

EXHIBIT #

ATTACHMENT #

Proposed Text Amendment to the Broward County Land Use Plan

II. GOALS, OBJECTIVES AND POLICIES

~~“SMART GROWTH”~~, ~~AND~~ ~~“GREEN/ENERGY EFFICIENT”~~ AND
SUSTAINABLE LAND USE PATTERNS

GOAL A.00.00

PROMOTE AND COORDINATE A DESIRABLE, SUSTAINABLE AND EFFICIENT LAND USE PATTERN FOR THE BENEFIT AND ENJOYMENT OF ALL BROWARD COUNTY RESIDENTS, VISITORS AND ECONOMIC INTERESTS WHICH MAXIMIZES PRESERVATION AND CONSERVATION OF NATURAL RESOURCES.

OBJECTIVE A.03.00 SUSTAINABLE AND CLIMATE RESILIENT LAND USE PATTERN

Adopt, implement and encourage land use planning strategies which increase community resiliency and protect property, infrastructure and cultural and natural resources from the impacts of climate change.

POLICY A.03.01 Broward County shall by 2025, evaluate and address risk from climate change impacts, especially sea level rise, into the planning, siting, design, construction, replacement and maintenance of public infrastructure, and encourage its municipalities and partner agencies to do the same.

POLICY A.03.02 Broward County shall by 2015, adopt model codes, such as the International Green Construction Code (IGCC), which address: green building practices, sustainable site development and land use patterns, energy and water conservation, air and indoor

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environmental quality, in a manner relevant to Southeast Florida, and encourage its municipalities to do the same.

POLICY A.03.03

Broward County shall promote climate change resilient building design and, by 2015, pursue changes to the Florida Building Code which increase resistance to impacts from more intense storm events.

POLICY A.03.04

Broward County shall include a map of Priority Planning Areas for Sea Level Rise in the Broward County Land Use Plan, effective immediately, illustrating areas that are at increased risk of flooding due to, or exacerbated by, sea level rise over the next 50 years.

POLICY A.03.05

Broward County shall evaluate plan amendments within Priority Planning Areas for Sea Level Rise and strongly discourage those amendments which would place additional residential and non-residential development at risk of flooding from sea level rise. In review of such amendments, the County shall consider:

- a. Sea level rise/flood protection mitigation strategies and requirements included within local comprehensive plans and/or development regulations; or
- b. Flood protection improvements committed to by amendment applicants, which would mitigate or enhance flood protection and adaptation from rising sea levels.

POLICY A.03.06

Broward County shall, in coordination with its local municipalities, designate Adaptation Action Areas, per Florida State Law, using the Priority Planning Areas for Sea Level Rise Map as a basis for identifying areas

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especially vulnerable to sea level rise, in order to enhance the funding potential of infrastructure adaptation projects and develop policies for adaptation.

POLICY A.03.07

Broward County shall update climate related policies and maps, including the Priority Planning Areas for Sea Level Rise Map, in the Land Use Plan with best available data, every 5 years or as available, including findings of the Broward County and USGS joint Climate Change Inundation Modeling effort, which seeks to achieve a better understanding of the impacts of climate change and rising sea level on the County's drainage and flood control systems.

OBJECTIVE 6.01.00 WATER RESOURCES AND CONSERVATION USES

POLICY 6.01.03

Broward County shall maintain and protect the functions of the County's ground water recharge of the surficial aquifer system to improve and protect water supply, abate saltwater intrusion, and preserve or enhance environmental systems. This will be accomplished through water resource modeling and planning, and the implementation of existing regulations concerning wellfield protection, surface water permitting, water resource management, stormwater management and hazardous materials facilities licensing and through regulations and policies developed as the result of water resource management studies, including but not limited to the South Florida Water Management District Lower East Coast Water Supply Plan and the U.S. Army Corps of Engineers Restudy of the Central and Southern Florida Flood Control Project.

OBJECTIVE 8.01.00 COORDINATE FUTURE LAND USES WITH AVAILABILITY OF REGIONAL AND COMMUNITY FACILITIES AND SERVICES

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POLICY 8.01.10 (b) Broward County shall evaluate and address climate change risk during the planning process for all County water, wastewater and stormwater infrastructure projects to reduce vulnerability and maximize use during the infrastructure's life span, and encourage other water and wastewater providers in the County to do the same.

Primary Drainage and Flood Protection

POLICY 8.01.18 Minimum floor elevation standards for building sites promulgated and administered by the Federal Emergency Management Administration shall be applied countywide for new construction.

