

## Project Point Summary

Minimum Points to Qualify (may be over 100 if a category minimum is missed) Currently this project needs

100

Please refer to Standards Documents and Green Commercial Reference Guide for additional information.

### Category

### Your Score

### Required Min

Category 1: Project Management  
 Category 2: Energy  
 Category 3: Water  
 Category 4: Site  
 Category 5: Health  
 Category 6: Materials  
 Category 7: Disaster Mitigation  
 Innovation

Category 1: Project Management	25
Category 2: Energy	19
Category 3: Water	24
Category 4: Site	33
Category 5: Health	32
Category 6: Materials	9
Category 7: Disaster Mitigation	6
Innovation	
<b>Total:</b>	<b>148</b>

5 Points  
 15 Points (75 point max)  
 10 Points  
 5 Points  
 10 Points  
 5 Points  
 2 Points

Total: 148

Total Needed: 100

**Certification Level Silver**

## To Qualify your project must

Bronze
Silver
Gold
Platinum

0 - 30 points over the project's adjusted required minimum  
 31 - 60 points over the project's adjusted required minimum  
 61 - 90 points over the project's adjusted required minimum  
 91 ≥ points over the project's adjusted required minimum

**DRAFT**

CREDITS										
TOTAL AVAILABLE	AWARDED	Submitted	POSSIBLE	NA						
37	25	1	7	Points Below Category Minimum						
PROJECT MANAGEMENT					CREDIT	REQUIREMENTS	SUBMITTAL	PROJECT EVALUATOR COMMENTS		
PREREQUISITES										
PM P1	Required		Complete			Green Project Meeting/Charrette	Owner and project team decision makers must participate in a 4-hour green design charrette where an FGBC Designated Professional details each line item and requirements of the FGBC High Rise Residential Building Standard Checklist. The training must be project specific; general green education courses do not comply.	Provide copy of the meeting agenda, outline of notes, dated sign in sheet, and a copy of the FGBC Checklist that resulted from the Charrette. If participants attend via video conferencing, also include a screen shot of the training content and attendee list.		
PM P2	Required		Complete			Green Designated Professional	The project team includes a certified FGBC Green Designated Professional.	Copy of FGBC Green Designated Professional Certificate.		
CREDITS										
PM 1 Education										
PM 1.01	2				2	Comprehensive Design Charrette/Design Team Training	Owner and design team decision makers must participate in an 8-hour green project training no later than the design development phase of the project. Attendees must include a participant from all disciplines currently under contract for the project.	Provide copy of the training outline and dated sign-in sheet		
PM 1.02	2		2			Construction Team Training	Owner, design team representatives, general contractor and subs currently under contract for the project participate in a minimum of 2 hour green project training is administered prior to work on the jobsite. A minimum of the subcontractors associated with the following activities must be trained prior to commencing work on the site: General Contracting, MEP, HVAC, irrigation, and interior finishes. Multiple trainings may be required to properly educate the construction team.	Provide copy of the training outline and dated sign in sheet(s)		
PM 1.03	1			1		Staff Training	Operational staff, including facility manager, leasing agent, sales staff, or any individual that works over 20 hours a week in a capacity managing or maintaining the building must attend a 2-hour green training. Training must include an explanation of the certification, criteria pursued/achieved, and information regarding green operation and maintenance of the building.	Provide copy of the training outline and dated sign in sheet		
PM 1.04	1		1			Homeowner Training	Provide homeowners with "green maintenance" training lasting at least 1 hour. Builder must have an established procedure and the training completed by a knowledgeable jobsite superintendent, sales representative, customer service individual, or other appropriate individual. The training may be any combination of office instructions or home walk-through with hands-on training.	Provide a copy of the training outline and bio of the approved trainers.		
PM 1.05	1		1			Green Website	Provide information on the project website regarding the FGBC green certification of the project, a link to the project score sheet, information on green operation and maintenance for homeowners, and helpful links for homeowners regarding FGBC, energy efficiency, water efficiency, and healthy homes.	Provide the web address and copies of the content.		
PM 2	5		1			Building Information Modeling 1 point for Architect 3 points for Architect, Structural and MEP 5 points for Architect, MEP, Contractor, Mechanical, Electrical, Plumbing, and Fire Subs	Design team and construction teams use BIM process to optimize the efficiencies related to design, estimating, materials ordering, and construction.	Provide a minimum of 6 examples of 3D renderings and conflict reports, Meeting minutes discussing conflict resolution may be submitted in lieu of conflict reports.	Architect and Structural used BIM.	
PM 3	5				5	Cost-Benefit Analysis	FGBC project team member shall document the cost impact of each energy and water credit the project is pursuing for certification. Analysis shall include a minimum of two building alternatives considered to achieve the credit, the cost associated with each alternative and calculated annual kWh, gallons of water, and cost savings.	The project must submit a copy of the FGBC Checklist from: 1. The team kickoff meeting 2. 100% Construction Document Phase 3. Final FGBC Submittal Include assumptions regarding interest rates, life of materials, and any other assumptions made for the analysis. A short narrative must accompany each credit explaining the options reviewed, environmental benefits, and reasoning for final selection for inclusion in the project.		
PM 4	20		20			Small Unit Credit 10 Points for weighted average < 1500 SF 15 Points for weighted average < 1200 SF 20 Points for weighted average < 900 SF	Design and construct small units. Points are awarded based on the weighted average unit size for the project.	Architectural drawings showing floorplans and units, a list of the types of units, square footage of the units, and a weighted average calculation.	757.7 Avg. Unit SF. See Sheet G002 Site Data.	
ENERGY (Required Category Minimum 15, Allowed Category Maximum 75)										
CREDITS										
TOTAL AVAILABLE	AWARDED	Submitted	POSSIBLE	NA						



ENERGY						CREDIT	REQUIREMENTS	SUBMITTAL	DESIGNATED PROFESSIONAL COMMENTS
PREREQUISITES									
E P1	Required		Complete			OPR	Owner designated representative must develop a list of owner project requirements related to each of the categories of the high-rise standard. The OPR should indicate minimum goals for each category and any specific credits the Owner wishes to target.	Submit a narrative explaining the OPR for the project clearly indicating the minimum project goals for each of the FGBC categories.	
E P2	Required		Complete			BOD	Design team representatives develop and document how the design will achieve the Owner Project Requirements. The Basis of Design should include specifically how the performance desires of the Owner will be achieved by the proposed design.	The design team must submit a narrative that explains how the design decisions support the Owner project requirements. The BOD must include a description from the design team as to how each of the FGBC category specific owner goals will be achieved.	
E P3	Required		Drafting			Testing and Balancing	Mechanical Electrical Plumbing (MEP) Engineering Firm works with the Architect or design team leader to verify field installed equipment meet OPR, BOD and is installed and operating correctly. Testing and verification must include at a minimum, Heating, Ventilation, Air Conditioning and Refrigeration (HVAC&R) systems & controls, lighting systems and controls, renewable energy systems, hot water system, and energy and water measurement devices as determined by the project engineer of record. Testing and	Copy of the testing and balancing report	
E P4	Required		Complete			CFC Reduction in HVAC Equipment	Requires that all building HVAC&R systems be free of CFC's and Halons	Mechanical engineer will submit a signed letter declaring that the building's new HVAC&R systems do not use CFC-based refrigerants and a mechanical schedule showing HVAC equipment	
CREDITS									
E 1						Performance Improvement			
E 1.01	60		6			Energy Performance improvement 2 point for each percent lower than code	The designed building will receive credit for energy performance that is more efficient than the current Florida Energy Code. Refer to the Florida Energy Code Calculations and their provided summary comparing the baseline and design buildings.	A copy of the Florida Energy Code calculations and input summary. Note the following inputs into the Energy Code calculations will be verified with the field installed design/equipment. The lighting, wall construct and insulation, window solar heat gain coefficient and u-factors, roof construct and insulation, system types and efficiencies, water heaters and exterior lighting.	Complete @3.1% better than code. Energy Model Complete.
E 1.02	1				1	Pump Motors	All three phase pump motors 1 horsepower or larger shall meet or exceed efficiency standards for NEMA Premium™ 3 motors. Note: Motors that are packaged as an integral component of mechanical equipment, fire pump motors, and booster pump motors are exempt from this requirement	Plumbing plans highlighting location of pumps, cut sheets and photos of complying pumps	
E 1.03	5		5			Lighting Power Density	Design and construct such that the average lighting power density for the building, which includes conditioned space and enclosed spaces defined as enclosed with doors, windows ad roof (for instance fire truck bay) and which excludes the structures exterior and parking area shall be < 0.8 W/SF.  1 point: < 0.8W/SF 2 points: < 0.7W/SF 3 points: < 0.6W/SF 4 points = 0.5W/SF 5 points = 0.4W/SF	Signed approved lighting submittal, photos of installed lighting and Watt per square foot calc. You may also include the Energy Gauge Summit "Total Building Performance Method for Commercial Buildings" full report, including all input and output reports with lighting power densities (Form 506-2010) or its equivalent, signed by lighting designer or MEP	Complete .3 W/SF achieved.
E 2						Prescriptive Energy Features			
E 2.01	2		2			Energy Star Refrigerator	Install Energy Star qualified Refrigerators in each unit	Copy of the appliance package approved submittal, cut sheet identifying model number and photo of installed appliance	
E 2.02	2		2			Energy Star Dishwasher	Install Energy Star qualifying dishwashers in each unit	Copy of the appliance package approved submittal, cut sheet identifying model number and photo of installed appliance	
E 2.03	2				2	Energy Star Clothes Washer	Include this point if each individual unit has an Energy Star clothes washer. Alternatively, points may also be awarded for clothes washers with an Integrated Modified Energy Factor (IMEF) <sup>3</sup> 2.38 (top load), IMEF <sup>2</sup> 2.06 (front load), IMEF <sup>3</sup> 2.07 (washers ≤ 2.5 cubic feet (CF)) OR if the central laundry facility is on site and includes Energy Star clothes washers. Alternatively, points may also be awarded for commercial clothes washers with a Modified Energy Factor (MEF) <sup>3</sup> 2.2.	Copy of the appliance package approved submittal, cut sheet identifying model number and photo of installed appliance	



