



TOWN OF PALM BEACH
COMPREHENSIVE PLAN

JULY 28, 2017

TOWN OF PALM BEACH
PLANNING, ZONING & BUILDING DEPARTMENT
07/28/2017

TABLE OF CONTENTS

I.	FUTURE LAND USE ELEMENT	
	BACKGROUND	I-1
	INTRODUCTION	I-2
	EXECUTIVE SUMMARY	I-3
	Land Use Issues	I-3
	Policies Regarding Change	I-5
	Innovative Approaches	I-5
	Population and Economy	I-5
	Existing Land Use	I-7
	Future Land Use Needs	I-12
	SUMMARY OF ANALYSIS	I-13
	FUTURE LAND USE PLAN	I-20
	GOALS, OBJECTIVES, AND POLICIES	I-27
II.	TRANSPORTATION ELEMENT	
	INTRODUCTION	II-1
	EXECUTIVE SUMMARY	II-2
	Existing Roadway Functional Classification	II-2
	Traffic Generators	II-3
	Regionally Significant Roadways	II-4
	Traffic Circulation Analysis	II-4
	Existing System Deficiencies	II-5
	Existing Multimodal Transportation Services	II-7
	Future Transportation System	II-8
	Analysis of Projected Traffic and Needs	II-8
	Future Levels of Service	II-10
	Traffic Signage and Town-Wide Beautification	II-11
	GOALS, OBJECTIVES, AND POLICIES	II-13
III.	HOUSING ELEMENT	
	INTRODUCTION	III-1
	EXECUTIVE SUMMARY	III-2
	Community Character, Growth, Housing Inventory, and Vacancy Rates	III-2
	Housing Costs	III-4
	Special Housing Types	III-4
	Housing Need	III-4
	The Private Sector and Housing Supply	III-5
	The Housing Delivery System	III-6
	RECOMMENDATIONS	III-6
	GOALS, OBJECTIVES, AND POLICIES	III-9

IV.	INFRASTRUCTURE ELEMENT	
	INTRODUCTION	IV-1
	EXECUTIVE SUMMARY	IV-2
	Existing and Future Land Uses	IV-2
	Sanitary Sewer Services	IV-2
	Solid Waste	IV-3
	Garbage	IV-3
	Vegetative Yard Trash	IV-5
	Special Solid Waste	IV-6
	Recycling	IV-7
	Drainage	IV-7
	Potable Water	IV-12
	Aquifer Recharge	IV-15
	Underground Utilities	IV-16
	GOALS, OBJECTIVES, AND POLICIES	IV-20
V.	COASTAL MANAGEMENT/CONSERVATION ELEMENT	
	INTRODUCTION	V-1
	EXECUTIVE SUMMARY	V-2
	Hazardous Wastes	V-2
	Drainage	V-2
	Floodplains	V-2
	Groundwater	V-2
	Potable Water	V-3
	Natural Resources	V-3
	Existing Land Use and Related Land Use Issues	V-13
	Future Land Use and Development Impacts	V-14
	Remedies for Existing Pollution	V-15
	Infrastructure and Natural Disaster Planning	V-15
	GOALS, OBJECTIVES, AND POLICIES	V-21
VI.	RECREATION/OPEN SPACE ELEMENT	
	INTRODUCTION	VI-1
	EXECUTIVE SUMMARY	VI-2
	Recreation Inventory	VI-2
	Recreation Standards	VI-9
	Existing and Future Recreation Needs	VI-10
	GOALS, OBJECTIVES, AND POLICIES	VI-12
VII.	INTERGOVERNMENTAL COORDINATION ELEMENT	
	INTRODUCTION	VII-1
	EXECUTIVE SUMMARY	VII-1
	Analysis	VII-2
	Transportation Element	VII-3
	Housing Element	VII-4
	Infrastructure Element	VII-4
	Coastal Management/Conservation Element	VII-5

	Recreation/Open Space Element	VII-7
	Capital Improvements Element	VII-7
	Implementation	VII-7
	GOALS, OBJECTIVES, AND POLICIES	VII-8
VIII.	CAPITAL IMPROVEMENTS ELEMENT	
	INTRODUCTION	VIII-1
	EXECUTIVE SUMMARY	VIII-2
	Definitions	VIII-2
	Local Policies and Practices	VIII-2
	Existing and Future Public Education	
	Facilities	VIII-3
	Existing and Future Health Care	
	Facilities	VIII-3
	Summary of Budgeted Capital Items	VIII-3
	Capital Improvement Program Project Description	VIII-4
	Implementation	VIII-14
	GOALS, OBJECTIVES AND POLICIES	VIII-15
IX.	HISTORIC PRESERVATION ELEMENT	
	INTRODUCTION	IX-1
	Purpose	IX-1
	Summary of Landmarks Preservation Ordinance	IX-1
	GOALS, OBJECTIVES AND POLICIES	IX-13
X.	PUBLIC SAFETY ELEMENT	
	GOALS, OBJECTIVES AND POLICIES	X-2

INDEX OF TABLES

TABLE I-1	DEMOGRAPHIC DATA 1990 TO 2010 POPULATIONS	I-6
TABLE I-2	RESIDENT AND SEASONAL POPULATIONS	I-6
TABLE I-3	EXISTING LAND USE	I-9
TABLE I-4	EMPLOYMENT DATA FROM 2012	I-11
TABLE I-5	FUTURE LAND USE	I-21
TABLE II-1	DAILY PEAK SEASON TRAFFIC COUNTS	II-9
TABLE 3	RESIDENT POPULATION & HOUSING CHARACTERISTICS	III-2
TABLE VI -1	TOWN RECREATION, PARK AND OPEN SPACE FACILITIES	VI-3
TABLE VI-2	TOWN CULTURAL AND SCHOOL FACILITIES AND PRIVATE PARKS	VI-4
TABLE VI-3	PRIVATE CLUBS AND FACILITIES	VI-4
TABLE VI-4	LEVEL OF SERVICE FOR RECREATION AND OPEN SPACE FACILITIES	VI-9

INDEX OF MAPS AND CHARTS

I – FUTURE LAND USE ELEMENT

MAP I-1	EXISTING LAND USE MAP - 2017 FUTURE LAND USE MAP - 2027
MAP I-2	PARK & RECREATION FACILITIES - 2017
MAP I-3	HISTORIC SITES MAP - 2017
MAP I-4	BEACHES, SHORES & WILDLIFE MAP - 2017
MAP I-5	ESTUARINE AREAS, WETLANDS AND VEGETATIVE COVER MAP - 2017
MAP I-6	100-YEAR FLOODPLAIN MAP - 2017 COASTAL HIGH HAZARD AREA MAP - 2017-2027 FLOOD ZONE MAP - 2017
MAP I-7	MINERALS & SOILS MAP – 2017
MAP I-8	PUBLIC BUILDINGS & GROUNDS MAP –2017
MAP I-9	PUBLIX BUILDINGS & GROUNDS MAP - 2027

II – TRANSPORTATION ELEMENT

MAP II-1	EXISTING ROAD, BICYCLE & PEDESTRIAN NETWORK MAP – 2017 EXISTING FUNCTIONAL CLASSIFICATION MAP – 2017 ROADWAY NUMBER OF LANES MAP – 2017 EXISTING ROADWAY RESPONSIBILITY MAP – 2017 FUTURE ROAD, BICYCLE & PEDESTRIAN NETWORK MAP – 2027 FUTURE FUNCTIONAL CLASSIFICATION MAP – 2027 FUTURE ROADWAY NUMBER OF LANES MAP – 2027 FUTURE ROADWAY RESPONSIBILITY MAP – 2027
MAP II-2	TRAFFIC & PARKING PROBLEM AREAS – 2017
MAP II-3	EXISTING PUBLIC TRANSIT MAP – 2017 FUTURE PUBLIC TRANSIT MAP – 2027

V – COASTAL MGMT/CONSERVATION ELEMENT

CHART V-1	SUMMARY OF ECOLOGICAL COMMUNITIES
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VII – INTERGOVERNMENTAL COORDINATION ELEMENT

APPENDIX A	INTERGOVERNMENTAL COORDINATION MATRIX
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IX – HISTORIC PRESERVATION ELEMENT

MAP IX-1	ARCHAEOLOGICAL SITES
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FUTURE LAND USE ELEMENT

BACKGROUND

The art of planning is no stranger in the Town of Palm Beach, and the beauty which Town residents now enjoy is due to the efforts of several generations of planning activity. In 1929, the Garden Club of Palm Beach joined the Town and formally sponsored the preparation of a Town Plan. This Plan was prepared by Bennett, Parsons and Frost, Consulting Architects of Chicago, and approved by the Town Council on December 19, 1929.

The overall goal of the 1929 Plan stated the following:

"One attractive and well managed public bath and beach, the concentration of general traffic upon a limited number of streets, beautification without especial reference to main arteries of travel, and a system of leisurely and convenient byways free from automobiles, punctuated with gardens: this is a plan which will localize recreation seeking crowds, discourage trespassing, and provide safety and quiet for residents of Palm Beach."

Under a section which dealt with "a review of tendencies", the following statement was made:

"There are many communities which can be said to be beautiful. The places in which charm is the additional attribute are very few. The element of charm is the thing which lifts a community out of the ordinary and makes it distinctive. The attribute of charm may be produced by an intelligent development of physical advantages in an unusual way."

This planning process, which was started in 1929, was an important policy foundation for the Town of Palm Beach. Today's Comprehensive Plan builds on the early foundation as an effort to preserve the quality and beauty of Palm Beach.

INTRODUCTION

The purpose of the Future Land Use Element is to designate future land use patterns as reflected in the goals, objectives and policies of the other Comprehensive Plan Elements.

The future land use patterns proposed for the community are shown on the Future Land Use Map. The map, as well as other Elements of the Plan, is based upon the stated desires of the community to remain a high quality residential community. The Future Land Use Map provides for a variety of land use types suited to the Town's needs.

As shown in the table below, the Town's population continues to decline. In addition, the Town is experiencing the combination smaller lots in order to create a larger parcel for new single family homes; thereby reducing the overall number of housing units.

This Element of the Plan has been revised based upon review and assessment of the following:

1. Analysis of existing land use patterns prevailing as of April 2017;
2. Estimates and projections of the resident and seasonal populations in the Town for the 2017-2027 planning period;
3. Analysis of the availability of facilities and services to serve existing land uses, and those for which development orders have been issued;
4. Analysis of the character and magnitude of vacant and undeveloped lands and their suitability for use;
5. Analysis of the amount of land needed to accommodate the projected population;
6. Analysis of the need for redevelopment; and,
7. Analysis of the proposed development or redevelopment of flood prone areas.

EXECUTIVE SUMMARY

The Town of Palm Beach is essentially “built-out.” This unique island community has grown and developed into a premier residential community of exceptional beauty. As a result, the future of the island will be focused on preserving and protecting this residential island community while maintaining the culture, serenity, and the unique character of the Town.

The Future Land Use Element is the pivotal element of the Town's Comprehensive Plan. It recognizes the intrinsic value of the Town as a residential community, and takes on the challenge of setting management goals and techniques which will allow the community to control the type, distribution, and density of development and redevelopment.

The Existing Land Use Map portrays the location and distribution of land uses in Palm Beach as of 2017. The Future Land Use Map indicates the proposed location and distribution of land uses in the year 2027. All policies, land development regulations, zoning ordinances, and the zoning map must be consistent with the Future Land Use Map once the Comprehensive Plan has been adopted.

The current Existing Land Use Atlas is kept on file in the Office of the Town Clerk and provides detailed mapping of the pattern of land uses in the Town as of April 2017.

LAND USE ISSUES

Palm Beach has grown more gracefully than most Florida communities. Decades of careful planning and the dedication of its Townspeople to preserving community values have resulted in a unique and highly desirable quality of life. However, the very aspects of the Town that appeal to most of its citizenry—superlative stores and restaurants, grand architecture and landscaping, and beautiful homes—also attract tourists and other visitors. As a result, during the peak season, the Town's traffic and limited availability of parking reach critical levels that threaten the community's identity, character, and quality of life.

In addition, the impact of the world beyond the Town's limits has increased. Palm Beach County has grown immensely in the last several decades. Hundreds of thousands of people are now within a relatively easy drive of the world renowned Worth Avenue. State Road A1A is more heavily traveled. Nearby Palm Beach County International Airport continues to expand its service, with unhappy results for Town residents who live within the flight path.

Intensive development occurring in downtown West Palm Beach is a concern as it relates to impacts on the Town public services.

The Town has also been experiencing a shortage of Town-serving services. As property values

continue to climb, Town-serving commercial services find it increasingly difficult to pay the escalating rents. There is continual pressure from local retailers and businesses to cater goods and services to clientele beyond the Town's border. Commerce related traffic from off-island customers has therefore increased. The intensive development now taking place in the West Palm Beach downtown will surely add to this problem.

There are remedial and preventative strategies that can be employed to cope with these basic problems. The three most basic land use protection strategies for Palm Beach are to:

- Discourage the amount and type of region-serving commercial development while encouraging Town-serving ones.
- Control the pace, type, and intensity of redevelopment activity in older areas of Town.
- Encourage development and redevelopment at lower density levels than existing zoning allows, except for redevelopment where maintaining previous densities and/or intensities are allowed after unintentional damage or destruction, such as by fire or other casualty, act of terrorism, war or act of God or nature (and with approval from FDEP if building east of the CCCL).

The tremendous pressure for expansion of commercial land use is a direct function of the economically valuable image of a Palm Beach address. It is imperative that region-serving, high traffic generating, commercial uses be prevented from further proliferating and be reduced wherever possible. To this end, the Town is committed to ensure that the existing businesses and commercial areas within the Town remain vital and continue to meet the needs of its residents.

The Town's Zoning Ordinance has established 4,000 square-feet as the maximum gross leasable area for commercial establishments in certain districts. To be granted a waiver from this provision, the applicant must demonstrate that the business is Town-serving; that adequate parking is available to support the request for increased floor area; and, that a hardship exists which prevents them from conducting their Town-serving business within 4,000 square-feet or less. The most common waivers have been for financial institutions and professional office space.

Residential redevelopment could play a major role in future land use. There is little open land remaining to develop, so developer interest will focus on large estates that will be tempting to subdivide. Many estates can be subdivided without additional rezoning, since the existing densities are lower than present zoning allows. Measures that will slow or prevent such change include Historic Landmarks Regulations, strict application of the Town's Subdivision Regulations, and the Town's PUD-4 zoning provision which is intended to encourage preservation of historic residential structures and their adjoining grounds.

POLICIES REGARDING CHANGE

While many of the Town's concerns regarding growth control originated in a desire to maintain a high quality of life and a small town character, many issues are clearly related to State-wide efforts to curb growth when the facilities needed to serve new development are not available.

The Town recognizes that future development and attendant population growth would aggravate traffic problems, perhaps bringing the Town to a critical level of overuse. The Town has therefore adopted the following policy regarding growth:

To prevent critical and dangerous overuse of its streets, parking resources, public services and facilities, and damage to its historic character and to overall property values of the community, the Town will take all technical and administrative measures legally available, including the use of this Comprehensive Plan, to minimize the change or transition of existing low-density areas or structures to more intensive use patterns, and thereby lower the pattern of density, where possible, and to minimize tourism inflow.

INNOVATIVE APPROACHES

There is evidence of a trend to demolish smaller existing homes and replace them with new structures built to the maximum size permitted under the Town's Land Development Regulations, particularly in the R-B Zoning District. New construction is increasingly out-of-scale and character with the surrounding area. In order to maintain the existing character, regulations encouraging renovation and discouraging demolition and reconstruction, may be warranted.

POPULATION AND ECONOMY

The Town of Palm Beach experienced its greatest growth between 1950 and 1970, when its resident population increased from 3,886 to 9,086. Since then, population growth has actually declined. According to the 2010 US Census, the Town had a population of 8,161. Table I-1 below shows US Census data from 1990, 2000, and 2010. The Town's 2000 and 2010 total population and total housing units figures were corrected as shown. It important to note that other population information from 2000 and 2010 are based on the non-corrected figures. The University of Florida, Bureau of Economic and Business Research (BEBR) estimates the 2015 population at 8,040. Future population growth is expected to remain relatively flat.

**Table I-1
Demographic Data 1990 to 2010
Town of Palm Beach**

	2010		2000		1990	% Change (1990 to 2010)
Total Population	8,161 ¹	8,348	9,676 ²	10,468	9,814	-16.8% ¹ - 14.9%
<18		572		989	657	-12.9
>18		7,776		9,479	9,157	-15.0
>65		4,657		5,501	5,163	-9.8
Median Age		67.4		66.6	66.2	
Total # of Households		4,799		5,789	5,421	-11.5
Avenue Household Size		1.74		1.81	1.81	
Total Housing Units	8,857 ¹	9,091	9,004 ²	9,948	9,191	-3.6% ¹ -1.08%

Source: US Census 1990, 2000, and 2010 ¹ Town of Palm Beach Corrected 2010 US Census figures – only Total Population and Total Housing Units available. ² Town of Palm Beach Corrected 2000 US Census figures – only Total Population and Total Housing Units available.

During the winter season, November through April, the Island's population swells to a peak double that of its year-round residential population as a result of the influx of seasonal residents and tourists. This estimate is based on full occupancy of all residential and transient lodging units, but does not include day tourists, shoppers, or employees in the Town. Table I-1 provides projections of the Town's permanent and seasonal populations through the year 2025.

The Town's economy revolves around the provision of commercial goods and services to its year-round and seasonal residents and tourists.

It continues to be a major objective of the Town to inhibit further commercialization, contain commercial uses to limited geographic locations, and to promote commercial uses which are primarily oriented to serving the needs of residents, employees and visitors staying in accommodations in the Town, while discouraging those businesses that attract customers and clients from off the Island.

**TABLE I-21
RESIDENT AND SEASONAL POPULATIONS
Town of Palm Beach
2010-2025**

PEAK SEASONAL POPULATION				
YEAR	YEAR-ROUND	SEASONAL & TRANSIENT		
	Residents ⁽¹⁾	Seasonal ⁽²⁾	Transient	

2010	<u>8,161</u>	<u>6,311</u>	3,000	<u>17,472</u>
2016	<u>8,040</u>	<u>6,233</u>	3,000	<u>17,273</u>
2025	<u>8,425</u>	<u>6,531</u>	3,000	<u>17,956</u>
⁽¹⁾ At 1.74/unit (year round occupied;4,690 units) ⁽²⁾ 1.74/unit(Seasonally vacant or held for occasional use; 3,627units) ⁽³⁾ Approximately 1500 units at 2/unit				

: 2010 U.S. Census corrected figure; 2010 U.S. Census; 2010 U.S. Census; Univ. of Florida, Bureau of Economic and Business Research, Palm Beach County, 2015 Town of Palm Beach April 2017

EXISTING LAND USE

The Town of Palm Beach lies on a coastal barrier which is separated from the mainland by Lake Worth, and the Lake Worth and South Lake Worth Inlets. The barrier is a low relief feature, consisting of beach and dune sand underlain by a ridge of coquina rock. Scattered outcrops of coquina extend into the waters of the Atlantic, where they provide substrate for various marine communities. The upland face of the barrier is characterized by a high ridge along the Atlantic which gradually slopes downward to the Lake.

The Town occupies an area approximately 12 miles in length, and varying in width from about one-quarter to three-quarters of a mile. It is surrounded by water on three sides: Lake Worth to the west, Lake Worth Inlet to the north, and the Atlantic Ocean to the east. The Town of South Palm Beach lies to the south. Expansion of the corporate limits of the Town is impossible. Thus, the Town has a finite area in which to accommodate its citizenry and the facilities to serve them.

Palm Beach is essentially built-out. Equally important, areas with potential for redevelopment are limited and require sensitive treatment to be fully compatible with the existing land use distribution in the Town. It is helpful to view Palm Beach from an overall perspective because such a macro-view allows identification of relationships, historical patterns, and land use groupings. The following diagram provides a generalized view of the land use patterns in the Town today.

There has been no increase or decrease in the land area of Palm Beach since the last Evaluation and Appraisal Report (EAR). Further, practically all construction in the Town since the last EAR has been the result of redevelopment of the same type of use that existed prior. Maps titled Existing Land Use April 2017 graphically portray the identified existing land uses.

The Town encompasses approximately 2,509 acres, including street rights-of-way. Table I-2 summarizes existing land uses in the Town as of April 2017 by general range of density and intensity

of use which remains unchanged since the last Evaluation and Appraisal Report. There are no agricultural, industrial, or mobile home uses in the Town; there are also no rivers, bays, fresh water lakes, harbors, waterwells, cones of influence, or economically feasible mineral deposits.

Residential is the predominant land use within the Town, accounting for 60% of all land area. The majority of single-family units are located in the north and south central portions of the Town. In contrast, most multi-family dwellings are located in the southernmost part of Town, south of Sloan's Curve, and were developed beginning in the 1960's. Because of the high cost of land, and the fact that Palm Beach is located in the coastal hurricane vulnerability zone, there are no mobile homes in the Town.

The acreage devoted to commercial uses including hotel/resort uses accounts for about 4% of all land area. This represents a ratio of about 11.8 acres per one thousand population. This ratio is somewhat high compared to other communities due to the high seasonal residency component.

**TABLE I-3
EXISTING LAND USE
Town of Palm Beach**

LAND USE CATEGORY	2017	
	Acres*	Percent
Total Land and Water	5,434	
Water/Submerged Lands	2,878	
Spoil Islands	47	
Net Contiguous Land Area	2,509	100%
Single-family	1,162	46%
Multi-family	355	14%
Breakers Mixed-Use PUD	138	6%
Hotel/Resort Accommodations**	29	1%
Commercial	86	3%
Public	48	2%
Recreation	74	3%
Private Group Use	242	10%
Conservation	3	***
Vacant	51	2%
Rights-of-way	321	13%
* A Palm Beach acre (PB ac.) is 40,000 square feet		
** Excludes the Breakers Hotel, which is part of the Breakers Mixed-Use PUD		
*** Less than 1%		

SOURCE: Town of Palm Beach
April 2017

Commercial uses are concentrated in three areas of the Town, as follows:

1. A small commercial node is located at the south end of Town, near the Lake Worth Bridge to the mainland, serving some of the needs of the residents in this part of Town as well as visitors staying in local hotels.
2. Worth Avenue is located near Town Hall in the center of Palm Beach. Worth Avenue shops cater to the desires of seasonal and year-round residents of the Town as well as tourists. While open year-round, the Avenue's principal business is conducted during the "season."

The Town-serving commercial area, including the commercial areas of South County Road and Peruvian Avenue, serves as an adjunct to the more famous Worth Avenue shopping area, providing additional shops and services. The Town's objective is to retain and enhance the "Town-serving" character of this section of Palm Beach.

Royal Palm Way, also in the Town center area a few blocks north of Worth Avenue, is a wide, palm-lined boulevard, dedicated primarily to offices, banking and professional uses.

3. The commercial concentration in the vicinity of Royal Poinciana Way, near the Flagler Memorial Bridge, is primarily oriented to the local retail and service needs of Town residents and visitors. However, the Royal Poinciana Plaza, a concentration of shops, restaurants, ~~and~~ offices, and the Royal Poinciana Playhouse just east of the Flagler Memorial Bridge, serves a broader clientele.

4. The dominant character of the Town's commercial sector is one of small scale. The vast majority of the commercial uses in the Town each encompass 4,000 square-feet or less of gross leasable area. Despite the reputation of Worth Avenue and the presence of some large retail anchors and office uses in the Town, the overall character of the Town's commercial areas is one of small business concerns which, individually, would not normally be expected to draw the majority of its patrons from beyond the Town's limits.

Table I-4 below includes information regarding the Town's employment based on the US Census 2012 Economic Census. Based on the information from 2012, the largest employment sector in the Town was within the accommodation and food service sector where over 4,000 people were employed.

Table I-4
Employment Data from 2012
Town of Palm Beach

	North American Industry Code System (NAICS) Code	Number of Establishments	Number of Employees
1	Wholesale Trade	15	100-249
2	Retail Trade	177	1,345
3	Transportation and Warehousing	12	57
4	Information	3	16
5	Finance and Insurance	89	829
6	Real Estate and Rental and Leasing	101	522
7	Professional, Scientific, and Technical Services	140	668
8	Administrative and Support and Waste Management	23	100-249
9	Educational Services	3	57(a)
10	Health Care and Social Assistance	24	78
11	Arts, Entertainment and Recreation	24	1,181
12	Accommodation and Food Services	43	4,074
13	Other Services	97	1,129

Source: 2012 Economic Census of the United States; US Census 2016

(a) The 2012 Economic Census does not provide for a breakdown of employees, but rather gives a range of 0-19 employees for the two subcategories of establishments. Therefore, the highest number (19*3=57) assumed.

There are no industrial or agricultural uses within the Town of Palm Beach.

Fishermen's Island, Hunter's Island, and Bingham Isle are leased by the Audubon Society as rookeries and bird sanctuaries, and have been designated for conservation on the Town's Future Land Use Plan Map. Title to these islands is variously held by either the State Trustees of the Internal Improvement Fund or the Blossom Estate. In addition, a portion of the Blossom Estate Subdivision was designated for conservation in connection with the approval of this subdivision.

Lands devoted to public recreational use account for 5% of the land area in the Town (excluding rights-of-way). There are three types of public recreation areas in Palm Beach: major recreation areas (such as community parks), neighborhood/mini parks, and special use resources or facilities. All facilities are described in detail in the Recreation/Open Space Element.

Public uses include schools and governmental facilities such as Town Hall, police and fire stations, sanitary sewerage lift stations, etc. These constitute approximately 2% of the land area in the Town.

Private Group Uses account for 10% of the land in the Town. This category includes such uses as churches, private schools, golf and country clubs, other private clubs, museums, etc.

The Town has surveyed 1,162 sites of potential historic or architectural significance. All are listed on the Florida Site File of the Florida Department of State, Division of Historical Resources. Town has designated 320 landmark properties as of May 2017. These are protected by ordinance.

FUTURE LAND USE NEEDS

Palm Beach is an intensely developed coastal community with almost no room left for growth. Expansion of the corporate area is likewise impossible. Significant population growth cannot take place unless major redevelopment occurs in existing single-family areas. These factors, combined with the fact that most of the Town's land area is already developed, and located on a barrier island limit the Town's ability to arrange, shape and allocate land uses to adjust to community needs, and limit the permissible density of population.

There are presently about 112 acres of hotel, retail, service, office, pay parking, and mixed commercial uses. This represents about 11 acres of commercial use per one thousand population. This is somewhat high compared to other communities, due to the unique character of the Town's year-round and seasonal residents, and the seasonal tourist influx.

However, in order to maintain the Town's predominantly residential character, no additional lands for commercial uses are considered necessary or appropriate. The Town's inventory of recreational lands and facilities is more than adequate to provide for anticipated needs throughout the planning period. Given the small amount of population growth projected, no additional land will be needed for governmental or institutional uses.

SUMMARY OF ANALYSIS

Provision of Public Services

Roadways and community facilities serve as support systems for the Town's land uses. Limitations in land area and a lack of potable water sources have resulted in the Town's dependence on mainland resources for several basic services. Consequently, the Town's plans for the future need to be in harmony with demands throughout the region for clean air and water, waste disposal facilities, and other limited resources.

The City of West Palm Beach supplies and distributes potable water to the Town also provides wastewater treatment service.

The Town collects vegetative yard trash and provides for disposal at Town-owned sites on the mainland. Solid waste is also collected by the Town and transferred to the Jog Road landfill operated by the Palm Beach County Solid Waste Authority.

The Town's storm drainage system is old and contains a number of outfalls which discharge into Lake Worth. The Town is currently obtaining National Pollutant Discharge Elimination System (NPDES) permitting for its drainage system. Because the Town is almost entirely developed, future drainage strategies must be directed toward practical corrections, while mitigating the impacts of future development.

The Town foresees no shortage in the areas of public infrastructure facilities or services over the next ten years.

The recreational emphasis of the Town's residents has been on private golf courses, clubs, and various cultural activities. To a great extent, these activities supplant more typical public recreational and cultural facilities. Nevertheless, in addition to an abundance of private recreational facilities, the Recreation/Open Space Element shows that public recreation facilities in the Town far exceed minimum standards.

The Town's transportation system is rapidly being strained to capacity, and, in fact, is at a critical stage. The linear configuration of the Island has produced a "one-road Town" with all the limitations of this urban form. County Road/Ocean Boulevard/State Road A1A forms the major north-south arterial spine that serves the entire length of Town.

In some locations, this route serves primarily as a residential access road, and is, therefore, not able to function as a major thoroughfare for carrying tourists and commercial thru-traffic. In other locations, the roadway rides the crest of oceanfront dunes between the beach to the east, and fully developed residential areas to the west. This part of the roadway, particularly susceptible to damage from storms, is equally unsuited to improvements that would provide additional roadway capacity. Widening of the roadway in these locations would damage the quality of beach areas and the adjoining residential properties.

A growing concern that will likely impact the Town's transportation system and recreational and park facilities is the amount of residential density and intensity being added within the City of West Palm Beach's downtown as well as potential growth in the City of Lake Worth. With limited recreation space and a Transportation Concurrency Exemption Area (TCEA) in place, expected spillover of that increased density and intensity into the Town will only exacerbate capacity concerns along County Road/Ocean Boulevard/State Road A1A.

Groundwater Aquifer Recharge

The Floridan Aquifer is typically the major source of potable water elsewhere in Florida, but is of only limited use in Palm Beach County due to its high salinity content. There are no recharge areas to the Floridan Aquifer in the Town.

Most potable water in the County comes from the surficial aquifer or surface water sources. The surficial aquifer in the Town of Palm Beach is unsuitable for potable consumption due to high

salinity levels. There are no designated recharge areas to this aquifer. Any areas in the Town that might have been suitable as designated recharge areas have already been developed in urban uses.

Soils and Minerals

Native soils in the Town have been largely eradicated by the process of urbanization. With the exception of a narrow ridge of highly permeable sand along the coastal ridge, most soils are poorly drained urban fill types.

The Florida Mining Atlas identifies two potentially valuable mineral resources in Palm Beach: coquina and sand. However, the socio-economic profile of the Town and consequent high real estate values preclude mining of these resources, either now or in the foreseeable future.

Vegetation and Wildlife

Past development has dramatically altered the natural environment of the island and its surrounding waters. The little developable land remaining in the Town is scattered in relatively small tracts, most of which lack significant natural or environmental characteristics.

Development of Coastal and Flood-Prone Areas

The Coastal High Hazard Area (CHHA) is defined as “[t]he area below the elevation of the category 1 storm surge line as established by a Sea, Lake and Overland Surges from Hurricanes (SLOSH) computerized storm surge model.” This area is a narrow area along the coast of the island, and is delineated in the future land use map series. Future infrastructure and public and private development within the CHHA will be restricted except when doing so is not feasible. The Town is legally limited in its ability to restrict development of private properties located in the CHHA.

However, the Town has long recognized the wisdom of limiting development densities and discouraging inordinate growth. The Town will continue to do so through the implementation of this Comprehensive Plan, which has as one of its basic tenets the effort to lower the patterns of density wherever legally and practically possible. With the exception of some in-fill areas, lands within the 100-year flood zone have already been developed. The Town will continue to limit, through the land development regulations, the prohibition of structures, with the exception of docks and municipal owned and operated parks and essential services, as defined in Chapter 134 of the Town’s Code of Ordinances, on or over submerged land. The Town will continue to enforce these regulations as has done so historically when Ordinance No. 3-60 was adopted in 1960.

Undergrounding of Utilities

The conversion of the overhead utilities to underground locations will be one of the most ambitious infrastructure projects ever undertaken by the Town of Palm Beach. The undergrounding will

preserve the historic character of the Town and enhance the aesthetics of the landscape and scenic vistas. The conversion will significantly improve the level of service and reliability of the electric, telephone, and cable communications to the Town.

Redevelopment

There are no concentrations of deteriorated structures or blighted areas in the Town, nor are any expected during the planning period. The high value of real estate in the Town, its unique character and history, and the vigilance of the local government and residents will continue to maintain a high standard of property conditions within the Town.

On the other hand, there are a great many properties in the Town that were developed earlier at densities or intensities now considered inappropriate. Most, however, while inconsistent with the Town's Future Land Use Plan Map, are not inconsistent with the Town's prevailing character. Therefore, there is no need to affirmatively encourage redevelopment or reduction of these situations. Future redevelopment will be required to conform to the intensities incorporated in the Town's Future Land Use Plan.

Future Redevelopment of Royal Poinciana Plaza/Royal Poinciana Way

There has been interest in the past in the redevelopment of the Royal Poinciana Plaza, and nearby commercial areas, as well as in the reopening of the long-shuttered Royal Poinciana Theater. Given its size and highly visible location, redevelopment of this area would no doubt have a major impact on the character of the Town and the quality of life of its residents.

Impacts of the Issue:

Redevelopment in this area will have a major impact on the character of the Town and the quality of life of its residents.

Given its highly visible location, redevelopment of the Royal Poinciana Plaza has significant potential to affect the established community character of the Town of Palm Beach. The Comprehensive Plan suggests that the special physical character of the Town of Palm Beach is the Town's long standing commitment to gradual and graceful evolution of development within the Town - as opposed to significant departures from the existing fabric of development.

On multiple occasions the owner of the Royal Poinciana Plaza has proposed to redevelop this distinctive site in a manner that conflicts with the Town's Comprehensive Plan and its Zoning Code.

Preservation of Residential Neighborhoods

As far back as 1990, the Town Council and the Zoning Commission have been evaluating those

portions of the Town’s Zoning Code that regulate the size of homes in the R-B zoning district, the predominantly single-family areas in the North End of the Town. Nevertheless, during the past several years, the issue of “excessively large homes” has become increasingly controversial in Palm Beach, as it has in other areas of the country.

Building norms for home sizes in the North End averaged 2,500 to 3,000 square feet (or less) in the decades of the 1930's to the 1970's; well below the 6,000 square feet allowed in the Town’s Zoning Code at that time. Today these historic norms have become the reference point, as housing construction evolves to reflect changing residential tastes and real estate markets. In 1980, for example, a 6,000 square foot house could be built on a 10,000 square foot lot. The house was allowed 3,000 square feet on the first floor, and 3,000 square feet on the second floor, comprising total lot coverage of 30%. However, at that time, very few homes were built to the maximum allowable size. Most were single-story homes and were designed as second homes intended for seasonal occupancy.

During the 1980's and 1990's, a number of factors changed, resulting in the construction of significantly larger homes. New homes were designed for use as primary residences, with more living space, larger rooms, and other amenities, in response to changing market demands. During that time, the Town’s Zoning Code underwent modifications to reduce the size of a house allowed on a typical lot in the R-B zoning district.

The Town’s zoning regulations, when combined with the required reviews by the Architectural Commission and Landmarks Preservation Commission, ensure that change is controlled and gradual. The Town reviews the existing regulations each year and makes changes that it believes will ensure the preservation of the Town’s distinctive ambiance and character.

Resulting Problems or Opportunities:

It is still important that the Town’s regulations allow and encourage development of a size and character that is consistent with the desires of the residents – whether that desire is to perpetuate the existing character or to encourage evolution to accommodate new trends in residential construction and occupancy within the different geographic areas of the Town. Where the desire is to maintain the existing character of an area, the land development regulations for that area should be structured so as to reduce the extent of nonconformities created over years of regulatory change.

FUTURE LAND USE PLAN

It is the purpose of the comprehensive planning process to effectively manage growth and proceed toward the improvement of the community for the future. Goals, objectives and policies are developed to provide measurable performance standards or "milestones" by which to measure progress. Unfortunately, some communities deteriorate in their structural and aesthetic condition despite meeting the goals and objectives of their approved plan. Many factors can

contribute to the demise of a community, such as a change in social values, economics, or deterioration of physical elements.

Often in the planning process the maintenance factor is forgotten. Many cases exist where overwhelming maintenance costs place a burden on the community in such a manner that deterioration and blight occur. Although it is a difficult task to properly plan for the development and growth of a community, it is equally important and difficult to maintain high quality standards once they have been achieved. Palm Beach is a community that has achieved a high standard of quality. Retaining its unique atmosphere and quality of life is the overall goal of the Plan.

Maintenance of high quality standards requires not simply upkeep of Town-owned infrastructure, but also an enormous private capital investment. The upkeep investment by the Town, via ad valorem and non-ad valorem revenues, must be complemented by funds invested by individual homeowners and businesses to expand, improve and rehabilitate their properties.

Summary of the Future Land Use Plan

The land use categories defined in this Element are compatible with the Town's individual zoning districts. Specific uses, dimensional regulations, and other requirements are identified in the Zoning Ordinance. Since industrial uses and mobile homes are prohibited in the Town, they are excluded from discussion in the Plan. Table I-3, following, summarizes the Future Land Use Plan Map in tabular form:

**TABLE I-5
Future Land Use**

FUTURE LAND USE CATEGORY	ACRES	PERCENT
Single-family Residential (up to 4 du/gross Palm Beach acre)	1,103	53
Multi-family Moderate Density (up to 6 du/gross Palm Beach acre)	117	6
Multi-family High Density (up to 13 du/gross Palm Beach acre)	226	11
Commercial	93	5

Public	4	0
Recreation	106	5
Private Group Use	219	11
Approved PUD (up to 13 du/gross Palm Beach acre)	168	8
Conservation	39	2
TOTAL*	2,076	100

Town of Palm Beach

* Parts may not add to 100% nor to total acreage of 2,076, due to internal rounding.

All references throughout this Comprehensive Plan to an “acre” or density in units per “acre” shall be construed as referring to a “Palm Beach acre” which is equal to 40,000 square feet.

Single-Family Uses

This is the most predominant land use in the Town. The Future Land Use Plan Map designates 1,103 acres of land for this use. The preferred locations are those with good visual qualities, buffered from annoying traffic influences with easy access to shopping and recreation.

Appropriate uses include estates, single-family homes, residential PUD's and cluster development up to a maximum density of four dwelling units per gross Palm Beach acre (40,000 square feet). Public uses and facilities, public and private schools, group homes and foster care facilities, essential services, and private group uses and cultural uses are also permitted within this category on a limited basis.

Multi-Family Uses

Two multi-family categories, permitting varying densities and uses, are shown on the Future Land Use Plan. In total, the Future Land Use Plan designates about 343 acres of land for this use.

Multi-Family Moderate Density: Appropriate uses include single-family and two-family homes, townhouses, multi-family units, and residential and mixed-use PUD's up to a maximum density of six dwelling units per gross Palm Beach acre (40,000 square feet); public uses and facilities; public and private schools; private group uses; group homes and foster care facilities; and essential services. The Plan designates about 117 acres of land for this use.