POLICY 8.01.19 (a) Minimum road crown elevation standards as implemented by the South Florida Water Management District shall be applied throughout Broward County.

POLICY 8.01.19 (b) Broward County, in conjunction with its partner agencies, shall evaluate floor elevation standards, road crown elevation standards, and other policies related to flood protection, and by 2015, update as necessary to account for sea level rise and other climate-related impacts to persons, property and infrastructure.

POLICY 8.01.19 (c) Broward County shall by 2015, update the 100 year stormwater elevation projections in the Broward County 100 year flood map with current and projected conditions for sea level rise for use in stormwater management permitting and other planning processes.

Electric Energy

POLICY 8.01.20(2) Broward County and local redevelopment plans should

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incorporate provisions for installing electrical distribution lines underground, where appropriate due to groundwater elevations, to minimize electrical service disruptions during natural disasters.

POLICY 8.01.20(3)

Broward County shall encourage power generation facilities and power transmission infrastructure be sited and designed in a manner which takes into consideration impacts from climate change, including increasing winds, storm surge, ambient temperatures and sea level rise.

OBJECTIVE 8.03.00

EFFICIENT USE OF URBAN SERVICES

POLICY 8.03.09

~~Broward County and its local governments shall encourage the reuse of reclaimed water as an integral part of their wastewater management program, where economically, environmentally, and technically feasible.~~

Broward County, in coordination with its municipalities, shall pursue the establishment of mandatory reuse zones in order to require the use of reclaimed water for irrigation, when source water is available, with the goal of reducing demands on the Biscayne Aquifer.

OBJECTIVE 8.08.00

POST-DISASTER REDEVELOPMENT AND HAZARD MITIGATION

Develop and implement post-disaster redevelopment and hazard mitigation land use controls and development regulations including strong preventive measures, to protect the health, safety and welfare of Broward County's current and future residents.

POLICY 8.08.02 (a)

Post-disaster redevelopment and hazard mitigation plans ~~should~~ shall inventory hazard prone areas, including repetitive loss properties.

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POLICY 8.08.02 (b)

Broward County and its municipalities should ~~and~~ implement building codes and development regulations, such as risk-based setback provisions, structural connections, ~~and other~~ site controls, and overlay zones, to reduce future property damages and losses.

POLICY 8.08.04

Broward County shall determine whether existing construction siting and design requirements for the Coastal Construction Control Line Program, the Coastal High Hazard Area, and Florida Building Code sufficiently address avoidance of “significant adverse impacts” due to climate change. If found to be insufficient, Broward County shall make recommendations on how these standards could be strengthened.

POLICY 8.08.05

Broward County shall work with its municipalities, the Florida Division of Emergency Management, and other agencies to, by 2015, incorporate sea level rise and increasing storm surge impacts into its efforts to remap potential hazard areas in coastal zones. Revised hazard area designations should better reflect the risks to communities associated with climate change and limit development and post disaster redevelopment in these areas.

POLICY 8.08.06

Broward County should establish an ongoing process to evaluate with municipalities local zoning and building code requirements and make recommendations to improve the resiliency of existing and proposed structures in areas at risk to inundation, storm surge, and other potential impacts of climate change.

POLICY 8.08.07

Broward County shall work cooperatively with local governments and transportation agencies to identify and evaluate transportation infrastructure at risk and help coordinate adaptation efforts for infrastructure immediately landward of coastal high hazard areas, in order to ensure functional access to emergency

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evacuation routes for coastal populations.

OBJECTIVE 9.03.00 PROTECTION OF BEACHES, RIVERS AND MARINE RESOURCES

POLICY 9.03.13 Broward County, in cooperation with its coastal municipalities, shall develop a comprehensive beach management and maintenance plan to address activities including dune and vegetation management, beach nourishment, and sand by-passing. The plan shall include consideration of climate change impacts on these efforts.

POLICY 9.03.14 Broward County shall, in coordination with its municipalities, pursue policies and programs to maintain the resilience and adaptive capacity of coastal resources by providing buffers between developed areas and the shoreline, thereby reducing the impacts of climate change on both ecosystems and communities.

OBJECTIVE 9.07.00 ~~AREAS SUBJECT TO SEASONAL OR PERIODIC FLOODING~~ FLOOD PRONE AREAS

Protect current and future populations, property and infrastructure in identified floodplains and areas subject to seasonal, or periodic, or sea level rise related flooding.