E 2.04	2			2	Energy Star Ceiling Fans	Install Energy Star qualified ceiling fans located in the main living area and each bedroom of each unit	Copy of the electrical plan showing fan locations and type, appliance package approved submittal, cut sheet identifying model number and photo of installed fixture	
E 2.05	1			1	Energy Star Common Area Appliances	Install all Energy Star appliances in common areas, defined as amenity spaces for residents use, to include: refrigerator, dishwasher, clothes washer, and vending machines.	Copy of the approved submittal, cut sheet identifying model number and photo of installed appliance	
E 2.06	4			4	Automated Lighting Controls	Earn one point for each 25% of the building amenity space and common area square footage that include areas with occupancy sensors. Occupancy sensors shall be equipped to automatically turn lighting off within 15 minutes of all occupants leaving a space and allow "manual off" control. In addition, all occupancy sensor controls shall be either "manual on" or use bi-level switching coupled with manual-on control ("automatic on" programmed to a low light level combined with multi-level circuitry and "manual on" switching for higher lighting levels). Where occupancy sensors and daylighting sensors are utilized, the occupancy sensor shall work in conjunction with the daylighting controls.	Copy of the lighting package approved submittal, cut sheet identifying sensor type(s) and photo of installed sensors.	
E 2.07	3			3	Exterior Lighting	Meet or exceed the efficiency requirements of the 2018 IECC Chapter 4 Commercial Energy Efficiency for Exterior Lighting C405.4.2.	Signed approved lighting submittal, photos of installed lighting and Watt per square foot calc. You may also include the Energy Gauge Summit "Total Building Performance Method for Commercial Buildings" full report, including all input and output reports with lighting power densities (Form 506-2010) or its equivalent, signed by lighting designer or MEP	
E 2.08	1			1	Insulate hot water pipes	Piping carrying liquid with temperatures greater than 105°F must have a minimum of 1" of insulation. Pipes over 1.5" in diameter must have a minimum of 1.5" of insulation. Extent and location to be determined by ASHRAE 90.1-2007 Section 7.4.3 or local code. All pipes greater than 3/4" in diameter conveying hot water must be insulated.	Photos of insulated hot water pipes, plan detail, or approved submittal of selected insulation signed by architect.	
E 2.09	2			2	Ductwork sealed with mastic	Seal all duct connections with mastic. This includes rigid duct connections to air handlers AND flex duct connections to junction boxes and supply vents.	Photos of installed ducts and air handlers with mastic. Submit a representative number of photos (3+) from a minimum of 10 units.	
<b>E 3</b>					<b>Performance Verification/Testing</b>			
<b>E 3.01</b>					<b>Commissioning</b>			
E 3.01.01	4			4	Basic Commissioning	<p>Fundamental Building Systems Commissioning: Implement or have a contract in place to implement all of the following fundamental best practice commissioning procedures Commissioning includes verifying installation, functional performance testing, training and documentation for EACH of the commissioned system or components as compared to the design intent, training of owner designated O&amp;M professional and completion of the operation and maintenance manuals.</p> <p>The minimum requirements for serving as the commissioning agent are:</p> <ol style="list-style-type: none"> <li>1. Must have served as the commissioning agent of record on at least two (2) projects certified by a state or nationally recognized green certification program, OR</li> <li>2. Participated in the commissioning of at least two (2) green certified projects and have a letter of recommendation from the project's commissioning agent of record, OR</li> <li>3. Possess one of the following designations: a. CPMP - Commissioning Process Management Professional Certification (ASHRAE), b. CEM - Certified Energy Manager (AEE - Association of Energy Engineers), c. PE - Professional Engineer, d. ACG Commissioning Agent - (ACG - AABC Commissioning Group)</li> </ol> <p>The commissioning agent (CxA) be an independent party hired by the owner, reporting to the owner. If the CxA is contracted as part of the design or construction team, the CxA must have in their contract that they report directly to the owner with respect to performance verification and they must disclose any involvement with the design team to verify unbiased ability to verify OPR and BOD.</p>	<p>Submit a copy of the CxA signed contract (black out fees), OPR, BOD, Commissioning Plan and Commissioning Report. The commissioning Plan should include an overview of the commissioning process, a list of systems and features, the commissioning participants and their roles, a communication and management plan, an outline of the scope of commissioning tasks, and a schedule.</p> <p>Where possible, include copies of the completed start up checklists. The commissioning report should contain the analysis of whether each commissioned system or component meets the design intent, specifications, was properly installed, passed the functional performance tests, was properly documented in the O&amp;M manuals, and was covered in the operator training.</p>	



E 3.01.02	5			5	Advanced Commissioning	Advanced Building Systems Commissioning: In addition to fundamental commissioning, retain a CxA prior to completing the design phase of the project. The minimum requirements for serving as the commissioning agent for advanced commissioning are serving as the commissioning agent of record on at least two (2) projects certified by a state or nationally recognized green certification program.	Submit all documentation for Basic Commissioning and a copy of the list of recommendations provided to the owner and design team during the Design Document review.
E 3.02					Midpoint Inspections		
E 3.02.01	2		2		Thermal Bypass Inspections	Complete and submit the approved thermal enclosure checklist (thermal enclosure checklist may be found in the Application & Checklist V3). A thermal enclosure checklist must be completed for a minimum of two units on each residential floor (1 exterior and 1 interior) of the project. The form must be signed, dated, and supported by representative photos for each unit inspected. Where deficiencies are noted, follow up by the project DP is required either by an affidavit or further supporting photos showing corrections.	A thermal enclosure checklist along with a summary of deficiencies, photos, corrective actions and corrected photos.
E 3.02.02	2			2	Ductwork Smoke Testing for leakage	Perform smoke testing of HVAC ductwork at rough for two units per floor (1 exterior and 1 interior unit) and submit ductwork smoke leakage test form (see RHC smoke testing template for a sample of the required form) showing areas of leakage and corrections made. Submit sample photos of before and after repairs.	Photos of duct testing in progress and a summary report of findings and corrections.
E 3.02.03	4			4	Duct testing/leakage	Test the duct leakage using the RESNET approved sampling protocol: test 1st 7 units, if all 7 units achieve Qn total of .08 or less go on to the next seven units. If any further sampling of 1 out of 7 does not achieve the above Qn then every unit in that batch of seven must be tested. (For example, : 100 unit project would require a minimum of 20 successful Duct Blaster tests to capture these 4 points.) Alternately Perform Duct Blaster test for one complete floor and upon achieving the above noted Qn, 2 points may be awarded.	Duct blaster testing form as referenced in Fl. Code R402.4.1.2
E 3.03	2-5			5	Blower Door Test Units 5 points for ACH50 < 5 4 points for ACH50 < 6 3 points for ACH50 < 7 2 points for testing 2 floors	Post-construction, multi-point blower door testing of units must be tested by a RESNET or BPI energy rater following the RESNET sampling protocol for the entire project. Alternatively perform blower door testing on two complete floors to establish the worst ACH50.	Approved blower door testing form as referenced in Fl. Code R402.4.1.2
E 3.04	5			5	Complete Testing and Balancing in All Residential Units	Mechanical Electrical Plumbing (MEP) Engineering Firm works with the Architect or design team leader to verify field installed equipment meet OPR, BOD and is installed and operating correctly. In addition to the required prerequisite testing and verification, testing and verification of ALL of the residential units shall be performed by a licensed engineer or a professional certified by the National Environmental Balancing Bureau (NEBB), the Associated Air Balance Council (AABC), or other nationally accredited organization.	Copy of the testing and balancing report
E 4					Design		
E 4.01	1			1	Washer and dryer out of conditioned space	Locate washer and dryer outside of conditioned space —garage, unconditioned utility room, etc. The location must be separated from the main conditioned space of the building. The unconditioned utility room must meet the following requirements: • Insulate the walls between the utility room and conditioned space (shared walls). • Finish the shared walls and ceiling (if below conditioned space) with drywall. • Seal all holes and air leakage pathways through the walls, floor, and ceiling that can connect the utility room to the conditioned space (plumbing, gas lines, wiring, and bottom plate). • Install a non-louvered door that is weather-stripped and equipped with a properly adjusted threshold.	Floorplan identifying location of laundry room
E 4.02	2		2		Light colored interior finishes 1 point: light colored walls/ceiling in main living 2 point: light colored walls in bedrooms	All bedrooms and all major living spaces in the home have light-colored wall and ceiling surfaces with a reflectance of at least 50% (or Light Reflectance Value (LRV) > 50). Bonus point awarded if all major living spaces and bedrooms have light colored flooring. If a documented reflectivity is not available, this credit can only be given to "white" or "off white."	Photo of completed project interior, paint selection and LRV
E 5					Renewable Energy		
E 5.01	20			NA	Renewable Energy Production 1 point per 1% of building power provided	Supply a fraction of the building's total energy use (as expressed as a fraction of annual energy cost) through the use of on-site renewable energy systems.	Plan detail highlighting installed renewable energy system and photos