Multi-Family High Density: Appropriate uses include single-family and two-family homes, town-

houses, multi-family units, and residential and mixed use PUD's up to a maximum density of thirteen dwelling units per gross Palm Beach acre (40,000 square feet). Hotels up to 26 units/gross Palm Beach acre along with associated accessory commercial uses and time-sharing uses up to 9 units/gross Palm Beach acre may be appropriate under carefully controlled conditions. Other appropriate uses include public uses and facilities, public and private schools, private group uses, group homes and foster care facilities, and essential services. The Plan designates about 226 acres of land for this use. Nonconforming buildings or structures unintentionally damaged or destroyed, such as by fire or other casualty, act of terrorism, war or act of God or nature may exceed what is permitted in this land use category and the land development regulations if rebuilt at the same density and/or intensity, on the same footprint and to the same size and configuration as those nonconforming buildings or structures being replaced. Actual construction to replace, restore or reconstruct the nonconforming building or structure shall commence within the time frame outlined in the land development regulations.

Commercial Uses

While only one commercial category is specifically identified on the Future Land Use Plan Map, the Town provides for commercial uses at varying intensities under different zoning categories. The Plan designates about 93 acres for commercial uses, Appropriate uses include a wide range of commercial retail, service, professional and business uses largely intended to serve Town persons; hotels, motels and time-sharing uses; public uses and facilities; public and private schools; private group uses; and residential uses located above the ground floor. Nonconforming buildings or structures unintentionally damaged or destroyed, such as by fire or other casualty, act of terrorism, war or act of God or nature may exceed what is permitted in this land use category and the land development regulations if rebuilt at the same density and/or intensity, on the same footprint and to the same size and configuration as those nonconforming buildings or structures being replaced. Actual construction to replace, restore or reconstruct the nonconforming building or structure shall commence within the time frame outlined in the land development regulations.

Public Uses

The Plan designates approximately four acres of land for this use. Appropriate uses include public schools, low intensity public facilities at a scale and intensity necessary to primarily serve the needs of Town persons, and owned, operated, franchised, or supervised by a governmental agency. The designation of a property for Public Use on the Future Land Use Plan Map recognizes the current use of the property; and, further, that such properties may also be appropriate for residential or commercial development. The Zoning Ordinance is the tool which indicates those uses which are specifically allowed. Nonconforming buildings or structures unintentionally damaged or destroyed, such as by fire or other casualty, act of terrorism, war or act of God or nature may exceed what is permitted in this land use category and the land development regulations if rebuilt at the same density and/or intensity, on the same footprint and to the same size and configuration as those

nonconforming buildings or structures being replaced. Actual construction to replace, restore or reconstruct the nonconforming building or structure shall commence within the time frame outlined in the land development regulations.

Recreation Uses

The Plan designates approximately 106 acres of land for this use. This category is intended for low intensity public recreational uses or activities at a scale and intensity necessary to primarily serve the needs of Town persons, and to preserve the natural and scenic resources of the Town. Only public facilities, owned, operated, franchised or supervised by a public governmental entity, are given this designation. Nonconforming buildings or structures unintentionally damaged or destroyed, such as by fire or other casualty, act of terrorism, war or act of God or nature may exceed what is permitted in this land use category and the land development regulations if rebuilt at the same density and/or intensity, on the same footprint and to the same size and configuration as those nonconforming buildings or structures being replaced. Actual construction to replace, restore or reconstruct the nonconforming building or structure shall commence within the time frame outlined in the land development regulations.

Private Group Uses

The Plan designates approximately 219 acres of land for this use. Appropriate uses include low intensity private clubs, golf and country clubs, houses of worship, museums and noncommercial recreation-type or cultural uses at a scale and intensity intended to primarily serve the needs of Town persons. The designation of a property for Private Group Use on the Future Land Use Plan Map recognizes the current use of the property; and, further, indicates that such properties may also be appropriate for residential or commercial development. The Zoning Ordinance is the tool which indicates those uses which are specifically allowed or prohibited. Nonconforming buildings or structures unintentionally damaged or destroyed, such as by fire or other casualty, act of terrorism, war or act of God or nature may exceed what is permitted in this land use category and the land development regulations if rebuilt at the same density and/or intensity, on the same footprint and to the same size and configuration as those nonconforming buildings or structures being replaced. Actual construction to replace, restore or reconstruct the nonconforming building or structure shall commence within the time frame outlined in the land development regulations.

Approved PUD

This category represents Planned Unit Developments that have been approved by the Town Council. The Plan designates approximately 168 acres of land for this use. Only the Breaker's PUD contains remaining development potential. If built to maximum density, this PUD could hold another 251 multi-family units and some commercial development. Densities in new PUD's shall be limited to the

maximum density allowable in the land use category and zoning district in which they are located prior to their approval, but shall not exceed thirteen units per acre. Nonconforming buildings or structures unintentionally damaged or destroyed, such as by fire or other casualty, act of terrorism, war or act of God or nature may exceed what is permitted in this land use category and the land development regulations if rebuilt at the same density and/or intensity, on the same footprint and to the same size and configuration as those nonconforming buildings or structures being replaced. Actual construction to replace, restore or reconstruct the nonconforming building or structure shall commence within the time frame outlined in the land development regulations.

Conservation

This category is intended primarily for the spoil islands in Lake Worth and submerged lands located within the Town's boundary and located west of the MHWL in Lake Worth and which comprise about 39 acres. An additional 3-acre conservation parcel is located south of Southern Boulevard in the Blossom Estate subdivision. Both areas are unique, and will be preserved and protected from development and the negative impacts of public use.

Maps I-1 through I-7, comprising the Town's Future Land Use Map Series, provide mapping of future land use, recreation areas and their general service areas, historic sites and districts, beaches and shores, wetlands and estuarine areas, flood plains, and soils, follow. There are no existing or planned waterwells, cones of influence, rivers, bays, fresh water lakes, harbors, or economic mineral deposits in the Town of Palm Beach.

GOALS, OBJECTIVES AND POLICIES

GOAL 1

TO MAINTAIN THE TOWN'S UNIQUE IDENTITY AND ITS HIGH QUALITY OF LIFE THROUGH THE EFFICIENT DISTRIBUTION OF COMPATIBLE LAND USES.

OBJECTIVE 1

Future growth and development within the Town shall be managed to maintain and enhance the Town's unique physical and historic character with emphasis on its visual qualities, and compatibility and harmony among its diverse land uses. The measurement of this objective shall be the extent to which the following policies are implemented.

POLICY 1.1

Continue enforcement of the Town's Charter and Code of Ordinances containing specific and detailed provisions which are required to implement the adopted Comprehensive Plan, and which, at a minimum:

- a Regulate the subdivision of land;
- b Regulate the use of land and water consistent with this Element, ensure the compatibility of adjacent land uses, and provide for open space;
- c Protect lands designated for Conservation;
- d Regulate signage;
- e Regulate areas subject to seasonal or periodic flooding and provide for drainage and stormwater management;
- f Ensure safe and convenient on-site traffic flow and vehicle parking needs; and,
- g Provide that no development order or permit shall be issued which results in a reduction of services for the affected public facilities below the level of service standards adopted in this Comprehensive Plan; and

- h Reasonably ensure that newly planted trees are located in a manner that will require no more than minimal trimming in order to avoid contact with power lines.

POLICY 1.2

Conduct a staff review of each proposed new development or redevelopment project for the purpose of determining compliance with the Town's Code of Ordinances.

OBJECTIVE 2

Maintain the character of the Town as a predominantly residential community having only the type and amount of businesses and other support services necessary to meet the needs of Town residents.

POLICY 2.1

The listing of appropriate land uses in each of the individual land use categories identifies those uses generally expected to be appropriate.

- 2.1.1 Where essential services are indicated as an appropriate use, essential services shall include public utility facilities related to water supply, telephone (excluding wireless telecommunication facilities), cable television, gas, electrical distribution systems and town-owned services such as sanitary sewer, stormwater drainage, and solid waste collection and disposal systems, including any necessary appurtenant structures serving the Town.

POLICY 2.2

Development orders shall be issued by the Town only for new residential development or redevelopment that is consistent with the Future Land Use Map and associated Future Land Use Designations set forth in the following policies.

- 2.2.1 Single-Family Residential – Intended to accommodate and preserve estates and single-family residential development at a maximum density of four dwelling units per gross Palm Beach acre (40,000 square feet) and a maximum height of two stories.

Appropriate uses include single-family dwellings, residential PUD's as set forth in Policies 11.1.1 and 11.1.4, cluster development, public uses and facilities, public and private schools, private group uses, group homes and foster care facilities, and essential services.

- 2.2.2 Multi-Family Moderate Density – Intended to accommodate and preserve residential

development at a maximum density of six dwelling units per gross Palm Beach acre (40,000 square feet) and a maximum height of two stories.

Appropriate uses include single-family, two-family, townhouses and multi-family dwellings; residential PUD's as set forth in Policy 11.1.2; mixed-use PUD's as set forth in Policy 11.1.3; public uses and facilities; public and private schools; private group uses; group homes and foster care facilities; and essential services.

- 2.2.3 Multi-Family High Density – Intended to accommodate residential development at a - maximum density of 13 dwelling units per gross Palm Beach acre (40,000 square feet) and, under limited circumstances, a maximum height of five stories.

Appropriate uses include single-family, two-family, townhouses and multi-family dwellings; residential PUD's as set forth in Policy 11.1.2; mixed-use PUD's as set forth in Policy 11.1.3; hotel and motel uses up to 26 rooms per gross Palm Beach acre (40,000 square feet) and associated accessory commercial uses (hotel and motel rooms are considered to be equivalent to 0.5 dwelling units); timesharing uses up to nine units per gross Palm Beach acre (40,000 square feet); public uses and facilities; public and private schools; private group uses; group homes and foster care facilities; and essential services.

POLICY 2.3

Development orders shall be issued by the Town only for new non-residential development or redevelopment that is consistent with the Future Land Use Map and descriptions and intensities of land use as set forth in the following policies.

- 2.3.1 The following definitions shall pertain to the application of the non-residential land use designations and associated policies:
- a. "Town-serving" shall mean establishments principally oriented to serving the needs of Town persons and not substantially relying on the patronage of persons not defined as Town persons. Commercial establishments (other than those in the "Commercial – Office, Professional & Institutional" (C-OPI) zoning district, which are not required to meet town-serving requirements) of 3,000 square-feet or less of gross leasable area in the C-PC, C-TS and C-B zoning districts, and 4,000 square-feet or less of gross leasable area in the C-WA zoning district are assumed to meet the intent of the first part of this definition.
 - b. "Town persons" shall mean all full-time and seasonal residents of the Town as well as visitors staying at accommodations in, or employees working in establishments located within, the Town.

- 2.3.2 Conservation – Intended to preserve and protect unique natural areas and submerged land from development and the negative impacts of public use. No development or redevelopment is permitted on or over land designated in this category, with the exception of docks, essential services or parks owned and operated by the Town.
- 2.3.3 Commercial – Intended to create, preserve, and enhance areas of attractive, small-scale, retail, personal and professional/business services, and mixed commercial/residential use, developed either as a unit or in individual parcels, providing primarily for the frequently recurring needs of Town persons with limited provision for more intensive commercial uses that are proven to be compatible with the Future Land Use Plan and the character of the Town.
- a. Appropriate uses include a wide range of commercial retail, service, professional and business uses for residents and visitors; hotels/motels up to 26 rooms per gross Palm Beach acre (40,000 square feet); timesharing uses up to 9 units per gross Palm Beach acre (40,000 square feet); offices; public uses and facilities; public and private schools; private group uses; and residential uses located above the ground floor.
 - b. Except for uses located in the Worth Avenue zoning district (C-WA), one residential unit may be located above the ground floor, or up to a maximum density of six dwelling units per gross Palm Beach acre, whichever is greater. In the Worth Avenue zoning district the maximum allowable density shall be 10 dwelling units per gross Palm Beach acre provided the Worth Avenue Design Guidelines are met.
 - c. Maximum lot coverage for non-residential uses shall be 75%.
 - d. In limited circumstances, the maximum building height shall be three stories.
- 2.3.4 Public – Intended to recognize existing locations of, and provide sites for, public uses, structures and facilities.
- a. Appropriate uses include public schools, low intensity public buildings and facilities such as fire and police stations, Town Hall, etc., of a scale and intensity necessary to primarily serve the needs of Town persons. Only public uses owned, operated, franchised, or supervised by a governmental agency are given this designation.
 - b. The designation of a property for Public use on the Future Land Use Plan Map recognizes the current use of the property; and, further, that such properties may also be appropriate for residential or commercial development with uses identified under the Single-Family Residential and Commercial land use categories.
 - c. Maximum lot coverage shall be 40%.
 - d. In limited circumstances, the maximum building height shall be three stories.

- 2.3.5 Public Recreation – Intended to provide for low intensity public recreational uses or activities, natural resource and scenic resources of a scale and intensity necessary to primarily serve the needs of Town persons. Only public facilities owned, operated, franchised, or supervised by a public governmental entity are given this designation.
- 2.3.6 Private Group Use – Intended to provide for low intensity uses such as private clubs, golf and country clubs, public and private schools, houses of worship, museums, and non- commercial recreation-type or cultural uses at a scale and intensity intended to primarily serve the needs of Town persons.
- a. The designation of a property for Private Group Use on the Future Land Use Plan Map recognizes the current use of the property; and, further, that such properties may also be appropriate for residential or commercial development with uses identified under the Single-Family Residential, Multi-family Moderate Density, and Commercial future land use categories.
 - b. Maximum lot coverage shall be 40%.
 - c. In limited circumstances (Commercial Worth Avenue (C-WA) zoning district), the maximum building height shall be three stories.
- 2.3.7 Approved PUD – Intended to recognize existing or previously approved PUD’s and provide for new PUD’s within the density limits of the land use category in which they are located prior to approval of the PUD. PUD densities shall not exceed 13 dwelling units per gross Palm Beach acre.

POLICY 2.4

To prevent critical and dangerous overuse of its streets, parking resources, public services and facilities, and damage to its historic character, and to overall property values of the community, the Town will take all technical and administrative measures legally available, to minimize the change or transition of existing low-density areas or structures to more intensive use patterns, and thereby lower the pattern of density, where possible, and to minimize tourism inflow.

POLICY 2.5

Continue to enforce the provisions of the Town's Zoning Ordinance which are directed toward the encouragement of Town-serving commercial uses and the discouragement of those uses which are likely to attract patronage on a regional level.

POLICY 2.6

The Town shall provide the amount, location, and type of on-street parking and street furniture, signage, beautification measures and traffic control that is sufficient to assure efficient functioning of the Town's business centers at Town-serving levels, and shall require off-street parking as necessary

OBJECTIVE 3

Development orders or permits for new development or redevelopment shall be issued for construction in the floodplain or coastal high hazard area only if they meet the building elevations identified in the Flood Insurance Rate Maps (FIRM).

POLICY 3.1

Prior to the issuance of a development order or permit, the Town shall make and record the following determinations:

- a. The proposed building elevations meet or exceed elevations identified on the Flood Insurance Rate Maps (except when sufficient justification of extenuating circumstances may be shown).

OBJECTIVE 4

No new development shall be permitted on or over submerged lands or lands predominantly characterized by Tidal Swamp (TM) soils as identified in the Soil Survey of Palm Beach County.

POLICY 4.1

Areas identified as predominantly characterized by Tidal Swamp (TM) soils or identified as submerged lands shall be designated on the Town's Future Land Use Map for Conservation, and the Town's land development regulations shall prohibit urban development on such lands.

OBJECTIVE 5

Development orders and permits for new development or redevelopment, or building permits for developments that have been issued development orders prior to the adoption of the Comprehensive Plan, shall be issued only if public facilities and services necessary to meet the Town's adopted level of service standards are available concurrent with the impacts of the development.

POLICY 5.1

A concurrency analysis shall be conducted prior to the approval of any application for a development order, and no final development order shall be issued unless:

- a. Existing facilities and services meet the Town's adopted level of service standards as set forth in the Capital Improvements Element, or
- b. The final development order is conditioned on such facilities and services being available at the time the impact of development will occur, consistent with the Town's Concurrency Management System and implemented policies of the Capital Improvements Element.

POLICY 5.2

In order to ensure the availability of public facilities and services necessary to support development concurrent with its impacts, prior to the issuance of a development order or permit, the Town shall make and record the following determinations:

- a. Flooding will not occur during a one-year storm for systems served by pumping stations or during a three-year storm for systems with gravity outfalls, and the minor flooding associated with a five-year storm shall be carried off within sixty minutes.
- b. Negative impacts of stormwater discharge upon water quality in Lake Worth are ameliorated by the retention of the first two inches of rainfall prior to discharge into the Town system; or, the post-development runoff does not exceed predevelopment runoff for a three-year one-hour storm, whichever is greater; or,
- c. For all commercial, or residential development or redevelopment where:
 - i. The proposed value of the improvement exceeds 25% of the market value of the property;
 - ii. A new swimming pool is constructed;
 - iii. There is redevelopment of more than 20% of landscaped open space, 20% of the impervious area of the site including buildings, patios, etc. or a combination thereof which exceeds 20%;
 - iv. New driveways or parking areas are constructed;
 - v. The proposed work includes replacement or reconstruction of parking areas other than parking areas designed for less than three residential units; or
 - vi. Other development as may be deemed appropriate by the Town Engineer.

- d. There is adequate potable water supply capacity to continue providing the level of service standard established by the City of West Palm Beach, the Town's water provider. The City's current Potable Water Level of Service (LOS) is 272 gallons/per person/day (gppd);
- e. There are adequate recreation facilities to maintain a standard of 6 acres/1000 population;
- f. The traffic generation of the project will not reduce the level of service on roadways in the Town to a category lower than that established in this Plan;
- g. There is adequate sanitary sewer capacity to continue providing the level of service standard established by the City of West Palm Beach, the Town's water provider. The City's current LOS is as follows:

Waste Water Collection

Development Type	Avg. Daily Water Water Flow, gallons per day (gpd)
Single Family	350 gpd/DU
Multifamily	250 gpd/DU
Commercial	0.20 gpd/SF
Industrial	0.15 gpd/Sf
Hotel	100 gpd/room

DU=dwelling unit
SF=Square feet

gpd=gallons per day
AC=acre

Pumping Station

Peaking Factor	Avg. Daily Flow Million Gallons per Day (MGD)
3.5	0.01 to 0.05
3.0	0.05 to 0.25
2.5	0.25 to 2.0
2.0	>2.0

Peaking factors for other facilities shall be determined using historical flow record.

- h. There is adequate capacity to continue collecting and disposing of least 2.55 pounds of solid waste per person per day;
- i. The project will not increase the time necessary to evacuate the Town, in the event of a hurricane, to greater than twelve hours; or,

- j. The development order or permit is specifically conditioned on the availability of the necessary facilities and services for each of the above and that said facilities are authorized when the project is authorized.

POLICY 5.3

Prior to the issuance of a development order or permit, the Town shall make and record a determination that the project provides open space, on-site traffic flow and parking commensurate with the requirements of the Town's land development regulations.

OBJECTIVE 6

Efforts shall continue to be made to control blighting influences or other negative impacts to the Town, and redevelopment will be encouraged in areas experiencing deterioration, when appropriate.

POLICY 6.1

The Town's Code of Ordinance proactively allows potential problems to be cited and requires property owners of cited property to take remedial action.

OBJECTIVE 7

The number of uses incompatible with the range and location of land uses, identified in the Town's Future Land Use Plan Map, shall be reduced by attrition; and, no new uses shall be permitted that are inconsistent with the community's character and the Town's Future Land Use Plan Map.

POLICY 7.1

The Town shall amend its land development regulations, when necessary to be compatible and consistent with the range and location of land uses identified on the Town's Future Land Use Plan.

POLICY 7.2

The Town shall prohibit replacement or expansion of uses found to be incompatible or inconsistent with the range and location of land uses identified on the Town's Future Land Use Map and Official Zoning Map.

POLICY 7.3

The Town shall continue to allow designated landmark structures, single-family dwellings, two-family, townhouse, multi-family, commercial, and public structures or public/private group uses which are unintentionally damaged or destroyed, such as by fire or other casualty,

act of terrorism, war or act of God or nature to be rebuilt at the same density and/or intensity, on the same footprint and to the same size and configuration as those nonconforming buildings or structures being replaced provided FDEP standards are met when building east of the CCCL. Actual construction to replace, restore or reconstruct the nonconforming building or structure shall commence within the time frame outlined in the land development regulations.

OBJECTIVE 8

The Town shall protect its natural resources. The measurement of this objective is the extent to which natural resources are preserved and the degree to which the following policies are implemented.

POLICY 8.1

The Town shall protect the quality of its air from degradation by continuing to prohibit industrial uses within the Town.

POLICY 8.2

The Town shall protect designated native vegetation areas and their associated wildlife by prohibiting removal of vegetative species listed as threatened or endangered by State or Federal agencies on publicly owned property and new private development; and, by prohibiting planting of pestilent exotics and requiring removal of pestilent exotic species from sites of new construction or development.

POLICY 8.3

The Town shall stipulate that no development or construction which destroys wetland vegetation, including seagrass beds, shall be permitted in the Town unless loss is 100% mitigated.

POLICY 8.4

The Town shall require that all new development and redevelopment on the Atlantic shore restore dunes, where restoration potential exists and is necessary, as determined by the Town and FDEP.

POLICY 8.5

The Town will require soil erosion control techniques be used during construction.

POLICY 8.6

No development or redevelopment shall occur on or over submerged land other than docks, essential services or parks owned and operated by the Town.

OBJECTIVE 9

The Town shall protect its inheritance of structures and neighborhoods having historic or architectural merit. The measurement of this objective is the extent to which historic or architectural structures or neighborhoods are preserved, and the degree to which the following policies are implemented.

POLICY 9.1

Continue to protect the Town's historically significant properties and aesthetic character through the active participation of the Architectural and Historic Landmarks Preservation Commissions in the development review and approval process, as authorized by the Town's Code of Ordinances.

POLICY 9.2

The Town shall enforce its archaeological requirements as authorized by the Town's Code of Ordinances.

OBJECTIVE 10

The Town will coordinate and comply with any resource planning and management plan prepared pursuant to Chapter 380 FS, as amended.

POLICY 10.1

Coordinate with State, regional, county and local agencies to ensure mutual cooperation in the development of all appropriate resource planning and management plans prepared pursuant to Chapter 380, F.S. as amended. The Town will continue to monitor all other local governments' activities when notice is provided. The Town will continue to provide notice as required to other local governments and agencies on upcoming large development projects. The Town will continue to work closely with the Treasure Coast Regional Planning Council, Palm Beach County and School Board and the State of Florida on regional issues. The Town will continue to maintain mutual aid agreements with other local governments with reference to fire service, police and disaster preparedness.

POLICY 10.2

Continue to coordinate with other governments in securing full resources by the State and other agencies for programs of their design, creation and/or benefit, and continue to ensure the protection of local self-determination in matters which are not demonstrated to be of actual regional significance.

OBJECTIVE 11

Provide for Planned Unit Developments, and other innovative regulations and techniques that will assist the Town in maintaining its high standards, quality of life, and appropriate mix and location of land use types and structures; and, in ensuring that new development is compatible with existing surrounding properties.

POLICY 11.1

The following types of Planned Unit Developments shall be allowed in the Town:

- 11.1.1 Single-family PUD’s located within the Single Family Residential Land Use Category not exceeding four dwelling units per gross Palm Beach acre.
- 11.1.2 Mixed residential development located within the Multi-Family Moderate or Multi-Family High Density Land Use Categories, not exceeding the maximum density allowable within the Land Use Category.
- 11.1.3 Mixed-use development within the Multi-Family Moderate Density or Multi-Family High Density Land Use Categories, allowing for a mix of residential uses not exceeding the maximum allowable density within the Land Use Category and nonresidential development not exceeding 20% of the gross floor area of the PUD.

The following equivalencies shall be used in determining the intensity of the nonresidential components:

Land Use Type	Unit of Measurement	Equivalence to One Dwelling Unit of Gross Density
Hotels, motels or similar transient facilities	Number of bedrooms	Two bedrooms
Principal Commercial Uses	Total floor area	750 square feet
Accessory Commercial Uses	Total floor area	1,500 square feet

Other Nonresidential Uses	Total floor area	1,000 square feet
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11.1.4 In order to encourage preservation of historic residential structures, such single-family structures may be permitted to be converted through a historic preservation PUD to contain multiple residential units, within the confines of the existing structure, provided the density does not exceed four dwelling units per gross Palm Beach acre.

OBJECTIVE 12

The Town shall coordinate its coastal area population with the Regional Hurricane Evacuation Plan. The measurement of this objective will be the degree to which the Town coordinates with the appropriate Evacuation Plan, and the extent to which the following policy is implemented.

POLICY 12.1

The Town will review, and revise if necessary, its coastal area densities to ensure that they do not result in hurricane evacuation or shelter capacity deficiencies.

POLICY 12.4

The Town shall expand the Town’s education and notification process to emphasize the unpredictability of the power of an approaching storm and the need to evacuate early upon an evacuation warning-

OBJECTIVE 13

Public access shall be maintained to all recreational facilities, including recreational and commercial working waterfronts as defined in F.S. 342.07, under the jurisdiction of the Town of Palm Beach.

POLICY 13.1

The Town of Palm Beach shall establish priorities for siting appropriate water dependent and water related land uses consistent with F.S. 342.07, while at the same time protecting shoreline and conservation areas from degradation.

POLICY 13.2

The Town of Palm Beach shall continue to implement corrective measures on all access points identified by the Town as inadequate.

POLICY 13.3

The Town will, on an annual basis, inspect public access points at public facilities located within the Town of Palm Beach, but not under the Town's jurisdiction, to identify any impediments to access. It will notify respective governing agencies of impediments within three months of their identification.

POLICY 13.4

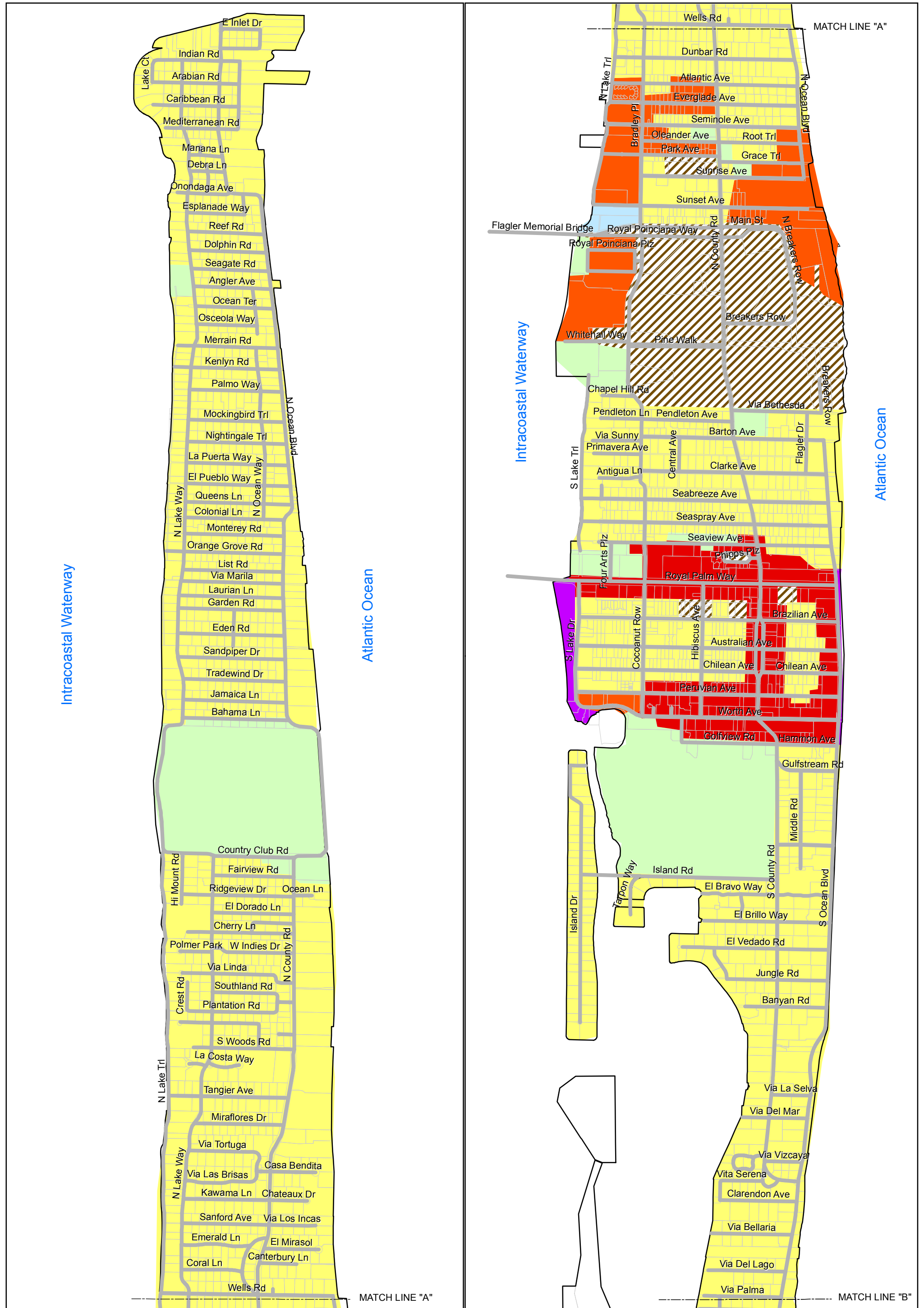
In evaluating applications for marinas or marina siting all of the following shall be addressed: land use compatibility; availability of upland support services; existing protective status or ownership; hurricane contingency planning; protection of water quality; water depth; environmental disruptions and mitigation actions; availability for public use; and, economic need and feasibility. The criteria shall be reviewed by the Planning Department on an annual basis and updated as necessary.

OBJECTIVES AND POLICIES NOT APPLICABLE

No objectives or policies pertaining to the discouragement of the proliferation of urban sprawl are necessary or applicable in the Town of Palm Beach because it is virtually fully developed, and the only areas for potential development are located on "in-fill" parcels.

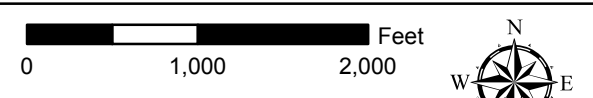
No objectives or policies encouraging the availability of suitable land for utility facilities are necessary or applicable. The City of West Palm Beach provides the potable water supply to the Town from its facility on the mainland. Wastewater treatment is provided by the East Central Regional Sewage Treatment Plant, also located on the mainland. Solid waste disposal sites are all located on the mainland with the North County Regional Resource Recovery plant, also located on the mainland, to come on line in the near future.

No policies are necessary or applicable to the protection of potable water wellfields since there are now no such facilities in the Town, nor are any expected in the future.

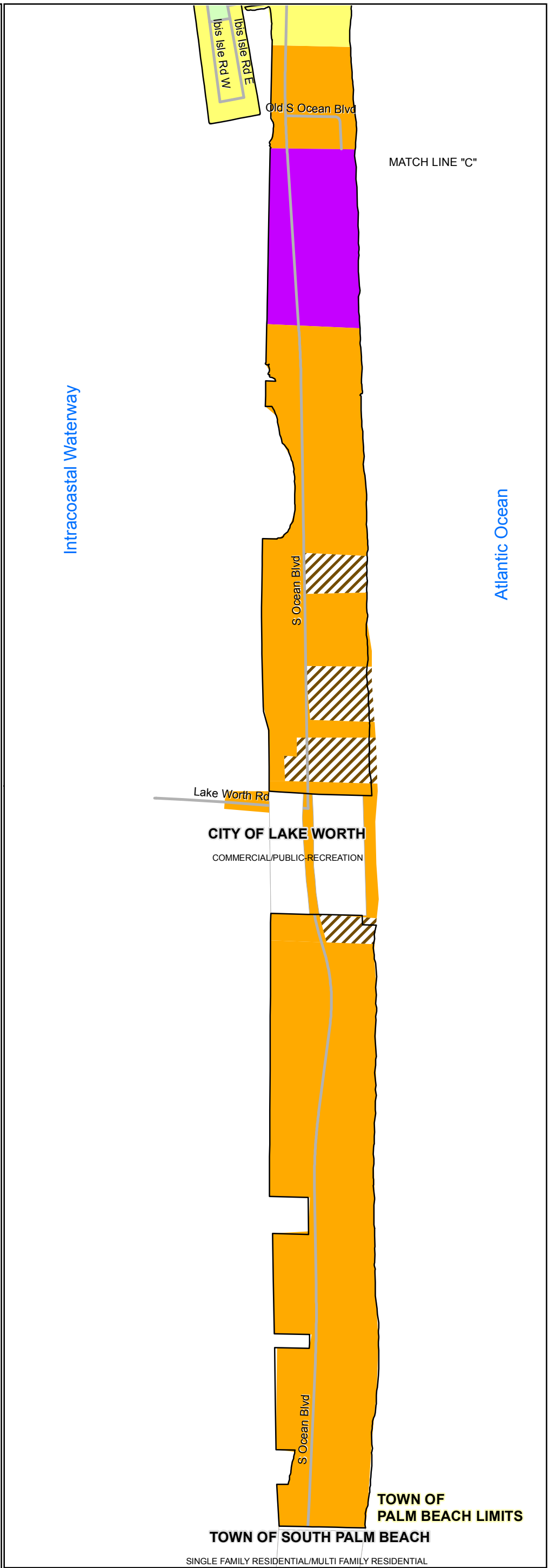
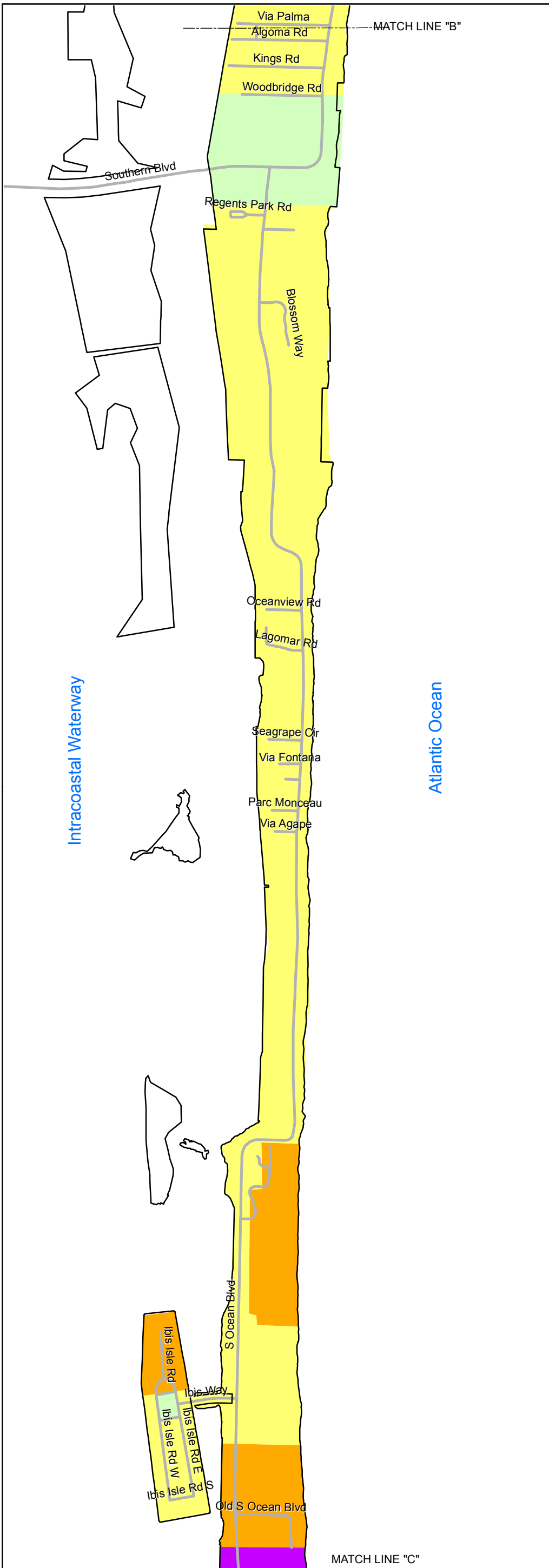


TOWN OF PALM BEACH EXISTING LAND USE MAP - 2017
Planning, Zoning & Building Department

- COMMERCIAL
- MULTI-FAMILY
- SINGLE-FAMILY
- PRIVATE GROUP USE
- PUBLIC
- RECREATION
- SINGLE-FAMILY
- VACANT
- TRANSIENT/RESORT

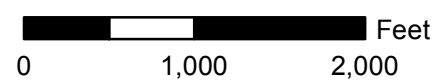


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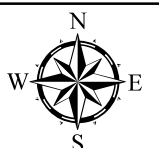


