

FGBC Certified Land Development

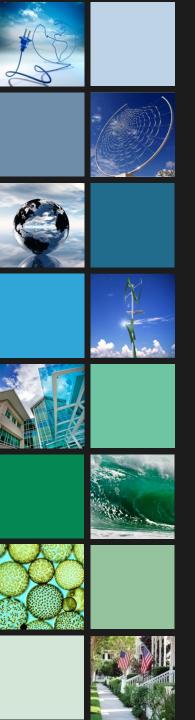










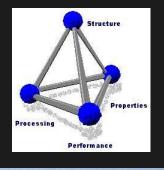


























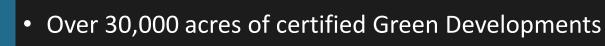


Trifecta, Since 2003















• USGBC, FGBC, NAHB, Green Globes



Host Discovery Channel's PROJECT EARTH



• Florida Contractor #1330049







Exploring Engineering for Discovery Project Earth



















We don't always have a good plan

















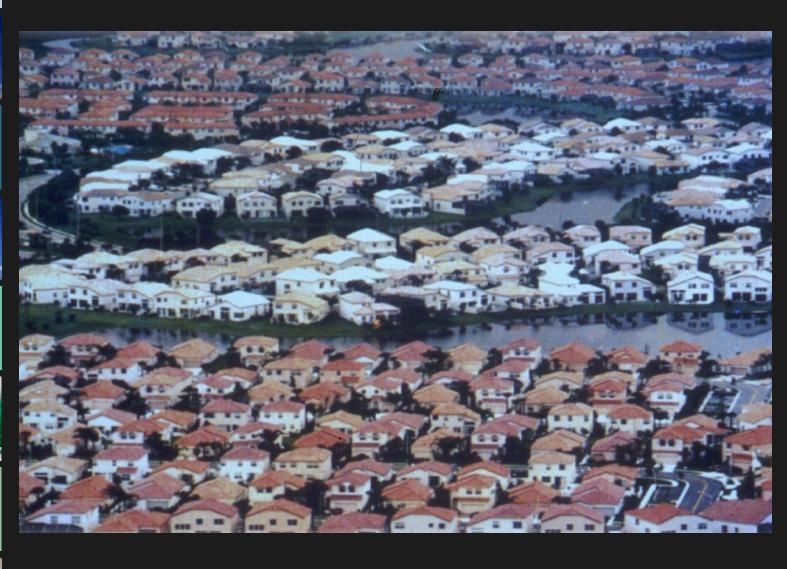






We don't always have a good plan









What is a Sustainable Development



A "Noun"























What is Sustainable Development



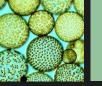




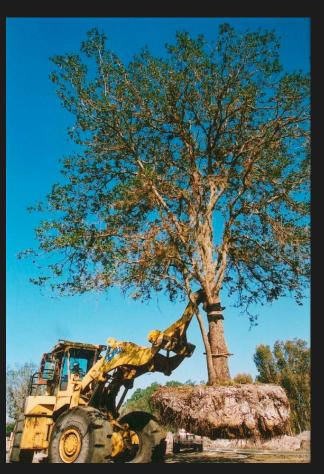




















Builders and Developers

Vertical



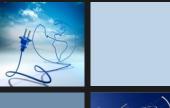












FGBC Land Development Standard







1. Protection



2. Circulation



3. Utility



4. Amenity



5. Covenants and Deed Restrictions



6. Education

























Protection

P1	Redevelopment	20
P2	Brownfield	5
Р3	Existing Building	5
P4	Urban Service Boundary/Infill	12
P5	Maximize Entitlements	2
P6	Conservation Areas	30
P7	Off-Site Conservation	5
P8	Site Study	4
P9	Biodiversity	2
P10	Specific Wildlife	2
P11	Wildlife Corridors	4
P12	Upland Buffers	3
P13	Preserve Recharge	3
P14	Reuse/RecycleA:H	4
P15	Neighbors Stormwater	20
P16	LID	6
P17	Multi-Use SWMA	10