E 5.02	4			2		Green Power 1 point: 50% for 1 year 2 points: 100% for 1 year 3 points: 100% for 2 years  Earn 1 bonus point for Certified Green Power which is provided by renewable generation in Florida.	Provide a percentage of the building's electricity from renewable sources by engaging in at least a one-year renewable energy contract to purchase green power. Earn one point by purchasing green power for 50% of the building total annual energy demand from certified green power generator for one year, 2 points are available for purchasing 100% for 1 year and 3 points available for purchasing 100% for 3 years.	Provide an executed copy of the contract for the purchase of renewable energy indicating the types of renewable purchased and the total kWh of energy production capacity.	
E 5.03	1				1	Solar Hot Water	Each unit is serviced by a solar hot water system	Plan detail highlighting design, equipment cut sheet and photos of installed equipment.	
E 5.04	1				1	Solar Pool Heat	Install solar pool heater	Plan detail highlighting design, equipment cut sheet and photos of installed equipment.	

**WATER (Required Category Minimum 10)**

CREDITS						TOTAL AVAILABLE	AWARDED	Submitted	POSSIBLE	NA	
						78		24	2	27	Points Below Category Minimum

**WATER CREDIT REQUIREMENTS SUBMITTAL DESIGNATED PROFESSIONAL COMMENTS**

WATER										
Exterior										
W 1										
Installed Landscape										
W 1.01	3		2		1	Plants/trees from drought-tolerant list: 1 Point - 60% drought tolerant 2 Points - 80% drought tolerant 3 Points - 100% drought tolerant	Use of at least 60% of the plants and trees incorporated into the landscape are from a local drought tolerant list; 2 points are available if 80% are from such a list; and 3 points are available if 100% of the plants and trees are from such a list. A minimum of 12 total plants must be present in the landscape to qualify for the credit. Plants shall be listed with high or moderate drought tolerance by Florida Friendly Landscape, WaterWise (water management district) or local drought tolerant list.	Plant list identifying drought tolerant vegetation, landscape plan, and percentage of drought tolerant vegetation calculation.		
W 1.02	5		5			Turf 1 point: Install only drought tolerant turf < 50% 2 points: Install only drought tolerant turf < 40% 3 points: Install only drought tolerant turf < 30% 4 points: Install only drought tolerant turf < 20% 5 points: Install only drought tolerant turf < 10%	If sod is installed, do not install turf in densely shaded areas (<60% shade on June 21) and only use Bahia, Zoysia, or Bermuda grass.	Landscape plan, and photos of the completed project.	Only artificial turf is installed.	
W 1.03	1		1			Non-Cypress mulch	Apply 3-4" of mulch around plants and trees (extending out to drip line) and in landscaped beds avoiding volcano mulching	Landscape plans and photos of installed vegetation		
W 2										
Installed Irrigation										
W 2.01	5		5			Properly installed Irrigation	1. Separate zones for turf and landscape beds - multi-program controller 2. High-Volume irrigation does not exceed 60% of the landscaped area 3. Head to head coverage for rotor/spray heads 4. Correctly install micro-irrigation in landscape beds and narrow areas 5. Provide facility manager installed irrigation plan, on site training and written instructions  See FGBC guidelines for irrigation as stated in the Reference Guide.	Copy of the irrigation design, photos of installed irrigation, and a copy of the instructions.		
W 2.02	3				3	Only Drip Irrigation Is Used On Site	Install only drip irrigation systems to service installed landscape	Copy of the irrigation design, and photos of installed irrigation.		
W 2.03	10				10	No Permanent in-Ground Irrigation System	Landscape contains no permanently installed irrigation system.	Provide a signed letter from the project owner.		
W 2.04	2		2			Soil Moisture Sensors	Soil moisture sensors or other weather-based irrigation is installed appropriately to control irrigation at ground level and for outdoor amenities.	Cut sheet of innovative equipment		
W 3										
Water Source Conservation										
W 3.01	1				1	Reclaimed Water for Irrigation	Project is supplied with municipal reclaimed water for irrigation	Letter from municipality indicating reclaimed water is supplied and used on the project		



W 3.02	10				NA	<p>Rainwater</p> <p>1 point: Simple Collection</p> <p>3 points: Collection with dedicated use for irrigation. Collected rainwater must supply a minimum of 25% of the water necessary for irrigation.</p> <p>5 points: Collection for toilet/urinal flushing. Collected rainwater must supply a minimum of 25% of the water required for toilet/urinal flushing.</p> <p>10 points: Rainwater is collected and treated to potable standards for use throughout the building. Rainwater collected must provide a minimum of 25% of the building's annual water use.</p>	<p>Install rainwater harvesting collection and storage system. The minimum requirement for this credit is a simple collection system, which for all intents and purposes would be for demonstration. Achieve additional points, per the break down below, as the rainwater collection system increases in functional use to replace both potable and non potable water.</p> <p>1. Simple Collection: Used to supplement irrigation and for demonstration purposes.</p> <p>2. Dedicated use for irrigation: Harvested Rainwater is used to supply irrigation to landscape.</p> <p>3. Rainwater is collected and used in lieu of potable water for flushing toilets and urinals: Rainwater is collected and fed to dual piping system as greywater to reduce potable water demand inside the building.</p> <p>4. Collected and treated to potable standards for whole building use: Water is treated to potable standards and supplements whole building water use</p>	<p>Construction drawings indicating design and location of system</p>	
W 3.03	10				NA	<p>Greywater</p> <p>3 points: Collection with dedicated use for irrigation. Collected and treated greywater must supply a minimum of 25% of the water necessary for irrigation.</p> <p>5 points: Collection for toilet/urinal flushing. Collected and treated greywater must supply a minimum of 25% of the water required for toilet/urinal flushing.</p> <p>10 points: Greywater is collected and treated to potable standards for use throughout the building. Greywater collected must provide a minimum of 25% of the buildings annual water use.</p>	<p>Greywater system is installed to reduce demand on potable water. System must have a specific collection source and a dedicated use. Greywater system is installed to reduce demand on potable water. System must have a specific collection source and a dedicated use.</p>	<p>Construction drawings indicating design and location of system</p>	
<b>Interior</b>									
<b>W 4</b>									
						<b>Fixtures</b>			
W 4.01	4		2			<p>Low Flow Toilets</p> <p>Water closets in the individual units</p> <p>1 point all toilets ≤ 1.28 gallons per flush (gpf)</p> <p>1 point all dual flush with one flush option ≤ 1.6 gpf and one ≤ 1.1 gpf</p> <p>2 points all dual flush (one flush option must be &lt; 1.1gpf) or single-flush toilets with ≤ 1.1 gpf</p>	<p>All installed toilets must comply with the low-flow criteria AND have a minimum MaP (Maximum Performance) rating of 600 OR are WaterSense Certified. For Dual-Flush toilets to receive one point, ONE of the two flush options must be ≤ 1.1gpf.</p>	<p>Photo of installed low flow fixtures and cut sheets</p>	
W 4.02	4		3			<p>Low Flow Lavatory Faucets in units</p> <p>2 points all lavatory faucets are ≤ 1.5 gpm</p> <p>3 points all lavatory faucets are ≤ 0.5 gpm</p> <p>1 Bonus point is available if all of the lavatory faucets installed in the common areas are ≤ 1.5 gpm or Motion Sensor self closing faucet (0.25 gal/metering cycle Max)</p>	<p>All installed lavatory fixtures must comply with the low-flow requirements.</p>	<p>Photo of installed low flow fixtures and cut sheets</p>	
W 4.03	3		2			<p>Low Flow Kitchen Faucets in units</p> <p>1 point: ≤ 2.0 gallons per minute (gpm)</p> <p>2 points: ≤ 1.5 gpm OR WaterSense Certified</p> <p>1 Bonus point is available if all of the kitchen faucets installed in the common areas are ≤ 2.0 gpm</p>	<p>All installed kitchen fixtures must comply with the low-flow requirements.</p>	<p>Photo of installed low flow fixtures and cut sheets</p>	
W 4.04	3		2			<p>Low Flow Shower heads in units</p> <p>2 point: ≤ 2.0 gallons per minute (gpm)</p> <p>1 Bonus point is available if all of the shower heads installed in the common areas are ≤ 2.0 gpm</p>	<p>All installed shower heads must comply with the low flow requirements. A maximum of 1 shower head per 15sf of shower compartment is allowed</p>	<p>Photo of installed low flow fixtures and cut sheets</p>	
<b>W5</b>						<b>Appliances and Equipment</b>			