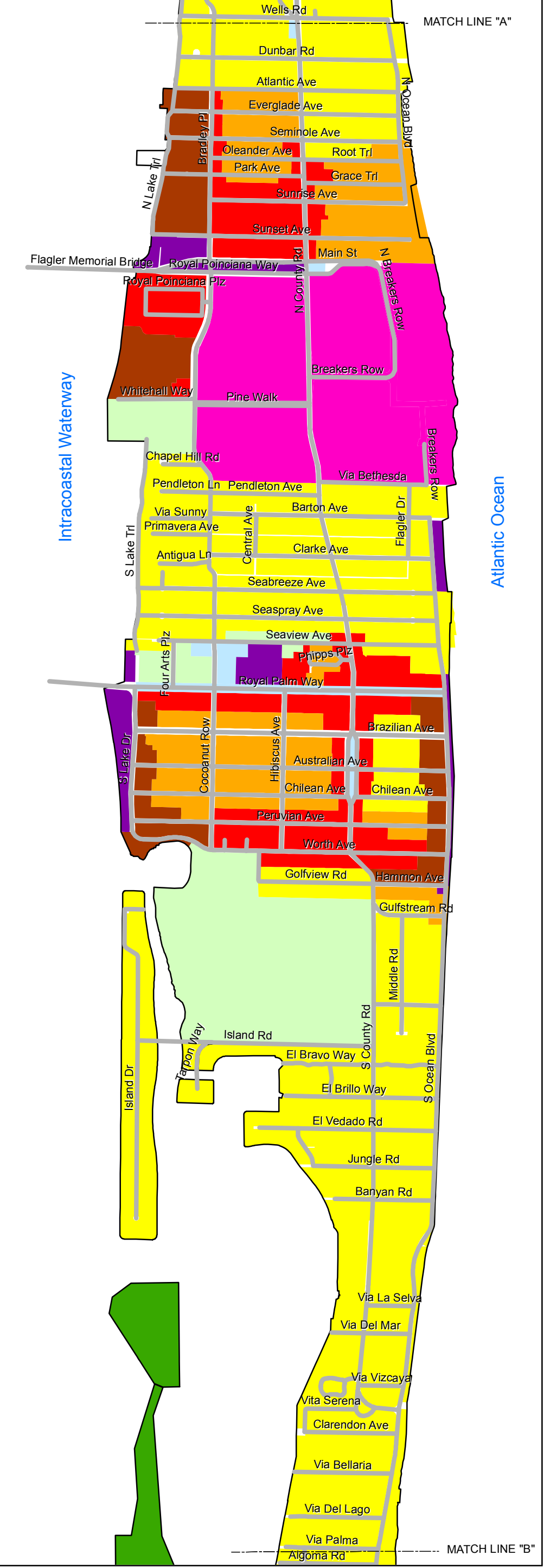
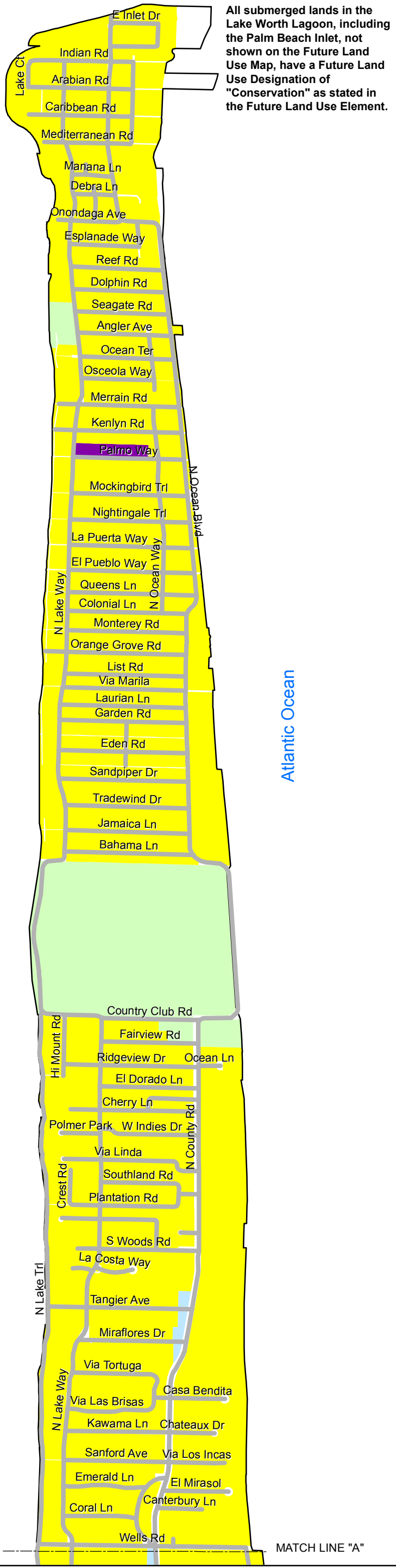
TOWN OF PALM BEACH EXISTING LAND USE MAP - 2017
Planning, Zoning & Building Department

- | | | | |
|--|---|---|---|
| ■ COMMERCIAL | ■ PRIVATE GROUP USE | ■ RECREATION | TRANSIENT/RESORT |
| ■ MULTI-FAMILY | ■ PUBLIC | ■ SINGLE-FAMILY | VACANT |



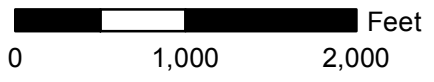
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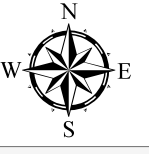


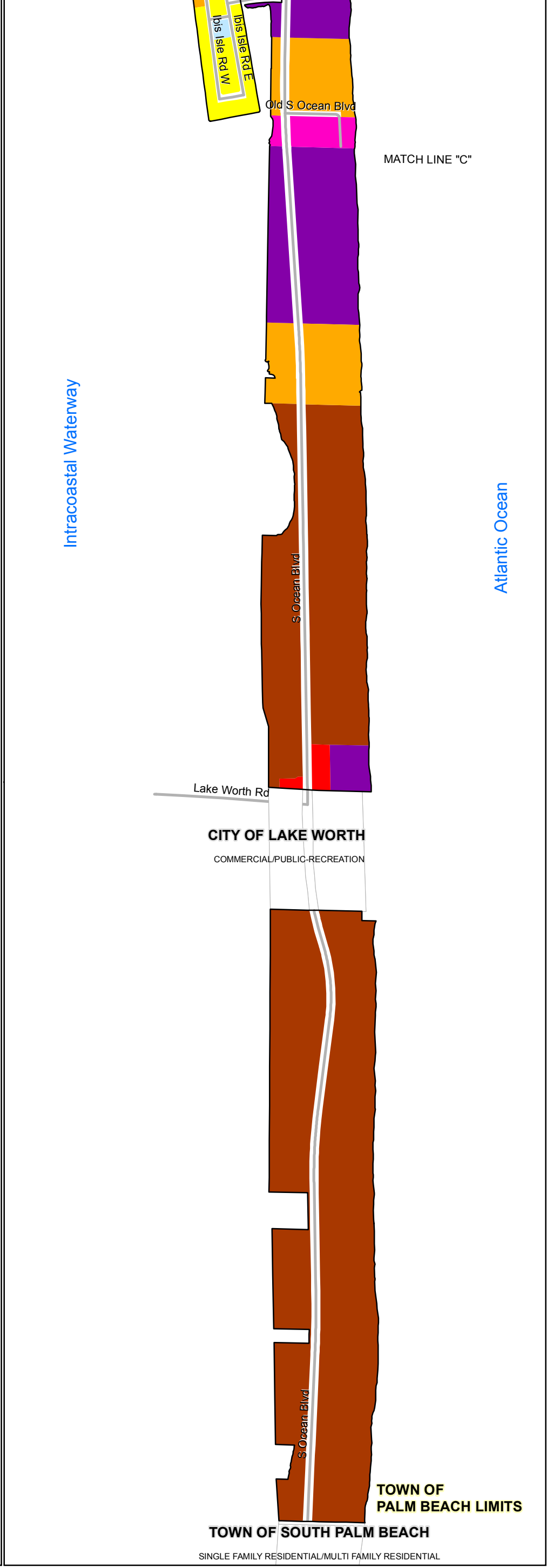
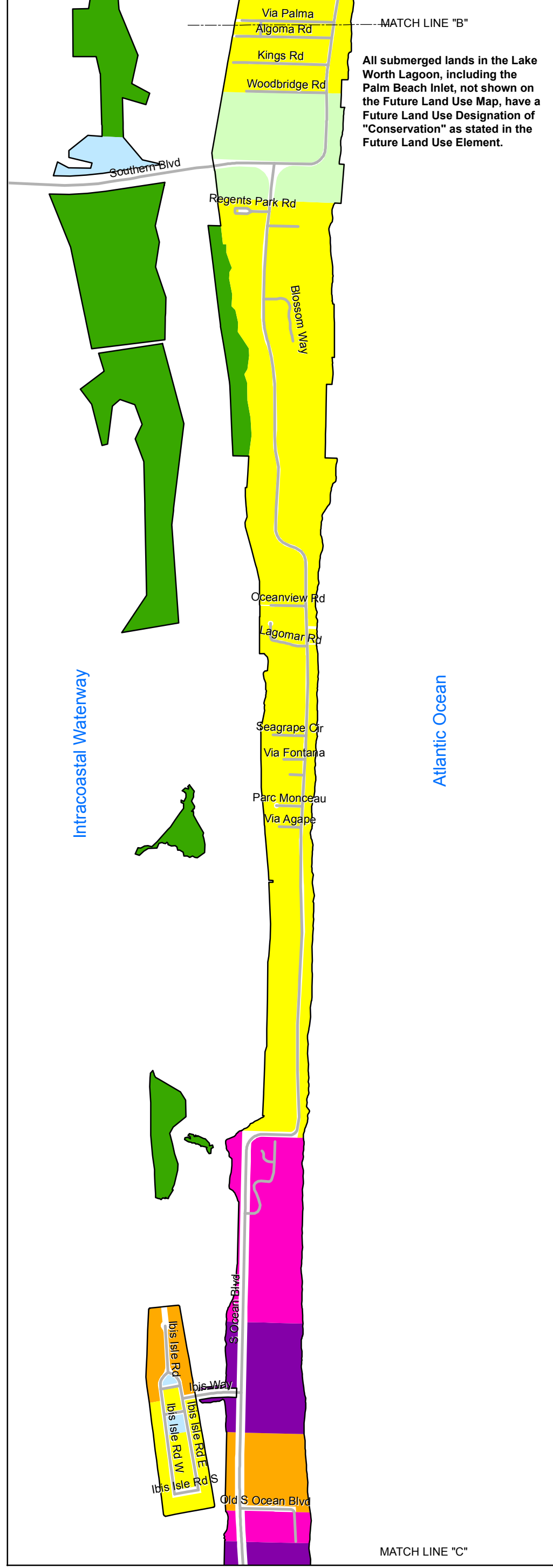
TOWN OF PALM BEACH FUTURE LAND USE MAP - 2027
Planning, Zoning & Building Department

- APPROVED PUD
- MULTI-FAMILY
- COMMERCIAL
- MULTI-FAMILY- HIGH DENSITY
- CONSERVATION
- PRIVATE GROUP USE
- PUBLIC
- RECREATION
- SINGLE-FAMILY



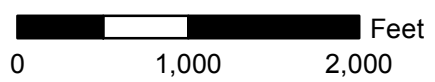
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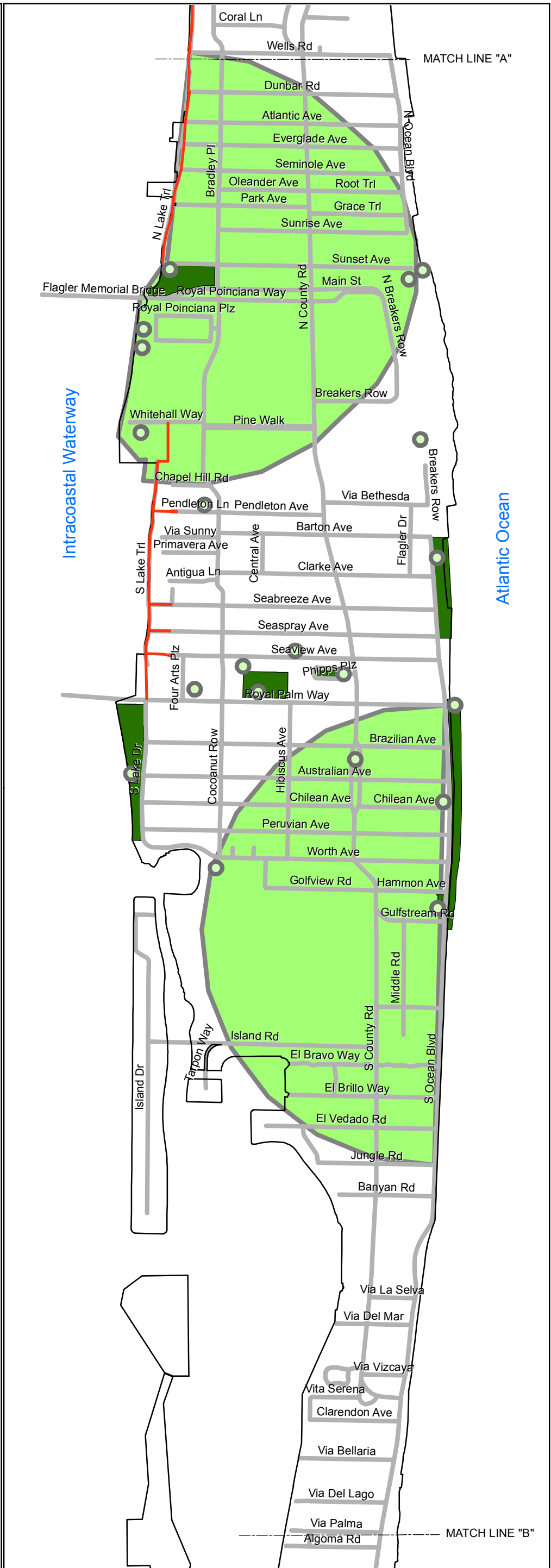
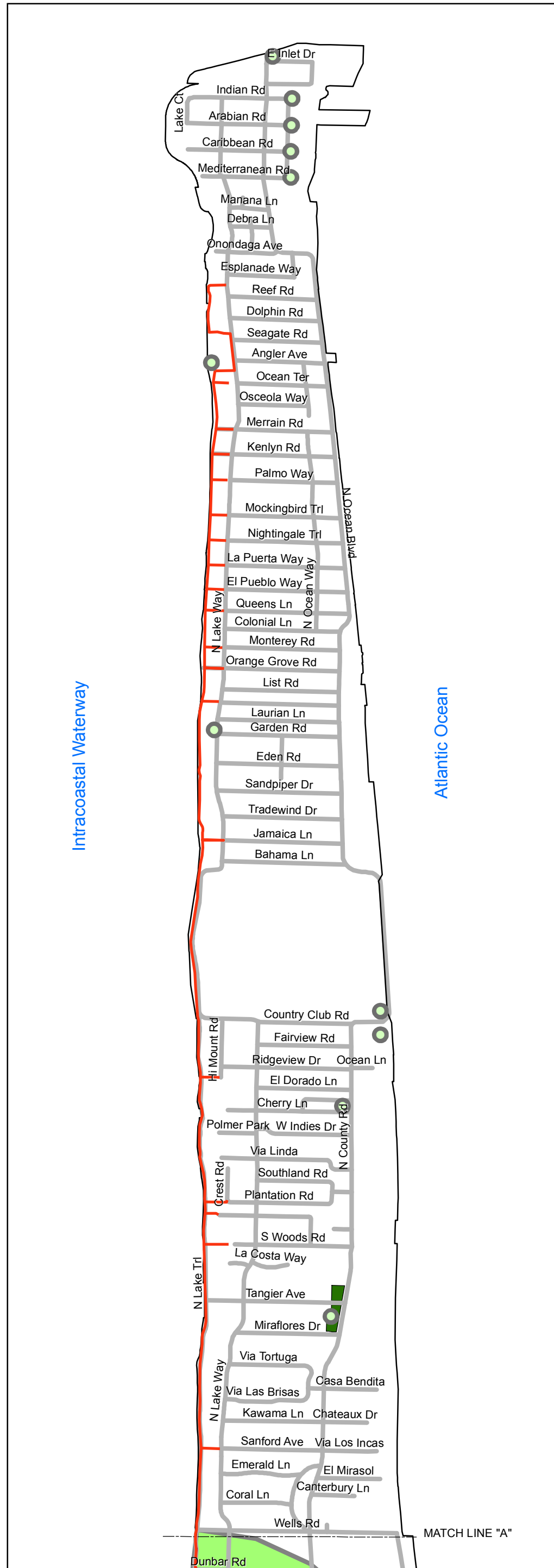
TOWN OF PALM BEACH FUTURE LAND USE MAP - 2027
Planning, Zoning & Building Department

- | | | |
|---|---|---|
| ■ APPROVED PUD | ■ MULTI-FAMILY | ■ PUBLIC |
| ■ COMMERCIAL | ■ MULTI-FAMILY- HIGH DENSITY | ■ RECREATION |
| ■ CONSERVATION | ■ PRIVATE GROUP USE | ■ SINGLE-FAMILY |



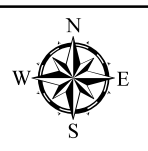
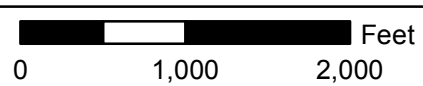
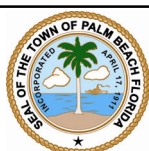
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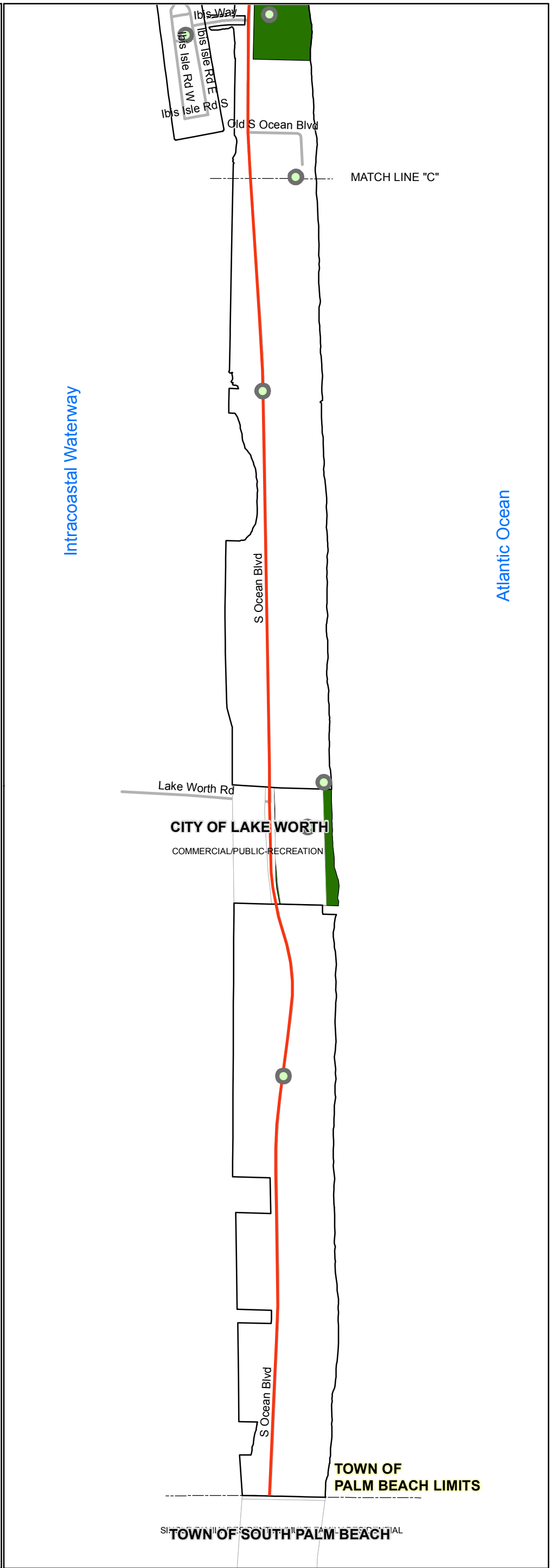
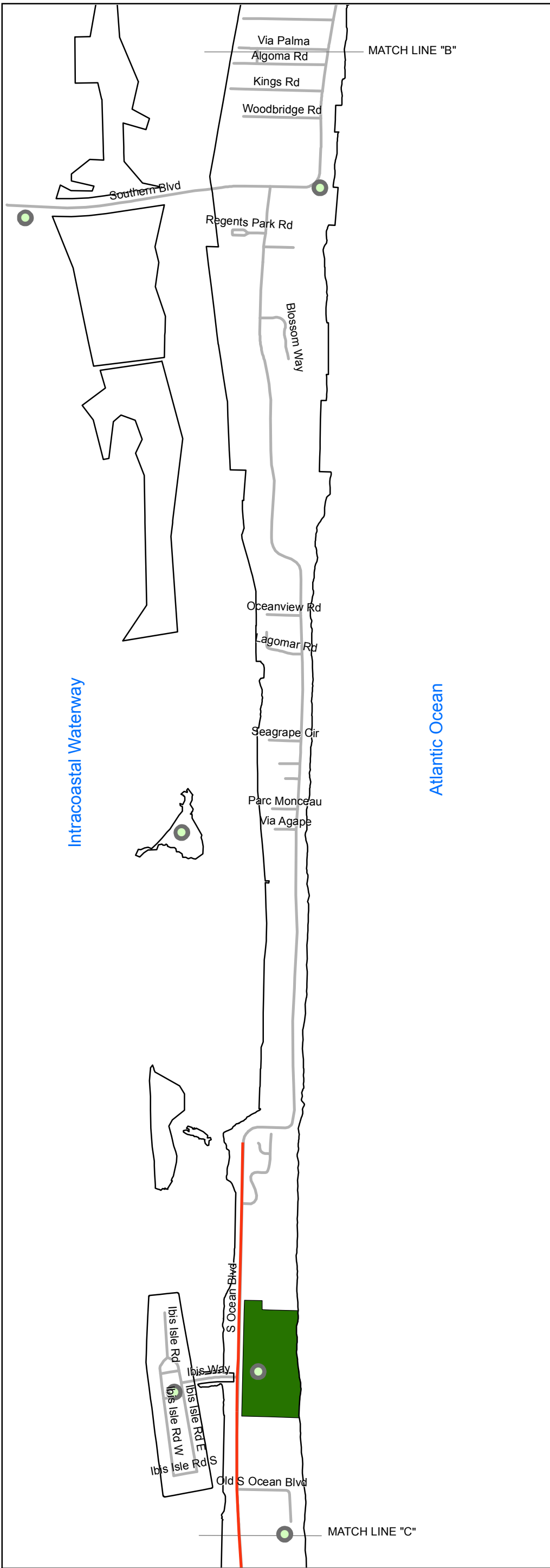
TOWN OF PALM BEACH PARKS & RECREATIONAL FACILITIES - 2017
Planning, Zoning & Building Department

- TOPB PATHWAY
- RECREATIONAL FACILITIES
- MUNICIPAL PARKS
- RECREATION NEIGHBORHOOD PARK SERVICE AREA








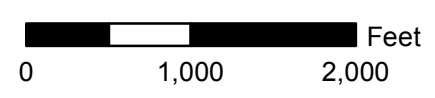
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MAP I - 2

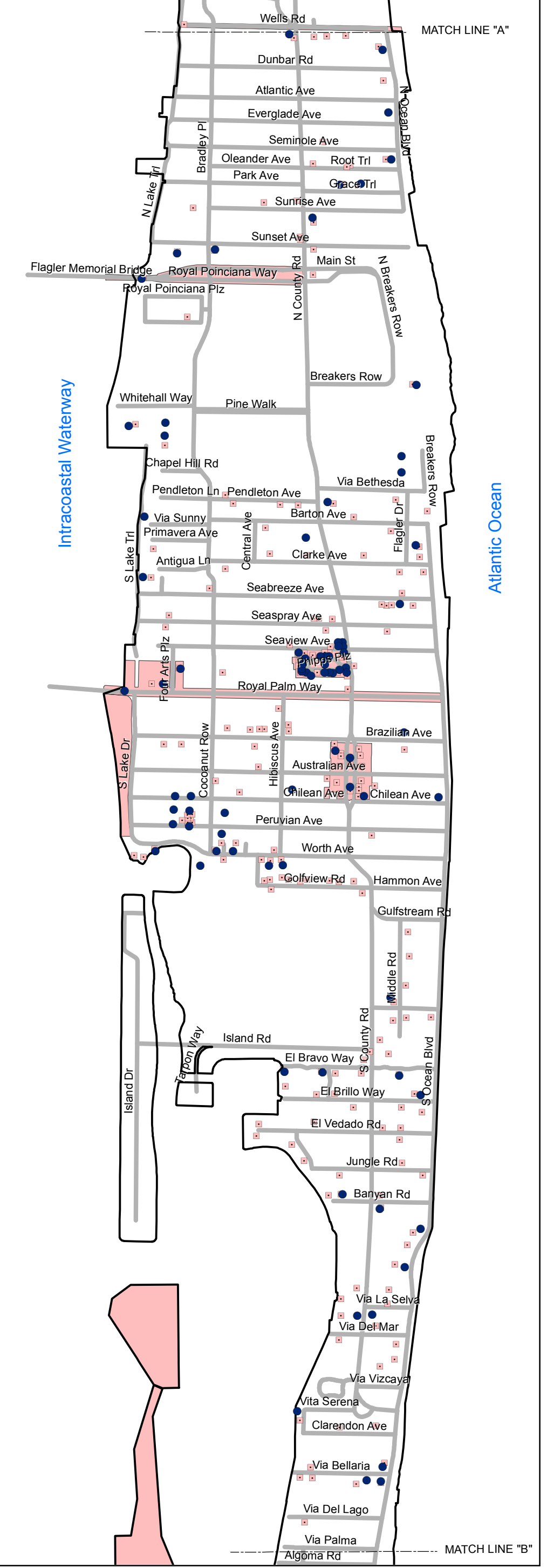
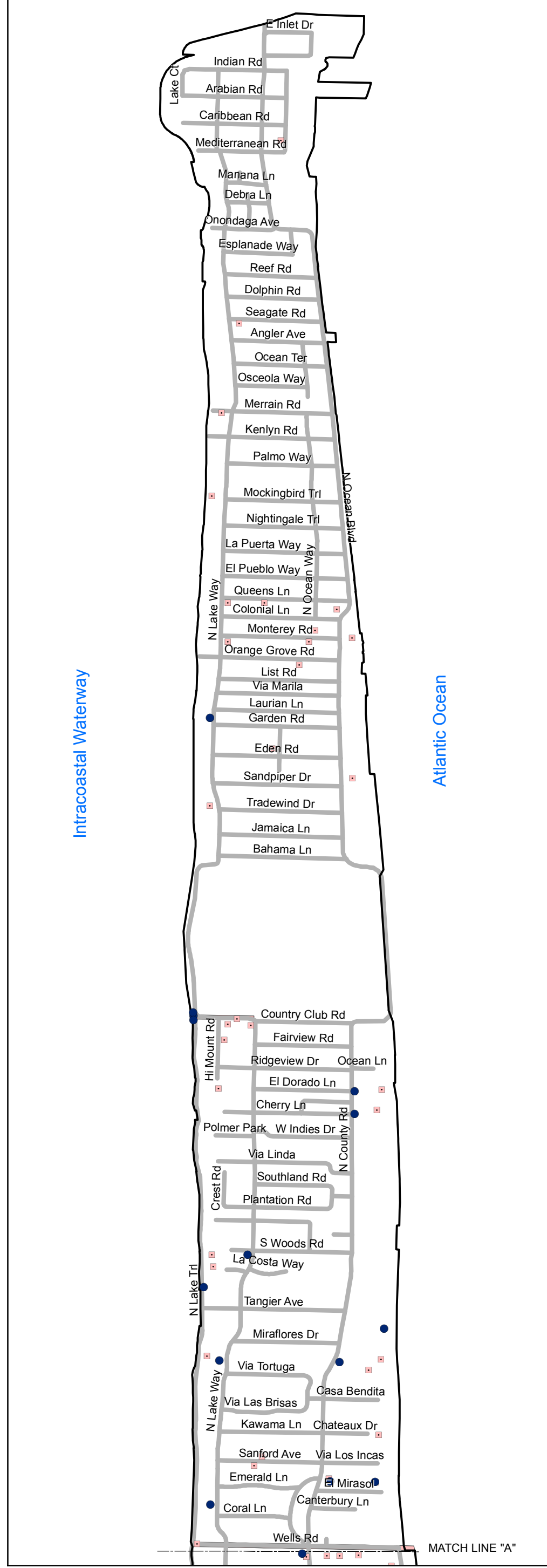


TOWN OF PALM BEACH PARKS & RECREATIONAL FACILITIES - 2017
Planning, Zoning & Building Department

-  RECREATIONAL FACILITIES
-  TOPB PATHWAY
-  Municipal
-  MUNICIPAL PARKS
-  RECREATION NEIGHBORHOOD PARK SERVICE AREA

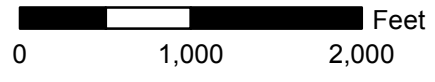


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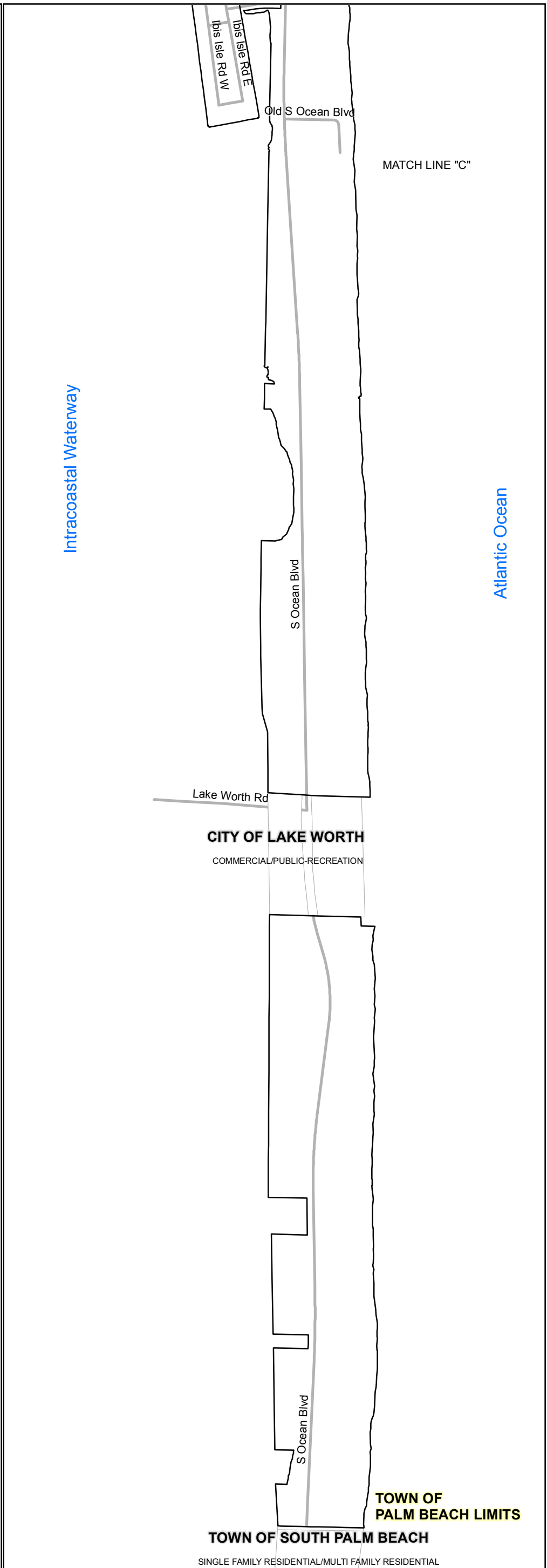
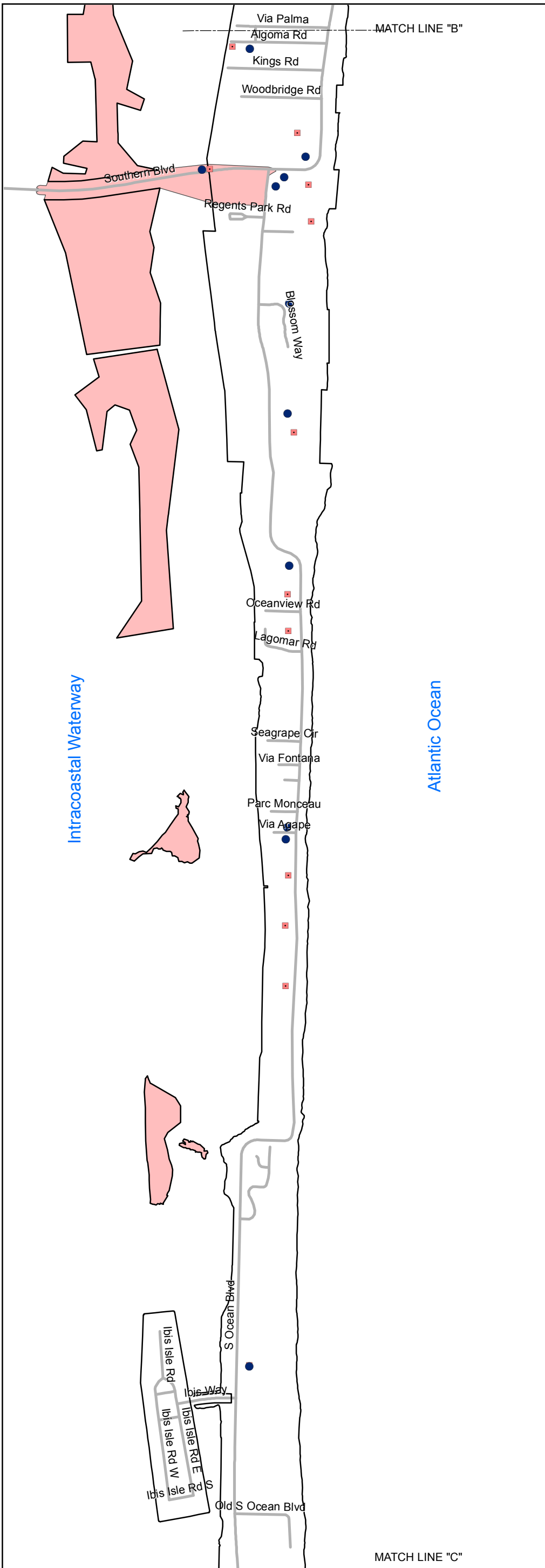
TOWN OF PALM BEACH HISTORIC SITES MAP - 2017
Planning, Zoning & Building Department

- OTHER HISTORIC
- LANDMARKS
- HISTORIC DISTRICTS



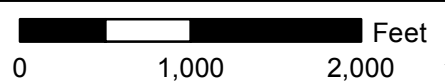
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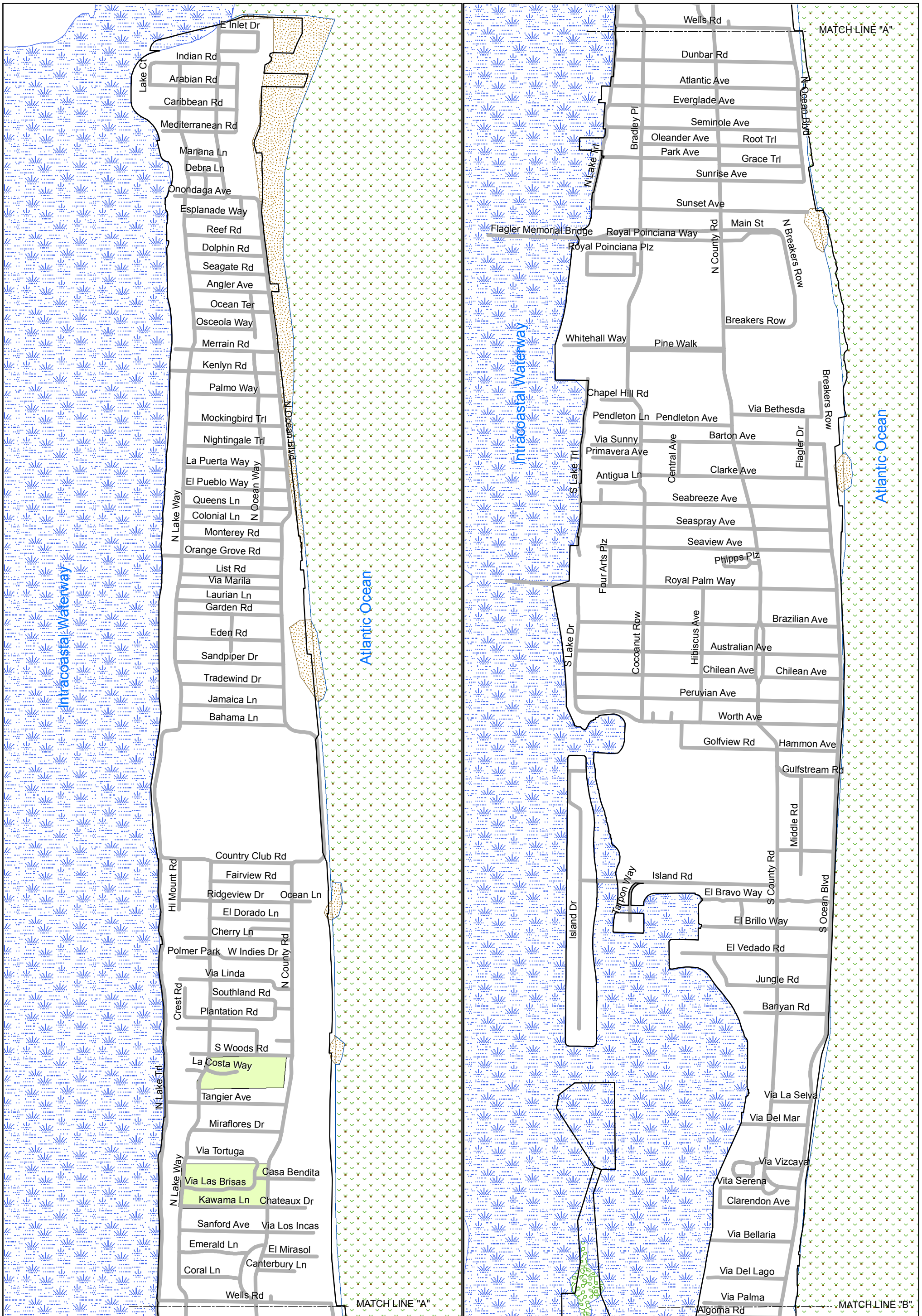
TOWN OF PALM BEACH HISTORIC SITES MAP - 2017
Planning, Zoning & Building Department

- OTHER HISTORIC
- LANDMARKS
- HISTORIC DISTRICTS








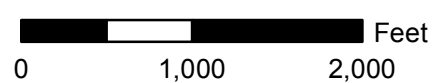
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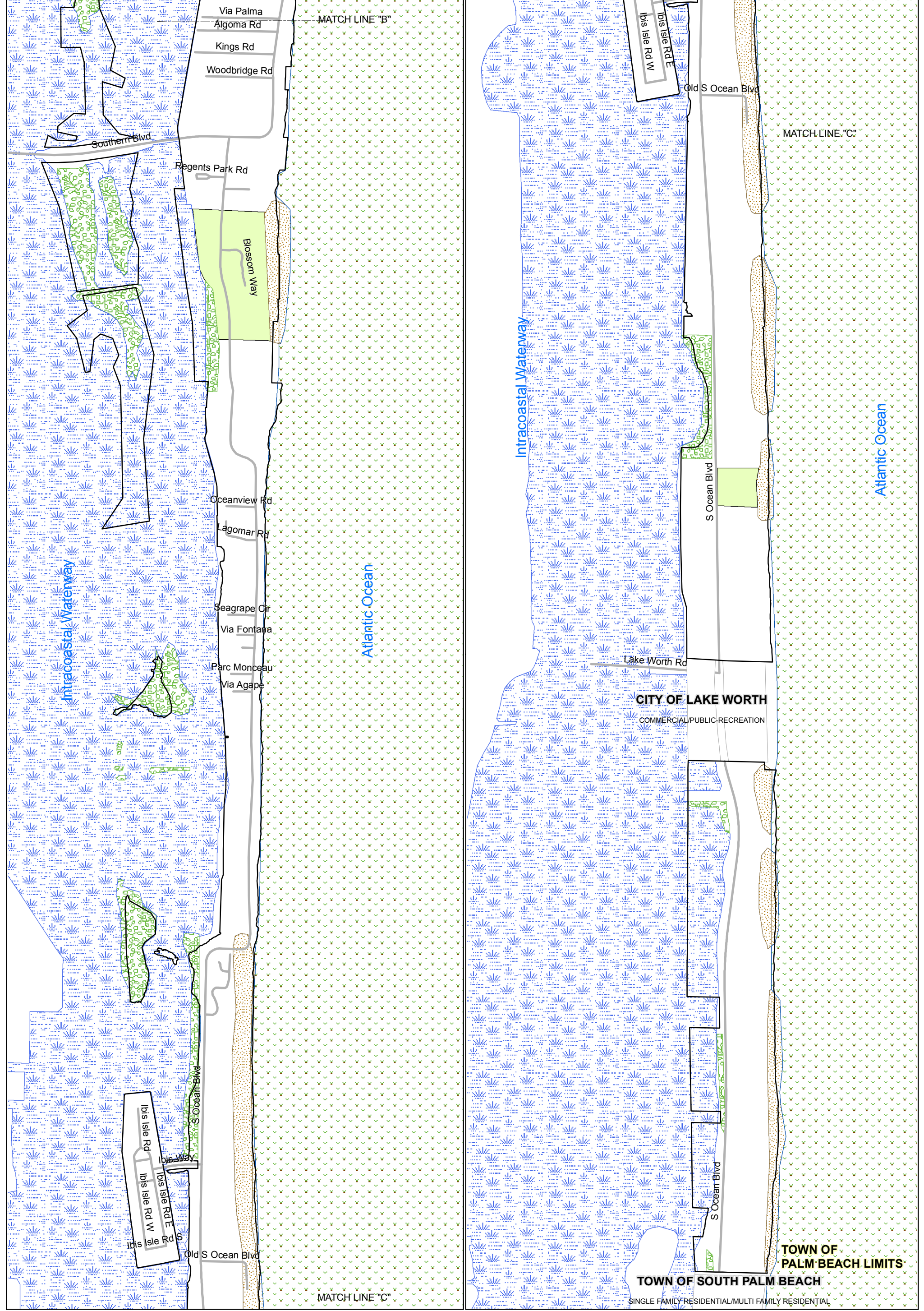