Preservation, Conservation & Restoration



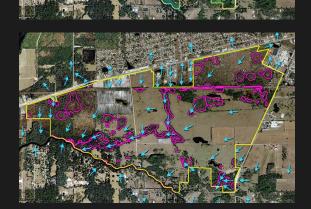






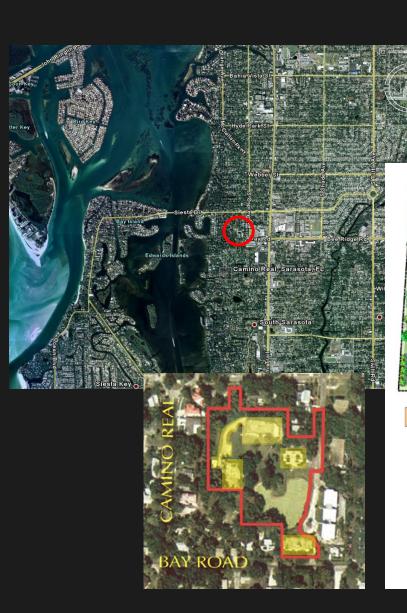








Infill

























Redevelopment





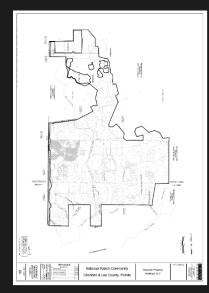


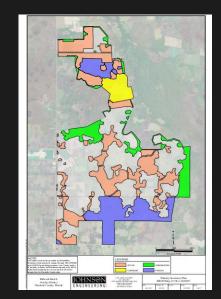


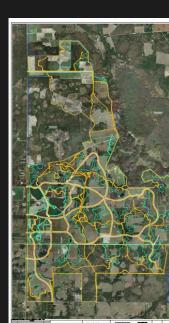


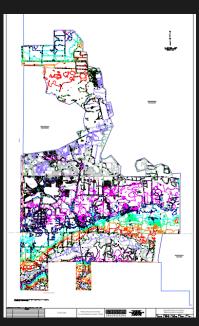


Greenfield













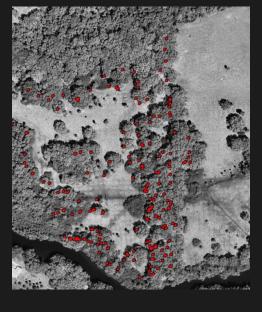


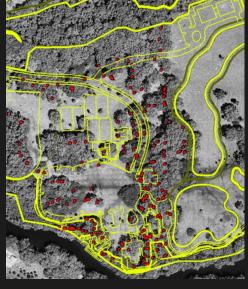






Design Around Trees











Critter Crossings











Wildlife Corridors and Connections





Stormwater Retention & Habitat





























Linear Rain Gardens



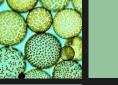




















































Cistern











Category 2 Circulation



C1

Pedestrian Structure











C1	Pedesinan Structure	,
C2	Previous Pedestrian Structure	1
С3	Pedestrian Shade	2
C4	Road Design	4
C5	Street Trees	5
C6	Street Lights	3
C7	Bike Parking	4
C8	Shared Parking	1
C9	Amenity and On-Street Parking Shading	4
C10	Structured Parking	4
C11	Multi-Modal Roadways	2
C12	Connections	1
C13	Orientation	3
C14	Paving Materials	4
C15	School Proximity	5
C16	Retail Proximity	5
C17	Transit Proximity	5
C18	Recreation Proximity	5
C19	Car Sharing	5
C20	Bike Sharing	5
C21	Vertical Mixed Use	1







Pedestrian Structure



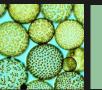








































Street Trees







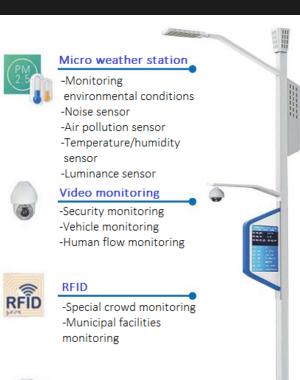






Street Lights







- -LoRa/NB-IoT transmission
- -Remote dimming
- -Detect parameter &status
- -Fault alarm
- -Report output

Wireless network

- -Embedded wifi hotspot in street light
- -Embedded micro station in street light

Information publication

- -Advertisement publication -Current political news
- -Information publication

Charging pile

- -Electric vehicle
- -Electric bicycle









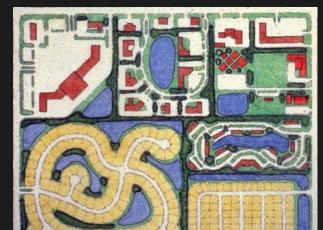
Emergency call

- -Contact the field extension with monitoring center
- -Active broadcast external field by monitoring center



