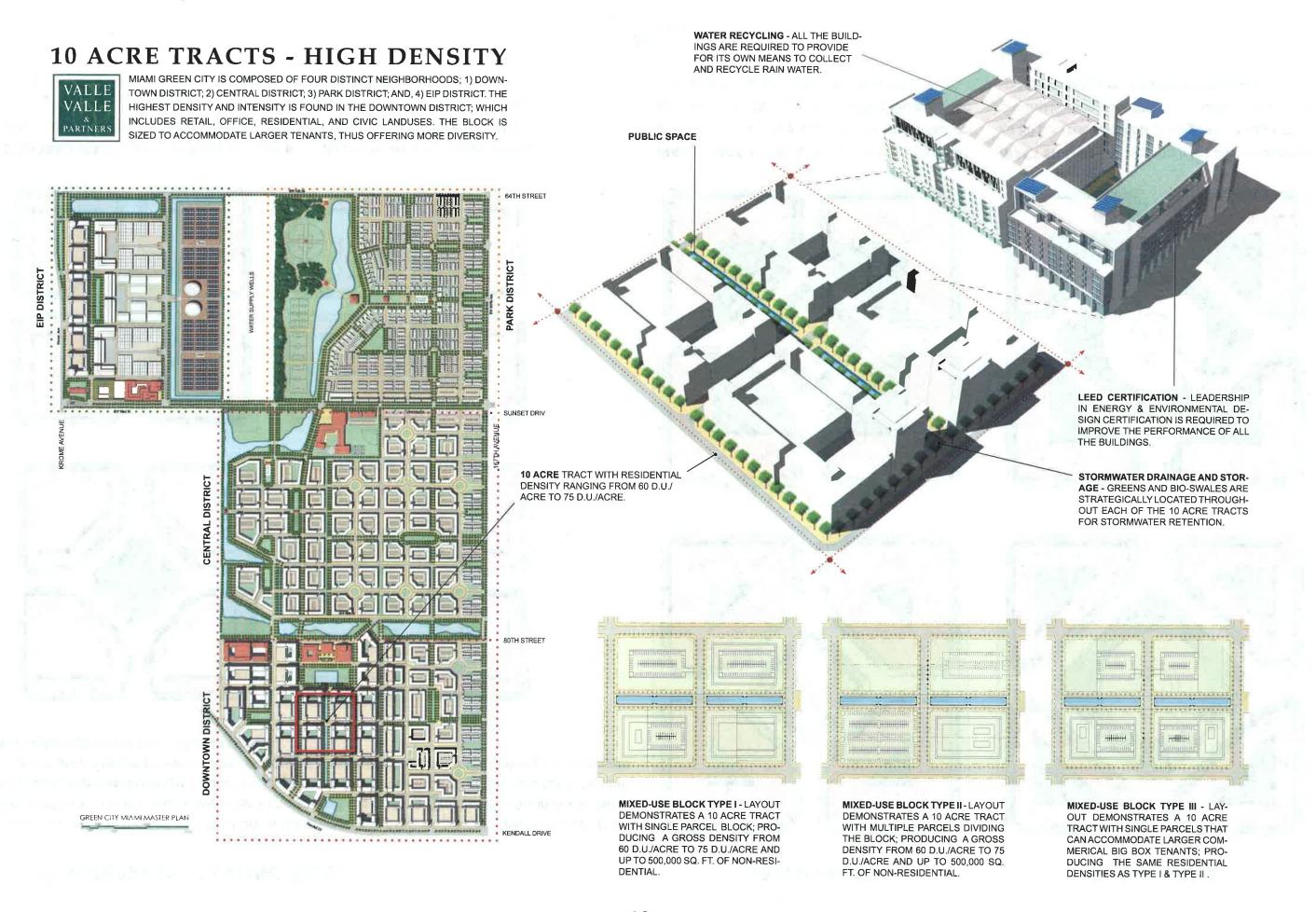
BLOCK; PRODUCING A GROSS DEN-

SITY OF 20 D.U./ACRE.

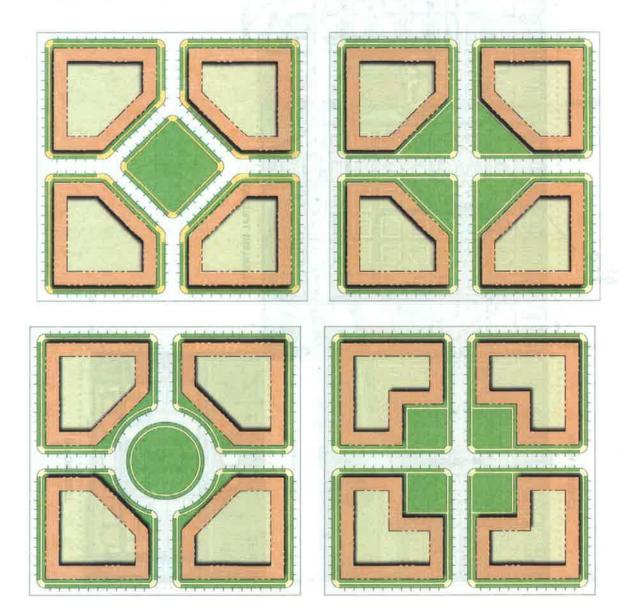
TRACT WITH ONE PARCEL OVER

AN ENTIRE BLOCK; PRODUCING A

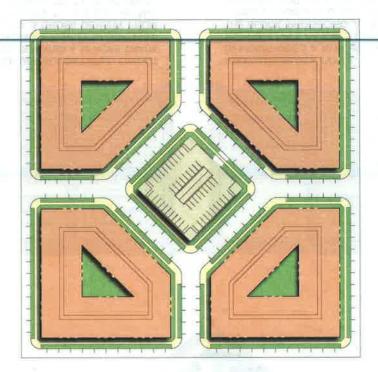
GROSS DENSITY OF 16 D.U./ACRE.