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W 5.01	4			4	High Efficiency Water-Saving Clothes Washer 2 Point for Water Factor ≤ 6 3 Points for Water Factor ≤ 4  1 Bonus point is available if all of the clothes washers installed in the common areas have a Water Factor ≤ 6	All installed clothes washers must comply with the stated Water Factor requirement.	Photo of installed low flow fixtures and cut sheets	
W 5.02	2			2	Tankless, boiler, or recirculating hot water heaters	Install on demand tankless hot water heaters or hot water recirculation system	Photo of installed tankless water heaters and cut sheets or schematics of recirculation system	
W 5.03	1			1	Compact hot water distribution	Install compact hot water distribution system. For a conventional system, no branch line from the water heater to any fixture may exceed 25 feet. Branch lines from the central header to each fixture must be a maximum of ½-inch diameter. One point is also available for use of a manifold system or a recirculation loop with an on-demand control with auto pump shut-off in the kitchen and each full bathroom.	Floorplan showing location of hot water heaters/distribution system	
<b>W6</b>								
<b>Water Certifications</b>								
W 6.01	5			5	Florida WaterStar™ Certification	Meet the WaterStar™ or WaterSense certification program requirements.	Copy of Florida WaterStar™ Certificate	
W 6.02	2			2	Florida Friendly Landscape Recognition	Obtain Florida Friendly Landscaping™ Program New Construction Certification	Copy of WaterStar Certification	Pending Inspection
<b>SITE (Required Category Minimum 5)</b>								
<b>CREDITS</b>								
	TOTAL AVAILABLE	AWARDED	Submitted	POSSIBLE	NA			
	59	33	1	11	Points Below Category Minimum			
<b>SITE</b>								
			CREDIT	REQUIREMENTS	SUBMITTAL	DESIGNATED PROFESSIONAL COMMENTS		
<b>PREREQUISITES</b>								
SP1	Required		Complete		Copy of Stormwater Pollution Prevention Plan (SWPPP) and Florida Department of Environmental Protection (FDEP) Notice of Intent (NOI) onsite	Keep copy of SWPPP & FDEP National Pollutant Discharge Elimination System (NPDES) Notice of Intent (NOI) onsite for contractor to implement & maintain SWPPP Best Management Practices (BMP) as designed by civil engineer or SWPPP designer.	Copy of Notice of Intent if applicable	
SP2	Required		Complete		Erosion and Sedimentation Control	Design a sediment and erosion control plan, specific to the site that conforms to United States Environmental Protection Agency (EPA) Document No. EPA 832/R-92-005 (September 1992), Storm Water Management for Construction Activities, Chapter 3, OR local erosion and sedimentation control standards and codes, whichever is more stringent. The plan shall meet the following objectives: • Prevent loss of soil during construction by stormwater runoff and/or wind erosion, including protecting topsoil by stockpiling for reuse. • Prevent sedimentation of storm sewer or receiving streams and/or air pollution with dust and particulate matter.	Copy of erosion control plan, site details and photos	
<b>S1</b>								
<b>Site Selection</b>								
S1.01	1		1		Select Appropriate Site	Do not develop on: Prime farmland, flood prone areas, habitat for threatened species, within 100 feet of wetlands, public parkland	Site survey and Google earth map	Sheet L002 - Survey
S1.02	2			NA	Within an FGBC Certified Green Local Government	Build within an FGBC certified Green Local Government	Name of local government	
S1.03	6			NA	Within an FGBC Certified Green Land Development	The high rise is built within a FGBC certified Green Land Development. Below is a list of the certified land developments. Enter the appropriate points based on the certified land development.	Name of land development	
S1.04	1		1		High Density	Project has a minimum of 30 dwelling units per acre.	Number of units per acre	306 units in a 2.04 Acre Development
S1.05	3		3		Greyfield Redevelopment	Locate the building on a site that has existing hardscape or other structure that must be replaced. To achieve this credit, the site must have utility connections available within 1/8 mile boundary.	Copy of a site plan with the existing conditions	
S1.06	3		3		Brownfield Redevelopment	Development of any EPA or federal/state/local government classified brownfield and provide remediation as required by EPA's Sustainable Redevelopment of Brownfields Program.	Provide a copy of the Phase II Environmental Site Assessment OR a letter from a local, state or federal regulatory agency confirming that the site is classified as a brownfield	
S1.07	5		5		Access to Basic Services (Connectivity) 1 point awarded for each 3 unique services with a max of 5 pts.	Locate the building on a site that is within 1/2 mile of, and has safe and walkable access to, basic services (this can be measured as the crow flies). Each type of service may only be counted once, i.e. if there are 3 banks, for the purposes of this Checklist that is equal to ONE service. Please refer to the Reference Guide for a list of services.	Aerial context map with building location, and location and type of basic services within ½ mile.	21 Services identified within 1/2 mile from site.

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S 1.08	4		3		Public Transportation Access	Site is located within 1/2 mile of an existing or funded rail node OR within 1/4 of mile safe and walkable access to mass transit of at least 1 active bus stop, trolley or ride share (this can be measured as the crow flies).  2 Points: 1 route within ¼ mile 3 Points: 2-4 routes within ¼ mile 4 Points: 5+ routes within ¼ mile	Regional/local drawing or transit map highlighting the building location and the fixed rail stations and bus lines, and indicate the distances between them. Include a scale bar for distance measurement.	4 bus/trolley routes identified within 1/4 mile.
S 2					Site Enhancement			
S 2.01	1			1	Tree Preservation	Protect existing trees during construction of project by employing the following techniques to at least 36 inches of tree caliper measured at chest height (i.e. nine 4-inch trees, three 12-inch trees, etc.) per acre. Refer to FGBC Reference Guide for all credit requirements.	Tree/native plant identification survey and photo or other documentation of each technique. For multi-family projects, tree protection shall be shown on the site plan or on a tree survey with details on the drawings outlining protection strategies, barricades, fencing, and areas of protection.	
S 2.02	1			1	Minimize Site Disturbance	The maximum square footage of the site that may be disturbed, excluding the building footprint, must be less than or equal to the building footprint.	Copy of project site indicating building footprint, square footage of building footprint and outlining site cleaning operation boundaries and staging areas. Provide photos of site demonstrating minimal site disturbance.	
S 2.03	1		1		Site Open Space	Exceed minimum zoning requirements for open space by 25%. Stormwater retention/detention areas may be included in the open space calculations if they are specifically designed for dual use/function, for example, recreation areas that function as dry detention may be included in the calculation.	Provide a site plan with the building footprint, square footage of building footprint (or a copy of the local zoning open space requirements) that shows the designated open space and landscape plan. Also provide a list of trees and their projected canopies after 10 years.	10% Net lot area minimum Open Space required. 14.6% Open Space Provided.
S 3					Transportation			
S 3.01	1		1		Bicycle Storage	Project must provide securing locations for bicycles for 5% of total occupants. Bike parking must be located within the same or closer proximity than traditional parking.	Provide site plan identifying bike storage, cut sheet of bike rack, and photo of installed bike storage	36 bike spaces provided for 306 units = 11% of units have access to a bike space.
S 3.02	4		2	2	Alternative Fuel Refueling Stations 1 - 4 Points 1 point: 3% of the total parking spaces provided are designated for alternative fuel, hybrid, high capacity or electrical vehicle 1 point: 10% of the total parking spaces are designed and constructed to include conduit and dedicated electrical capacity that will allow for non invasive installation of electric chargers at a future date. 2 points: 1.5% of the total parking spaces provided are designated for electrical vehicle charging. Provide a minimum of one 220 volt 40 Amp outlet at each parking space. 3 points: 3% of the total parking spaces provided are designated for electrical vehicle charging. Provide a minimum of one 220 volt 40 Amp outlet at each parking space.	Provide preferred parking and or accommodations based on the requirements listed below, for alternative fuel, hybrid, high capacity or electrical vehicle. Points are available based on the percentage of preferred parking and type of accommodations installed.	Plan identifying location of preferred parking, description of charging apparatus and photos of installed equipment	1.5% (8) of (505) parking spaces will be provided with charging stations (worth 2 points) 4 identified Level 02 C Sheet A 141c, 4 identified Level 03 C Sheet A 142c. Plans complete.
S 3.03	1		1		Parking Capacity	Parking provided on site must be 10% less than the parking required by the local land development codes.	Provide a calculation of the zoning required parking spaces, a letter from the local jurisdiction indicating the projects parking requirements and a site plan with a total parking count.	Required parking is reduced by 30%. See Sheet G002 for Site Data.
S 3.04	3			3	Compact or Automated Parking 1 pts – 10% stacked parking 2 pts – 20% stacked parking 3 pts – 30% stacked parking 3 pts – 100% Valet Parking	Incorporate lifts, elevators or valet parking to reduce the structure required to support the parking demands of the high rise. Earn 1 point if a minimum of 10% of the total parking spaces provided are stack parking, elevators, or lifts. Earn 2 points for 20% and 3 points for 30%. Three points are also available if the project has 100% valet parking.	Detail and description of plan and system	
S 4					Heat Islands			
S 4.01	4		4		Roof  1 point: 20% roof coverage 2 point: 40% roof coverage 3 point: 60% roof coverage 4 point: 80% roof coverage	Use ENERGY STAR Roof-compliant, high-reflectance AND high emissivity roofing (for low slope roofs: initial reflectance of at least 0.65 and three-year-aged reflectance of at least 0.5 when tested in accordance with ASTM E903 and emissivity of at least 0.9 when tested in accordance with ASTM 408; for steep slope roofs: initial reflectance of at least 0.25 and three-year-aged reflectance of at least 0.15 when tested in accordance with ASTM E903 and emissivity of at least 0.9 when tested in accordance with ASTM 408) for a minimum of 20% of the roof surface (alternatively roof materials may have a LRV ≥ 50); OR Install a "green" (vegetated) roof for at least 20% of the roof area. Combinations of high albedo and vegetated roof can be used providing they collectively cover at least 20% of the roof area.	Provide a roof drawing with area calculations and cut sheets for the materials used.	TPO Roofing System. Confirm color.