TOWN OF PALM BEACH BEACHES, SHORES, AND WILDLIFE MAP - 2017
Planning, Zoning & Building Department

-  Atlantic Marine Wildlife
-  Lagoonal Waters Edge/Mangrove Isles
-  Beach and Dune
-  Upland/Urban Barrier Island Interior
-  Lagoon

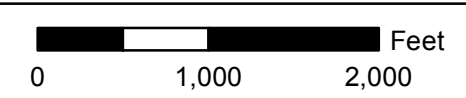


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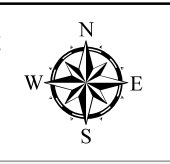


TOWN OF PALM BEACH BEACHES, SHORES, AND WILDLIFE MAP - 2017
Planning, Zoning & Building Department

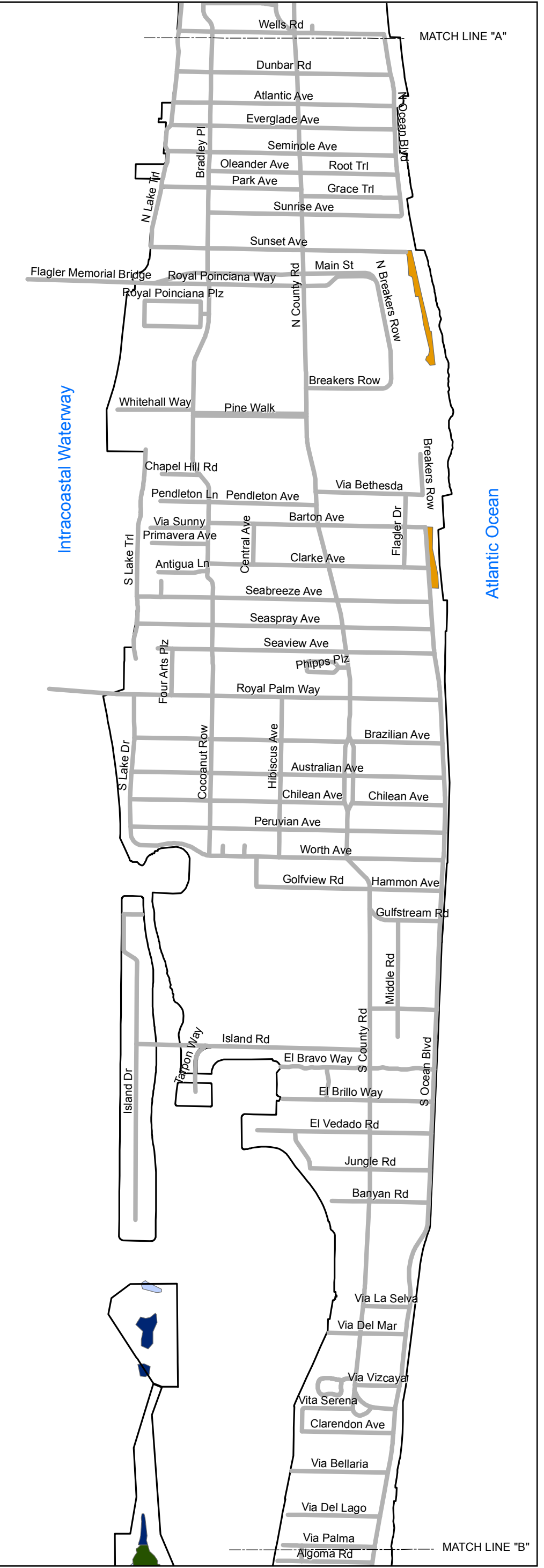
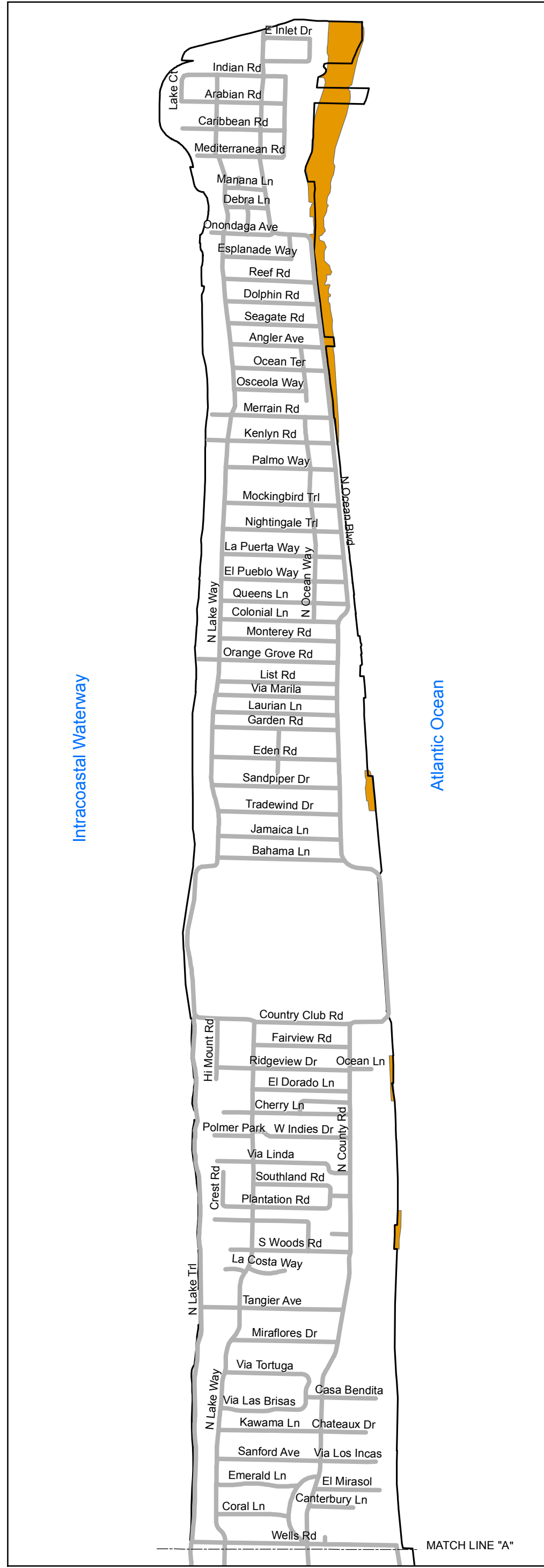
-  Atlantic Marine Wildlife
-  Lagoonal Waters Edge/Mangrove Isles
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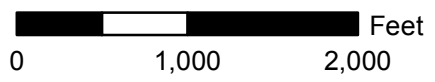


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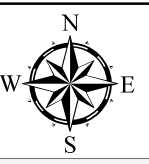


TOWN OF PALM BEACH ESTUARINE AREAS, WETLANDS AND VEGETATIVE COVER MAP - 2017
Planning, Zoning & Building Department

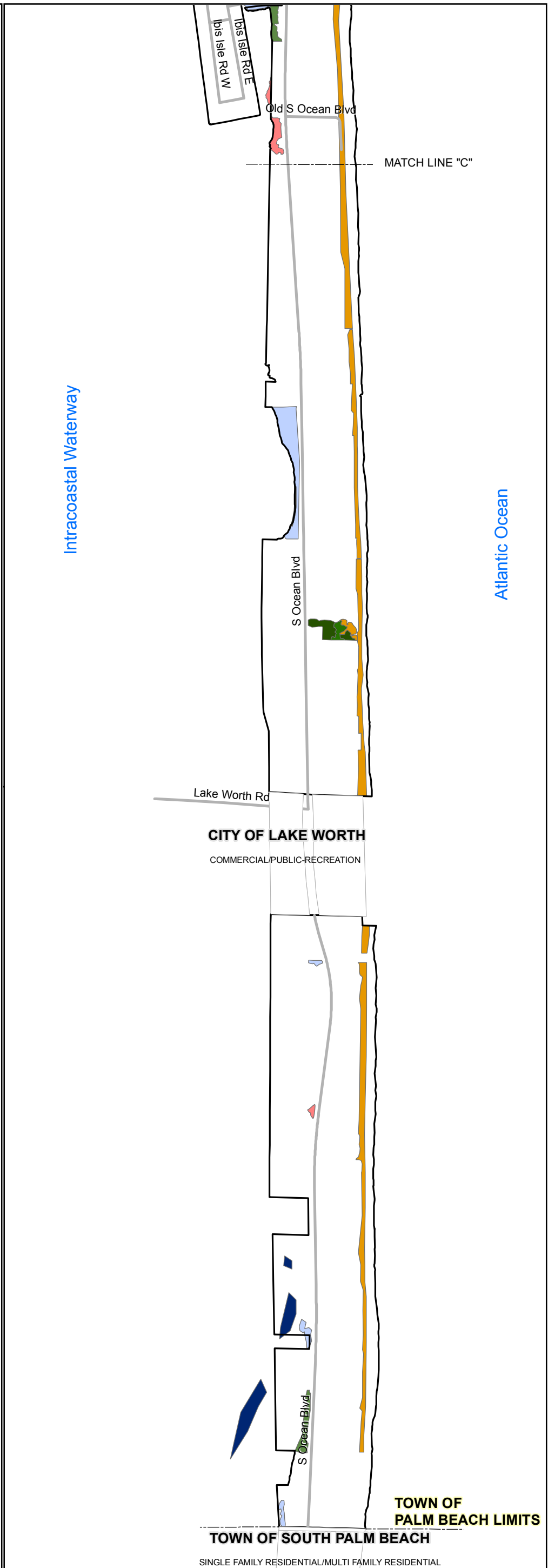
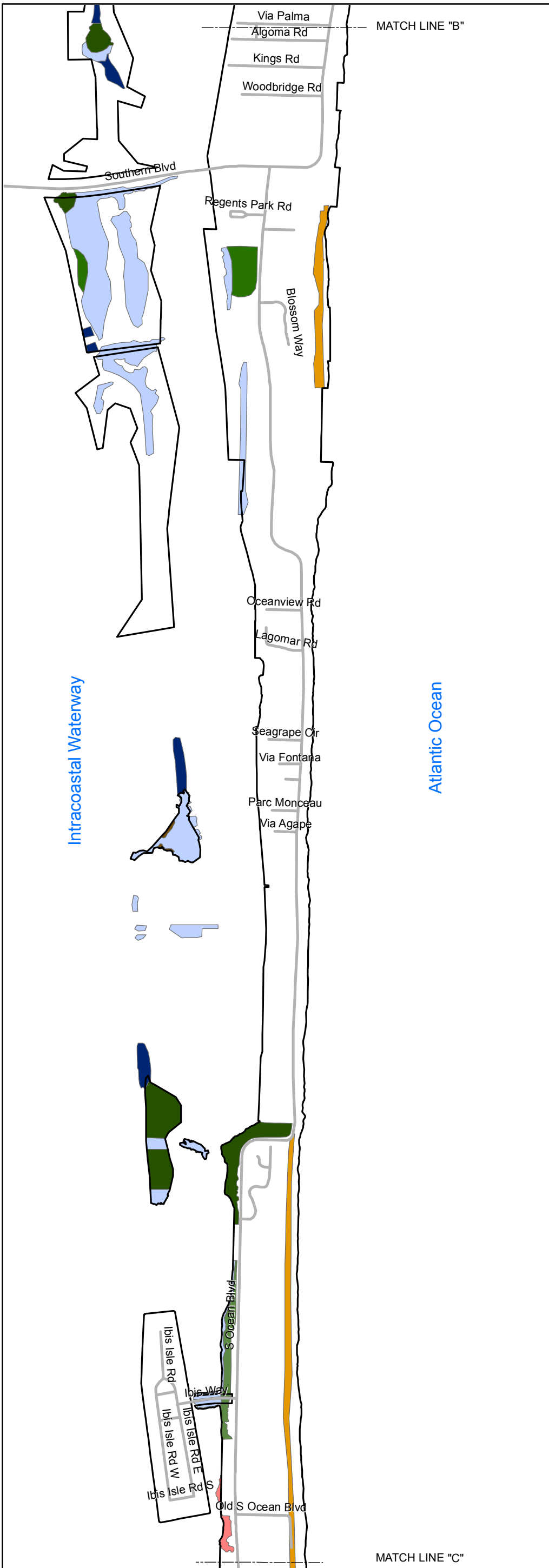
- | | | |
|------------------|-----------------|-----------------|
| Australian Pine | Estuarine Beach | Pine and Pepper |
| Brazilian Pepper | Mangrove | Tidal Flat |
| Coastal Scrub | Mixed Hardwood | |



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MAP I - 5



TOWN OF PALM BEACH ESTUARINE AREAS, WETLANDS AND VEGETATIVE COVER MAP - 2017
Planning, Zoning & Building Department

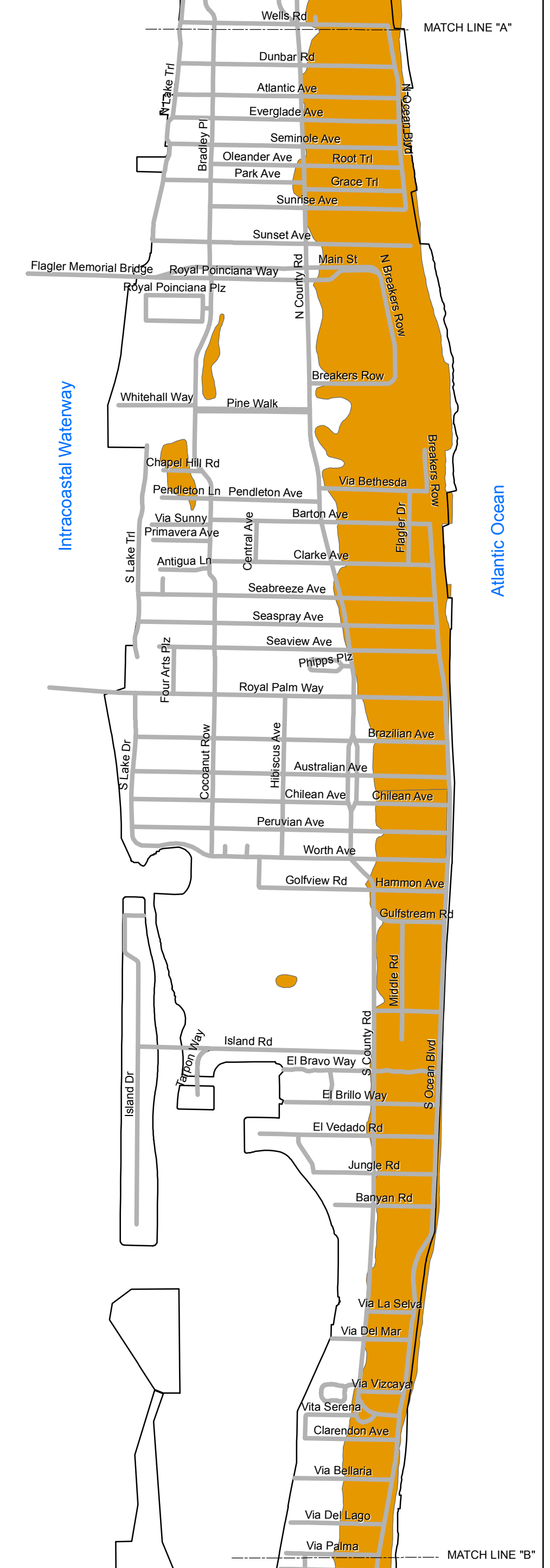
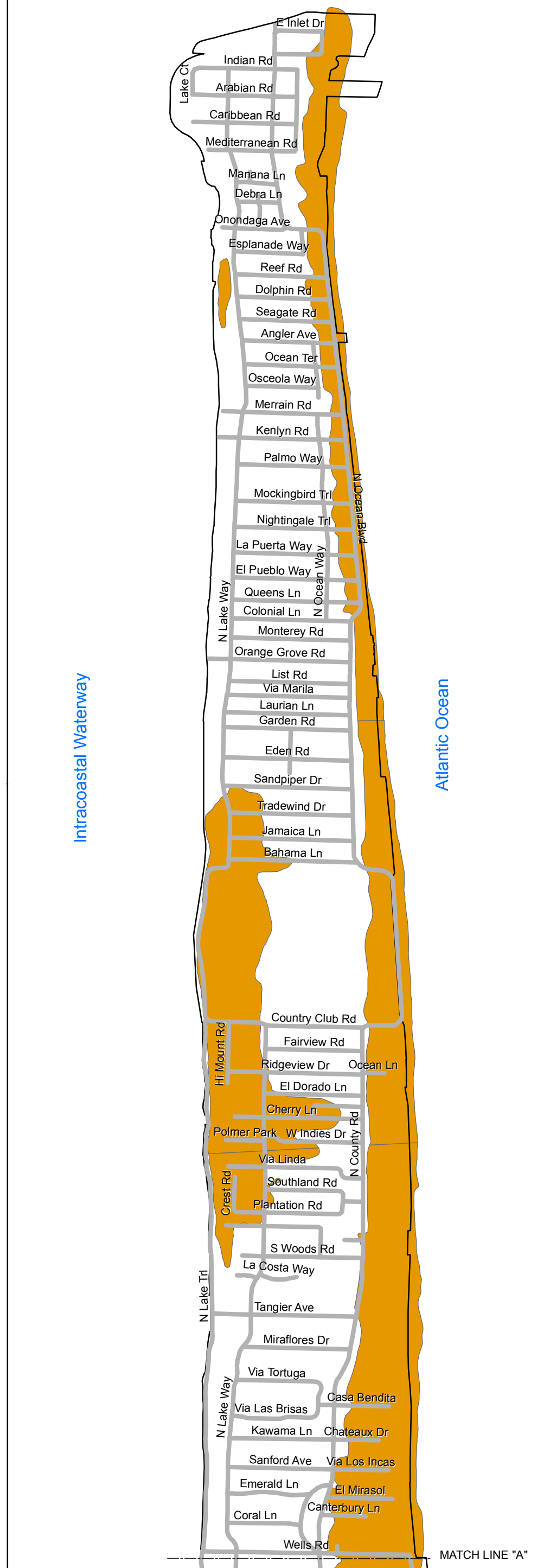
- | | | |
|------------------|-----------------|-----------------|
| Australian Pine | Estuarine Beach | Pine and Pepper |
| Brazilian Pepper | Mangrove | Tidal Flat |
| Coastal Scrub | Mixed Hardwood | |



0 1,000 2,000 Feet

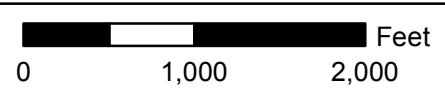
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MAP I - 5



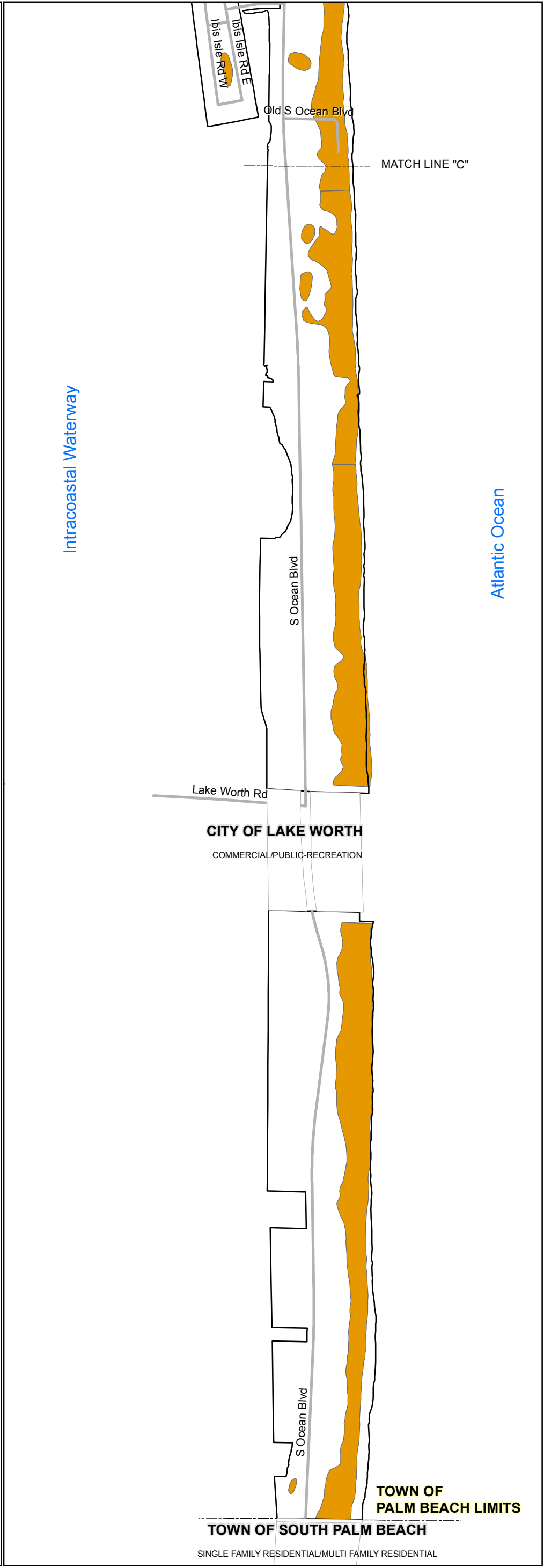
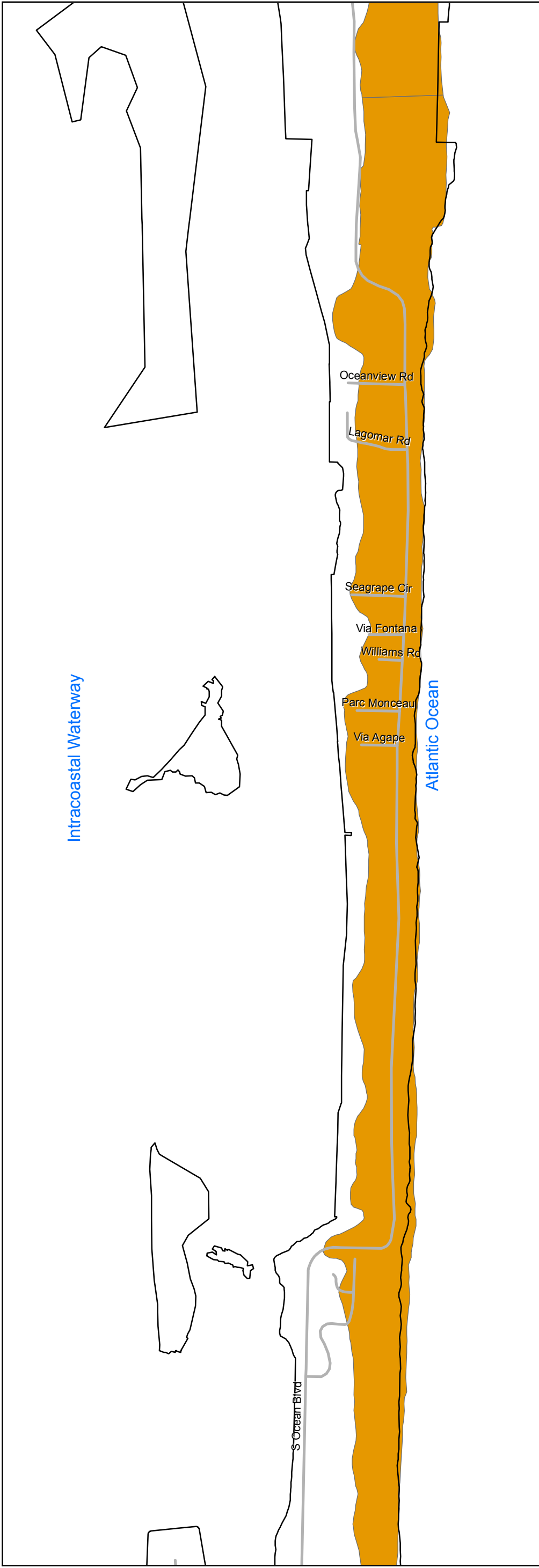
TOWN OF PALM BEACH 100-YEAR FLOODPLAIN MAP - 2017
Planning, Zoning & Building Department

100-YEAR FLOODPLAIN




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MAP I - 6

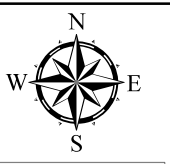


TOWN OF PALM BEACH 100-YEAR FLOODPLAIN MAP - 2017
Planning, Zoning & Building Department

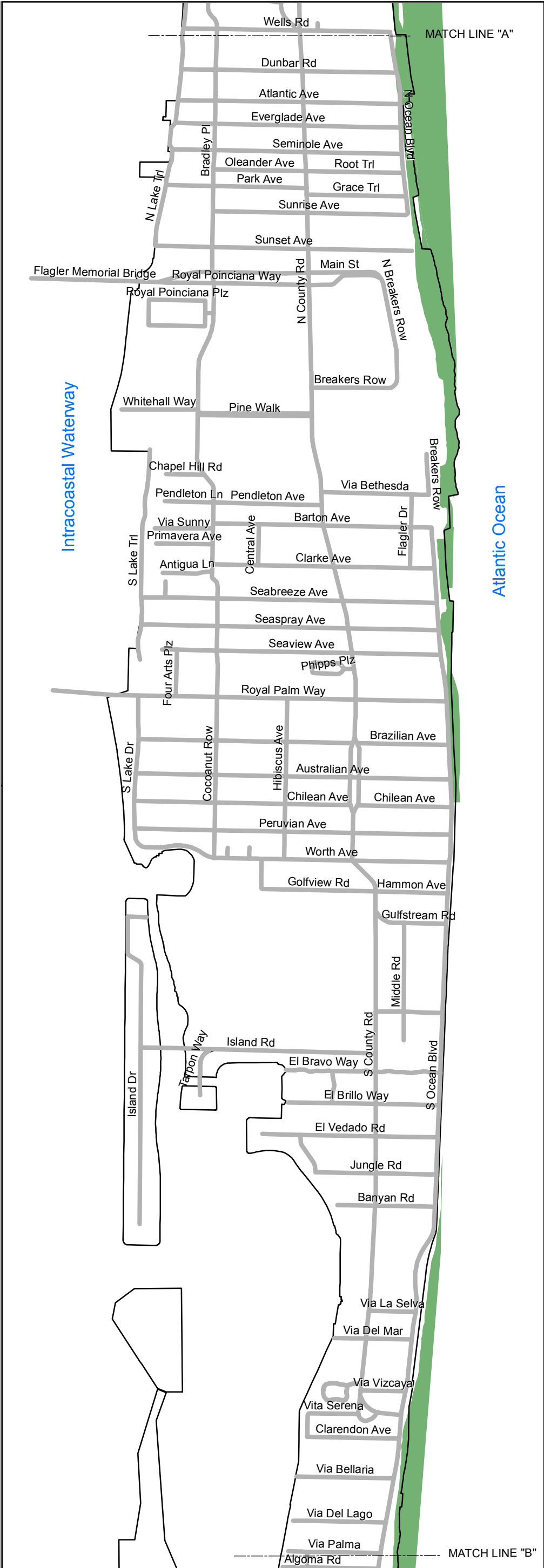
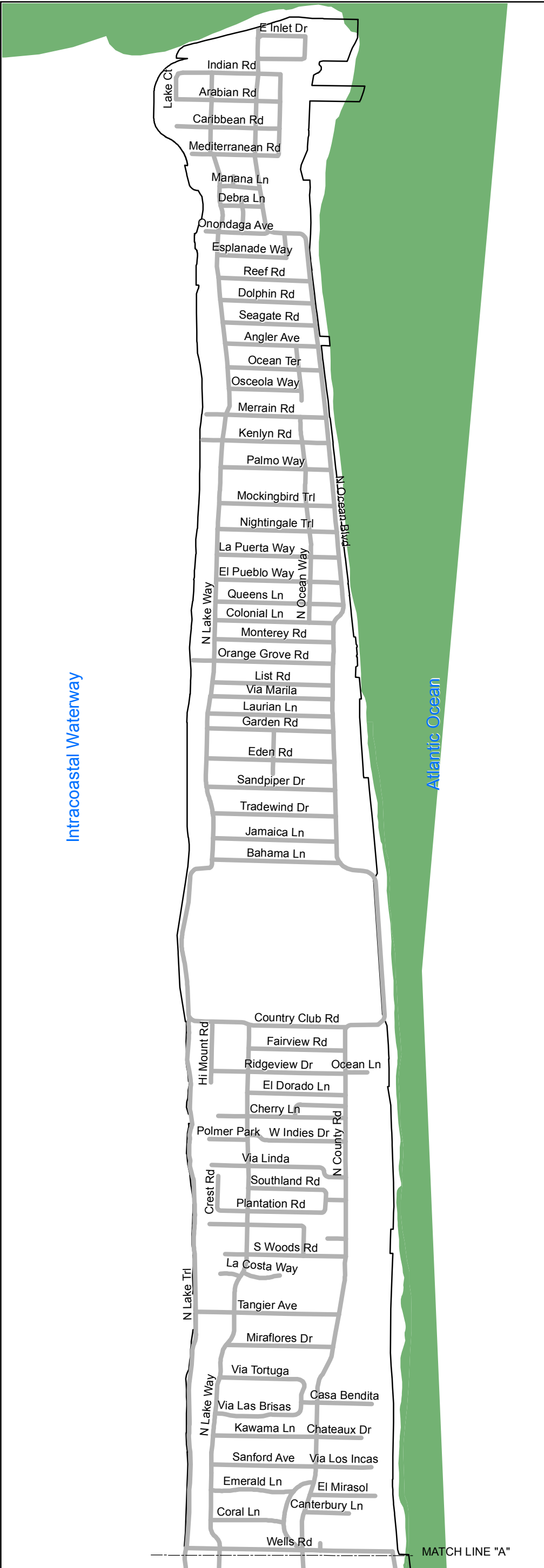
 100-YEAR FLOODPLAIN



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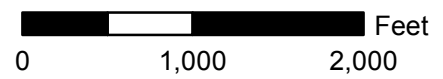


MAP I - 6



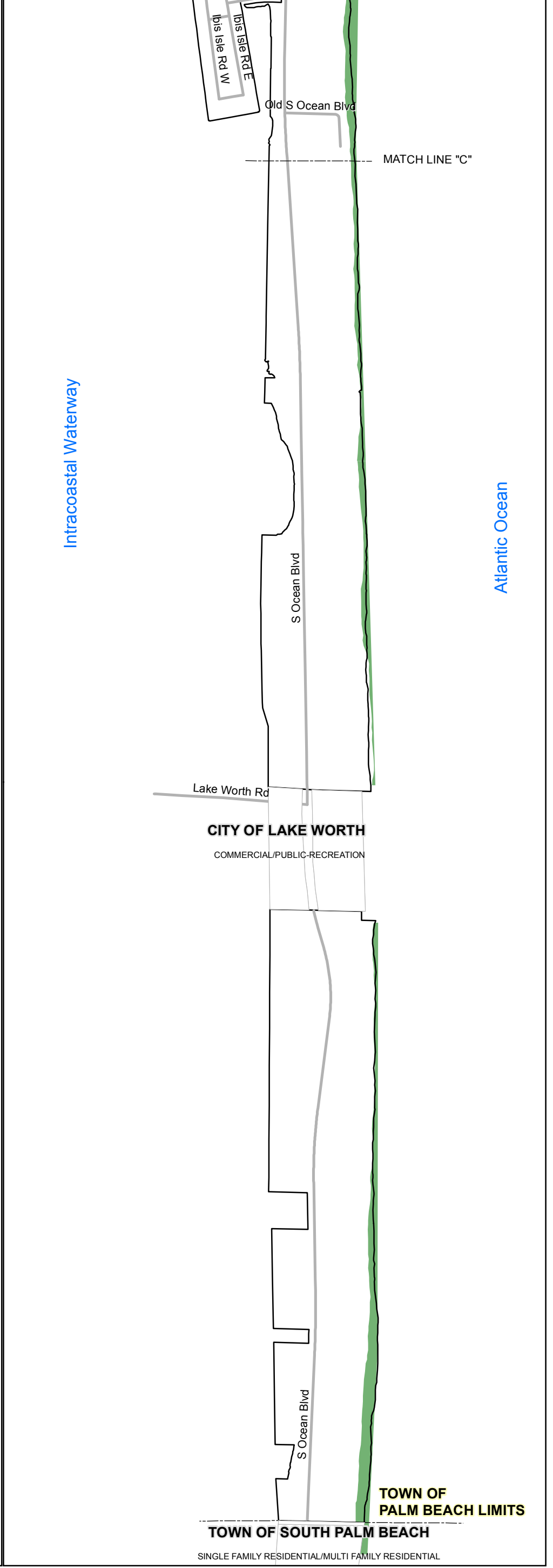
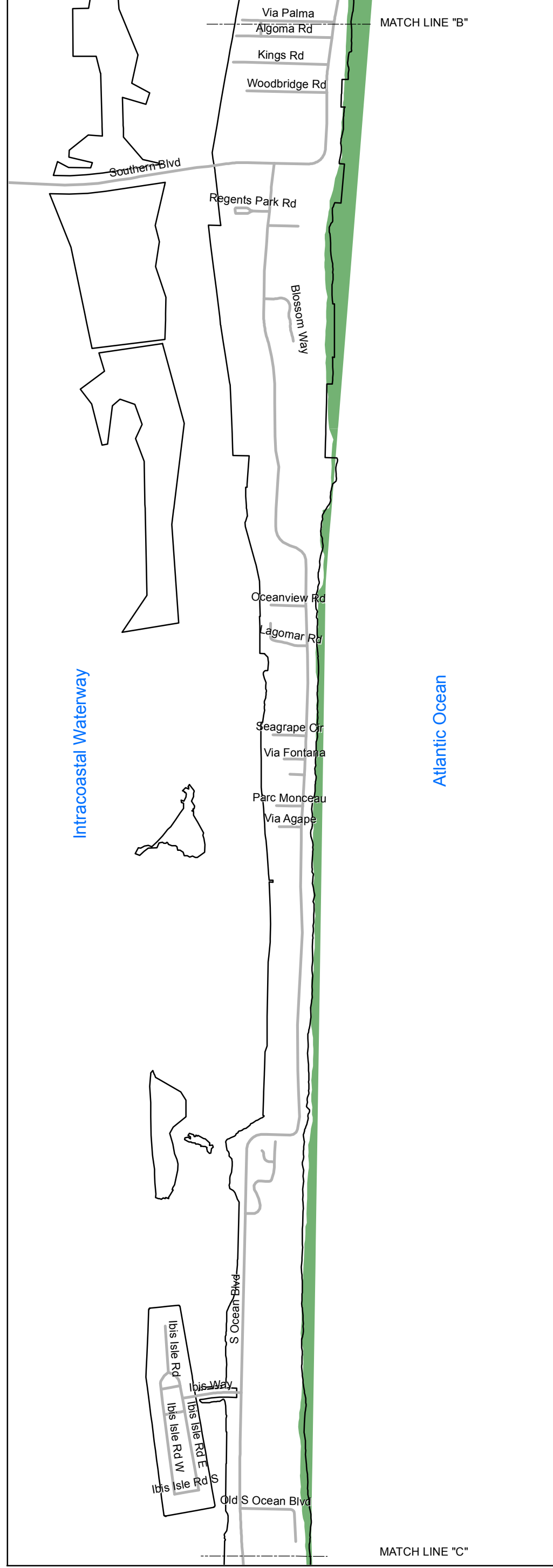
TOWN OF PALM BEACH COASTAL HIGH HAZARD AREA MAP 2017 - 2027
Planning, Zoning & Building Department

■ Coastal High Hazard Area CHHA




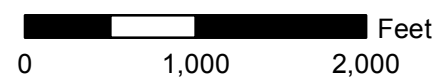
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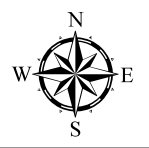