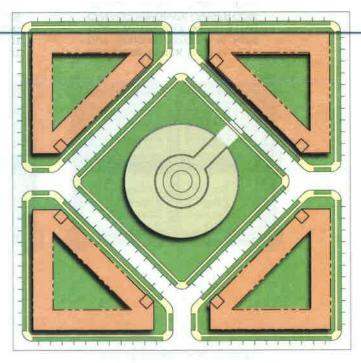


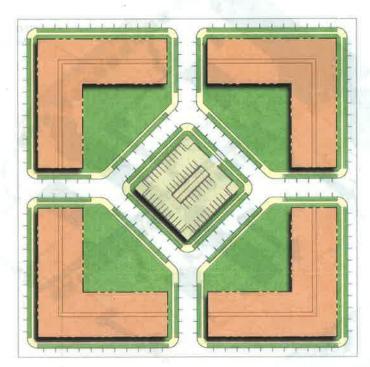
The entire study area within Green City Miami is subdivided into 10 acre parcels. This increment presents an opportunity to study alternative ways to handle off-site parking. Each of the diagrams, in these next two pages, represent a single 10 acre parcel that has been subdivided into four equal blocks with public greens and a single five-story parking garage surrounded by perimeter buildings that access the parking garage along pedestrian bridges.

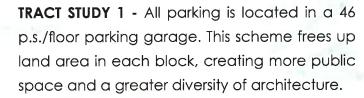


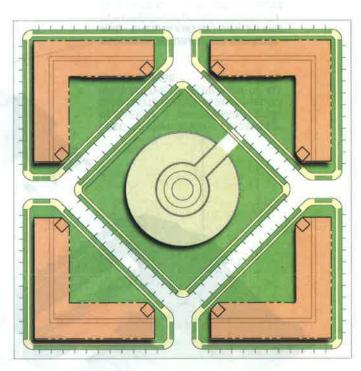
**STANDARD TRACT** - Each of these 10 acre tract studies have a common thread that makes then the same; they have a density of 18 d.u./acre and all the off-site parking (shown in light grey) is located in the rear of the buildings. What distinguishes each is how they crave the public and semi-public green space.



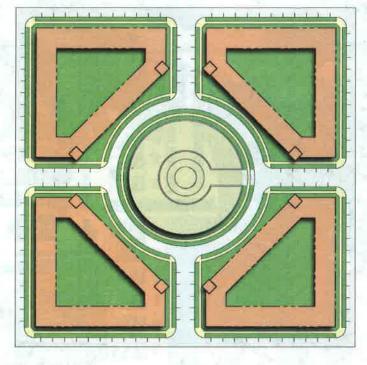


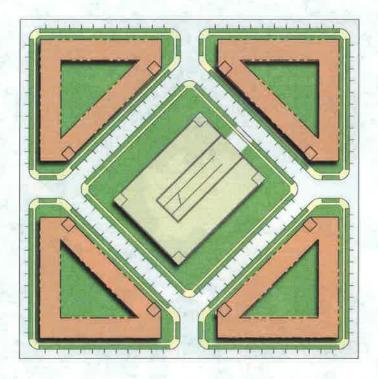


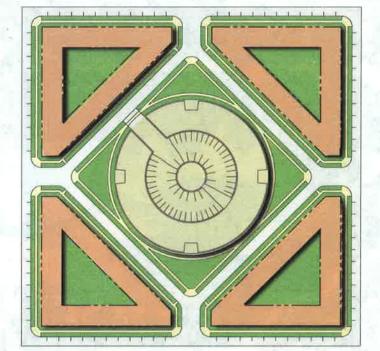


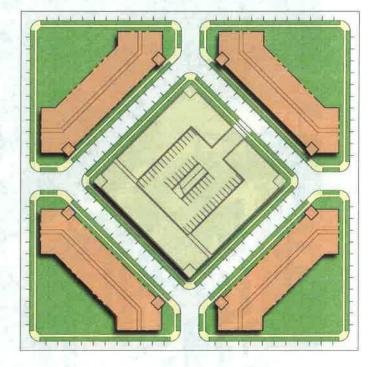


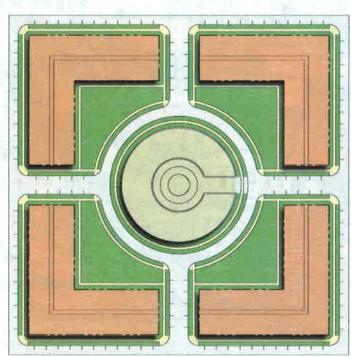
**TRACT STUDY 2** - All parking is located in a circular 88 p.s./floor parking garage with program at ground level in a rectangular block. This scheme splits up the green areas of each block.