S 4.02	4			2	Shaded, Covered, or High Albedo Hardscape 2 point: 40% hardscape coverage 3 point: 60% hardscape coverage 4 point: 80% hardscape coverage	Shade, cover or use high albedo hardscape for a minimum of 40% of the site hardscape. For the purpose of this credit site hardscape includes roads, sidewalks, courtyards, amenity decks, and parking lots. Areas square footage that may be included in this calculation are hardscape materials with a SRI ≥ 78, a LRV ≥ 60, or shaded within 10 years The building footprint, ie. square footage of roof, is NOT considered hardscape unless used as a rooftop terrace amenity. Hardscape shaded by photovoltaic panels or other systems that are generating electricity can be included in the shade square footage calculation and are exempt from meeting the SRI ≥ 78 requirement.	Provide a site plan identifying all the site features and a cut sheet for any reflective materials used to achieve this credit.	LA to confirm hardscape finish SRI for Concrete, Paver1, Paver 2, Pool Paver, Aquaflex, Pebbleflex and % of coverage relative to overall hardscape as defined in credit description.
S 4.03	3		3		Under Building Parking	A minimum of 50% of the parking shall be located under the building	Plan details for project parking	
S 4.04	1		1		Building Exterior	To qualify for this credit, a minimum of 80% of the exterior wall surface area minus the glazing must have a LRV > 60 for stucco and painted all finishes, a SRI ≥ 29 for metal and vinyl. Natural and man made stone products must be light in color and comparable to LRV > 60 paint.	Provide a cut sheet of the exterior wall coating/paint and any shading calculations of claimed.	Pursuant to V3 High Rise Guide: 2 points ≥ 40% and < 60% reflective or shaded exterior wall. Complete at 48% Compliant
<b>S 5</b>					<b>Light Pollution Reduction</b>			
S 5.01	1			1	Building, Amenity Desk, and Site Lighting are Dark Sky Compliant	Do not exceed the light levels and uniformity ratios recommended by the Illuminating Engineering Society of North America (IESNA) Recommended Practice Manual: Lighting for Exterior Environments (RP-33-99). Design exterior lighting such that all exterior luminaires with more than 1000 initial lamp lumens are shielded and all luminaires with more than 3500 initial lamp lumens meet the Full Cutoff IESNA Classification. If the bulb exceeds 26W the lights shall be full cut-off luminaires so that no light or brightness from those luminaires crosses the property boundary.	Provide specifications, construction detail and lighting cut sheets indicating dark sky compliance.	
<b>S 6</b>					<b>Stormwater Management</b>			
S 6.01	1		1		Rate and Quantity	No net increase in Stormwater runoff from pre-development conditions to post-development	Civil Engineering stormwater calculations and narrative explaining how the design improves the water quality	
S 6.02	1			1	Treatment	Provide onsite treatment of stormwater to remove 80% of (TSS) Total Suspended Solids and 40% of (TP) Total Phosphorous	Civil engineering stormwater calculations and narrative explaining how the design improves the water quality	
S 6.03	2			NA	Littoral Vegetation	Use littoral vegetation surrounding stormwater ponds - a minimum of 75% of the shoreline (calculated based on percentage of linear feet of shoreline) shall be vegetated with littoral plants.	Plant list and detention pond design.	
S 6.04	3		3		Alternative Stormwater Detention: Rain Gardens, Infiltration Trenches, Rainwater Harvesting, and Injection Wells. 1 point: 50% of stormwater collected using LID 2 points: 75% of stormwater collected using LID 3 points: 100% of stormwater collected using LID	Uses Low Impact Development (LID) alternatives to collect and treat stormwater. Alternative systems that qualify include rain gardens, bio-retention filtration systems, infiltration trenches, vegetated roofing and injection wells. A minimum of 50% of the stormwater collection and treatment must use the low impact development treatment system to achieve this credit. Earn one point if 50% of the site stormwater is collected using low LID techniques. Earn an additional point for each additional 25% of total site stormwater that is collected using LID techniques.	Site design, stormwater calculations and construction details of low impact development designs.	Drainage Wells detailed in sheet CS-3
S 6.05	1			1	Pervious Hardscape	Install pervious hardscape for a minimum of 25% of the hardscape. Site hardscape includes roads, sidewalks, courtyards, and parking lots. Hardscape may be porous pavers (open grid pavers) or permeable pavement (minimum percolation rate of 2 gal/min/SF and a minimum of 6 inches of open graded base below.	Site drawing with pervious hardscape identified and cut sheet or calculations regarding percolation or perviousness.	
S 6.06	1			NA	Treat Stormwater from Adjacent Sites	Collect and treat stormwater from adjacent properties to assist in controlling both the quantity and quality of stormwater in the community. Earn 1 point for each additional 10% of stormwater volume the project site can retain and treat.	Civil engineering stormwater calculations	

**HEALTH (Required Category Minimum 10)**

CREDITS	TOTAL AVAILABLE	AWARDED	Submitted	POSSIBLE	NA	
	64	30	20	16		Points Below Category Minimum

HEALTH PREREQUISITES					CREDIT	REQUIREMENTS	SUBMITTAL	DESIGNATED PROFESSIONAL COMMENTS
HP 1	Required		Drafting		Environmental Tobacco Smoke (ETS) Control	No smoking allowed in the common areas of the building and only in outside designated areas that are located 25 feet or more away from all doors, operable windows, HVAC equipment, and fresh air intakes. If the building is non-smoking a minimum of one No Smoking sign must be placed at the front entrance of the building and at outside common areas. If Smoking is allowed at a designated area, signage must be placed indicating as such and accommodations must be in place for proper cigarette butt disposal	Site plan indicating designated smoking area.	