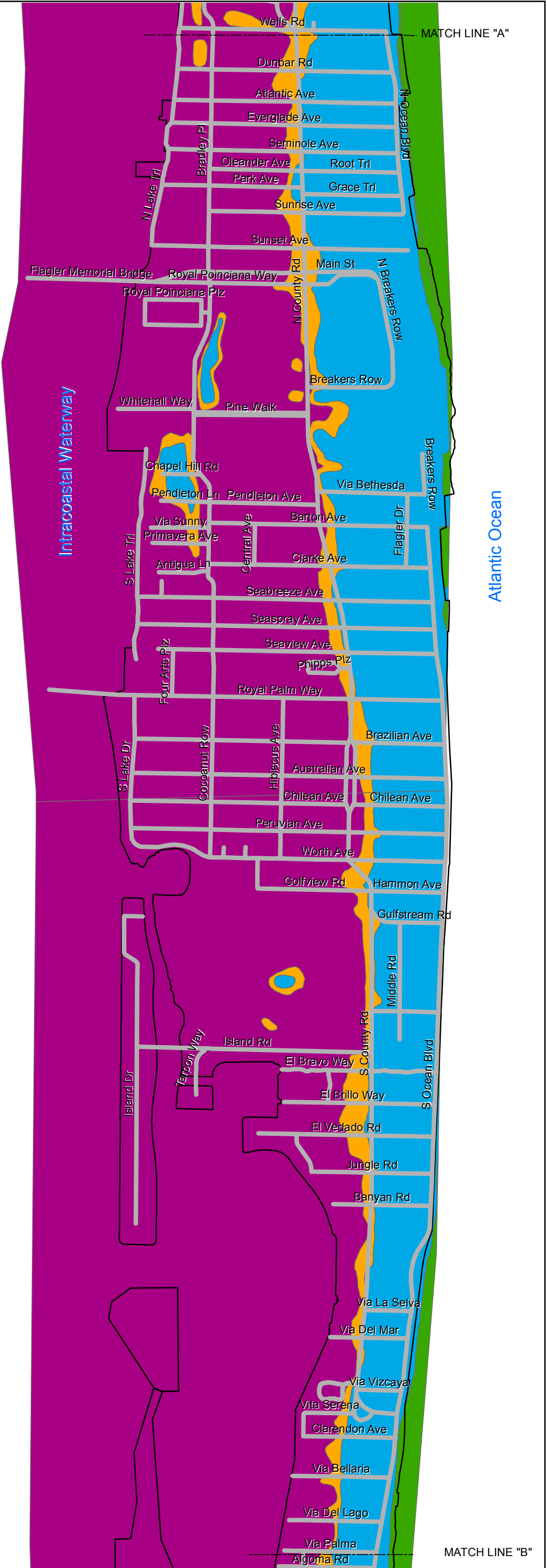
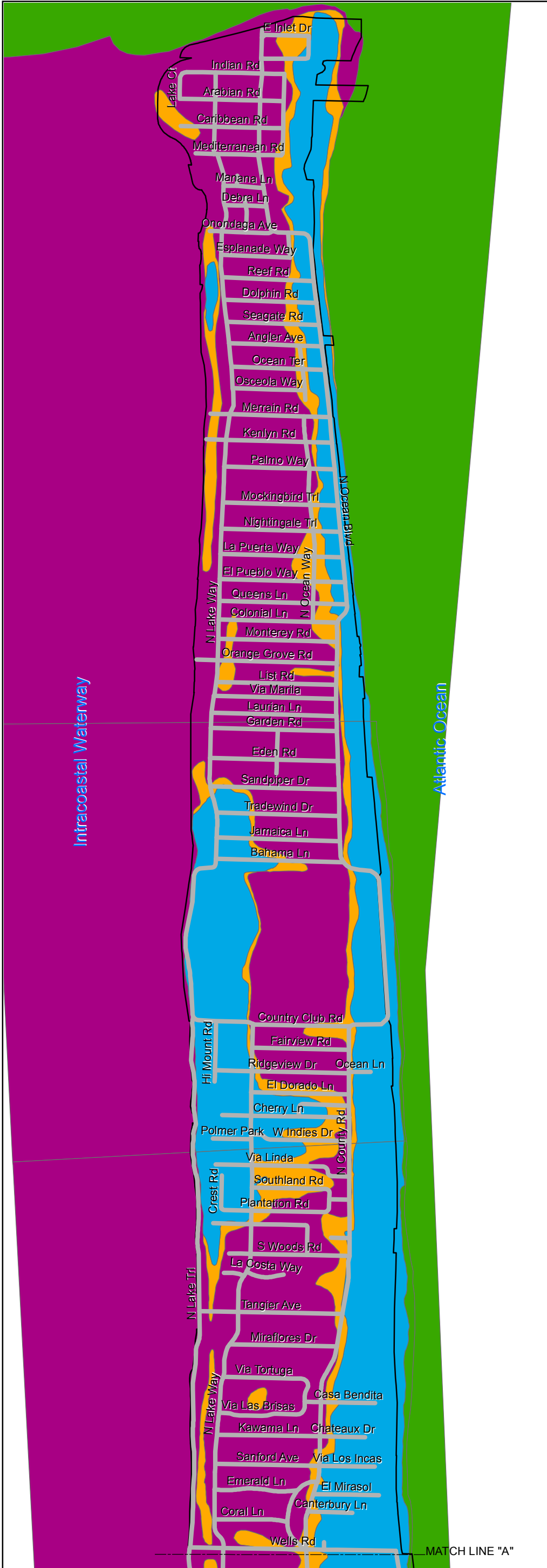
TOWN OF PALM BEACH COASTAL HIGH HAZARD AREA MAP 2017 - 2027
Planning, Zoning & Building Department

 Coastal High Hazard Area CHHA



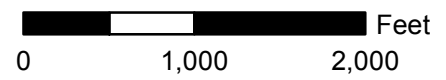
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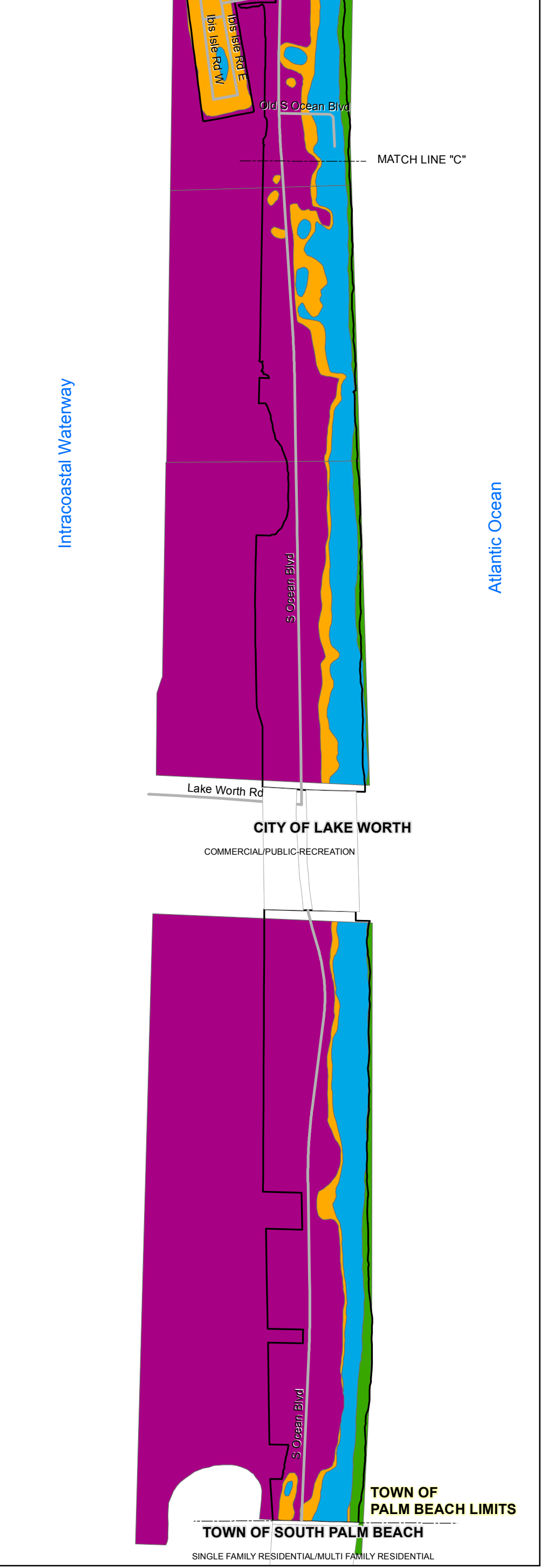
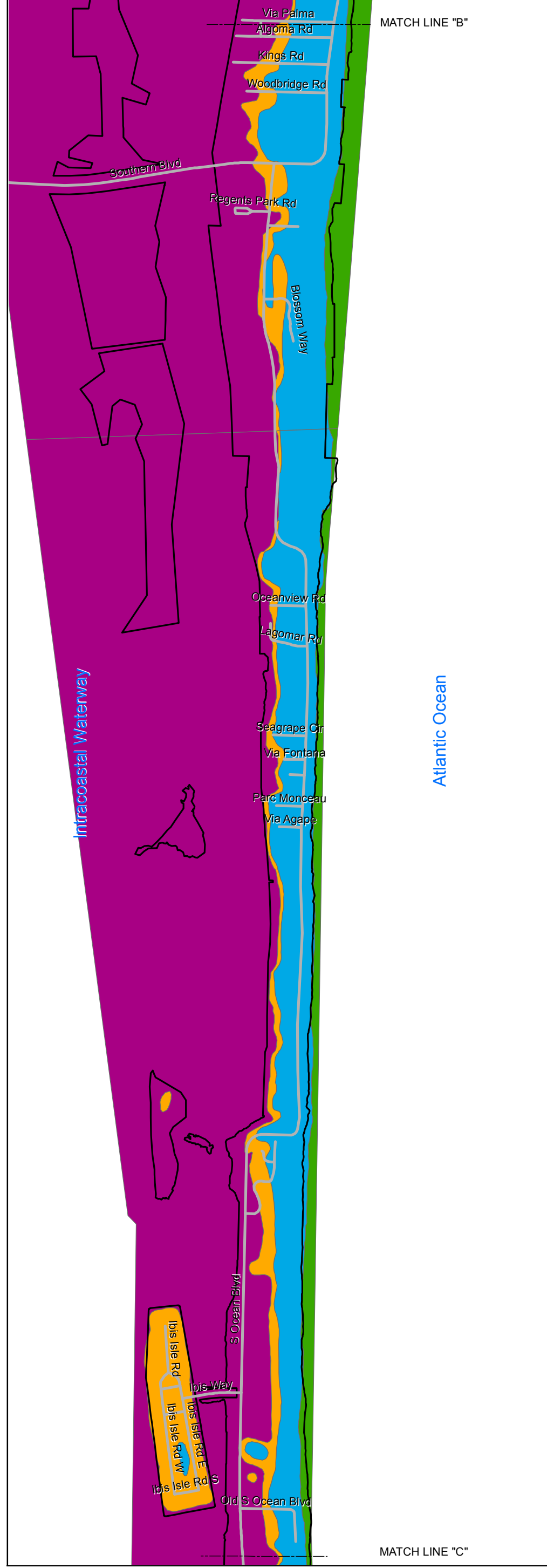
TOWN OF PALM BEACH FLOOD ZONE MAP - 2017
Planning, Zoning & Building Department

- ZONE A = Special Flood Hazard Area Subject to 100-Year Flooding
- ZONE B = No Base Flood Elevation Required
- ZONE C = No Base Flood Elevation Required
- ZONE V = Special Flood Hazard Area Subject to Wave Action



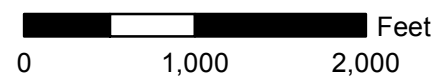
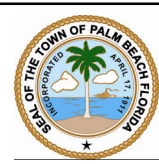
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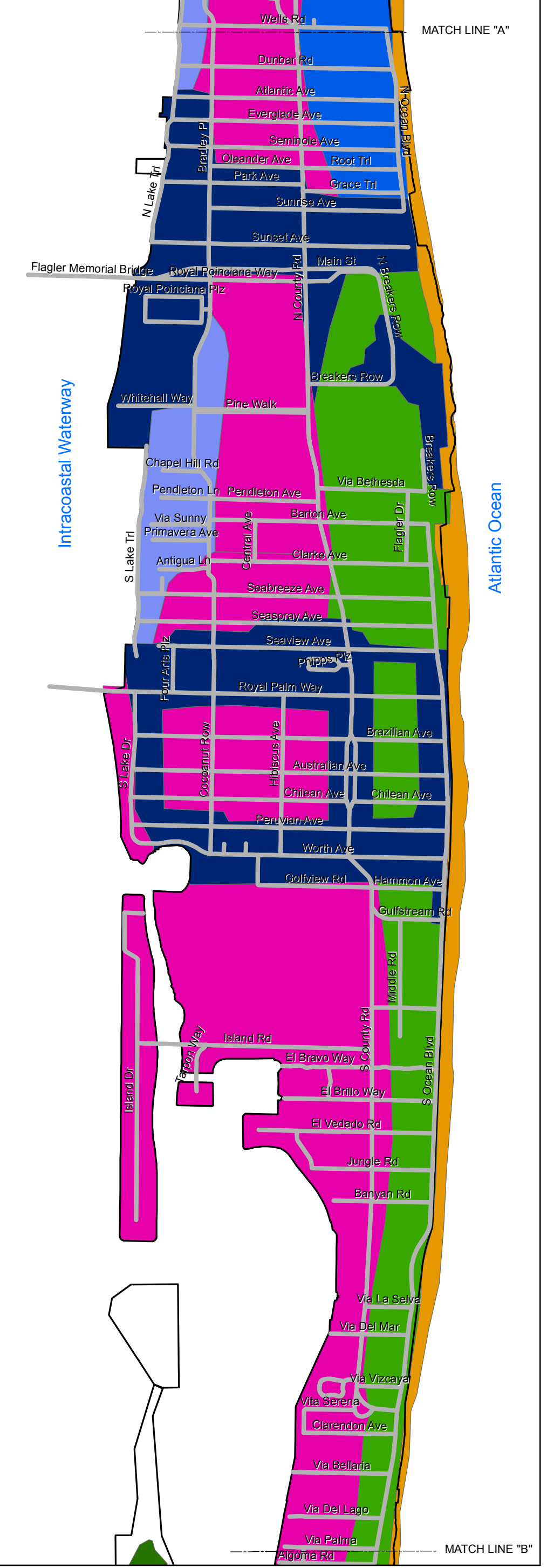
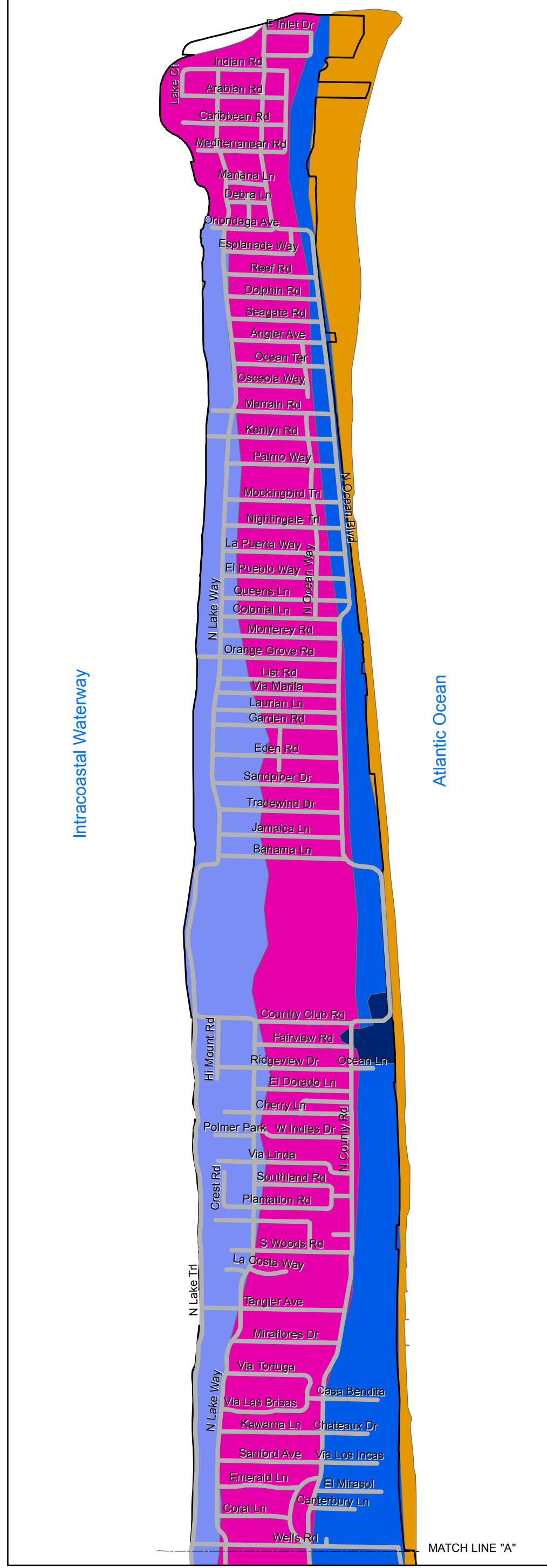
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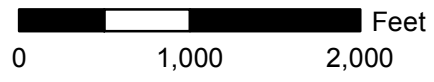
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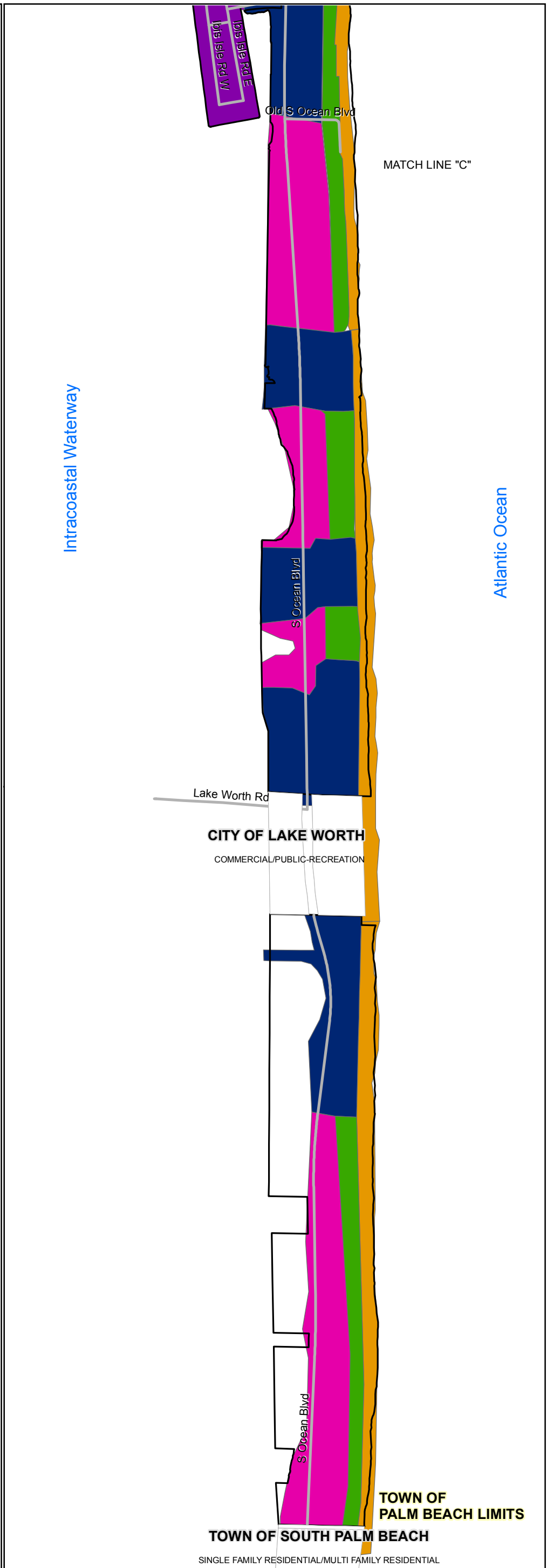
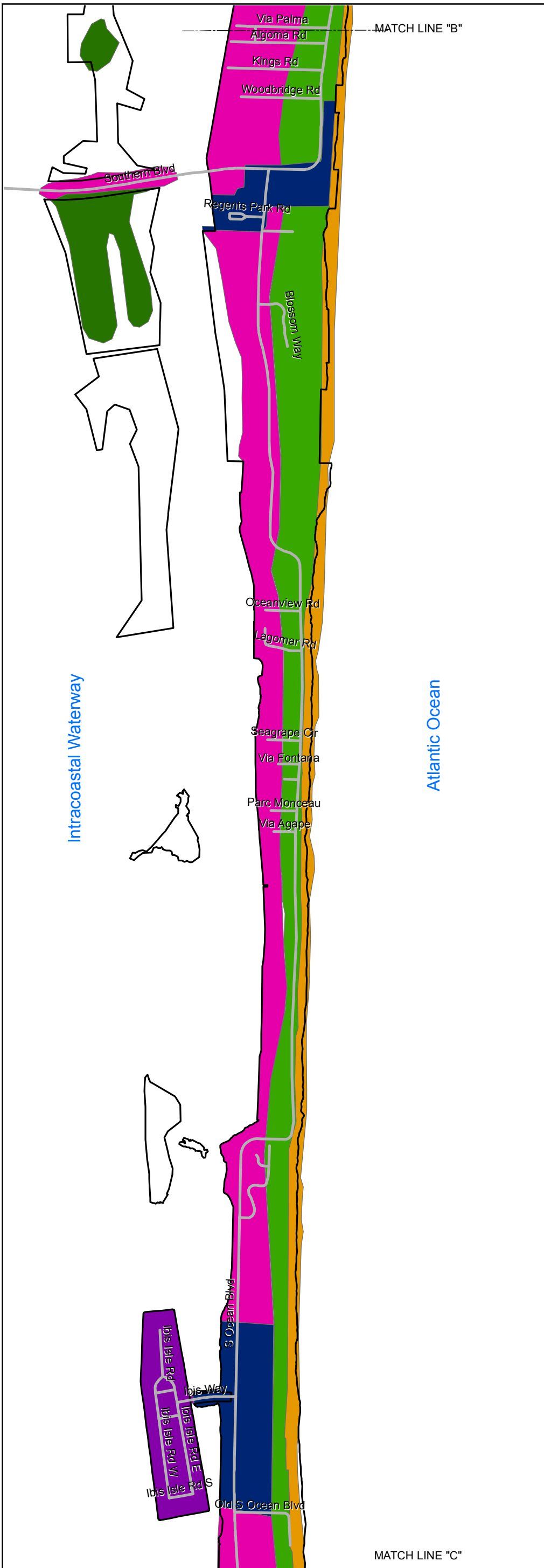
TOWN OF PALM BEACH MINERALS & SOILS MAP - 2017
Planning, Zoning & Building Department

- Au
- Bn
- Cc
- CuB
- PbB
- PhB
- Tm
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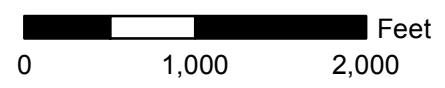
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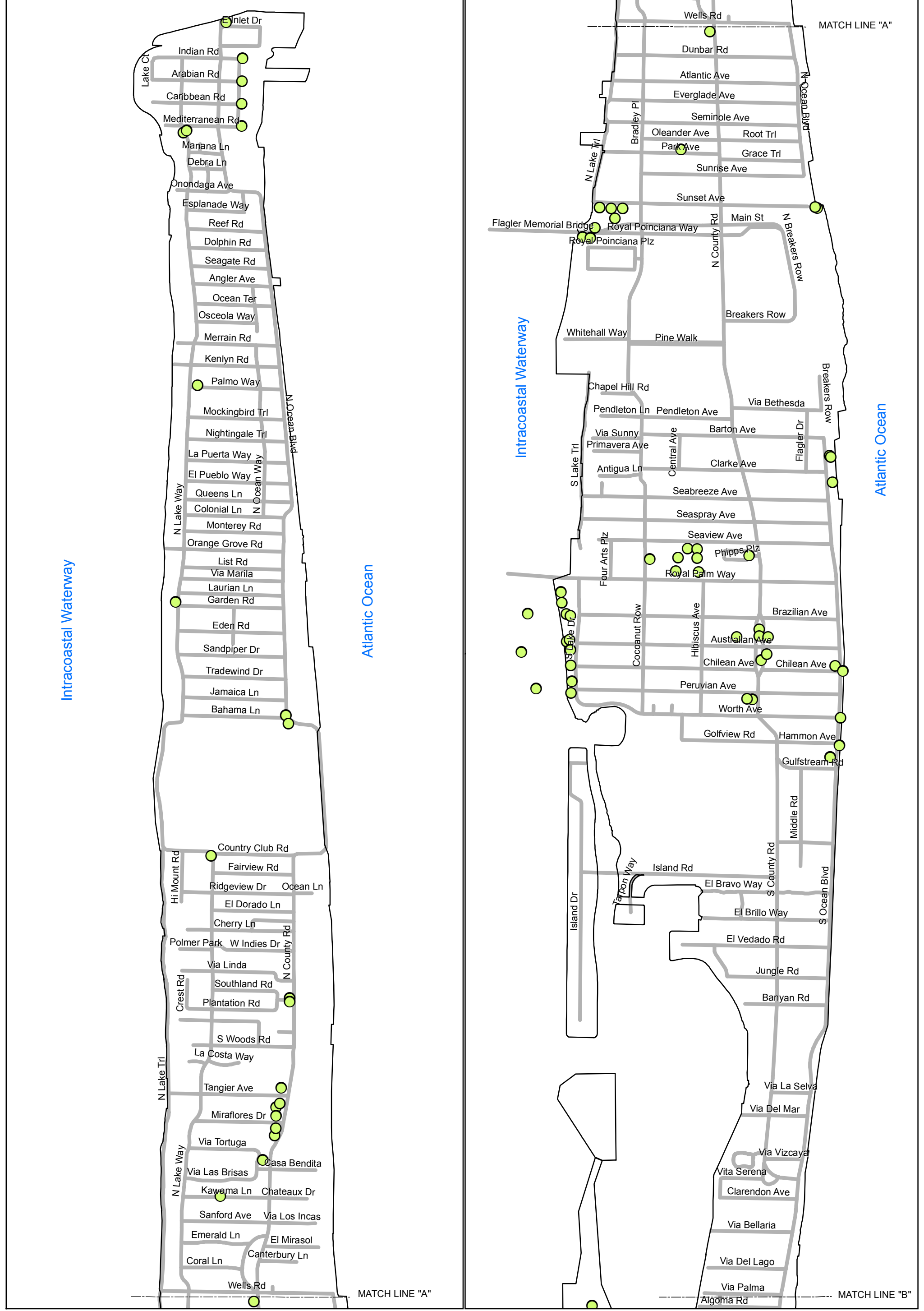
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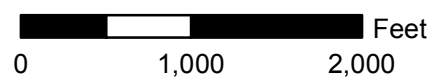
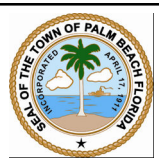




TOWN OF PALM BEACH
EXISTING PUBLIC BUILDINGS & GROUNDS MAP - 2017
 Planning, Zoning & Building Department

PUBLIC BUILDINGS & GROUNDS

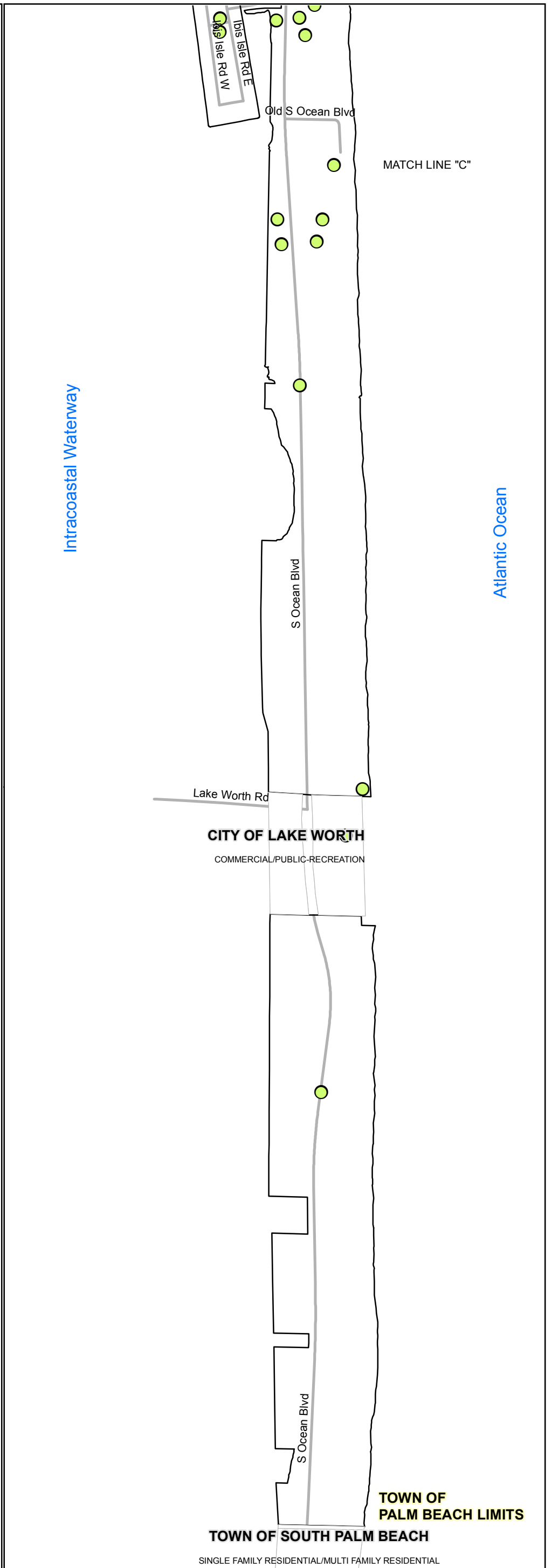
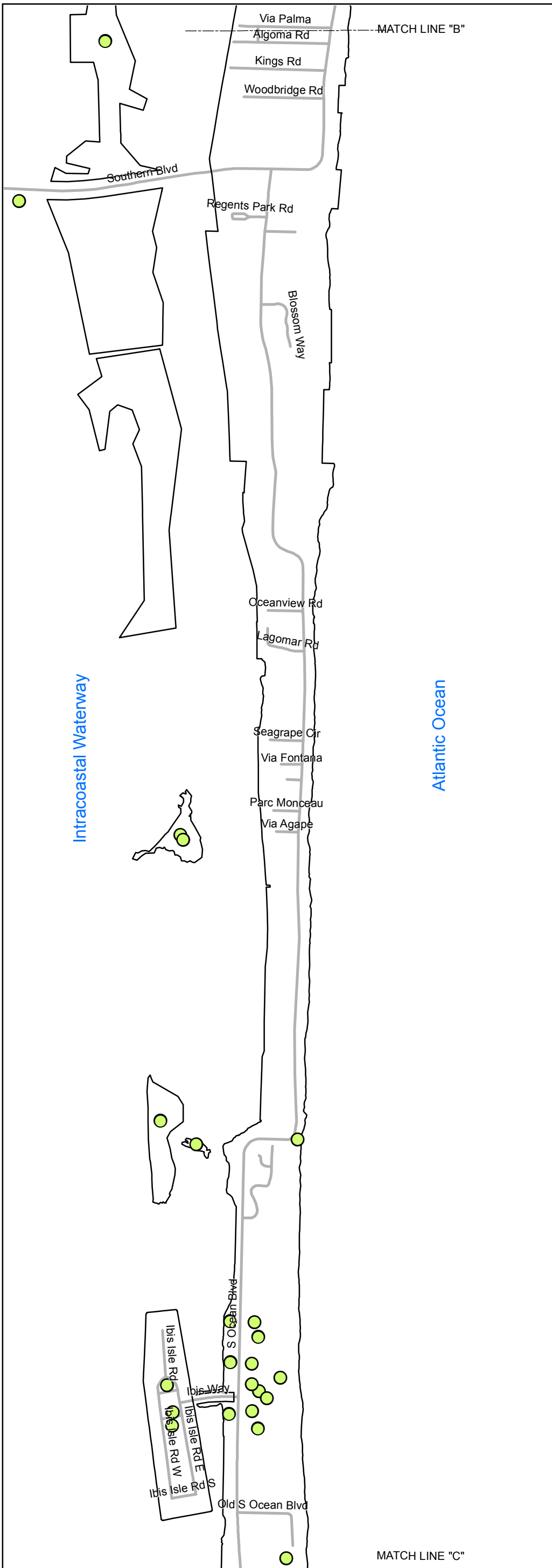
NOTE: No existing or planned public potable water wells or wellhead protection areas exist within the Town.



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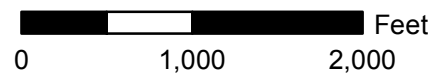
MAP I - 8



**TOWN OF PALM BEACH
EXISTING PUBLIC BUILDINGS & GROUNDS MAP - 2017**
Planning, Zoning & Building Department

● PUBLIC BUILDINGS & GROUNDS

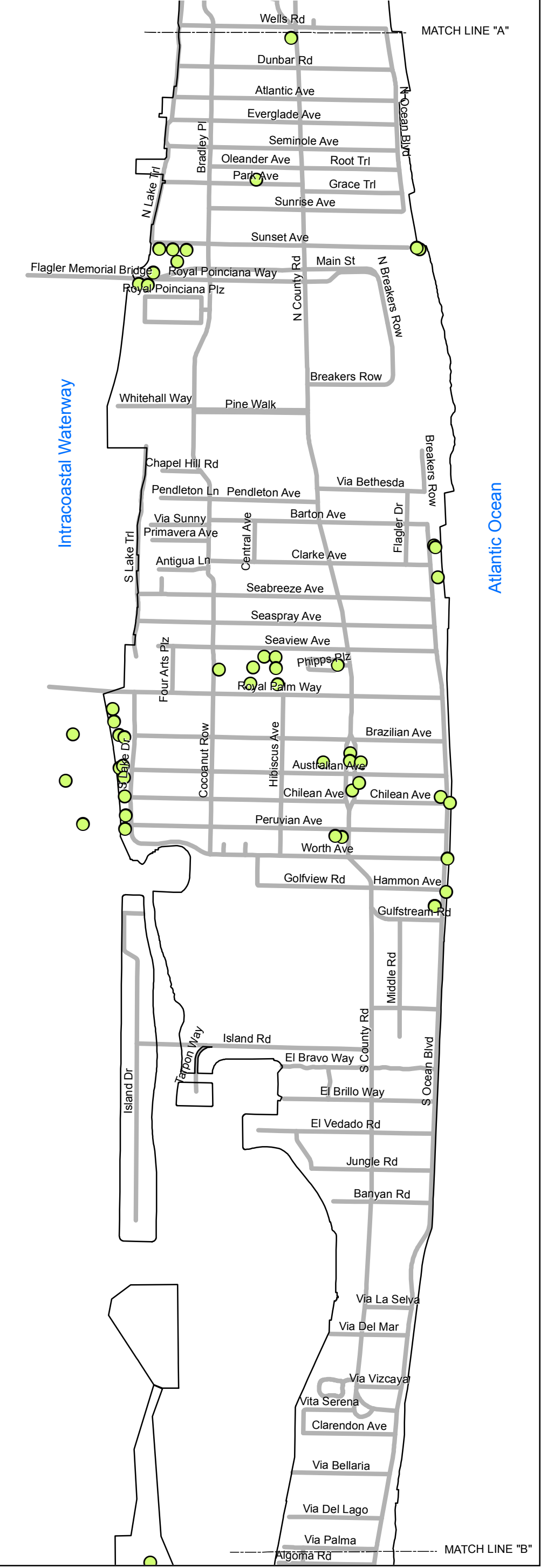
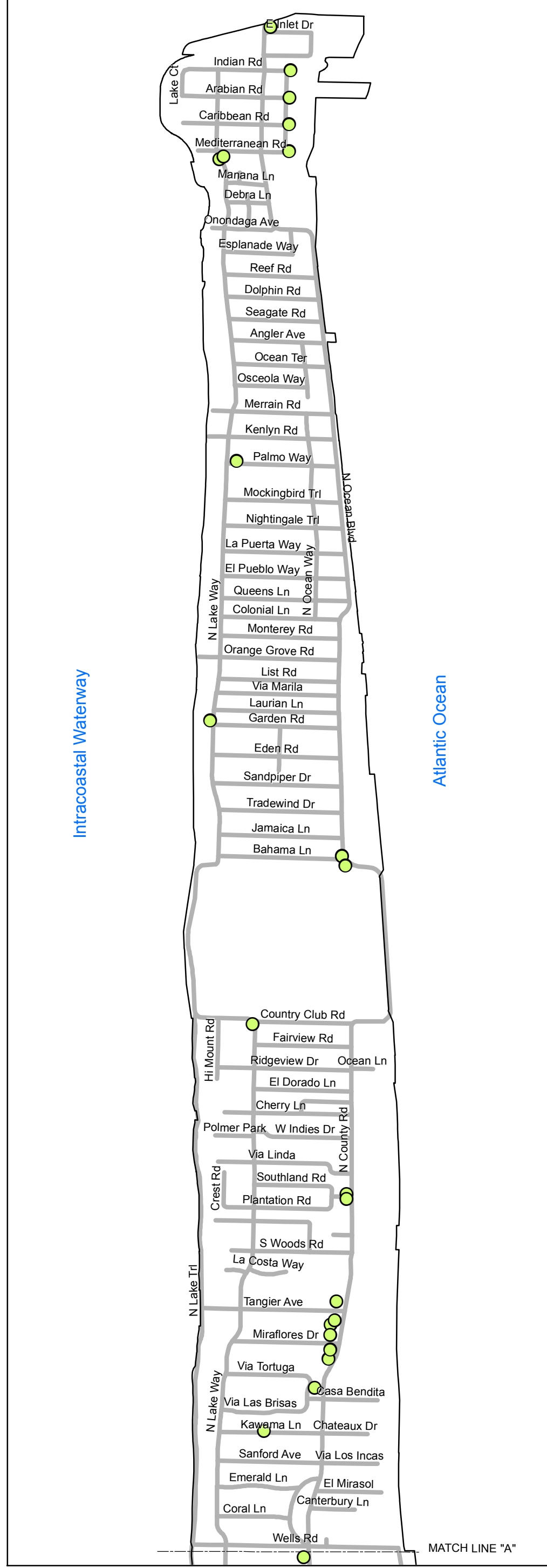
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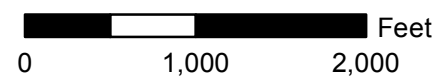
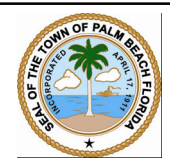
MAP I - 8



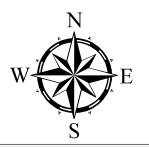
TOWN OF PALM BEACH
FUTURE PUBLIC BUILDINGS & GROUNDS MAP - 2027
 Planning, Zoning & Building Department

● PUBLIC BUILDINGS & GROUNDS

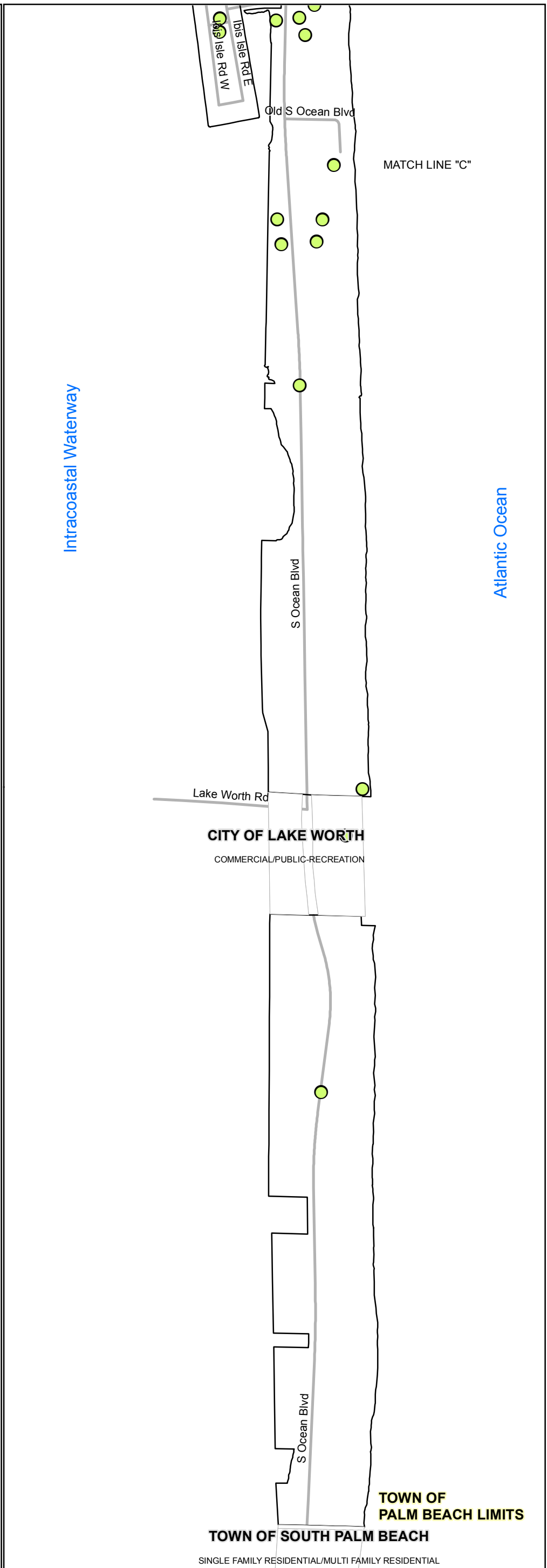
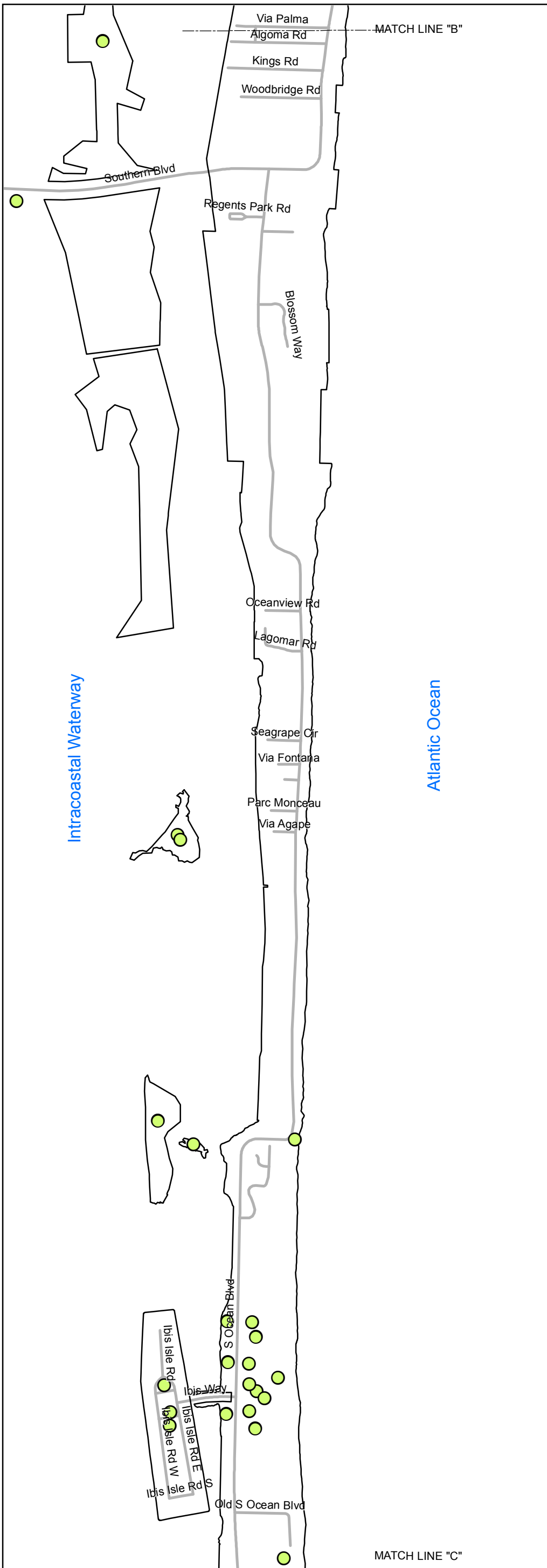
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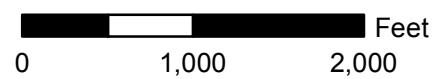
MAP I - 9



**TOWN OF PALM BEACH
FUTURE PUBLIC BUILDINGS & GROUNDS MAP - 2027
Planning, Zoning & Building Department**

● PUBLIC BUILDINGS & GROUNDS

NOTE: No existing or planned public potable water wells or wellhead protection areas exist within the Town.