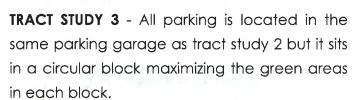


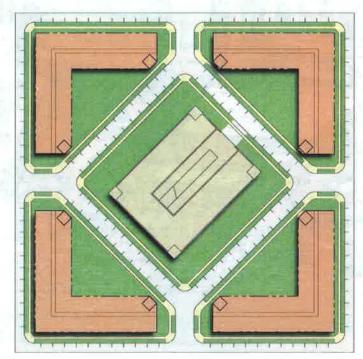




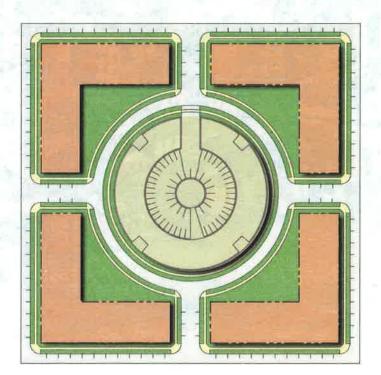




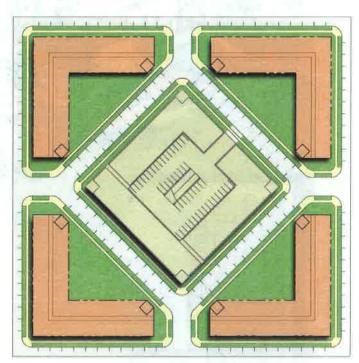




**TRACT STUDY 4** - All parking is located in a 128 p.s./floor parking garage with program at the ground level in a rectangular block. This scheme limits the layout within each block.



**TRACT STUDY 5** - All parking is located in a circular 208 p.s./floor parking garage with program at the ground level in a circular block. This scheme flows traffic more smoothly.



**TRACT STUDY 6** - All parking is located in a 208 p.s./floor parking garage with program at the ground level in a rectangular block. This scheme slows down traffic.







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# HYDROPONICS FARMING



THE HYDROPONICS FACILITY GROWS PLANTS WITHOUT SOIL UTILIZING 1/3 THE WATER. THE VALUE OF HYDROPONICS GROWING IS TO PRODUCE HIGHER YIELDS, WITH LESS PESTICIDES AND LESS WATER WASTE. HYDROPONICS VEGETABLES TASTE BETTER THAN GARDEN ONES BECAUSE THEY GET ALL THE MICRONUTRIENTS MAKING THEN SUPERIOR IN TASTE, COLOR, SIZE, AND EVEN NUTRITIONAL VALUE.



HYDROPONICS FACADE

THE ROOFTOP **SOLAR PANELS** WILL PROVIDE KILOWATTS OF ELECTRICTY AND HOT WATER FOR USE BY THE BUILDING.

LEED - LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN IS REQUIRED TO IMPROVE PERFORMANCE OF ALL BUILDINGS.

INTERIOR HIGH INTENSITY DISCHARGE LIGHTS
ARE USED TO REPRODUCE THE BLUE END OF
THE SPECTRUM FOR YOUNG PLANTS.

SECURELY **VENTILATED** SUNSPACE TO PROVIDE FOR COOLING OF THE BUILDING.

EXTERIOR SUN SHADE SCREENS ARE USED TO PROVIDE FOR COOLING OF THE BUILDING.

SECURED LONG TERM, **BIKE PARKING** IS PROVIDED ON-SITE AND WITHIN THE RESIDENTIAL HOME.

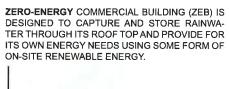
THE **WIND** IS CAPTURED AND REDIRECTED ALLOWING NATURAL VENTILATION OF THE BUILDING THROUGH LARGE VERTICAL OPENINGS ALONG THE FACADE AND THROUGH ITS ROOF TOP VENTS.



**OPEN AIR BIO-SWALE GARDENS** 



THE RAINWATER IS COLLECTED ON THE CATCHMENT AREA IN THE ROOF TOP. THE HARVESTED RAINWATER IS CONVEYED THROUGH THE ROOF DRAINS AND PIPING TO A SINGLE POINT OF DISCHARGE INTO STORAGE TANKS.



ONE ADVANTAGE OF HYDROPONICS AGRICULTURE IS THAT IT CAN BE GROWN VERTICALLY SO IT CAN BE FIVE TO TEN TIMES MORE PRODUCTIVE IN THE SAME AMOUNT OF LAND.









SOILESS CONTROLLED AGRICULTURE



BUS STATION

LARGE CANOPY STREET TREES

PROVIDE FOR SHADING AND COOLING ALONG THE SIDEWALKS.

METAL FRAME WALLS ARE DESIGNED TO ALLOW FOR OPTIMUM PLANT LIGHT-ING AND NATURAL VENTILATION.