H P2	Required		Drafting			Construction IAQ Management Plan, During Construction	Indoor Environmental Quality shall be protected during construction according to SMACNA guidelines.	Provide copy of the specifications indicating use of SMACNA guidelines and letter from the contractor signed both by the project manager and field superintendent indicating they have implemented the SMACNA guidelines.	
<b>H 1</b>						<b>Design - Systems: Protect, Monitor, Remediate Poor IEQ</b>			
H 1.01						Carbon Dioxide (CO2) Monitoring			
H 1.01.01	1				1	Assembly Areas	Systems shall be designed to monitor carbon dioxide (CO2) within the building and activate a system w/ corrective action plan such that mechanical air conditioning system can introduce treated fresh air as needed.	Construction detail of CO2 monitoring system on mechanical plans and cut sheet of equipment	
H 1.01.02	1				1	All Common Areas	Systems shall be designed to monitor carbon dioxide (CO2) within the building and activate a system with corrective action plan such that mechanical air conditioning system can introduce treated fresh air as needed.	Construction detail of CO2 monitoring system on mechanical plans and cut sheet of equipment	
H 1.01.03	1				1	Individual Units	Systems shall be designed to monitor carbon dioxide (CO2) within the building and activate a system with corrective action plan such that mechanical air conditioning system can introduce treated fresh air as needed.	Construction detail of CO2 monitoring system on mechanical plans and cut sheet of equipment	
H 1.02	1				1	Increased Ventilation Effectiveness	Building system shall be designed to create an air change effectiveness greater than or equal to 0.9 as determined by ASHRAE 62.1-2004 . This credit shall be available for projects installing dehumidification systems.	Provide details on mechanical plans and system design	
H 1.03	1			1		Building Entrance - Outdoor Pollutants	Project shall employ measures such as permanent walk-off grates or mats located at the building main entrance to reduce pollutant contamination of the building entrances. Building entrance must be under cover or mats provided immediately inside the entrance and a maintenance plan must be included to maintain the integrity of the system.	Provide cut sheet and construction detail of the system installed	
H 1.04						Building Entrance - Covered Entry			
H 1.04.01	1		1			Main Entry	Main entrance of the building shall be covered with no less than 50 square feet of roof to protect entrance from rain.	Provide a copy of the dimensioned plan indicating the covered entrance and the square footage of the entrance cover.	
H 1.04.02	1		1			Entry from Primary Parking	Covered path from parking to the main entrance or a Porte cochere at the main entrance.	Provide a copy of the dimensioned plan indicating the covered entrance and the square footage of the entrance cover.	
H 1.05						High-Efficiency Air Filtration System			
H 1.05.01	1		1			Common Areas	Design a mechanical ventilation system to include a minimum MERV 8 air filter.	Cut sheet of air filter system.	
H 1.05.02	2				2	Individual Units	Design a mechanical ventilation system to include a minimum MERV 8 air filter.	Cut sheet of air filter system.	
H 1.06	1				1	Chemical and Cleaning Product Storage	Any room(s) containing chemicals or cleaning products for building O&M is ventilated and under negative pressure with respect to the building. The room must also have a door installed that will automatically close. For mechanically ventilated buildings, design ventilation systems that result in an air change effectiveness greater than or equal to 0.9 as determined by ASHRAE 129-1997.	Letter from mechanical engineer indicating the design achieves an air change effectiveness of 0.9 or greater in each ventilated zone or that the design complies with the recommended design approaches in ASHRAE 2001 Fundamentals Chapter 32, Space Air Diffusion.	
H 1.07	1			1		Thermal Comfort, Comply with ASHRAE 55-1992	Comply with ASHRAE Standard 55-1992, Addenda 1995, for thermal comfort standards, including humidity control		
H 1.08	5			5		Thermal Comfort, Dehumidification System	System installed to control building humidity such as a desiccant system, enthalpy wheel, heat pipes, or dual path system. The dehumidification system shall be centrally located and permanent servicing the common areas and individual units of the building.	Letter from the mechanical engineer and cut sheet of dehumidification equipment.	
H 1.09	1		1			Combustion: No Gas Water Heating Equipment Located Inside Conditioned Area – Or Use of Electric	One point is also available for use of a sealed combustion water heater, or use of an electric water heating system.	Mechanical Schedule	
H 1.010	1		1			Combustion: No Gas Heating Equipment Located Inside Conditioned Area – Or Use of Electric	One point is available for use of a sealed combustion furnace, or use of an electric heating system, such as a heat pump.	Mechanical Schedule	
H 1.011	2				2	Kitchen Hood Vented to Exterior	Home equipped with a range hood vented to the exterior of the building. Non-vented or ductless range hoods are not eligible for the point. Hood ducting must be of building code-approved materials and completely sealed to prevent leakage. Exterior of vent must also contain building code approved termination cover.	Schematic of vent, photos of rough in and cut sheet for range vent	
<b>H 2</b>						<b>Design - Occupant Experience</b>			
H 2.01	3		2	3		Daylight 2 points: 50% 3 points: 75%	Provide natural day lighting to 50% of interior spaces. Achieve a minimum Daylight Factor (the ratio between the measured interior and exterior light levels in lumens) of 2% for a minimum of 25% of the occupied spaces of the building. (Note: Occupied Space refers to all areas except hallways, bathrooms, laundry rooms and closets.)	Provide plans specifying the day lit areas and day lighting calculations for occupied spaces	

H 2.02	3		3		Views: Views for 75% of Spaces	Provide views to vision glazing for 75% of all occupants. Occupants must have line of sight from occupied spaces to the exterior. (Note: Occupied Space refers to all areas except hallways, bathrooms, laundry rooms and closets.)	Provide plans showing line of site for occupied areas.	
H 2.03					Acoustics			
H 2.03.01	1		1		Between Individual Units	Provide wall assembly with a STC rating $\geq$ 45	Provide cut sheets for the wall assembly and fenestration indicating the STC ratings.	
H 2.03.02	1		1		Between Units and Common Areas	Provide wall assembly with a STC rating $\geq$ 55	Provide cut sheets for the wall assembly and fenestration indicating the STC ratings.	
H 2.03.03	1		1		Exterior Wall Assembly	Provide wall assembly with a STC rating $\geq$ 50	Provide cut sheets for the wall assembly and fenestration indicating the STC ratings.	
H 2.03.04	1		1		Fenestration	Provide fenestration STC rating $\geq$ 30	Provide cut sheets for the fenestration indicating the STC ratings.	
H 2.03.04	1		1		Floor Assembly	Provide floor assembly with STC or Impact Insulation Class (IIC) of 50 or greater.	Provide cut sheets for the fenestration indicating the STC ratings.	
H 2.04	1		1		Cleanability: Narrow Grout Lines	All grout lines between tiles must be less than 3/16" wide	Specification and photo of installed tile	See Sheets G004, G007-G010 A400, A414, A415, A531.
H 2.05	2			2	15% of Building Units and All Building Common Areas Designed to Meet ADA Standards	<p>A minimum of 15% of the units in the building must comply with the following requirements:</p> <ul style="list-style-type: none"> <li>• Ample clear floor space (5 x 5 foot turning radius) to ensure maneuverability at lavatories, toilets, and tubs/showers</li> <li>• The bathroom walls must be reinforced for grab bars that are installed at commode, tub, and shower (FGBC recommends following the ADAAG for height and size specifications).</li> <li>• 32 inch minimum door width; 36 inches preferred</li> <li>• 24 inch space on latch side of doors or automatic door opener</li> <li>• Light switches a maximum height of 48" from the floor to the top of the switch</li> <li>• Electrical outlets a minimum of 15" from the floor to the bottom of the outlet</li> <li>• Lever handles on doors or doors without latches</li> <li>• Rocker or touch switches</li> </ul> <p>AND</p> <p>Include at least one of the following options:</p> <ul style="list-style-type: none"> <li>• Standard tub with a fold-up seat</li> <li>• Tub with a transfer seat</li> <li>• Whirlpool tub</li> <li>• 3 x 3 foot transfer shower</li> <li>• 5 x 5 foot roll-in shower</li> </ul>	Floorplan showing ADA units, cut sheets and signed approved submittal of ADA products, photos of installed features, and plan details	
<b>H 3</b>					<b>IAQ Management During Construction</b>			
H 3.01	2		2		Protect Ducts, Range Hood, and Bath Exhaust Fans During Construction	All duct register boxes, supply plenums, range hood, the bath exhaust fans (housing or fan) and liner boxes are sealed off with cardboard, rigid duct board, or other suitable method directly following mechanical rough in. The temporary tape used to seal the registers during a smoke test does not comply. Ducts must remain sealed until HVAC system start-up. This step prevents construction dust and pollutants from accumulating in the duct system and being released into the air when the system is turned on. If interior finish work (painting, etc.) continues after HVAC start up, ducts must be re-sealed until work is complete	Photo	
H 3.02					Minimum MERV 13 During Construction			
H 3.02.01	2			2	Common Areas	During construction install a minimum of a MERV 13 air filter.	Cut sheet of air filter system.	
H 3.02.02	2			2	Individual Units	During construction install a minimum of a MERV 13 air filter.	Cut sheet of air filter system.	
H 3.03	1			1	Pre-Occupancy IAQ Testing	Test and remediate building prior to occupancy using procedure consistent with the United States Environmental Protection Agency's current Protocol for Environmental Requirements, Baseline IAQ and Materials, for the Research Triangle Park Campus, Section 01445.	Copy of the IAQ testing results indicating that the maximum chemical contaminant concentration requirements are not exceeded.	
<b>H 4</b>					<b>Low-Emitting Materials/Healthy Finishes</b>			
H 4.01	2		2		Adhesives & Sealants	All adhesives and sealants shall be low Volatile Organic Compound (VOC) and meet the VOC limits below that were established by the South Coast Air Quality Management District (SCAQMD) Rule #1168 AND all sealants used as fillers must meet or exceed the requirements of the Bay Area Air Quality Management District Regulation 8, Rule 51.	Contractor shall maintain all Material Safety Data Sheet (MSDS) highlighting the stated VOC emissions for each paint and coating used in the building.	
H 4.02	2		2		Paint	Interior paints and coatings shall be less than 100 g/l for non-flat paint and less than 50 g/l for flat paint. Exterior paints and coatings shall be less than 200 g/l for non-flat and less than 100 g/l for flat.	Contractor shall maintain all Material Safety Data Sheet (MSDS) highlighting the stated VOC emissions for each adhesive and sealant used in the building.	
H 4.03	2			2	Carpet	All carpet and carpet products shall meet the Carpet & Rug Institute Green Label Certification Program.	Provide carpet cut sheets or the VOC limits for each carpet product used in the building.	