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MAP I - 9

TRANSPORTATION ELEMENT

INTRODUCTION

The purpose of the Town's Transportation Element is to provide the framework for establishing its desired transportation system; and, in particular, to plan for its future motorized and non-motorized traffic circulation needs.

This Element relies upon and supports the basic philosophy expressed throughout the Town's planning efforts since its first Plan was adopted in 1929. The principal goal at that time, and one that has remained the primary philosophical basis for this Transportation Element, was:

"To preserve the town's quality of life through retention of an essentially residential character and unique historic personality."

Further, the Town's 1929 Plan expressly sought to achieve, as one of its objectives:

"The concentration of general traffic upon a limited number of streets, a system of leisurely and convenient by/ways free from automobiles, discourage trespassing, and provide safety and quiet for the residents of Palm Beach."

More recently, in its Comprehensive Plan adopted in 1983, the Town set forth the following as one of its primary land use objectives, and one that this Element strives to further:

"To maintain the quality of life which has given the Town its unique physical and historical character and, towards this objective, to take all legally and technically available measures to stabilize the Town's land use and reduce residential density patterns where possible."

In most communities the Future Land Use Map will clearly indicate where new roadways must be provided; but, Palm Beach is unusual in that it is virtually fully developed with no opportunity for construction of new streets to relieve pressures on its major north-south arterial thoroughfare -- SR A1A, North County Road, and North Ocean Boulevard.

This Element of the Plan has been developed based upon:

1. Analysis of the existing transportation system;
2. Analysis of existing transportation levels of service and system needs; and,
3. Analysis of projected transportation levels of service and system needs, based upon the future land uses shown on the Future Land Use Map, and pertinent plans of the Florida Department of Transportation.

EXECUTIVE SUMMARY

The Town of Palm Beach is essentially built-out compared with other coastal communities. The most critical demographic condition affecting demands on the traffic circulation system is the annual fluctuation of population that occurs when numerous transient visitors and seasonal residents come to Palm Beach for the winter season. This seasonal fluctuation is as important as the rate of population growth. It requires that systems be designed to handle recurring seasonal demands not present the rest of the year.

In addition, Town roadways are subject to traffic impacts resulting from developments in neighboring communities. Recent land use changes will result in increased density and intensity within the Transportation Concurrency Exemption area (TCEA) in downtown West Palm Beach. As a result it is expected to negatively affect traffic circulation both on and off the island.

EXISTING ROADWAY FUNCTIONAL CLASSIFICATION

Map II-1 following the Transportation Goals, Objectives and Policies includes the functional classifications of the roadways within the Town for the current year (2017) and the 10-year planning time-frame (2027). There are divided major arterials (Royal Poinciana Way/SR A1A and Royal Palm Way), undivided major arterials (North and South County Roads/SR A1A, South Ocean Boulevard/SR A1A, Southern Boulevard, and Bradley Place), and undivided collectors (Cocoanut Row and South Ocean Boulevard). The remaining roads within the Town are local streets. Map II-1 also includes information regarding existing (2017) and future (2027) bicycle/pedestrian facilities, roadway responsibility, and number of lanes.

Level of Service (LOS) is a representation of the traffic congestion on a roadway. The town sets the level of service standard for town roads. Palm Beach County has the Palm Beach County Transportation Performance Standards Ordinance that applies countywide to County thoroughfares and State roads that are not part of the Florida Intrastate Highway System (FIHS). The State sets the standards for FIHS roads. The Town may set levels of service higher than the County or State for County and State roads, but it may not adopt a lower standard without State and/or County agreement.

Maintaining concurrency is a term used to describe the situation where there is always enough room on the road (capacity) to accommodate traffic without reducing the level of service below the adopted standard. This requires predicting how proposed development will affect traffic congestion. Studies have been

conducted to develop formulas for predicting the number of trips various land uses will generate. Computer models have been created to try and predict how many vehicles will use which roadways to get between various land uses. Short term predictions can be fairly accurate, but long term predictions often are not. By convention, level of service is written as “LOS” when accompanying a letter standard.

LOS “A”: Highest LOS which describes primarily free-flow traffic operations at average travel speeds. Vehicles are completely unimpeded in their ability to maneuver within the traffic stream. Stopped delay at intersections is minimal.

LOS “B”: Represents reasonably unimpeded traffic flow operations at average travel speeds. The ability to maneuver within the traffic stream is only slightly restricted.

LOS “C”: Represents stable traffic flow operations. However, ability to maneuver and change lanes may be more restricted than in LOS B, and longer queues and/or adverse signal coordination may contribute to lower average speeds.

LOS “D”: Borders on a range in which small increases in traffic flow may cause substantial increase in approach delay and hence decrease in speed. This may be due to adverse signal progression, inappropriate signal timing, high volumes, or some combination of these.

LOS “E”: Represents traffic flow characterized by significant delays and lower operating speeds. Such operations are caused by some combination of adverse progression, high signal density, extensive queuing at critical intersections, and inappropriate signal timing.

LOS “F”: Represents traffic flow characterized by extremely low speeds. Intersection congestion is likely at critical signalized intersections, resulting in high approach delays. Adverse signal progression is frequently a contributor to this condition.

TRAFFIC GENERATORS

There are four main bridges crossing the Intracoastal Waterway and connecting the Town to the mainland; these are:

- Flagler Memorial Bridge

- Royal Park Bridge
- Southern Boulevard Bridge
- Robert A. Harris Memorial Bridge (Lake Worth Rd.)

Aside from these bridges, the major generators of traffic in the Town are limited to the two major commercial areas:

- The northern commercial area encompassing uses on Royal Poinciana Way, Sunrise and Sunset Avenues, Bradley Place, North County Road, and the Royal Poinciana Plaza; and,
- The Town Center area which includes the retail concentrations along South County Road, Peruvian Avenue, internationally famous Worth Avenue; and, the office area along Royal Palm Way.

REGIONALLY SIGNIFICANT ROADWAYS

Growth of the Town's population over many decades has contributed to the traffic and parking concerns. An even greater factor has been the exponential growth of the surrounding area. Palm Beach County's population has grown from less than 400,000 in 1980 to over 1.3 million in 2010. Rapid growth in the regional population can be expected to continue throughout the planning period. In addition, the opening of a regional convention center in downtown West Palm Beach in 2003 has exacerbated the traffic and parking conditions.

Regionally significant roadway facilities include: Royal Palm Way, Southern Boulevard, Royal Poinciana Way, and South County/SR A1A from Royal Poinciana Way to the southern Town limits. Lands on either side of these roadways have been fully developed, although there may be some opportunity for redevelopment in the future.

Developments in nearby communities may cause increases in traffic on regionally significant roadways in the Town. The Town lacks sufficient data to evaluate these impacts. In 2001, the Town negotiated with the City of West Palm Beach and reached agreement with regards to the Town's concerns over the lack of LOS determinations in the City of West Palm Beach's downtown Master Plan.

TRAFFIC CIRCULATION ANALYSIS

Traffic circulation in Palm Beach is mainly influenced by the four connecting bridges from the mainland, two of which feed directly to the Town's two major commercial areas.

Due to geographical constraints, the Town's existing roadway network does not lend itself to major improvements to increase capacity. As in most communities approaching build-out, development has occurred immediately adjacent to the rights-of-way, virtually precluding any major network improvements.

In assessing and analyzing traffic circulation service and capacities, the basic "level of service" methodology was utilized, along with recent and historical traffic volume data.

Traffic signals in the center of the Town are computer-synchronized. However, there are no signals on SR A1A south of Hammon Avenue all the way to Lake Worth Road, a distance of nearly six miles. Also, there are no traffic signals on Southern Boulevard within the Town.

To improve safety and traffic flow, the Town completed an intersection/triangle visibility study in 2005 that inventoried and recommended regulations to deal with vegetation, walls and other impediments to motorist visibility of oncoming traffic. In 2009 the Town modified regulations related to intersection sight triangles to the Town Code. While the Town has not adopted a "joint use access" provision as suggested in Policy 1.2, joint access is permitted upon review and approval by the Director of Public Works. Access is limited to the minor roadway when a lot has frontage on both a major and minor roadway.

EXISTING SYSTEM DEFICIENCIES

Although traffic volumes fluctuate, average annual daily traffic has generally decreased slightly over the past five years. Given the fact that there is very little vacant land available, there does not appear to be further potential for substantial increases in traffic volumes generated by new development, although traffic will likely increase as surrounding areas develop or redevelop to higher intensity.

While the Town has taken numerous steps to ameliorate traffic and parking problems, they persist in selected areas, chiefly during the peak winter tourist months. Of particular concern are the Royal Park, Flagler Memorial, and Southern Boulevard bridges during the morning and afternoon "rush hours", and the Town Center and Royal Poinciana commercial areas. Traffic and parking conflicts continue, particularly in residential districts adjacent to these commercial districts or the beach areas.

Town staff is continually addressing localized traffic circulation problems, or implementing traffic operation improvements, to increase capacity and safety at points of congestion.

Traffic volume data indicate that all major roadways operate at Level of Service "D" or better during peak periods except for Southern Boulevard which operates at Level of Service "E" during the AM and PM Peak Hour as well as SR A1A north of Via Del Lago which operates at a Level of Service "E" during the PM Peak Hour.

Areas which local knowledge and field inspection indicate are of particular concern include the Worth Avenue and South County Road commercial areas, and the Royal Park, Flagler Memorial, and Southern Boulevard bridges during morning and evening peak hours, primarily due to the bridge openings. The Town has observed that the timed bridge openings during the peak season help to mitigate traffic congestion. To a lesser degree, congestion also develops in the commercial

areas during the mid-day hours (11 a.m. — 1 p.m.). Map II-2 identifies the principal areas of traffic and parking problems in the Town.

The *Traffic and Parking Improvement Plan* prepared by the Town's consulting engineers in 2006 indicated that in certain instances insufficient parking may be affecting the ability of residents and others to safely and conveniently access recreational (including the municipal docks) and school facilities. Bridge openings at the Royal Park and Flagler Memorial Bridges needed to be synchronized to be consistent with peak seasonal operations. The Town evaluated the alternative strategies of the Plan and implemented strategies as needed.

EXISTING MULTIMODAL TRANSPORTATION SERVICES

Public transit services, including disadvantaged services, are provided by PalmTran, the county-wide system which operates two bus routes which connect destinations within the Town to the mainland. There are no routes which operate solely within the limits of the Town. The Town does not directly provide transit services. Map II-3 shows the location of existing PalmTran bus routes.

The existing bus routes operate primarily on main roads and provide coverage to destinations within the Town. The level of transit service is minimal. There are no special transit services (e.g., park and ride, express bus, etc.). Connections to airports, seaports, railroad stations and other mainland destinations are limited to private for-hire services such as taxicabs, rental cars, limousines or courtesy shuttles.

The Town has studied the potential for expanding transit services as a way of alleviating traffic congestion on major roadways. The study concluded that, since transit in the Town is just a part of the larger overall countywide system, any improvement in service would necessarily need to be linked to a countywide expansion of transit services and modes. There are no plans for such an expansion at this time. There are no designated transit corridors in the Town.

There are no designated transportation concurrency management areas within the Town.

During an impending natural disaster (such as an approaching hurricane) it may become necessary to evacuate the island residents. The Town staff routinely works with countywide disaster management agencies to plan for such occurrences. The keys to safely evacuating the island are:

- Sufficient advanced warning.
- Maintaining traffic flow on the four bridges.

The Town conducts Travel Demand Management (TDM) by working with significant traffic generators (e.g., convention, meeting and banquet facilities, etc.) to manage demand and minimize traffic and parking impacts during significant events. Demand management

techniques used by the Town include remote parking and shuttle services for employees, valet parking, controlling the scheduling of large or overlapping events, police traffic control, encouraging employees to use public transportation, shared parking, etc.

FUTURE TRANSPORTATION SYSTEM

Map II-4 provides the general location of major traffic circulation features in Palm Beach through the year 2017. Since the Town is essentially fully developed and without any opportunity for new alignments or major expansions to the existing roadway network, the existing and future traffic circulation systems are identical.

The facilities portrayed on this map recognize that the Metropolitan Planning Organization has no capacity improvements planned for the Town, nor are there any such improvements, expansions or new facilities planned for the Town in the Adopted FDOT Five-Year Work Program.

No limited access facilities, ports, airports, rail lines, intermodal terminals, high-speed rail lines, or related facilities exist in the Town, nor are any planned or expected during the planning period.

ANALYSIS OF PROJECTED TRAFFIC AND NEEDS

Because of the geographic and developmental limitations imposed on the traffic circulation system in the Town, its basic design concept cannot be significantly modified. Thus, the primary thrust of transportation planning strategies adopted by the Town must focus on improvements that are operational in nature, with emphasis upon public transportation, if and when it is proven to be economically feasible.

There is little opportunity for growth and development within the Town. Existing established land use patterns are likely to remain for the foreseeable future. Therefore, the opportunity for developing new or expanded transit services depends primarily on developing major transit destinations on the mainland.

Based on the recent 2015 peak hour volumes collected along the key roadway corridors, the volume to capacity ratios for 75% of these roadway corridors provide for enough capacity to allow for 500 future peak hour committed trips.

All applications for development or modifications to existing uses within the Town undergo a review of on-site traffic flow and parking operations. This careful scrutiny has resulted in the elimination of many potential problem areas, and has prevented additional congestion in many cases.

**TABLE II-1
DAILY PEAK SEASON TRAFFIC COUNTS
SELECTED LOCATIONS
TOWN OF PALM BEACH**

2015-2008

#	Street Segment	Facility Type	1997 ² LOS	2007 ²	2009 ²	2010 ²	2011 ²	2015 ¹	
								Count	LOS
1	Southern Blvd. (W of SR A1A)	2L ART Undiv.	E	14,452	13,445	12,730	13,215	15,079	E
2	SR A1A (N of Via Del Lago)	2L ART Undiv.	E	17,026	14,894	14,091	13,767	15,057	E
3	SR A1A (S of Via Pelicano)	2L ART Undiv.		12,615	10,107	9,990	10,213	10,636	D
4	Ocean Blvd. (N. of El Vedado)	2LCOLL Undiv.	D	12,406	10,634	9,368	9,176	9,985	D
5	S. County Rd. (N. of Peruvian)	4L ART Undiv.	D	10,108	9,963	9,753	11,359	9,919	C
6	N. County Rd. (N. of Breakers Rd)	4L ART Undiv.	D	15,930	14,162	13,590	13,695	15,431	D
7	N. County Rd. (N of Royal Poinciana Way)	4L ART Undiv.	D	14,666	14,407	13,712	14,908	13,070	D
8	Cocoanut Row (S of Seabreeze)	2LCOLL Undiv.	E	9,054	8,262	8,296	8,079	8,639	D
9	Cocoanut Row (N of Whitehall)	2LCOLL Undiv.		9,975	8,716	8,567	8,245	8,895	D
10	Bradley Pl. (N. of Royal Poinciana Way)	2LCOLL Undiv.		16,052	14,084	13,351	14,324	12,279	D
11	Royal Palm Way (E of Hibiscus)	4L ART Divided	D	17,292	16,240	15,641	15,340	17,289	D
12	Royal Palm Way (W of Hibiscus)	4L ART Divided		19,210	17,992	17,374	17,076	18,821	D
13	Royal Poinciana Way (W of Cocoanut Row)	4L ART Divided	D	N/A	N/A	N/A	N/A	16,681	D
14	Royal Poinciana Way (W of County Rd.)	4L ART Divided		14,296	13,074	12,223	12,869	10,501	C

SOURCE: ¹Kimley-Horn and Associates, 2016; ²Progressive Design & Engineering

Based on the data prepared by Kimley-Horn & Associates and by Progressive Design & Engineering as outlined in the Table above, the yearly peak season daily traffic volumes have remained steady or increased slightly between 2010 and 2015. -Therefore, the Town expects to be able to meet its current adopted levels of service. While some locations along SR A1A may experience traffic levels in excess of the adopted level of service, as a whole traffic levels on A1A will remain within level of service E.

In the past, the Town filed a lawsuit against the City of West Palm Beach for not sharing traffic data related to the West Palm Beach Downtown Master Plan so that the Town can analyze and plan for the mitigation of negative effects which may be encountered by the Town resulting from the increased traffic which will most likely be created from increased development and traffic calming measures. In the past, the Town has also objected to those portions of West Palm Beach's proposed Downtown Master Plan which decreased traffic volumes on major roadways in the City of West Palm Beach, and may result in increased traffic volumes and exacerbation of traffic

congestion on major roads in the Town, including SR 80, SR A1A, Royal Palm Way and Royal Poinciana Way.

Sound traffic engineering and parking procedures are continually being implemented by the Town to ensure that safe and convenient on-site and off-street parking operations are maintained.

Although the opportunities are very limited, the Town has a policy of actively pursuing the acquisition and/or improved use of existing and future rights-of-way whenever possible. For the most part, potential for additional right-of-way acquisition is limited to that available at the time new development or redevelopment is approved.

FUTURE LEVELS OF SERVICE

The existing and future levels of service on all State roadways within the Town satisfy FDOT requirements. The existing and future levels of service on all regionally significant roadways within the Town satisfy TCRPC requirements with the exception of Ocean Boulevard (SR A1A) between Southern Boulevard and County Road and Southern Boulevard within the Town limits. The Town has studied these roadway segments and determined that the most promising methods for alleviating traffic congestion problems are continuing operational improvements and Transportation Demand Management (TDM) efforts within the Town and limiting the amount of traffic entering from outside the Town, primarily on Southern Boulevard. Capacity improvements on major roadways within the Town are not feasible due to physical, environmental and policy constraints.

Level of Service (LOS) is essentially a measure of the quality of the overall operating characteristics of the roadway. LOS of a roadway is frequently defined as the ability of a maximum number of vehicles to pass over a given section of roadway or through a given intersection during a specified period of time. The factors involved in determining LOS include speed, safety, travel time, traffic conflicts and interruptions, freedom to maneuver, driving convenience, comfort and operating costs.

Specification of the allowable Level of Service for SR A1A and Southern Boulevard should take into account the fact that both of these roadways are constrained from widening to four lanes due to physical, environmental and policy factors, including historical, aesthetic and social impacts. Because there is no opportunity to widen segments of these roadways now operating at LOS "E" during the peak season, these segments will continue to operate at "E" during the peak-season peak-hour for the foreseeable future. It should also be noted that the area of concern on SR A1A is characterized by a section of roadway which offers motorists a magnificent scenic vista of the Atlantic Ocean on the east and beautiful estate residences on the west. This view causes sightseers and tourists to slow down and is often the cause of congestion.

Consequently, in order to recognize the limited development potential of the little remaining vacant land in Palm Beach, the Town will adopt a Level of Service for SR A1A and Southern Boulevard of "E" for the peak-season peak-hour. This is believed to be sufficient to accommodate the limited amount of residential growth expected during the planning period.

The Town's minimum level of service standard for peak-season peak-hour on Royal Poinciana Way shall be "D"; for Coconut Row and Bradley Place it shall be "E". The minimum peak season, peak hour level of service standard on all other collector or arterial roadways in the Town shall be "D".

Future transit levels of service will be commensurate with the countywide service provided by PalmTran.

TRAFFIC SIGNAGE AND TOWN-WIDE BEAUTIFICATION

The issue of Traffic Signage and Clutter was addressed in a pilot program in 2004 where the signage situation on Royal Poinciana Way was evaluated and several problems identified. A working committee of staff assisted by volunteers identified that signs were sometimes repetitious, poorly located, often concealed by vegetation, aesthetically unpleasing, and confusing. There seemed to be a condition of “information overload” as well as an absence of coordination of the signage appurtenances. Often three or four signs were mounted on separate poles within a couple of feet of each other, when one or two mounting poles would suffice. The working committee also noted a lack of color coordination among signs, excessive overhead wires, shiny raw metal sign backs that caused glare, and a number of other issues that contributed to a visual problem that could be improved.

Impacts of the Issue

Aside from the overall aesthetic improvement issue, the Town believes this program might have a positive overall effect on safety. “Information overload” and visual clutter may have a distracting effect on motorists, and to that extent aesthetic improvements may improve overall safety as well.

Unanticipated Changes in Circumstances

There have been no unanticipated changes in circumstances that have resulted in the consideration of this topic. Further, neither consideration of this topic nor any subsequent modifications to the Town's goals, objectives and policies will result in any unanticipated changes in the existing circumstances as outlined in the Comprehensive Plan.

Resulting Problems or Opportunities

Problems associated with open space and beautification and traffic signage and clutter should be limited to initial construction related difficulties.

Opportunities include community wide aesthetic improvement and enhanced appearance, and overall safety improvement through the reduction of confusing signage and messaging.

GOALS, OBJECTIVES AND POLICIES

GOAL

MAXIMIZE THE EXISTING STREET TRANSPORTATION SYSTEM TO FOSTER A SAFE, EFFICIENT AND CONVENIENT TRANSPORTATION SYSTEM, COORDINATED WITH THE OTHER GOVERNMENTAL AGENCIES, FOR ALL EXISTING AND FUTURE LAND USES.

OBJECTIVE 1

The Town shall continue to correct traffic operational deficiencies and undertake other needed measures, identified in this Element, that are necessary to the provision of a safe, convenient, and energy efficient, multimodal transportation system, including providing for protection of existing and future rights-of-way from building encroachment. Design of the multimodal transportation system will be done to ensure the safety of not only motorists, but also the safety of cyclists and pedestrians, particularly where they interact with motorists.

POLICY 1.1

Continue to enforce zoning provisions regarding walls, hedges, and fences at intersections to minimize sight visibility hazards for motorists, cyclists, and pedestrians.

POLICY 1.2

The Town should consider modifying its land development regulations to adopt a "joint use access" provision controlling the number of access points at which driveways enter onto the roadway system.

POLICY 1.3

Continue to enforce provisions in the Town's Zoning Ordinance relating to building setbacks from the "ultimate" right-of-way as identified in the Town Atlas; and, negotiate, as appropriate, during the site plan review process for dedication of rights-of-way for necessary or potential future road widening.

OBJECTIVE 2

Development permits for land uses provided for on the Future Land Use Map shall be issued only when there is sufficient roadway capacity to ensure that roadways affected by the development

will operate at not less than the minimum levels of service standards set forth in this Element. Professionally accepted techniques shall be employed for measuring level of services for cars, trucks, and other vehicles as well as bikes and pedestrian for this purpose.

POLICY 2.1

The Town shall use the following two-way peak-hour, peak-season level of service (LOS) standards for facilities and segments listed below, effective one year from adoption of this Element.

FACILITY OR SEGMENT	"LOS"
(1) SR A1A	"E"
(2) Royal Poinciana Way	"D"
(3) Coconut Row/Bradley Place from to Seabreeze to north of Royal Poinciana Way	"E"
(4) Southern Boulevard	"E"
(5) All other roadways	"D"

The Town will continue to work with the Florida DOT, Palm Beach County and the Palm Beach Metropolitan Planning Organization (MPO) for the purpose of determining an appropriate methodology for determining the level of service on roadways in the Town where there are no traffic signals. The purpose of this effort will be to develop a constrained roadway strategy for SR A1A and Southern Boulevard within the Town.

POLICY 2.2

Prior to the issuance of a development order or permit for new construction or redevelopment, the Town shall make and record a determination that:

- 2.2a The project provides for safe and convenient on-site traffic flow and vehicular parking. Consider needed motorized and non-motorized vehicle parking commensurate with the requirements of the Town's land development regulations; and,
- 2.2b The traffic generation of the project will not reduce the level of service on roadways in the Town to a level of service category lower than that established in this Plan.

POLICY 2.3

As needed the Town will review its adopted level of service standards to determine if modification, in response to changed conditions, is warranted.

POLICY 2.4

The Town shall maintain records regarding de minimus transportation impacts in order to determine if and when the 110% threshold of such impacts has been reached.

POLICY 2.5

For those projects that cannot meet the concurrency requirement for transportation, the Town's land development regulations include provisions for the use of "proportionate fair-share mitigation for transportation facilities" consistent with Section 163.3180(16), Florida Statutes. Additionally, the regulations operate in a consistent manner with Palm Beach County's proportionate fair-share regulations.

POLICY 2.6

As part of the Town's concurrency management system, Town shall require that all transportation facilities be in place prior to the final inspection approval of a development permit.

OBJECTIVE 3

Coordinate the Town's transportation planning efforts with the plans and programs of the Metropolitan Planning Organization and the Florida Department of Transportation's Adopted 5-Year Work Program, and take into consideration public transportation and bicycle and pedestrian ways in future transportation planning.

POLICY 3.1

The Town will review this Element on a regular basis to determine its consistency with the Florida Department of Transportation's Adopted 5-Year Work Program, and plans of the Metropolitan Planning Organization, and make appropriate recommendations to these agencies regarding proposed projects that will improve design deficiencies on major thoroughfares in the Town.

POLICY 3.2

The Town shall consider the appropriateness for, or effects upon, bicycle and pedestrian ways during the planning for construction or expansion of any major transportation facilities within its municipal limits.

POLICY 3.3

Town shall continue to coordinate between several local, county, state and federal agencies responsible for street and right-of-way signage to improve the repetitious, poorly located, aesthetically unpleasing and confusing signage within the Town. Community awareness shall also be advanced to educate the public about the Town's initiatives and the advantages of proper signage.

POLICY 3.4

The Town will coordinate with the MPO, FDOT, and PalmTran to ensure that pedestrian, bicycle, and mass transit connections are provided within the Town. The Town will also seek enhancement grants through the MPO, FDOT, and other available sources to fund bicycle and pedestrian improvements within the Town, as opportunities arise.

POLICY 3.5

The Town will coordinate with the City of West Palm Beach and the City of Lake Worth to ensure interconnectivity with these jurisdictions in terms of pedestrian and bicycle facilities.

POLICY 3.6

The Town will work with the MPO/State Bicycle and Pedestrian Coordinator to promote public education of the benefits of walking and bicycling through distribution of available on-line and printed materials.

OBJECTIVE 4

The Town will continue to coordinate with responsible governmental agencies external to the Town to incorporate provisions into their plans, programs and operations and developments within their jurisdictions which will minimize transportation impacts to the Town consistent with the Town's efforts to manage traffic congestion on its roadways. A primary objective is to minimize traffic impacts to SR 80 and other regionally significant roads leading to the Town.

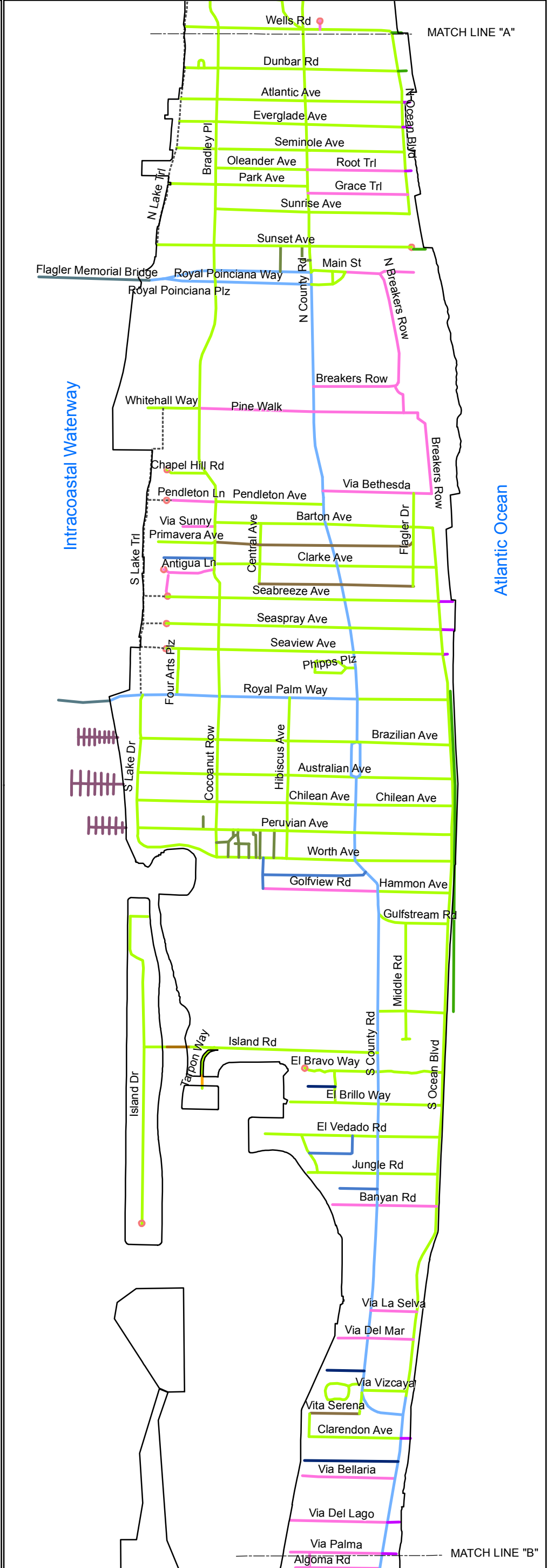
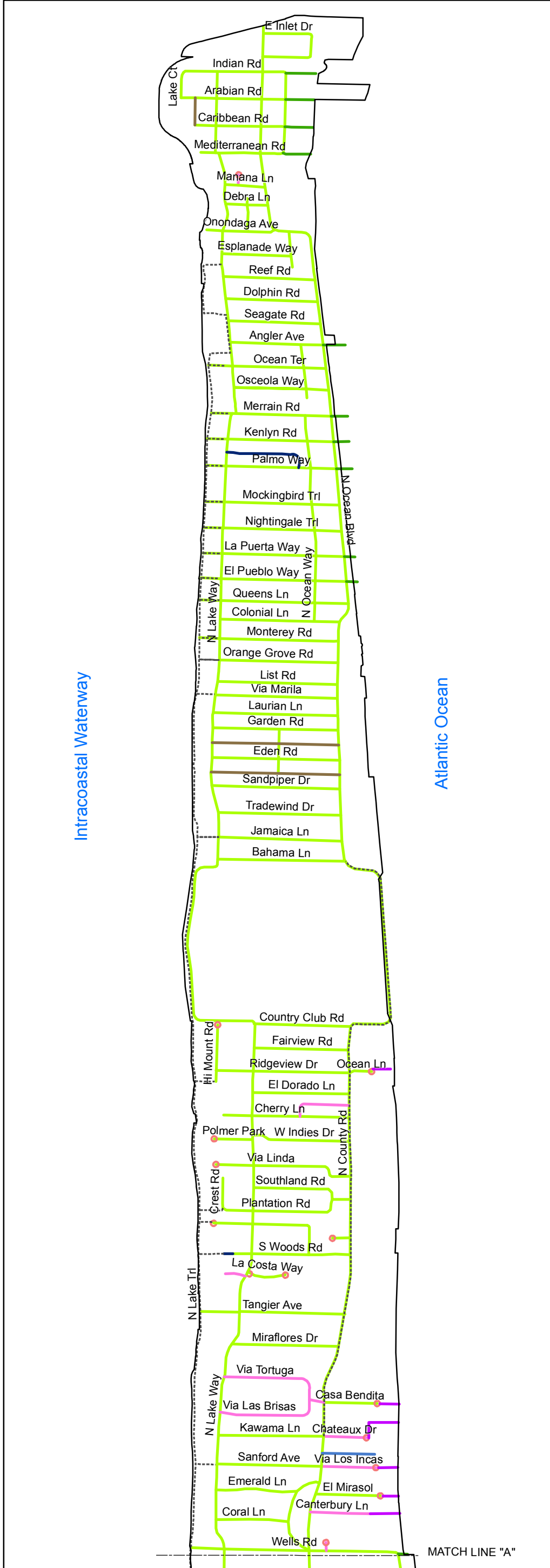
POLICY 4.1

The Town will coordinate with the Florida Department of Transportation (FDOT), Palm Beach County, West Palm Beach and other communities to minimize transportation

impacts to the Town through participation in the Palm Beach Metropolitan Planning Organization (MPO) and its respective committees.

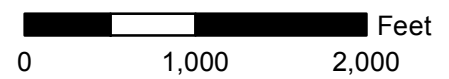
POLICY 4.2

The Town will coordinate directly with FDOT to mitigate traffic impacts on SR 80 and other regionally significant roads leading to Palm Beach.