DEDICATED BIKE LANE

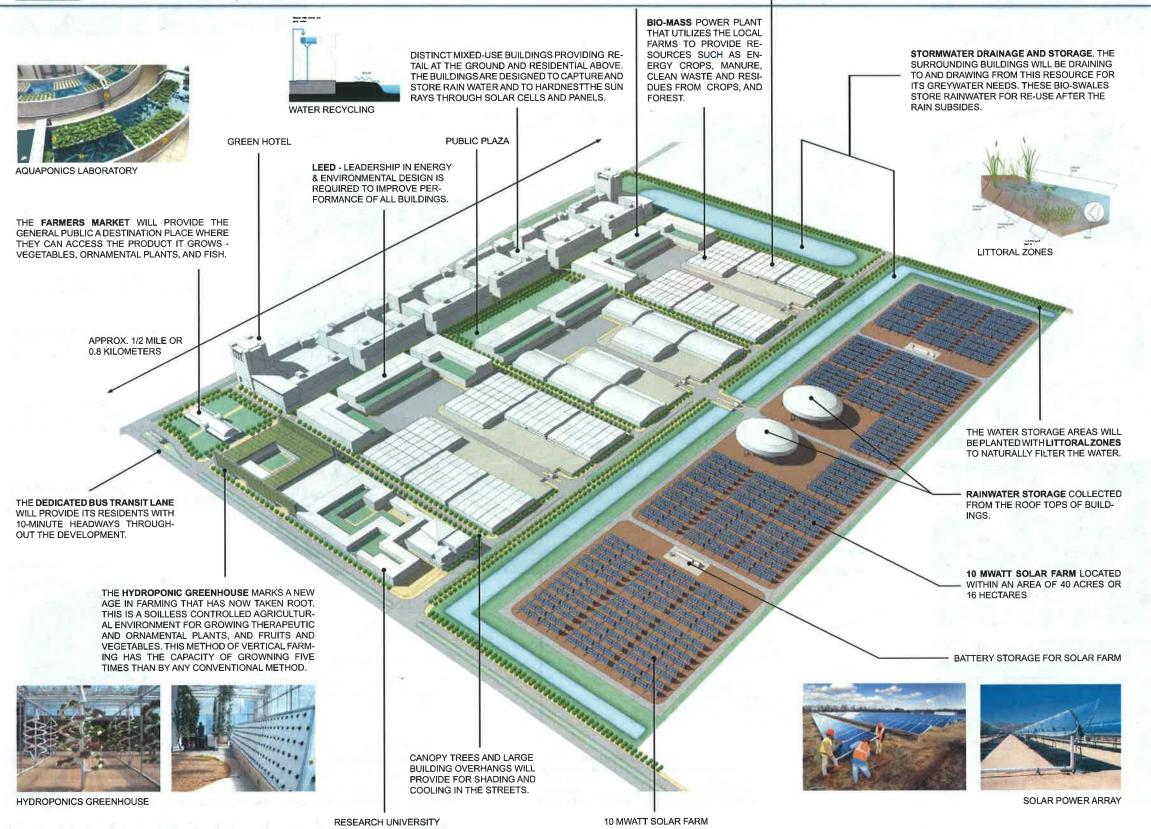
## **ECO-INDUSTRIAL PARK DISTRICT**



THIS CARBON-NEUTRAL ECO-INDUSTRIAL PARK IS SITUATED ON 120 ACRES (50 HECTARES). IT WILL PROVIDE FACILITIES FOR A RESEARCH INSTITUTE WITH EMPHASIZE ON HYDROPONICS, AQUAPONICS, AND RENEWABLE ENERGY. INCLUDING OVER 200,000 SQ. FT. OF RETAIL, 325,000 SQ. FT. OF OFFICE, 766 RESIDENTIAL UNITS, A HOTEL AND 700,000 SQ. FT. OF WAREHOUSE SPACE.

THESE MIXED-USE BUILDINGS PROVIDE OFFICE AND RESIDENTIAL USES. THE BUILDINGS ARE DESIGNED TO CAPTURE AND STORE RAIN WATER THROUGH ITS GREEN ROOF TOPS AND PROVIDE FOR ITS OWN ENERGY NEEDS THOUGH SOLAR CELLS AND PANELS.

WAREHOUSES ARE LAYED OUT IN SECURED CUSTERS SEPARATING TRUCK AND VEHICULAR TRAFFIC. THEY ARE DESIGNED TO CAPTURE AND STORE RAIN WATER AND PROVIDE FOR ITS OWN ENERGY NEEDS THROUGH SOLAR CELLS AND PANELS.