H 4.04	2		2			Composite Wood	All composite wood and agrifiber products will contain no added urea-formaldehyde.	Provide a manufacturers catalog cut sheet for each composite wood or agrifiber product used in the building indicating that the bonding agent used in each product contains no added urea-formaldehyde.	
H 4.05	2					Insulation	All Insulation products will be free of formaldehyde.		
H 4.06			2			Minimize Carpet Use			
H 4.06.01	2				2	100% Hard Flooring Installed in Individual Units	The flooring installed shall be classified as hard or resilient and comply with GreenGuard or similar health related certification.	Cut sheets of flooring selections.	
H 4.06.02	2			2		Carpet Tiles Used in Common Areas	If carpet is installed in common areas, carpet tiles must be used. All carpet and carpet products shall meet the Carpet & Rug Institute Green Label Certification Program.	Provide carpet cut sheets or the VOC limits for each carpet product used in the building.	
H 4.07	2			2		Green Cleaning - Environmentally Friendly Maintenance - Green Cleaning Products in Common Areas	Owner shall maintain or contract a cleaning service to maintain the property using only non-toxic cleaning supplies in the regular maintenance of the building. A list of approved supplies must be posted in janitor closets and in common areas such as break rooms and restrooms. Non-Toxic is defined as having a zero Health Hazard rating on the product's Material Safety Data Sheet (MSDS) and listed as "non-toxic" for Acute Toxicity under "Section V - Health Information" on the MSDS. Alternatively the products may be approved by the EPA's Design for Environment program or Green Seal.	Provide a list of approved cleaning products for the building	
H 4.08	2			2		Healthy Pool- Non-Chlorine System	Install and use a pool sanitation system that reduces the use of chlorine.	Cut sheet or photo of sanitation system	
<b>H 5 Management</b>									
H 5.01						Prohibit Smoking			
H 5.01.01	1		1			Reduce Smoke Exposure and Transfer	1. Prohibit smoking in all common areas of the building. The prohibition must be communicated in building rental/lease agreements or condo/coop association covenants and restrictions, and provisions for enforcement must be included. 2. Locate any exterior designated smoking areas, including balconies where smoking is permitted, at least 25 feet from entries, outdoor air intakes and operable windows opening to common areas. 3. Prohibit on-property smoking within 25 feet of entries, outdoor air intakes and operable windows. Provide signage to allow smoking in designated areas, prohibit smoking in designated areas or prohibit smoking on the entire property.	Copy of the covenants and restriction, plan showing designated smoking area, copy of signage	
H 5.01.02	1		1			Prohibit Smoking Throughout the Building	1. Prohibit smoking within living units. The prohibition must be communicated in building rental/lease agreements or condo/coop association covenants and restrictions, and provisions for enforcement must be included. 2. Prohibit smoking in all common areas of the building. The prohibition must be communicated in building rental/lease agreements or condo/coop association covenants and restrictions, and provisions for enforcement must be included. 3. Any exterior designated smoking areas must be located at least 25 feet away from all entries, outdoor air intakes, and operable windows.	Copy of the covenants and restriction, plan showing designated smoking area, copy of signage	
H 5.02	2		2			Integrated Pest Management	Work with a skilled pest control professional to develop an Integrated Pest Management Plan that addresses the following four items: • Monitoring and prevention of pest populations. • Application of pesticides only "as needed" after prevention and physical controls have been implemented. • Selecting the least hazardous pesticides for control of targeted pests. • Precision targeting of pesticides to areas not contacted or accessible to the occupants • Provide information to homeowners on non toxic pest management practices.	Provide a copy of the pest management plan including identification of the pests and monitor process, action thresholds, prevention activities, and control mechanisms.	
<b>MATERIALS (Required Category Minimum 5)</b>									
<b>CREDITS</b>									
	TOTAL AVAILABLE	AWARDED	Submitted	POSSIBLE	NA				
	34	9	12	3		Points Below Category Minimum			
<b>MATERIALS</b>									
<b>M 1 Waste Management</b>									
M 1.01	3				NA	Building Reuse	Rehabilitate existing building. Maintain 50% of the existing shell (exterior skin and framing, excluding window assemblies) and non structural roofing material.	Floor plan of existing building, demolition plan, and new building floor plan.	

M 1.02	4		2	1	1	<p>Recycled Content  1 point: &gt; 5% - 10%  2 points: &gt; 10% - 15%  3 points: &gt; 15% - 20%  4 points &gt; 20%</p>	<p>Incorporate recycled materials (based on materials cost). Use materials with recycled content such that post-consumer and/or post-industrial recycled content constitutes a minimum of 5% of the total project cost. Earn one additional point for each additional 5% of recycled content materials. The value of the recycled content portion of a material or furnishing shall be determined by dividing the weight of recycled content in the item by the total weight of all material in the item, then multiplying the resulting percentage by the total value of the item.  Note pre-consumer waste may only be counted in this credit if it can be substantiated that the pre-consumer materials would otherwise have entered the waste stream. Mechanical and electrical components shall not be included in this calculation. Recycled content materials shall be defined in accordance with the Federal Trade Commission document, Green Guides, available at:  <a href="https://www.ftc.gov/enforcement/rules/rulemaking-regulatory-reform-proceedings/green-guides">https://www.ftc.gov/enforcement/rules/rulemaking-regulatory-reform-proceedings/green-guides</a>.</p>	<p>Complete the Materials Spreadsheet in the checklist. Provide approved submittals for materials and documentation of the products recycled content.</p>	<p>Concrete, drywall, steel, aluminum, rubber, carpet, tile</p>	
M 1.03	1		1			<p>Recyclable Materials</p>	<p>Use materials that at the end of their useful lifecycle can be recycled by the manufacturer into the raw materials stream of another product. The value of such products will constitute a minimum of 10% of the total value of the materials in the project</p>	<p>Submit recyclable materials calculations. Refer to the "Materials Worksheet" for calculations.</p>		
M 1.04	3			3		<p>Rapidly Renewable &gt; 3%</p>	<p>Incorporate rapidly renewable (plant to harvest cycle &lt;10 years) for 3% of the total value of all building materials and products used in the project. Earn one additional point for each 2% of additional rapidly renewable materials such as bamboo flooring, wool carpets, straw board, cotton batt insulation, linoleum flooring, poplar OSB, and sunflower seed board and wheatgrass cabinetry qualify for this credit.</p>	<p>Submit calculations demonstrating that the project incorporates the required percentage of rapidly renewable products. Refer to the "Materials Worksheet" for calculations.</p>		
M 1.05	3			3		<p>Certified Wood</p>	<p>Wood products are FSC, SFI or CSA certified. Use a minimum of 50% certified of wood-based materials and products, for wood building components including, but not limited to, structural framing and general dimensional framing, flooring, finishes, furnishings and non-rented temporary construction applications such as bracing, concrete form work and pedestrian barriers. Earn one additional point for each 25% additional certified wood used on the project.</p>	<p>Submit a copy of the wood certification, approved submittal and the calculations showing percentage of certified wood used in the construction of the project.</p>		
M 1.06	1				1	<p>Bio-based &gt; 3%</p>	<p>Earn one point if 3% of the materials, based on cost, are bio-based such as solid wood, engineered wood, bamboo, wool, cotton, cork, agricultural fibers, or other bio-based materials having at least 50% bio-based content.</p>	<p>Complete the Materials Spreadsheet in the checklist. Provide approved submittals for materials and documentation of the products biobased content.</p>		
M 1.07	2				NA	<p>Resource Efficient or Panelized Wall Systems</p>	<p>Install a minimum of 80% of the non-structural exterior walls must be Autoclaved Aerated Concrete (AAC), Insulated Concrete Forms (ICF), or Structural Insulated Panels (SIPs) or a combination thereof.</p>	<p>Photo, detailed plans, or material cut sheets. Refer to the "Materials Worksheet" for calculations.</p>		
M 1.08	2			2		<p>Efficient Drywall Installation: T Walls with Drywall Clips, 2-Stud Corners or Ladder Framing</p>	<p>Use 2-stud corners, ladder T-wall framing, and drywall clips in all possible locations.</p>	<p>Construction details on plans and photos</p>	<p>Discuss. Do not see it in details.</p>	
<b>M 2</b>										
<b>Material Efficiency and Global Responsibility</b>										
M 2.01	2				1	<p>Recycling for Residents  1 point: Provide an accessible recycling area  2 points: Install an integrated recycling trash chute</p>	<p>Provide an accessible area that serves all of the building occupants that is dedicated to the collection, separation, and storage of recyclables. Recycling rooms in the buildings shall be a minimum of 0.1% of the total conditioned square footage of the building while recycling areas outside the structure shall accommodate a recycling dumpster equal in size (in CY) to ((# of units x 0.5 x 18) / 173.57) rounded up to the nearest even number OR Install an integrated recycling trash shoots that allow the occupants, when disposing of waste, to select either recycling or waste that is serviced by a recycling waste hauler.</p>	<p>Construction detail, cut sheet, and photo</p>		
M 2.02	4		3			<p>Construction Waste Management, Divert Waste  2 point: ≥ 50% &lt; 75%  3 points: &gt; 75% &lt; 90%  4 points: &gt; 90%</p>	<p>Develop and implement a waste management plan, quantifying material diversion goals. Recycle and/or salvage a minimum of 50% of construction, demolition and land clearing waste. Calculations can be done by weight or volume, but must be consistent throughout. Earn additional points for increased diversion of waste.</p>	<p>Tabulate the total waste material, quantities diverted and the means by which diverted.</p>	<p>discuss with WM at onset of project. They will track and document. 80% diversion is very possible.</p>	
M 2.03	1				1	<p>Resource Reuse ≥ 5%</p>	<p>Use salvaged, refurbished or reused materials, products and furnishings for at least 5% of building materials (based on cost).</p>	<p>Provide a listing of each material or product and the original source of the material used to meet the credit. Refer to the "Materials Worksheet" for calculations.</p>		
<b>M 3</b>										
<b>Local and Regional Materials</b>										