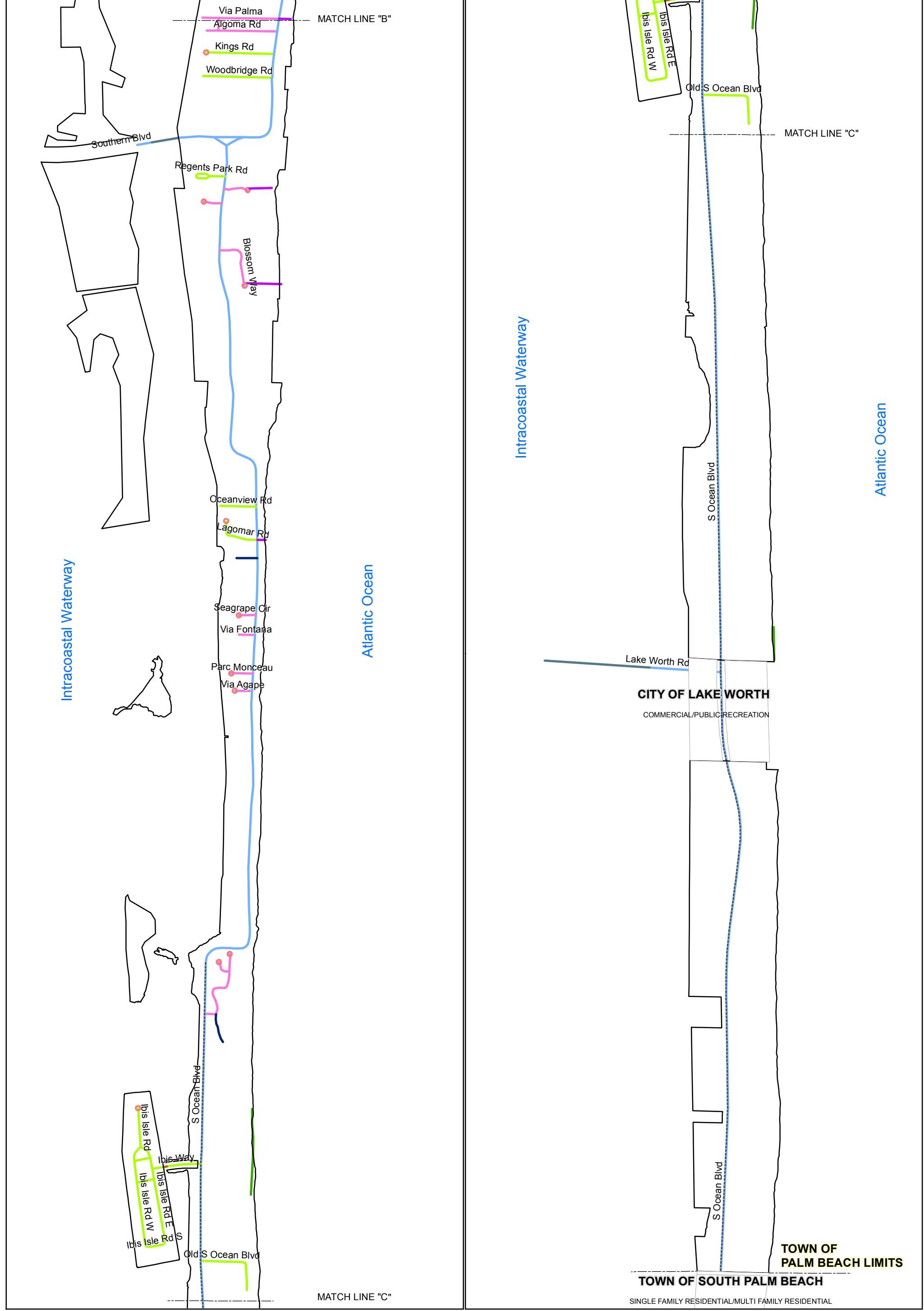
TOWN OF PALM BEACH EXISTING ROAD, BICYCLE & PEDESTRIAN NETWORK MAP - 2017
Planning, Zoning & Building Department

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| BEACH ACCESS PRIVATE | PRIVATE BRIDGE | STATE BRIDGE | TOPB ROAD |
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| PRIVATE ALLEY | PRIVATE ROAD | TOPB DOCK | |



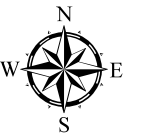
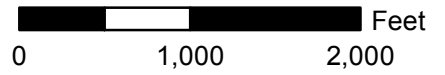
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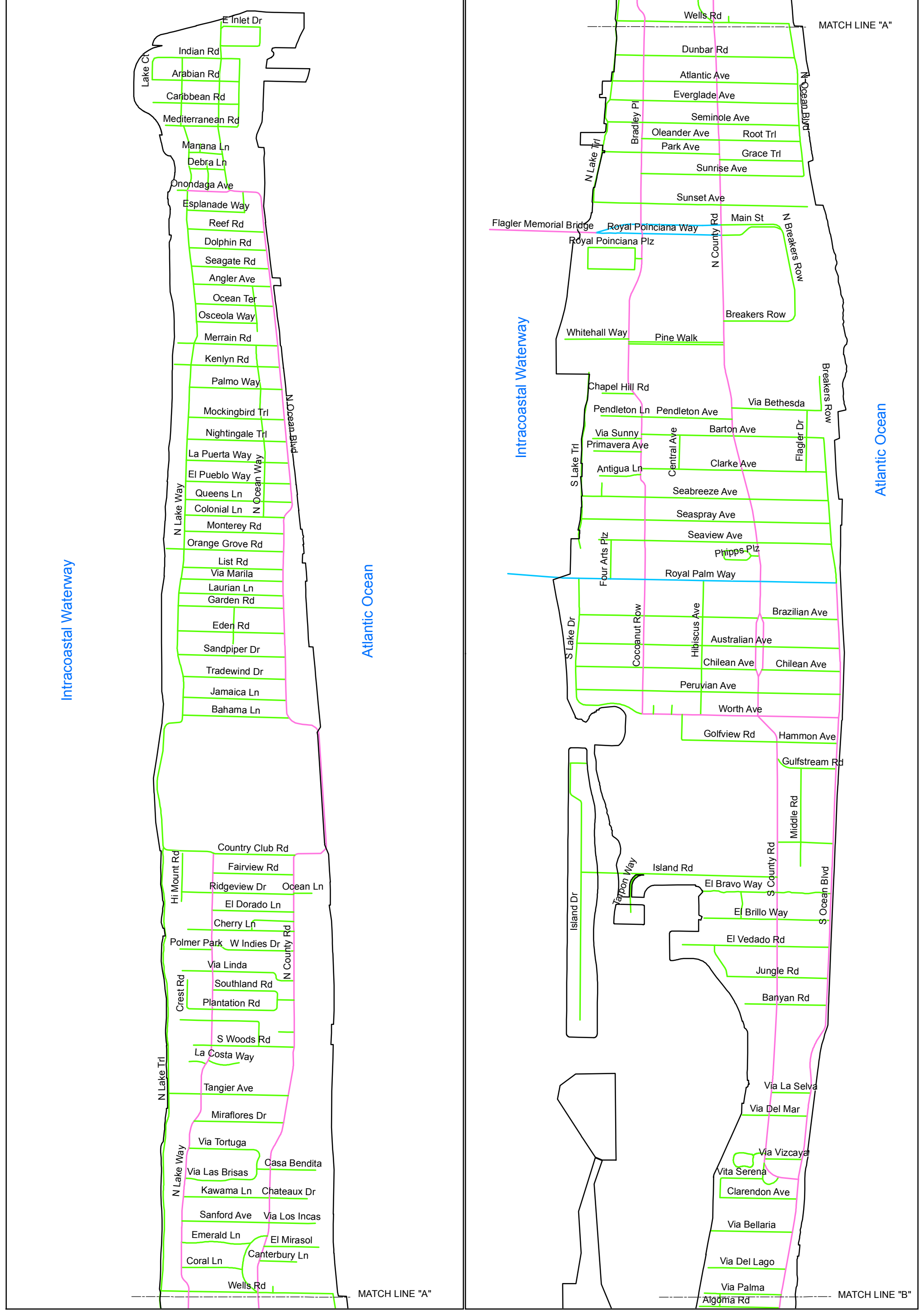


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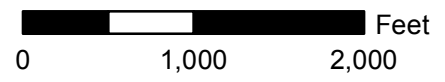


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TOWN OF PALM BEACH EXISTING FUNCTIONAL CLASSIFICATION MAP - 2017
Planning, Zoning & Building Department

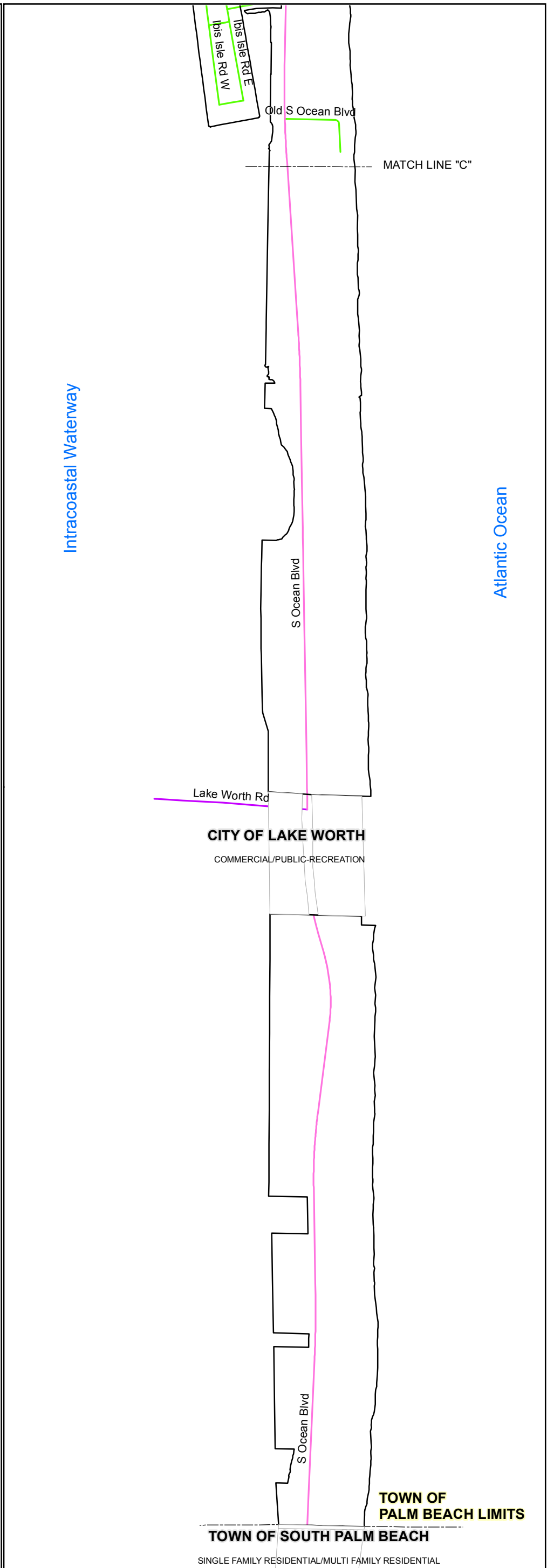
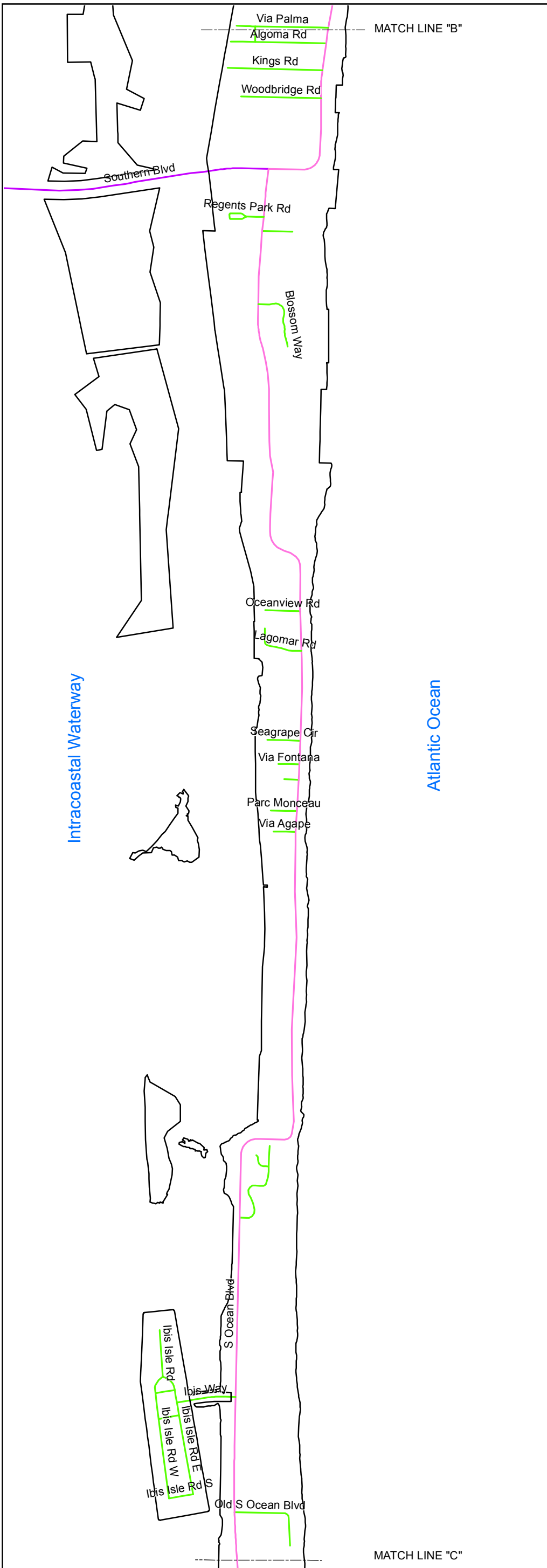
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- UNDIVIDED COLLECTOR
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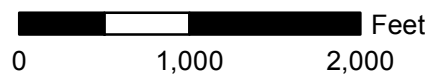


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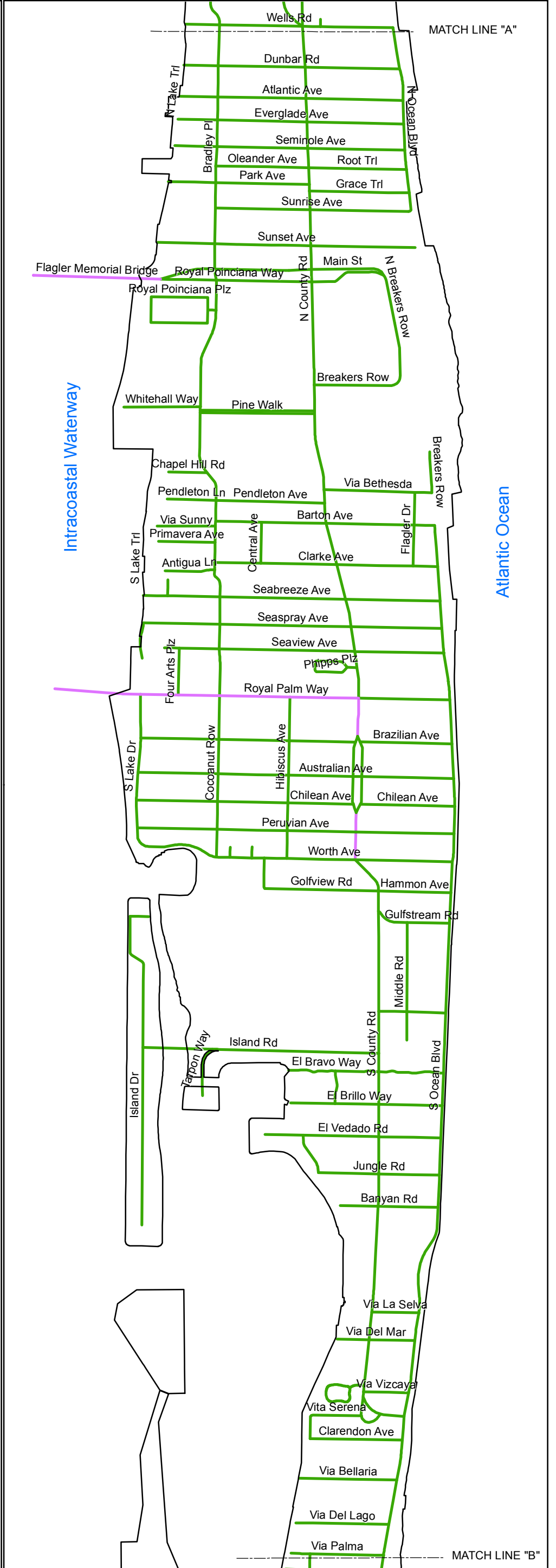
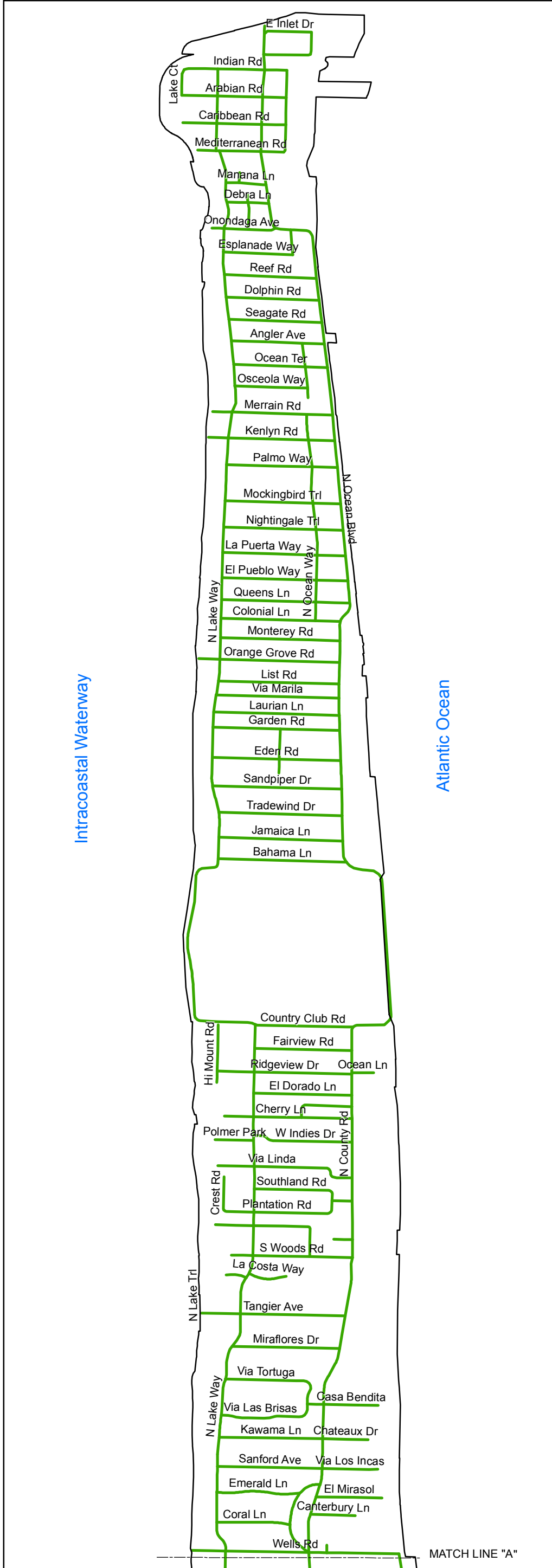
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- UNDIVIDED COLLECTOR
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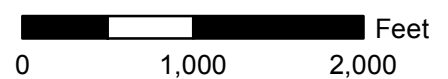
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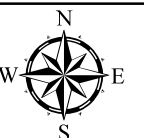


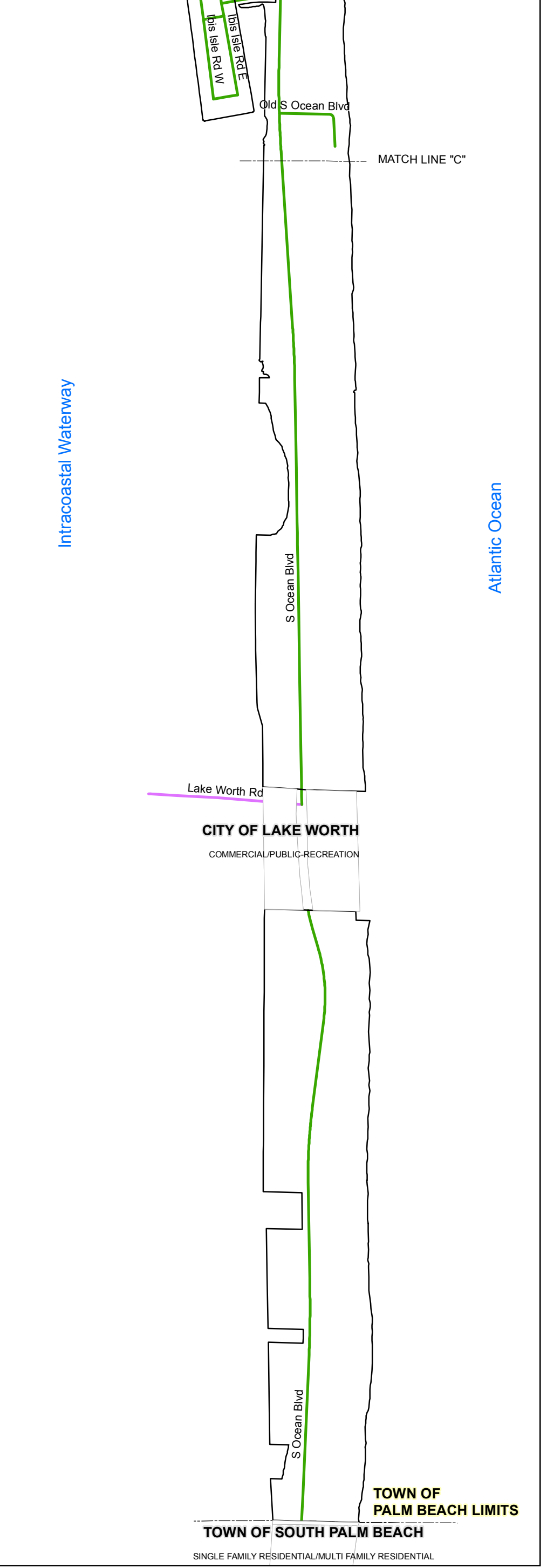
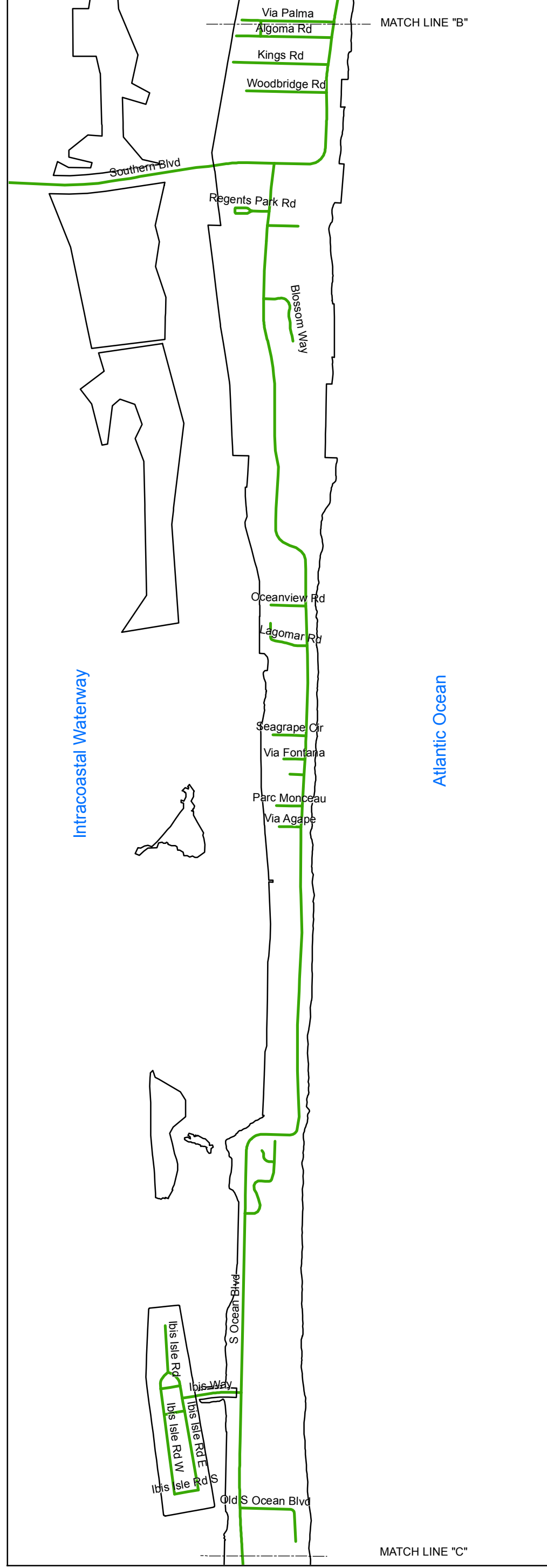
TOWN OF PALM BEACH
EXISTING ROADWAY NUMBER OF LANES MAP - 2017
 Planning, Zoning & Building Department

— 2 LANES
 — 4 LANES



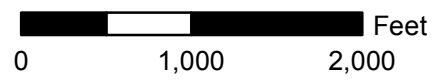
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**TOWN OF PALM BEACH
EXISTING ROADWAY NUMBER OF LANES MAP - 2017**
Planning, Zoning & Building Department

— 2 LANES
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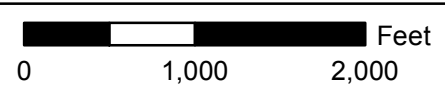


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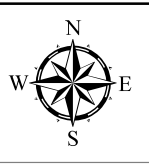


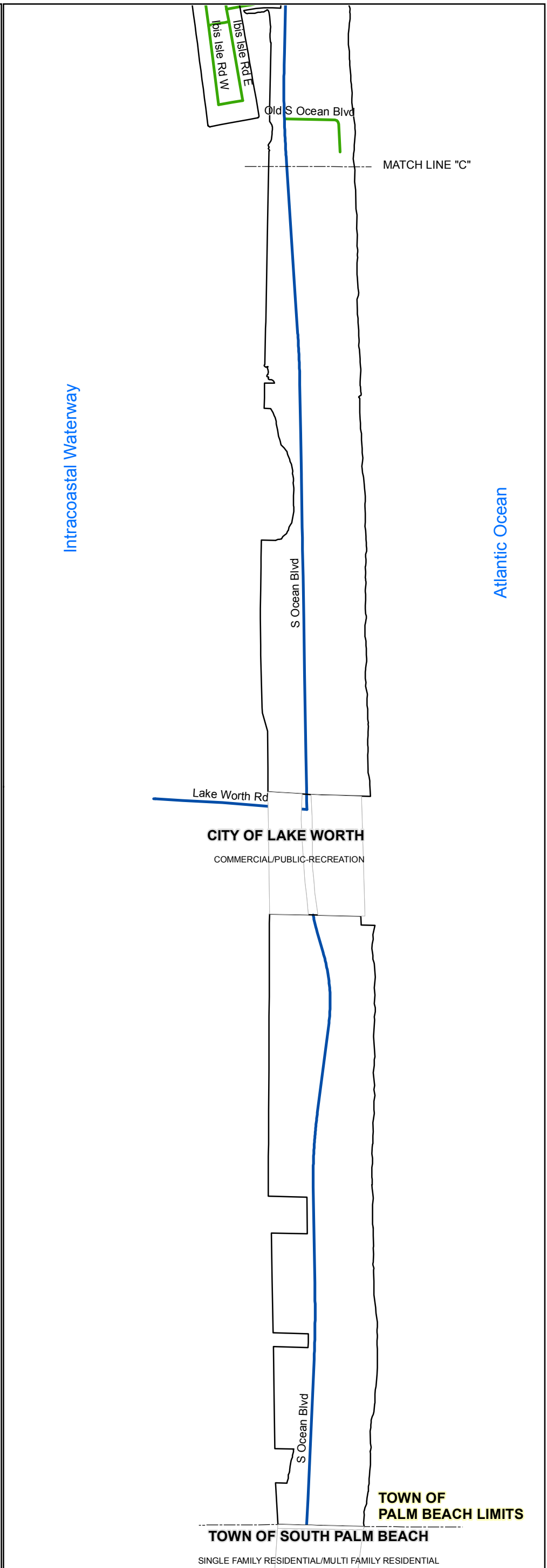
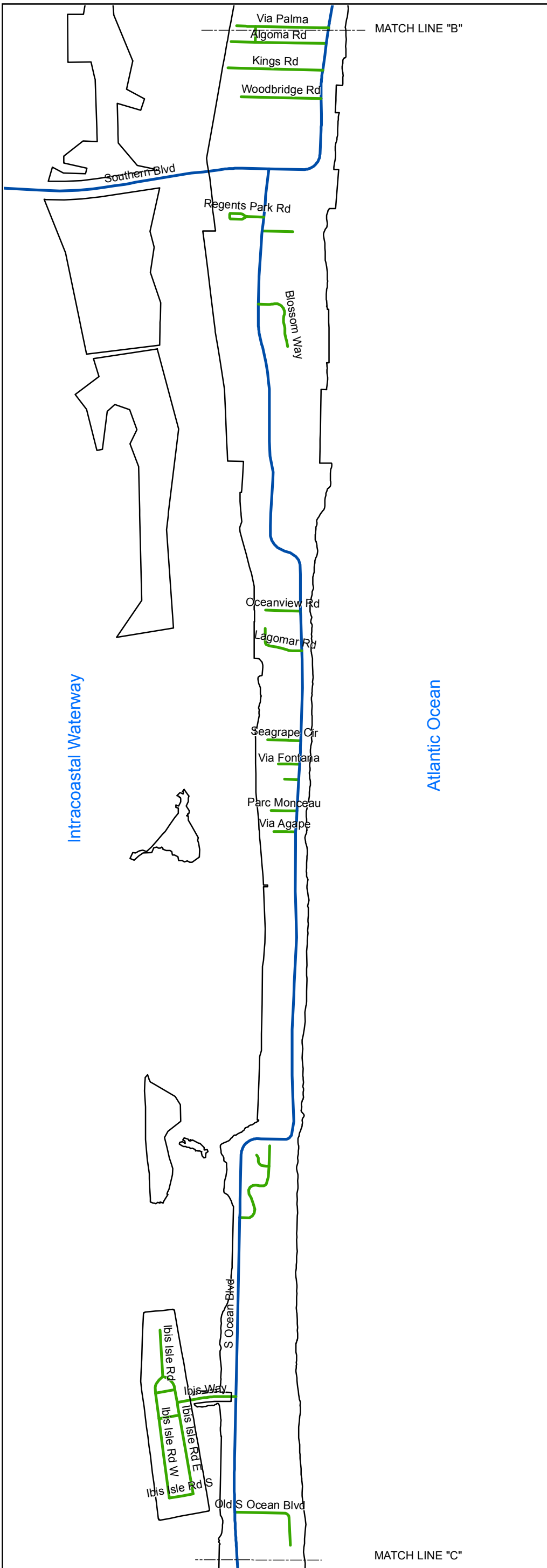
TOWN OF PALM BEACH EXISTING ROADWAY RESPONSIBILITY MAP - 2017
Planning, Zoning & Building Department

- TOWN OF PALM BEACH
- FDOT



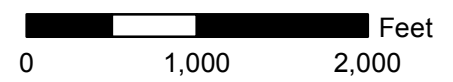
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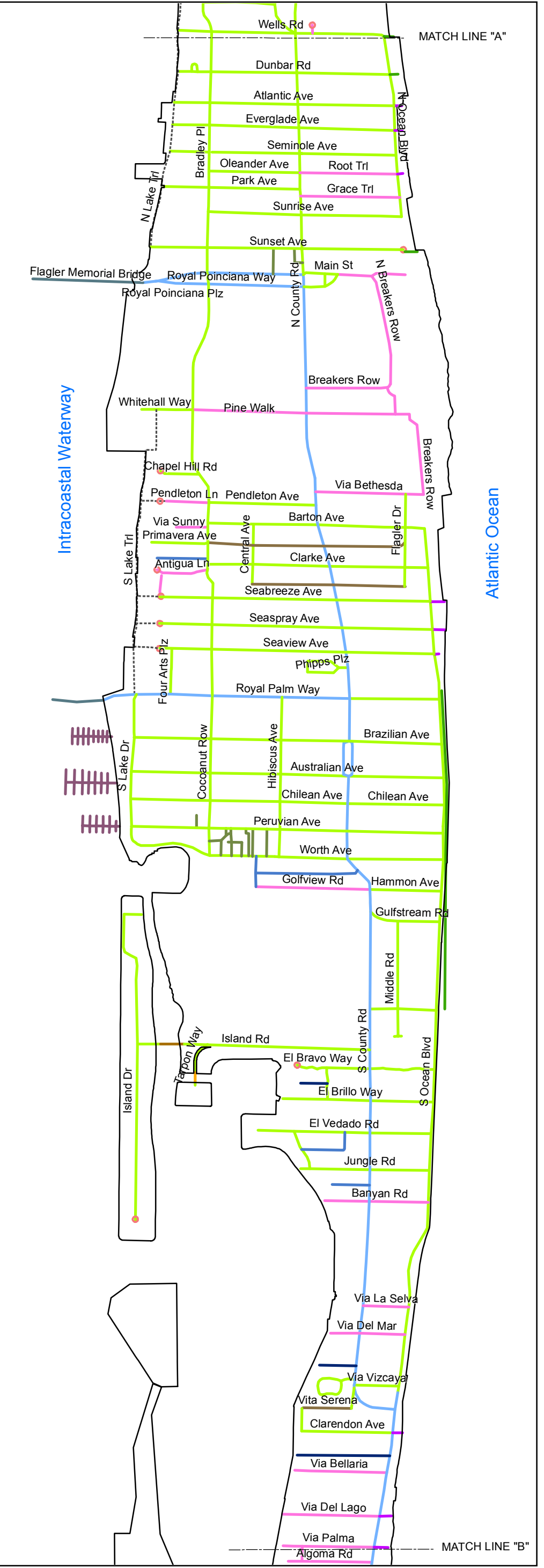
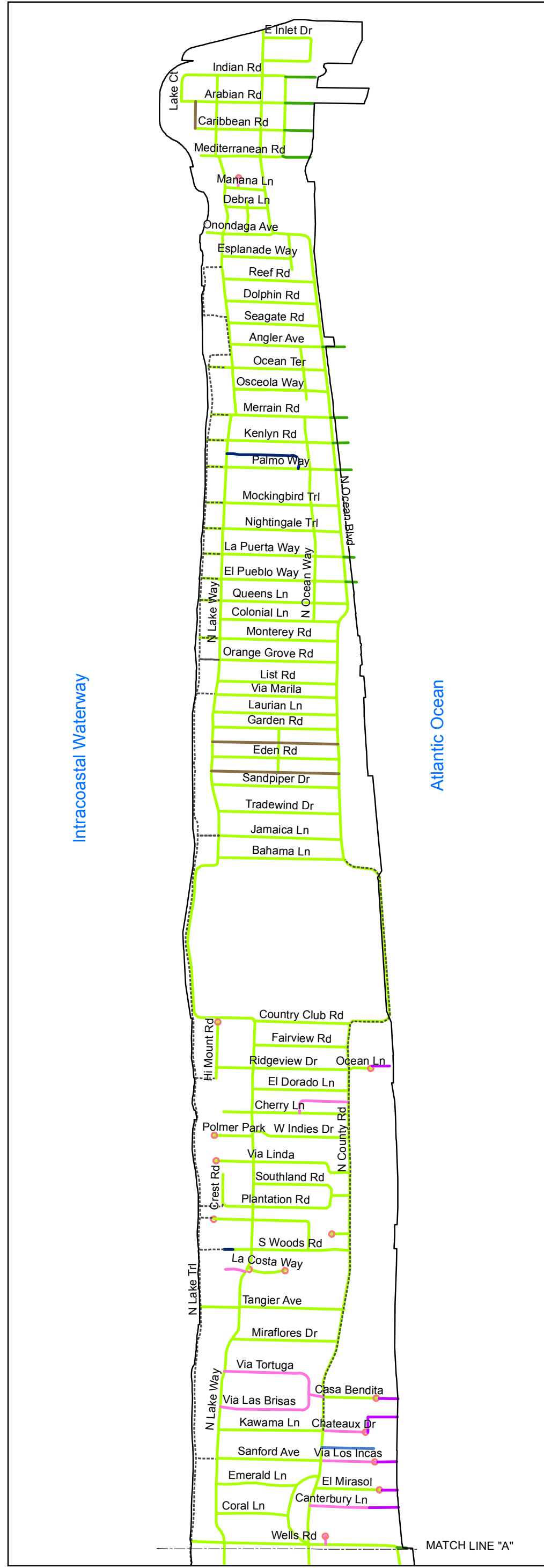
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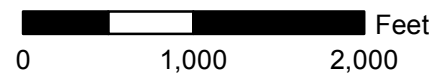


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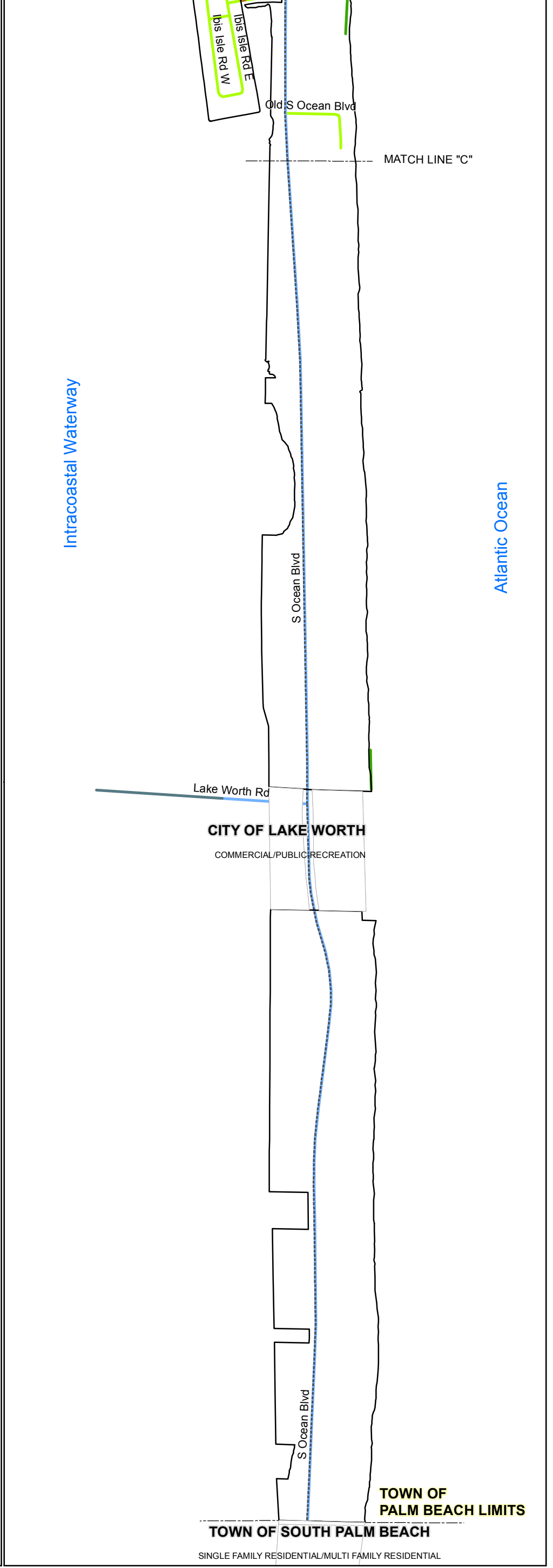
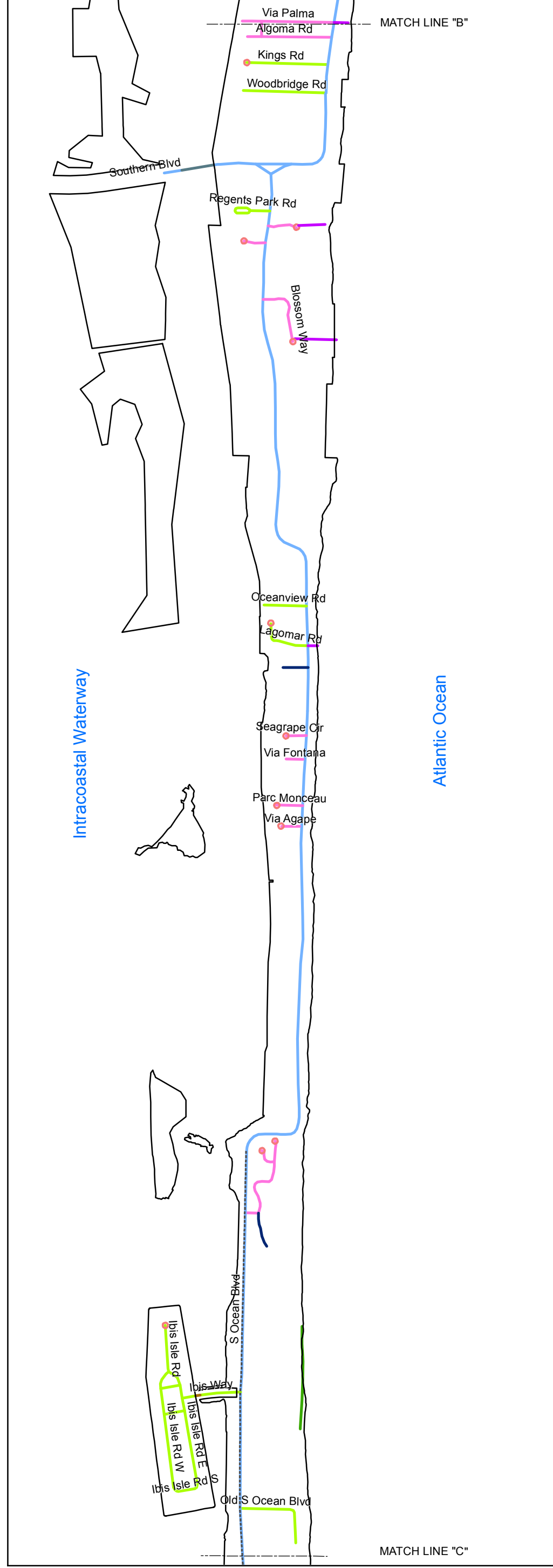
TOWN OF PALM BEACH FUTURE ROAD, BICYCLE & PEDESTRIAN NETWORK MAP 2027
Planning, Zoning & Building Department