## COMMERICAL BUILDING SECTION

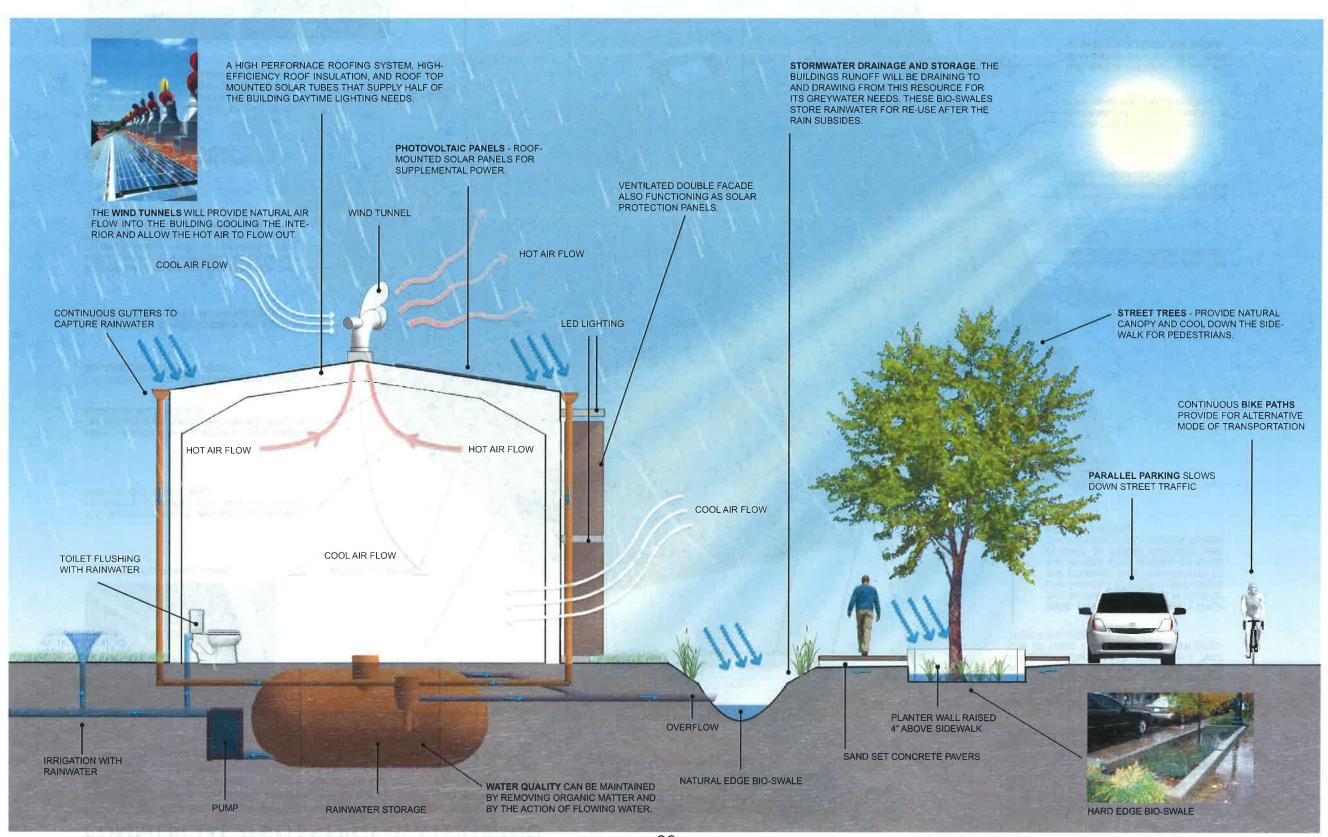


NET ZERO COMMERICAL APPLICATIONS HAVE A HIGH PAY BACK BECAUSE THEY HAVE LARGE ROOF AND FACADE SURFACES TO CAPTURE WATER AND TO HARDNEST THE SUN. IN WAREHOUSES, THE LARGE FACADES CAN ALSO BE USED TO CAPTURE NATURAL AIR FLOW TO COOL DOWN THE INTERIOR OF BUILDINGS AND WHEN DOUBLED WITH SOLAR PANELS PROVIDE PROTECTION FROM THE SUN.

ENERGY. THE LARGE ROOF SURFACES ARE USED TO CAPTURE THE SUN RAYS AND HARNEST INTO ENERGY FOR USED BY THE BUILDING AND EXCESS ENERGY IS PLACED BACK ON THE UTILITY GRID.

**WATER**, THE COLLECTED RAINWATER CAN BE USED FOR NON-PORTABLE USES SUCH AS IRRIGATION, TOILETS AND URINALS, LAUNDRIES, MECHANICAL SYSTEMS, FOUNTAINS, CAR WASHING, AND RECHARGE.

WIND, NATURAL AIR FLOW CAN BE HARD-NEST TO COOL DOWN THE INTERIOR OF BUILD-INGS OR ADJACENT PUBLIC SPACES. VENTI-LATED DOUBLE FACADE PANELS AND WIND TUNNELS PROVIDE OPTIONAL CHOICES,



#### COMMERCIAL ZERO ENERGY+WATER+WIND



ZERO-ENERGY COMMERICAL BUILDING UTILIZES RENEWABLE ENERGY SOURCES WITHIN THE BUILDING FOOTPRINT AND AT THE SITE AND IT ALSO HARVESTS RAINWATER. IT IS KNOWN THAT THE LARGER THE ROOF SURFACE AREA THE GREATER KILOWATTS ATTAINABLE THROUGH SOLAR ARRAYS AND THE HIGHER GATHERING CAPACITY OF WATER. THE WIND IS REDIRECTED TO COOL THE BLD'GS INTERIOR.

NATURAL LIGHTING

OF DISCHARGE INTO THE STORAGE TANK.