M 3.01	4		2	1		Local/Regional Materials 1 point: ≥ 10% < 15% 2 points: > 15% < 20% 3 points: > 20% < 25% 4 points: > 25%	Earn one point by using a minimum of 10% local/regional materials (by cost) that are manufactured within a 700-mile radius of the project site based on the total project cost of building materials and products. Earn one additional point for each additional 5% of materials that are manufactured within 700 miles of the project site. (Manufacturing refers to the final assembly of components into the building product that is furnished and installed by the tradesman. For example, if the hardware comes from Dallas, Texas, the lumber from Vancouver, British Columbia and the truss is assembled in Kent, Washington; then the location of the final assembly is Kent, Washington.)	Complete the Materials Spreadsheet in the checklist. Provide approved submittals for materials and documentation of the products origination.	Concrete, drywall, pavers
M 3.02	4		1	1		Local/Regional Materials, of the Percentage Claimed Above, 50% Harvested Locally 1 point: ≥ 5% < 10% 2 points: > 10% < 15% 3 points: > 15% < 20% 4 points: > 20%	Of the regionally manufactured materials, use a minimum 5% (by cost) of building materials and products that are extracted, harvested or recovered within the following states: Florida, Georgia, Alabama, Mississippi, South Carolina, North Carolina, or Tennessee.	Complete the Materials Spreadsheet in the checklist. Provide approved submittals for materials and documentation of the products origination.	Concrete, pavers

**DISASTER MITIGATION AND DURABILITY (Required Category Minimum 2)**

CREDITS									
TOTAL AVAILABLE	AWARDED	Submitted	POSSIBLE	NA					
15		6	1	7	Points Below Category Minimum				

**DISASTER MITIGATION AND DURABILITY**

DMD 1									
Disaster Mitigation									
DMD 1.01	2		2			Hurricane, Impact Resistance of Openings	ALL installed glazing is impact resistant.	Provide the manufacturer's cut sheets for the impact resistant products indicating the required approvals and classifications. Provide a door and window schedule listing impact-resistant products used on the project.	
DMD 1.02	2				2	Flood, Slab Elevation	FFE must be 12" above 100-year flood plain or finished grade adjacent to building, whichever is higher. All grades around building must slope away from the foundation a minimum of 6" at 10'-0" distance. The 100-year flood plain is determined by FEMA.	Provide the appropriate drawings illustrating the foundation design, floor elevation and grading requirements. Include a copy of the NFIP Elevation Certificate certified by the surveyor, engineer or architect showing the 100-year flood plain elevation or grade.	Will need to be confirmed at TCO
DMD 1.03	2		2			Wildfire, Fire Resistant Exterior Finishes	Project must utilize fire-resistant exterior wall cladding, roof covering or sub-roof, soffit and vent materials. An exterior cladding other than wood or vinyl must be used on all exterior walls. A roof covering other than asphalt shingles or wood shakes must be used on the entire roof. Roof covering fire resistance shall exceed Code requirements by a minimum of one classifications (for example, install Class "A" when Code requires Class "B"). Note: If Class A roofing is required installation of Class A roofing is acceptable. Soffit and vent materials must be other than wood or vinyl. When these parts of the building are compromised, embers from nearby fires can enter into the attic.	Provide appropriate drawings and manufacturer's cut sheets illustrating the fire resistance of the exterior finish materials.	

DMD 1.04	2			2	Termite Prevention	Provide a permanent sign, posted near the water heater or electrical panel, identifying the termite treatment provider, the need for re-inspection and treatment contract renewal. A single slab must be poured monolithically or must have area treated for termites before each portion of slab is poured. After the slab has substantially cured, any penetration through the slab such as piping or conduit shall be sealed around its perimeter with an elastomeric sealer. Any foam insulation must terminate above ground such that none of it extends below grade. The exterior cladding of the building must terminate at least 8" above grade. All wood products must be treated with Borate or ACCQ. Rain gutters must be installed to collect water from all roof slopes and convey it at least 3 feet away from the building foundation. All HVAC condensate line(s) must discharge at least 3 feet away from the building. All plants and irrigation should be at least 3 feet from building. Florida law requires that a contract be issued whenever a termite treatment is conducted. The warranty shall include the pest control company to restore any property damaged by wood-destroying organisms during a specified period after the treatment.	Provide project photos, copy of warrantee, and appropriate construction details	
DMD 1.05	2			2	Termite, Non Toxic Termite Pretreatment	The building uses an alternative to traditional soil poison for termite treatment. Systems may include the use of borate or Alkaline Copper Quaternary (ACQ) treated lumber or termite bait systems. To achieve this credit any and all plants, turf and irrigation lines must be a minimum of 3' from the foundation. Additionally, any foam insulation must terminate above ground. The exterior cladding of the building must also terminate a least 8" above grade. Rainwater from the roof must also be dispersed a minimum of 3' from the building foundation (by the use of downspouts or scuppers and extensions or splash blocks). All AC condensate lines must also discharge a minimum of 3' from the building.	Provide appropriate drawings and specifications, illustrating compliance to all requirements.	
<b>DMD 2</b>					<b>Durability</b>			
DMD 2.01	1			NA	Durable Materials, Exterior Finish Materials	Use finish systems and materials capable of withstanding the moisture and heat impacts of the local climate for a period of 30 years on 100% of the exposed exterior surfaces. Structure shall be Type 1A, exterior materials shall be approved by Miami-Dade County, or have a 30 year warranty.	Plan detail identifying all the systems and materials used for the exterior finish of the building. Attach copies of the NOA for Miami-Dade, manufacturer's warranties or documentation supporting the established history for any material without a written warranty.	Type IB
DMD 2.02	1		1		Lever-Style Clothes Washer Water Shutoff	Install a lever style shutoff valve that only requires a 90o turn to shut off water supply	Provide construction detail, signed approved submittal, and photos of installed valves	
DMD 2.03	1			1	Water Sensors/Shutoff system	Receive one point if a sensor/shutoff system is installed to cut off water supply to a clothes washer and water heater located inside conditioned space. Alternatively, one point is available for a whole-house system that detects any sign of water leakage anywhere inside the conditioned space, and cuts off the main water supply to the unit.	Construction detail, cut sheet, and photo of system installed	inquire
DMD 2.04	1			1	Durability: Use Armored/Metal Hoses from Service to All Fixtures/Appliances	Install armored, braided, pex, or otherwise reinforced hoses to all water using fixture or appliances.	Cut sheet, construction detail, signed approved submittal, site photos	Not specified. Discuss.
DMD 2.05	1		1		Low-Maintenance Finishes	Use materials (on the floors, walls and ceilings) that can be maintained in a serviceable condition using green cleaning products for 100% of the interior finishes of the building and 50% (by surface area) of the exterior finishes.	Provide a copy of the manufacturers recommended maintenance procedures, the type and area of materials that comply.	

**DRAFT**