POLICY 9.07.02 Local governments shall require that redevelopment within identified floodplains and low-lying areas subject to tidal inundation and/or sea level rise, as identified on the Flood Plains, Flood Prone Areas, and Coastal High Hazard Areas Map and the Priority Planning Areas for Sea Level Rise Map, respectively, to effectively addresses existing and potential flooding problems.

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OBJECTIVE 9.09.00 DRAINAGE AND STORMWATER MANAGEMENT

POLICY 9.09.03 Broward County shall, in cooperation with the appropriate agencies, prepare studies to determine if additional regulations or programs are needed to ensure a comprehensive approach to identified and projected stormwater management problems and the protection of groundwater quality.

POLICY 9.09.04 Broward County shall, prior to approving land use plan amendments in the ~~flood-prone portions of the County~~ areas prone to flooding and/or the impacts of sea level rise, as identified on the Flood Plains, Flood Prone Areas, and Coastal High Hazard Areas Map and the Priority Planning Areas for Sea Level Rise Map, respectively, determine that the subsequent development will be served by adequate stormwater management and drainage facilities, not adversely affect groundwater quality or environmentally sensitive lands and not increase saltwater intrusion or areawide flooding.

OBJECTIVE 9.12.00 ENHANCE BROWARD COUNTY'S TOURIST INDUSTRY

Increase Broward County's attractiveness to tourists through the establishment of a land use pattern and development regulations aimed at enhancing the area's natural and man-made environments such as beaches, shorelines and marine facilities.

POLICY 9.12.01 Establish a countywide land use pattern that will facilitate adequate access to multi-modal transportation options, including: walking, cycling, automotive, air, cruise ship, marine, bus, and rail. ~~access.~~

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POLICY 9.12.02 To ensure the adequate provision of public services and facilities, all local governments shall take into consideration Broward County's tourist population and the seasonal demands placed upon the County's infrastructure and natural resources.

POLICY 9.12.04 Broward County, in coordination with its local governments, shall ~~consider~~ seek funding for the acquisition of abandoned properties and undeveloped land in the coastal areas for acquisition as increased passive recreation, open space and/or restoration to its natural state.

OBJECTIVE 12.01.00 COORDINATE TRANSPORTATION PLANNING ACTIVITIES WITH LAND USE DECISIONS

POLICY 12.01.12 Broward County shall continue to support and link local and state infrastructure investments to better coordinate multi-modal transportation and mixed land uses, which encourage a reduction in vehicle miles traveled and in greenhouse gas emissions, improved energy efficiency, affordable housing proximate to urban work centers, and progress toward other sustainability and quality of life measures.

POLICY 12.01.13 Broward County shall, in cooperation with its municipalities, the Broward Metropolitan Planning Organization, Florida Department of Transportation and other agencies, consider climate change impacts in the design and location of transit oriented infrastructure and development, in order to protect public and private investment and the welfare and safety of current and future populations. The Priority Planning Areas for Sea Level Rise map in the Broward County Land Use Plan, which designates areas at increased risk of flooding due

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to, or exacerbated by, sea level rise over the next 50 years, shall provide guidance for this consideration in planning decisions.

INTERGOVERNMENTAL COORDINATION

OBJECTIVE 13.02.00 CONSISTENCY WITH STATE AND REGIONAL PLANS AND COMPREHENSIVE PLANS OF ADJACENT COUNTIES

POLICY 13.02.07 Broward County will continue to coordinate with the Southeast Florida Regional Climate Change Compact County Partners, local Metropolitan Planning Organizations, South Florida Water Management District, South Florida Regional Planning Council, and state and federal partners to ensure that the latest available data and adaptation strategies are used to protect people, property, infrastructure and natural resources from the effects of a changing climate.

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Map Narrative

Priority Planning Areas For Sea Level Rise Map:

This map identifies areas near tidal water bodies at increased risk of inundation under a 2 foot sea level rise scenario, projected to occur as soon as 2060. This map was produced by Broward County in partnership with the South Florida Water Management District (SFWMD) and the National Oceanographic and Atmospheric Administration (NOAA). The model uses a V-DATUM sea level surface developed by NOAA to determine the elevation of the mean higher high water events. The land elevation was generated using LiDAR (Light Detection and Ranging) remote sensing technology that accurately measures elevations using airborne lasers. The 2007 LiDAR elevation dataset was developed for the Florida Division of Emergency Management. The timeline for a two foot sea level rise is based on the Southeast Florida Regional Climate Change Compact unified sea level rise projection for the Southeast Florida. Priority Planning Areas are limited to the coastal communities with land east of the SFWMD's salinity control structures.