ZERO-ENERGY COMMERCIAL BUILDING (ZEB) IS DESIGNED TO CAPTURE AND STORE RAINWATER THROUGH ITS ROOF TOP AND PROVIDE FOR ITS OWN ENERGY NEEDS USING SOME FORM OF ON-SITE RENEWABLE ENERGY.

EXTRACTED RAINWATER USED FOR COOLING

EXTRACTED RAINWATER USED FOR LOW FLOW

TOILETS PROVIDING WATER FOR FLUSHING.

BELOW GRADE CISTERN/STORAGE TANK. HARVESTED WATER FOR USE IN THE BUILDING IS EXTRACTED FROM THE CLEANEST PART OF THE TANK, JUST BELOW THE SURFACE OF THE WATER. WATER QUALITY IS MANTAINED BY REMOVING THE ORGANIC MATTER AND BY ACTION OF INCOMING WATER WHICH INTRODUCES OXYGEN AND AVOIDS MALODOROUSNESS.



ROOF TOP SOLAR PANEL ARRAY

THE RAINWATER IS COLLECTED ON THE CATCHMENT AREA IN THE ROOF TOP. THE HARVESTED REAINWATER IS CONVEYED THROUGH THE
ROOF DRAINS AND PIPING TO A SINGLE POINT

ON-SITE **BIO-MASS** POWER PLANT THAT RUNS ON BIOLOGICAL MATERIAL SUCH AS WOOD, WASTE, GAS, AND ALCOHOL FUELS THAT CAN BE IMPORTED FROM OFF-SITE, OR WASTE STREAMS FROM ON-SITE PROCESSES THAT CAN BE USED ON-SITE TO GENERATE ELECTRICITY AND HEAT.

NOTE: LOCAL CITY OR COUNTY UTILITIES SHOULD BE SECURED IN CASE OF LOW RAINFALL SEASON TO REPLENISH THE STORAGE TANK. CONNECTION TO THE POWER GRID SHOULD BE MADE IN CASE OF POWER OUTRIDGE AND TO OPTIONALLY SELL EXCESS POWER BACK TO THE GRID.

THE ROOFTOP **SOLAR PANELS** WILL PROVIDE KILOWATTS OF ELECTRICTY AND HOT WATER FOR USE BY THE BUILDING.

LEED - LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN IS REQUIRED TO IMPROVE PERFORMANCE OF ALL BUILDINGS.

EXTERIOR AND INTERIOR LED LIGHTING IS USED TO CONSUME LOW ELECTRICITY.

EXTERIOR **SUN SHADE SCREENS** ARE USED TO PROVIDE FOR COOLING OF THE BUILDING.

STORMWATER DRAINAGE AND STORAGE, THE SURROUNDING BUILDINGS WILL BE DRAINING TO AND DRAWING FROM THIS RESOURCE FOR ITS GREYWATER NEEDS. THESE BIO-SWALES STORE RAINWATER FOR RE-USE AFTER THE RAIN SUBSIDES.

SECURED LONG TERM, BIKE PARKING IS PROVIDED ON-SITE FOR WORKERS.

THE **WIND** IS CAPTURED AND REDIRECTED ALLOWING NATURAL VENTILATION OF THE BUILDING THROUGH LARGE VERTICAL OPENINGS ALONG THE FACADE AND THROUGH ITS ROOF TOP VENTS.



OPEN AIR GARDEN WELL



DEDICATED BIKE LANE



OPEN AIR GARDEN WELLS

EXTRACTED RAINWATER USED FOR CAR WASHING TO CLEAN VEHICLES.

EXTRACTED RAINWATER USED FOR IRRIGATION PROVIDING WATER FOR LAWNS AND GREEN AREAS.

EXTRACTED RAINWATER USED FOR FOUNTAINS PROVIDING WATER FOR FOUNTAINS AND WATER FEATURES.

THE WATER STORAGE AREAS WILL BE PLANTED WITH LITTORAL ZONES TO NATURALLY FILTER THE WATER.