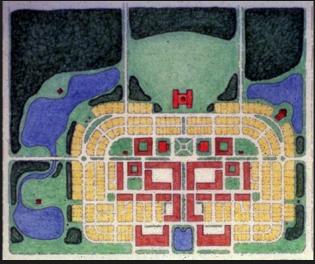


































Connections and Transportation



















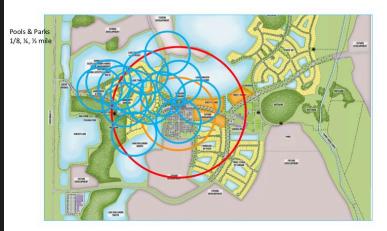




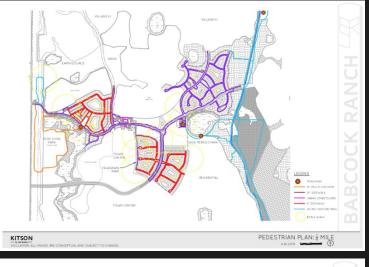


School ½ mile





Access









Category 3 Utilities













U1	Minimal Disturbance	3
U2	Green Power Agreement	6
U3	Green Power Production	10
U4	Non Potable Water Used For Irrigation	3
U5	Reclaimed Irrigation Common Areas	2
U6	Reclaimed Irrigation parcels	6
U7	Common Area Master Control	1
U8	Parcels Master Control	2
U9	Non-permanent Irrigation System	10
U10	Irrigation Budget	4
U11	Irrigation Meter	1
U12	Submeter Parcels	2
U13	Utility upsizing	3







Green Utility

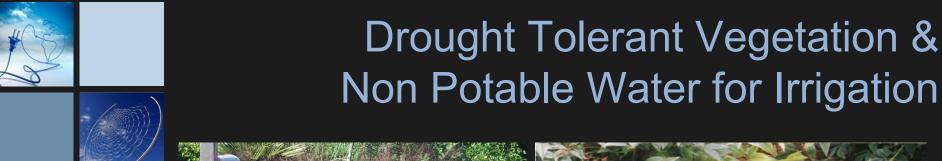


























Category 4 Amenities

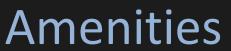


A1	Neighborhood Parks	4
A2	Community/Regional Park	2
А3	Community Pool	4
A4	Community Garden	5
A5	Compost Facility	2
A6	Audubon Golf Course	2
A7	Landscape Management Plan	9
A8	Communal Laundry Facilities	1
A9	Recycling	5
A10	Car Charging Infrastructure	3



















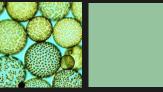














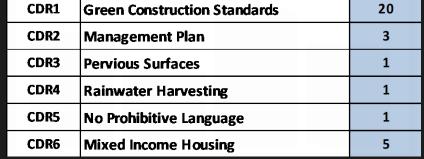




Category 5 Covenants and Deed Restrictions













RESIDENTIAL TECHNOLOGY REQUIREMENTS V 2

NOVEMBER 2016



These surferials are inferried for inferred distribution only and are proprietly and conflicted

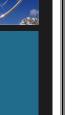


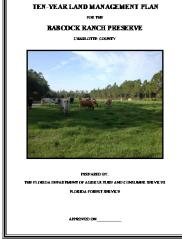


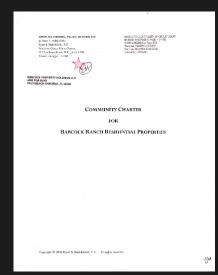


Management Plan









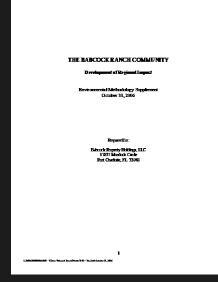


















Category 6 Education



















E 1	Staff Training	3
E2	Dedicated On-site Specialist	1
E3	Green Buyer Program	1
E4	Environmental Marketing	2
E 5	Green Practices	1
E6	Demonstration Building	1
E7	Environmental Education	5
E8	Green Website	1
E9	Monitoring Program	1







Education, Training, Monitoring





























Environmental Education

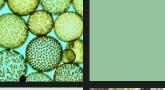












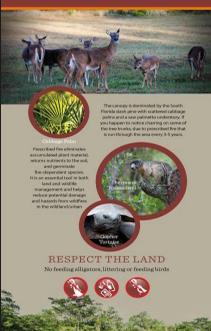






BABCOCK RANCH TRAILS The sunset trail takes you on a tour

The sunset trail takes you on a tour through upland and wetland habitats, each containing unique plants and animal life that call these areas home.









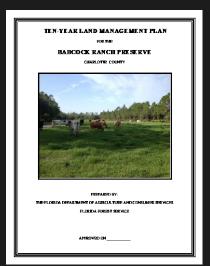






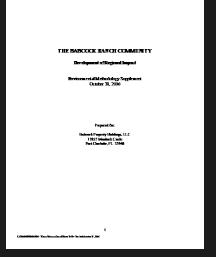
Monitoring Program















FGBC Land Development Standard



Benefits



1. Flexibility – many points to choose from



2. Adaptability – works for small and large developments, infill and greenfield



3. Emphasis on BMP's & reducing operational costs



4. Accountability



5. Third Party Verification



6. Customizable