LITTORAL ZONES

GREEN CITY MIAMI,

#### **RESIDENTIAL ZERO ENERGY+WATER+WIND** ZERO-ENERGY RESIDENTIAL BUILDING UTILIZES RENEWABLE ENERGY SOURCES ZERO-ENERGY RESIDENTIAL BUILDING (ZEB) IS BELOW GRADE CISTERN/STORAGE TANK, HAR-WITHIN THE BUILDING FOOTPRINT AND AT THE SITE AND IT ALSO HARVESTS RAIN-DESIGNED TO CAPTURE AND STORE RAINWA-VESTED WATER FOR USE IN THE BUILDING IS TER THROUGH ITS ROOF TOP AND PROVIDE FOR EXTRACTED FROM THE CLEANEST PART OF VALLE WATER. IT IS KNOWN THAT THE LARGER THE ROOF SURFACE AREA THE GREATER ITS OWN ENERGY NEEDS USING SOME FORM OF THE TANK, JUST BELOW THE SURFACE OF THE KILOWATTS ATTAINABLE THROUGH SOLAR ARRAYS AND THE HIGHER GATHERING ON-SITE RENEWABLE ENERGY. PARTNERS WATER. WATER QUALITY IS MANTAINED BY RE-CAPACITY OF WATER. THE WIND IS REDIRECTED TO COOL THE BLD'GS INTERIOR. MOVING THE ORGANIC MATTER AND BY AC-TION OF INCOMING WATER WHICH INTRODUC-ES OXYGEN AND AVOIDS MALODOROUSNESS. THE RAINWATER IS COLLECTED ON THE CATCH-MENT AREA IN THE ROOF TOP. THE HARVEST-EXTRACTED RAINWATER USED FOR LOW FLOW STORMWATER DRAINAGE AND STORAGE. THE ED REAINWATER IS CONVEYED THROUGH THE TOILETS PROVIDING WATER FOR FLUSHING. SURROUNDING BUILDINGS WILL BE DRAINING ROOF DRAINS AND PIPING TO A SINGLE POINT TO AND DRAWING FROM THIS RESOURCE FOR ITS GREYWATER NEEDS. THESE PONDS STORE OF DISCHARGE INTO THE STORAGE TANK. RAINWATER FOR RE-USE AFTER THE RAIN SUBSIDES. NOTE: LOCAL CITY OR COUNTY UTILI-TIES SHOULD BE SECURED IN CASE OF LOW RAINFALL SEASON TO REPLENISH ROOF TOP SOLAR PANEL ARRAY NATURAL LIGHTING THE STORAGE TANK. CONNECTION TO THE POWER GRID SHOULD BE MADE TO IMPORT AND EXPORT BACK TO THE UTILITY GRID. THE ROOFTOP SOLAR PANELS WILL PROVIDE KILOWATTS OF ELECTRICTY AND HOT WATER FOR USE BY THE BUILDING. LEED - LEADERSHIP IN ENERGY & ENVIRONMEN-TAL DESIGN IS REQUIRED TO IMPROVE PERFOR-MANCE OF ALL BUILDINGS. EXTERIOR AND INTERIOR LED LIGHTING IS USED TO CONSUME LOW ELECTRICITY. EXTRACTED RAINWATER USED FOR CAR WASHING TO CLEAN VEHICLES. SECURELY VENTILATED SUNSPACE TO PROVIDE FOR COOLING OF THE BUILDING. THE WATER STORAGE AREAS WILL BE PLANTED WITH LITTORAL ZONES EXTERIOR SUN SHADE SCREENS ARE USED TO TO NATURALLY FILTER THE WATER. PROVIDE FOR COOLING OF THE BUILDING EXTRACTED RAINWATER USED FOR SECURED LONG TERM, BIKE PARKING **IRRIGATION PROVIDING WATER FOR** IS PROVIDED ON-SITE AND WITHIN THE LAWNS AND GREEN AREAS. RESIDENTIAL HOME. EXTRACTED RAINWATER USED FOR FOUNTAINS PROVIDING WATER FOR THE WIND IS CAPTURED AND REDIRECTED ALLOWING NATURAL VENTILATION OF THE FOUNTAINS AND WATER FEATURES. BUILDING THROUGH LARGE VERTICAL OPEN-INGS ALONG THE FACADE AND THROUGH ITS LARGE CANOPY STREET TREES PROVIDE FOR SHADING AND COOLING ALONG THE SIDEWALKS. OPEN AIR GARDEN WELL DEDICATED BIKE LANE OPEN AIR GARDEN WELLS LITTORAL ZONES

GREEN CITY MIAMI, MIAMI CHARRETTE 2011



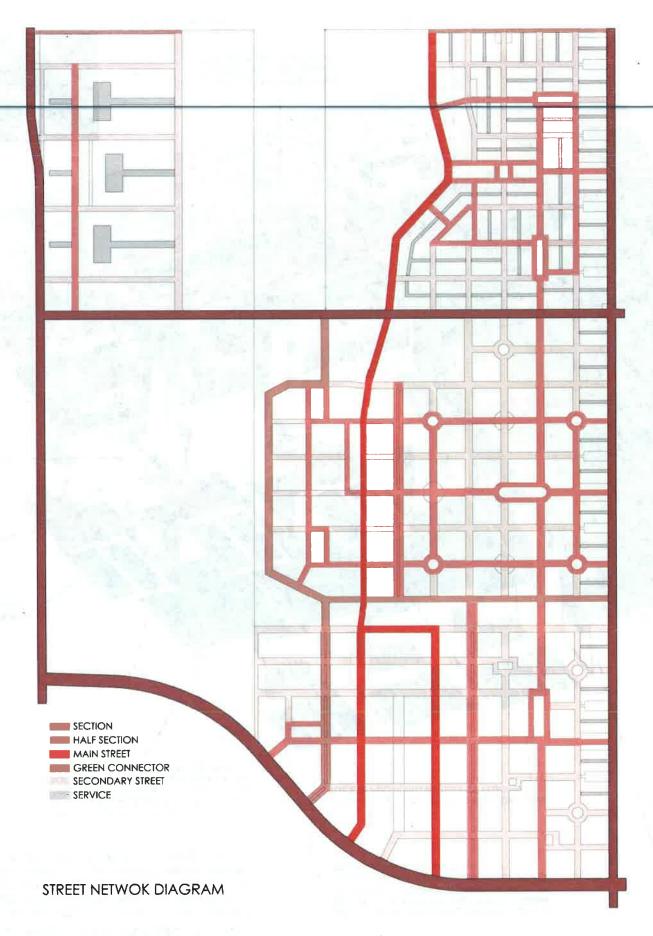
# ECO-URBANISM PUBLIC STREETSCAPE

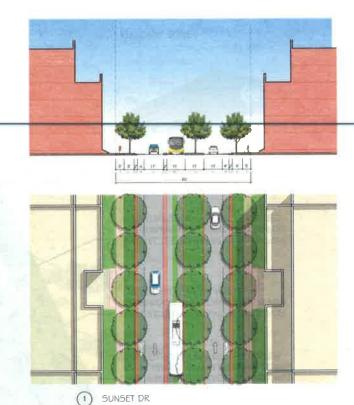
The public streetscape is that public realm that exist in-between building edges and it starts where the building meets the street. It embraces all the spaces between building facades, not just across the street from each other. The crucial ingredients to make it memorable is to balance how vehicles, transit, pedestrains, and bicyclist will interact.

The public streetscale must provide vehicles with flexability for parking and loading while also maintaining an easy flow of traffic. It must encourage public transit as an alternative mode of transporation. For the pedestrian it must feel safe, comfortable and provide protection from the sun and rain. To the bicyclist it needs to be safe with a dedicated lane and bicylist street crossing at intersections.

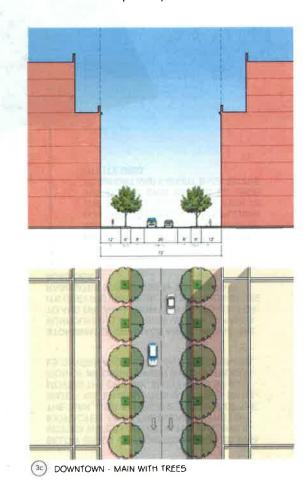
To complete the public streetscape the architecture needs to be culturally unique. Through architecture it is possible to gauge many things about the lifestyle, artistic sensibilities, social structure of a region. When all these urban ingredients are properly understood and combined the end results can bring economic viability and continued success.

The street sections illustrated here were identified as the most important neighborhood throughfares. Diagram 1 - (top right) shows the street section that provides for a dedicated transit lane that connects to the rest of the county; Diagram 2 - (bottom right) shows one-way throughfare in the heart of the Downtown district; the rest of the diagrams in the next page show a variety of ways to move traffic based on a hierarchy of streets sections.

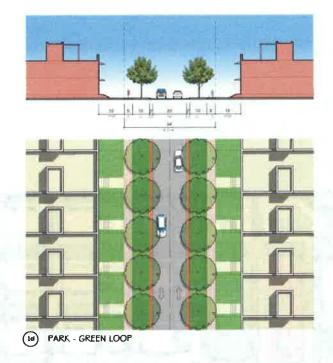




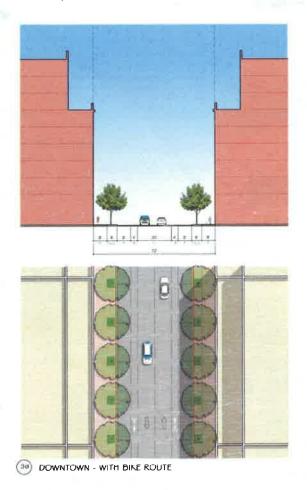
**COLLECTOR ROAD -** A road that moves traffic from local streets to arterial roads. A low to moderate-capacity road.

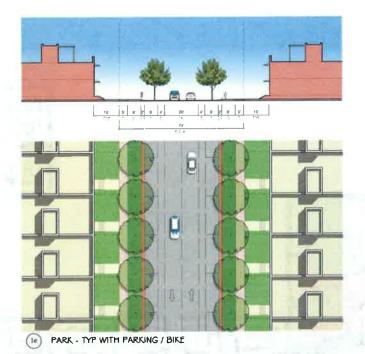


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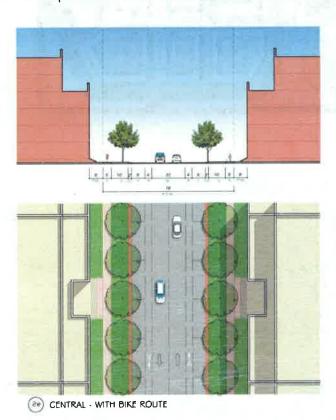


**COMMERCIAL STREET -** A road that front's retail, therefore it is designed to accommodate the pedestrian and the car.



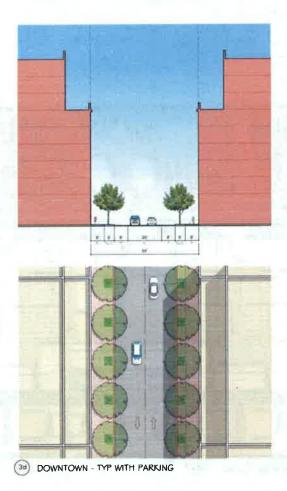


**AVENUE -** A road that moves traffic at faster speeds while providing for other modes of transporation such as dedicated bike lane.



(t) PARK - TYP WITH PARKING

**RESIDENTIAL STREET -** A road utilizing parallel parking and narrow travel lanes to slow traffic and front's residential homes.



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