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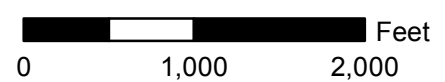
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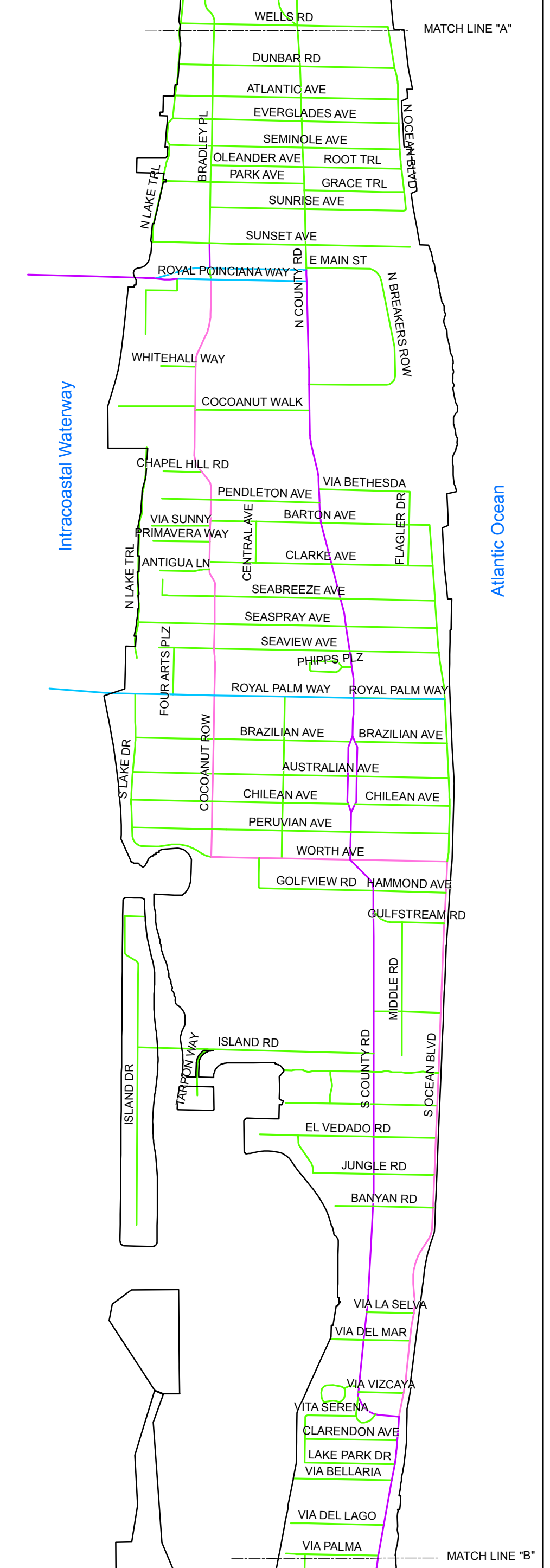
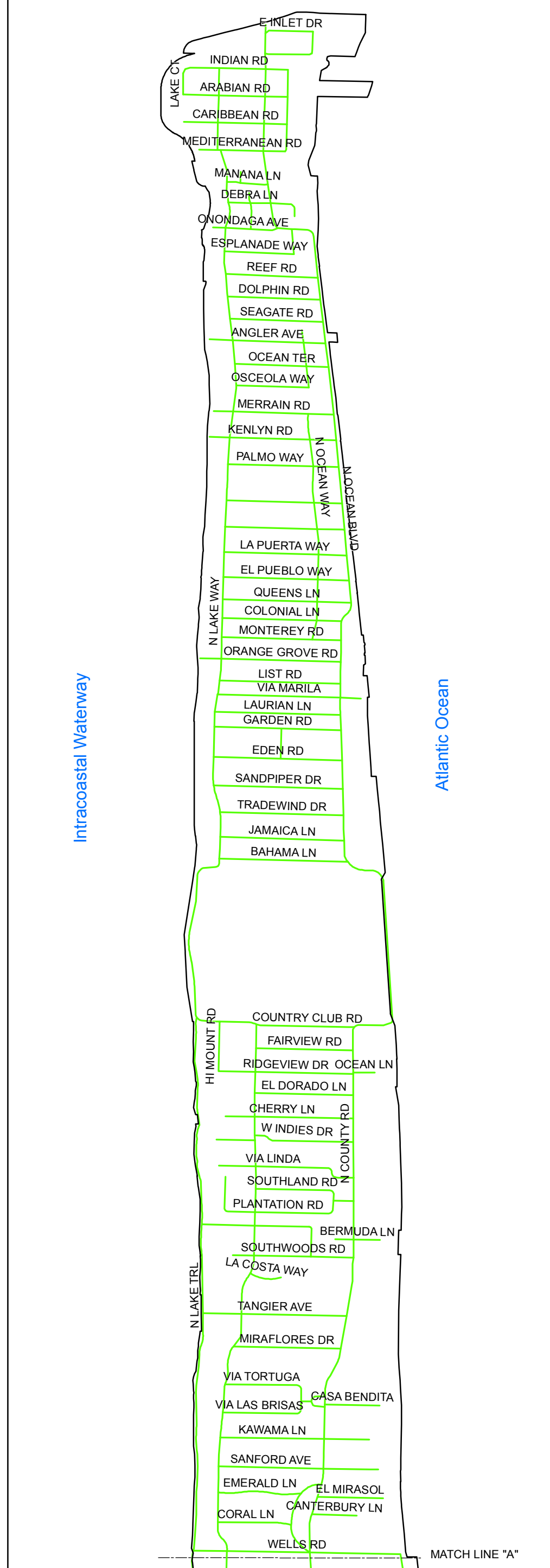
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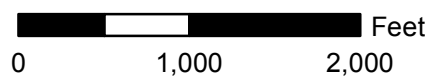


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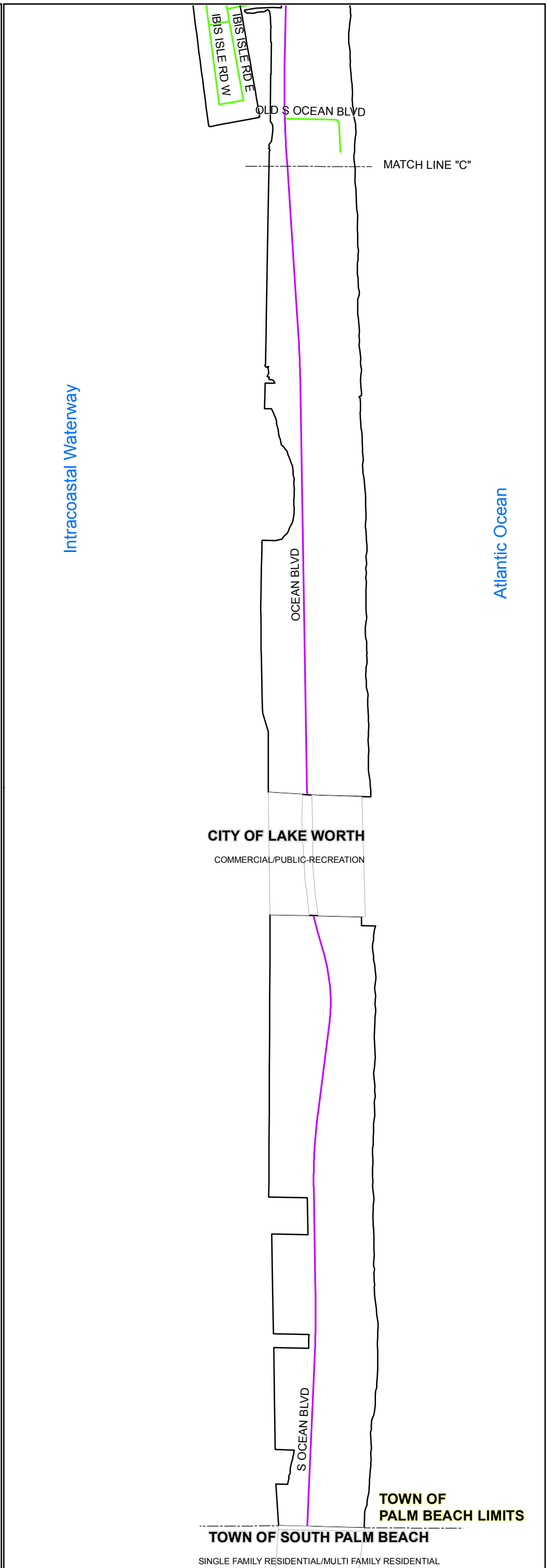
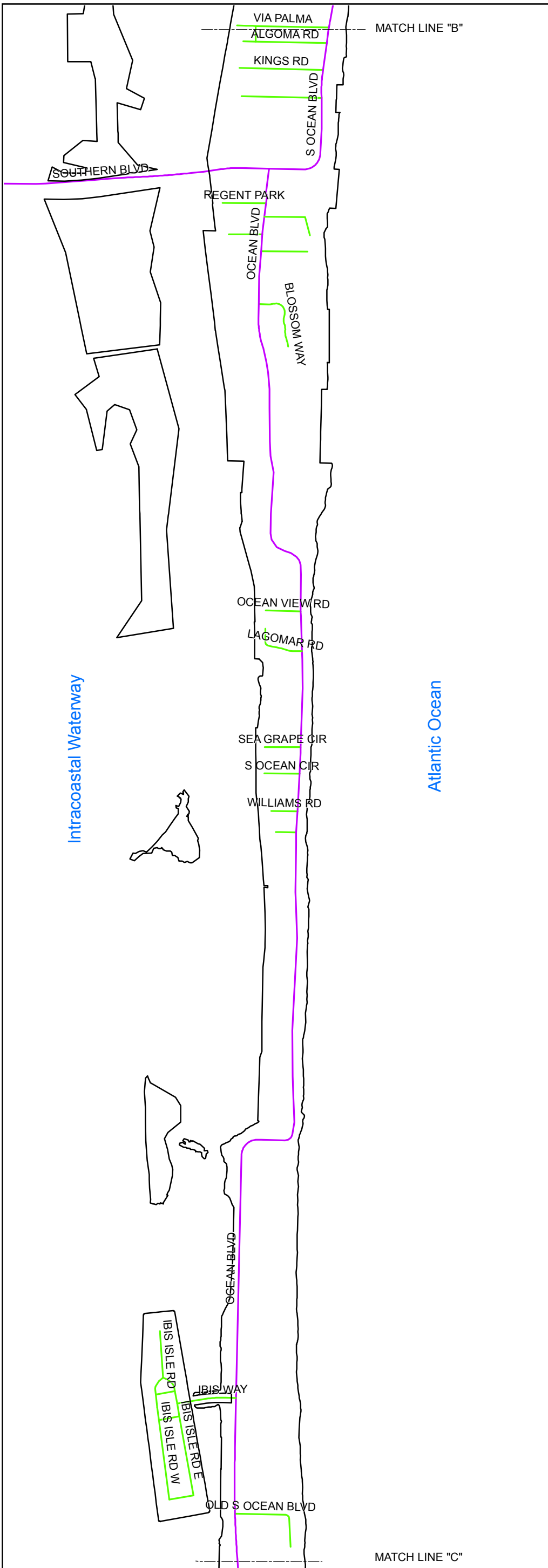
TOWN OF PALM BEACH FUTURE FUNCTIONAL CLASSIFICATION MAP 2027
Planning, Zoning & Building Department

- DIVIDED MAJOR ARTERIAL
- UNDIVIDED COLLECTOR
- UNDIVIDED MAJOR ARTERIAL
- LOCAL ROADS



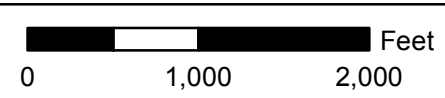
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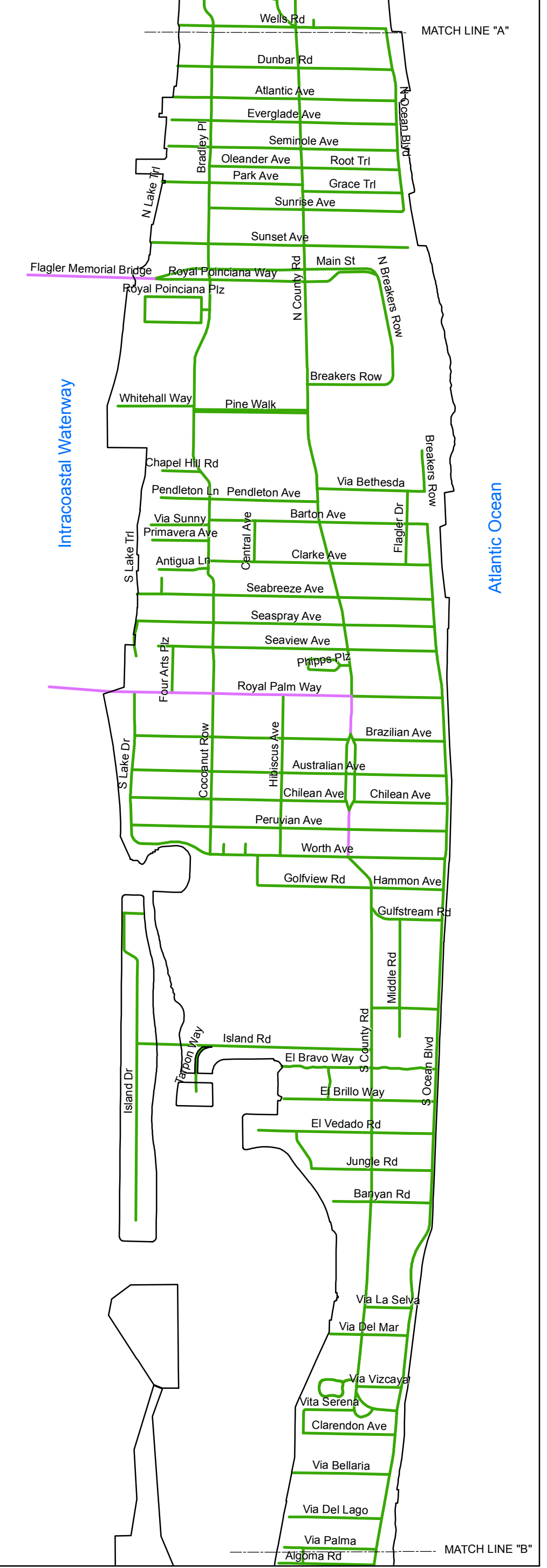
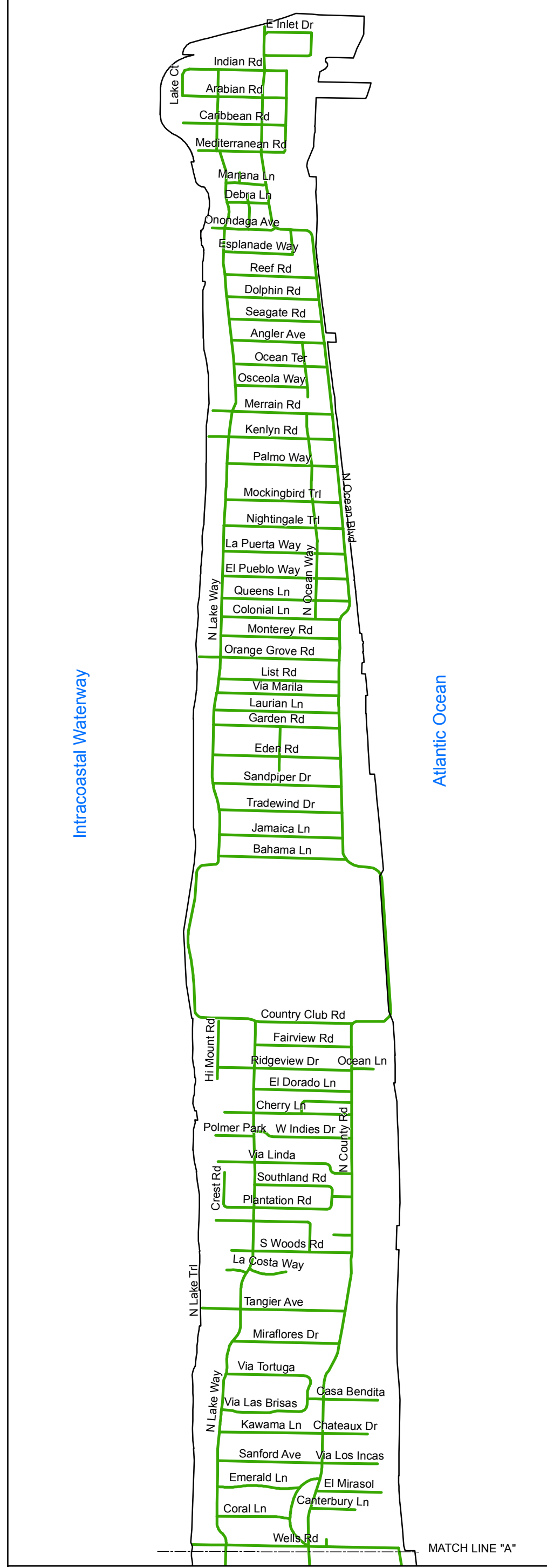
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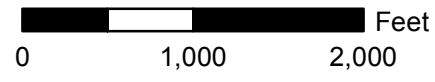


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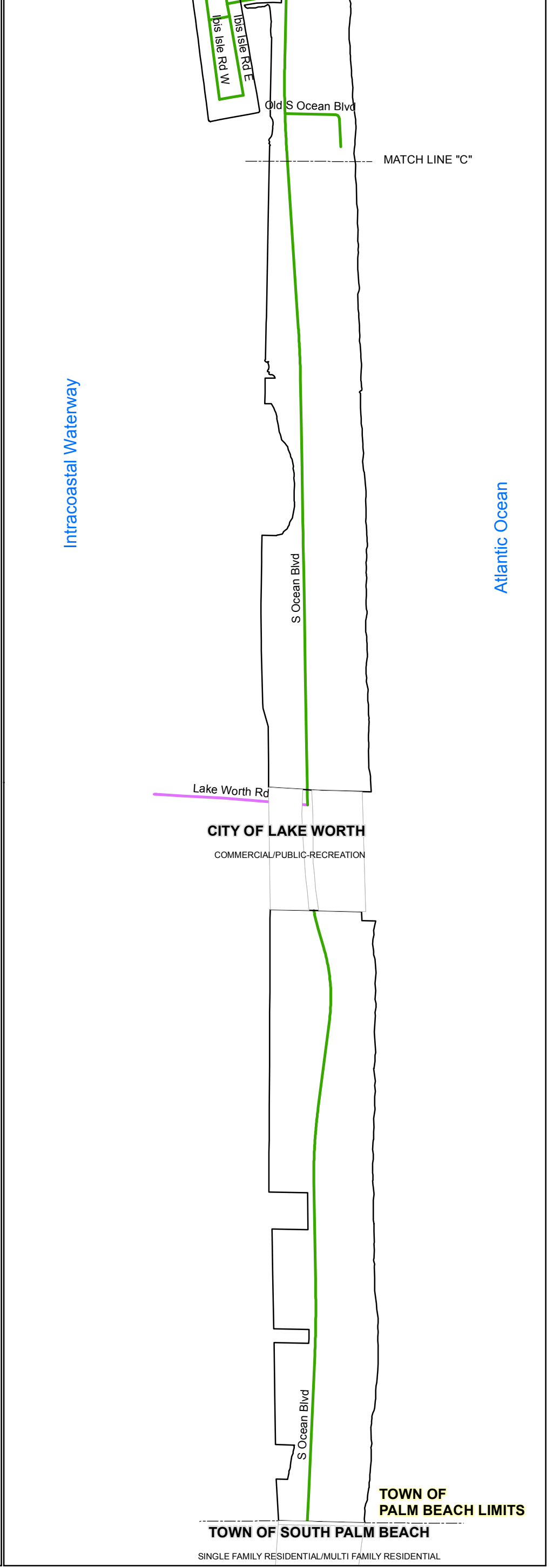
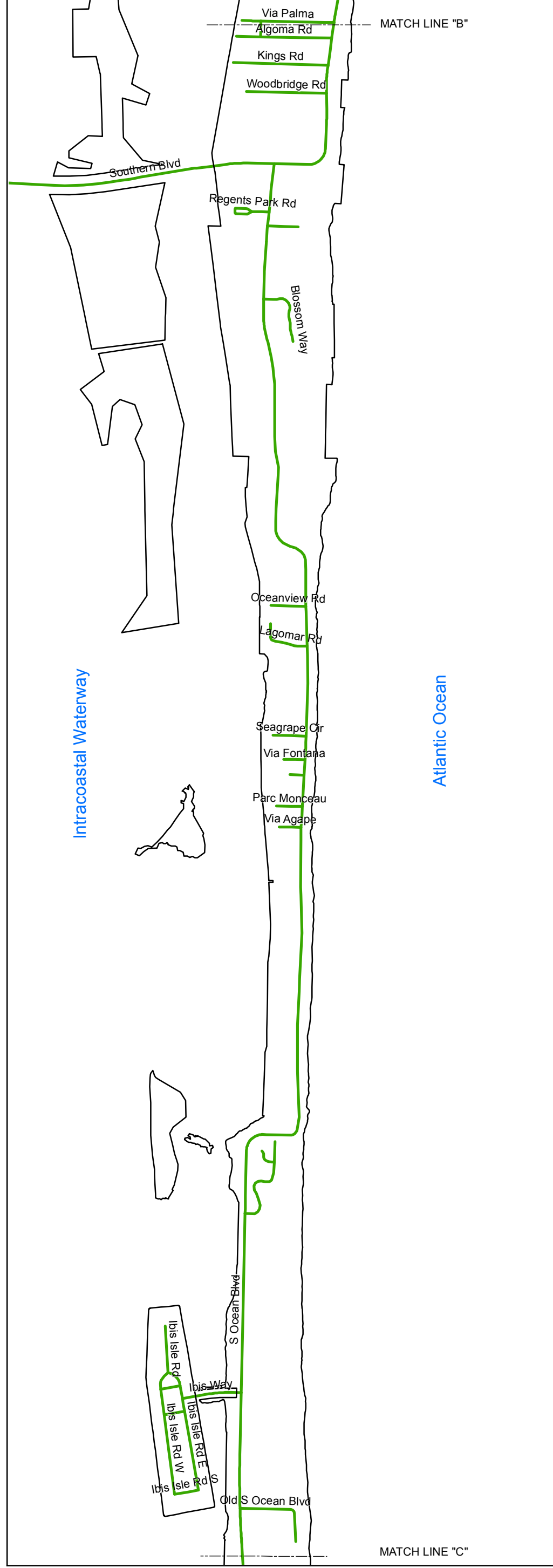
TOWN OF PALM BEACH FUTURE ROADWAY NUMBER OF LANES MAP 2027
Planning, Zoning & Building Department

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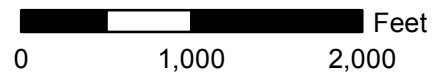
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TOWN OF PALM BEACH FUTURE ROADWAY NUMBER OF LANES MAP 2027
Planning, Zoning & Building Department

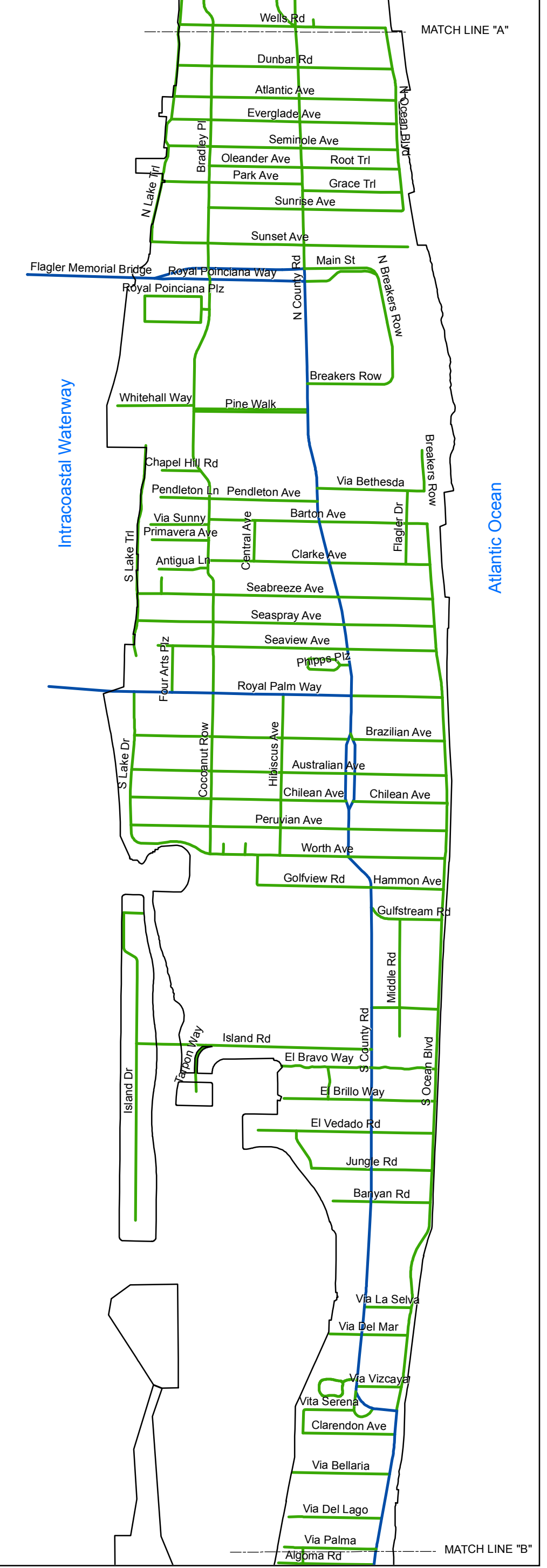
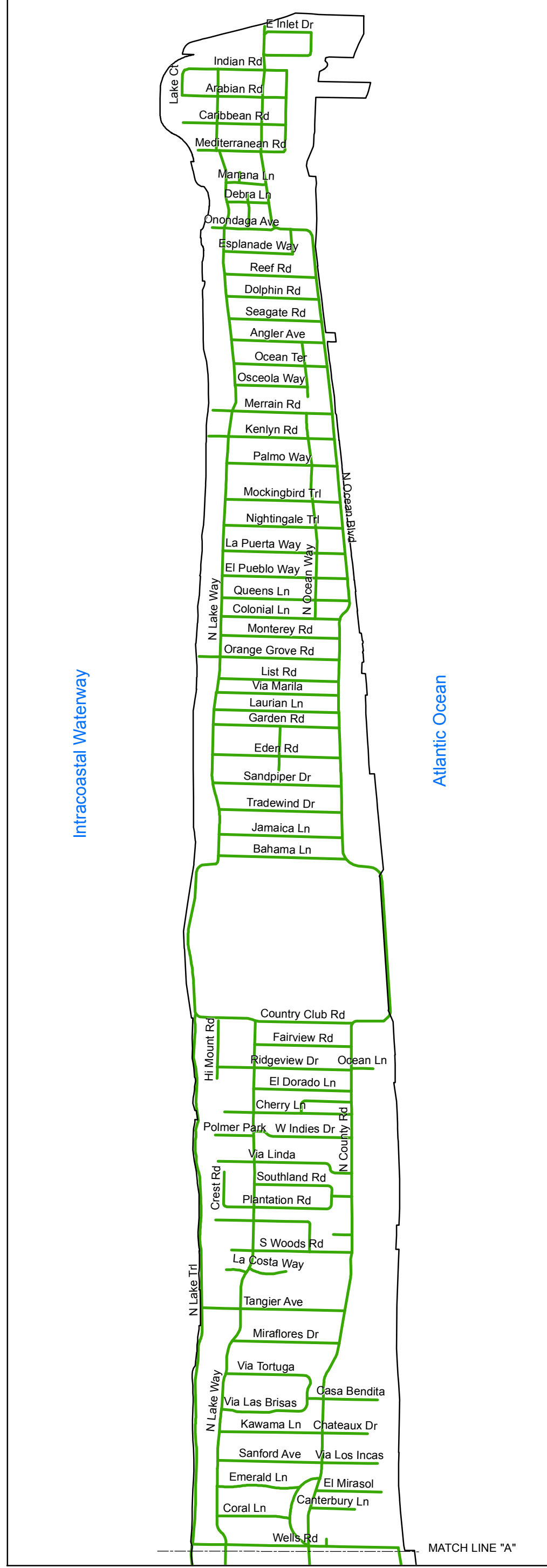
— 2 LANES
 — 4 LANES



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 Planning, Zoning & Building Department
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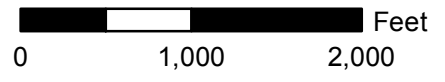


MAP II - 1



TOWN OF PALM BEACH FUTURE ROADWAY RESPONSIBILITY MAP 2027
Planning, Zoning & Building Department

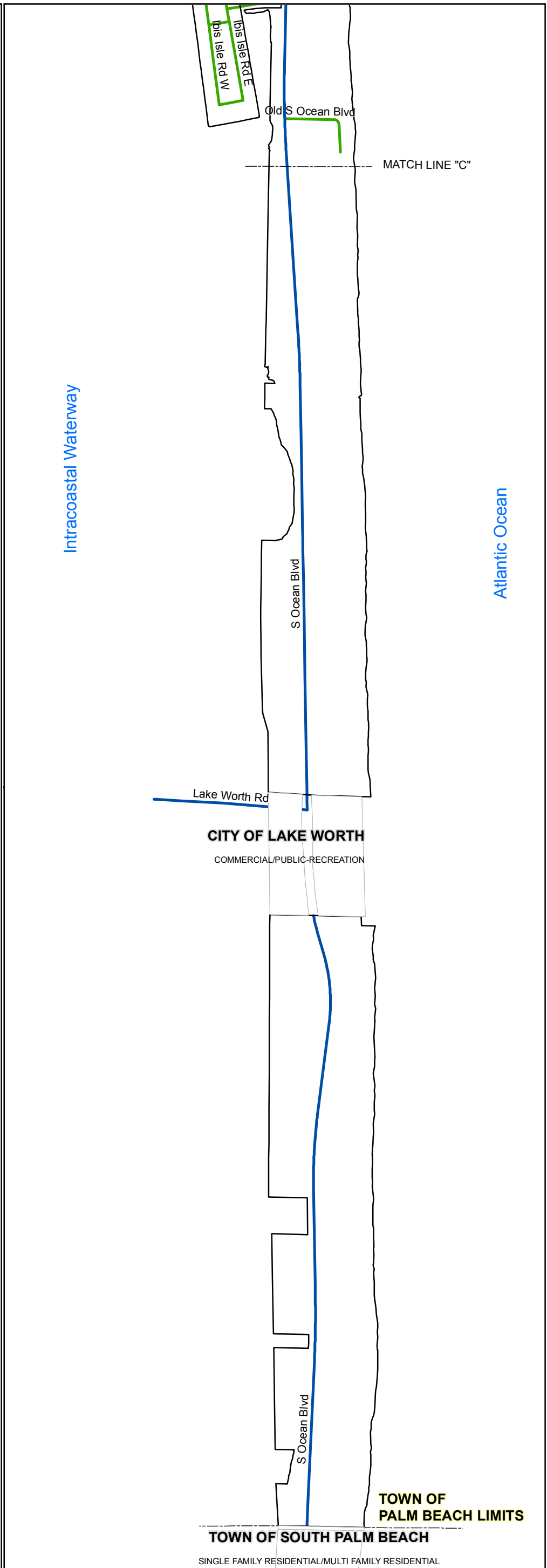
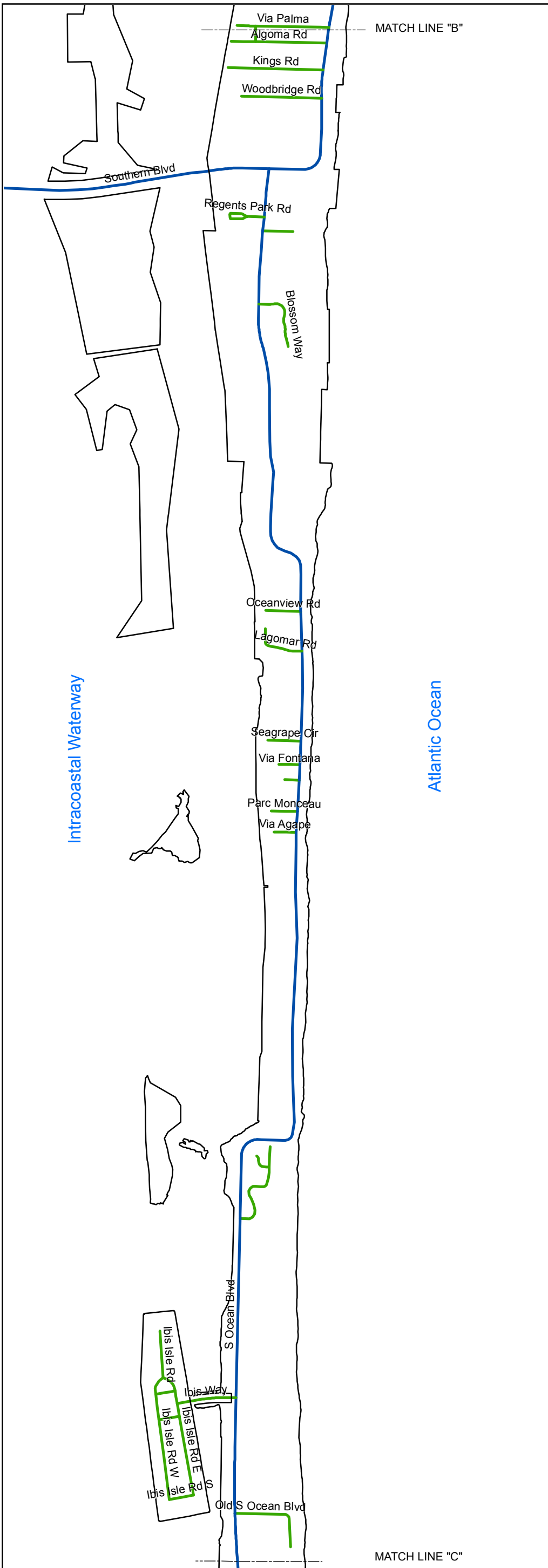
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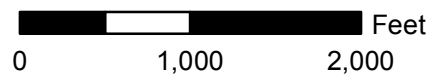


MAP II - 1



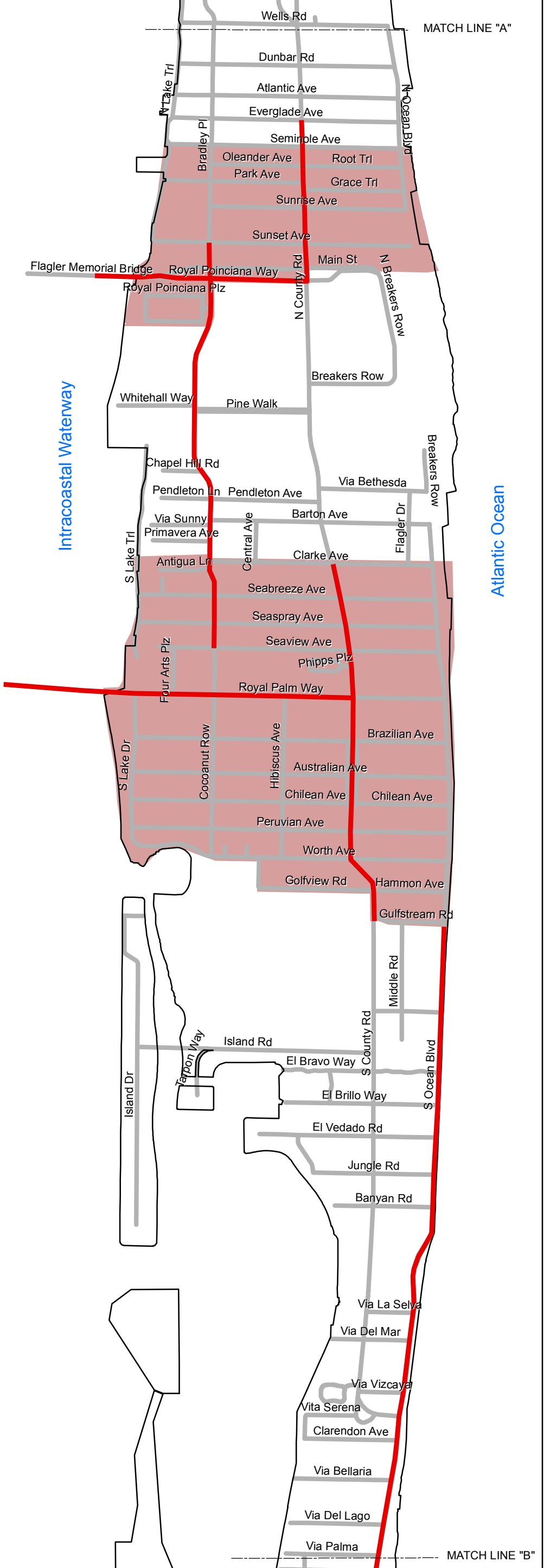
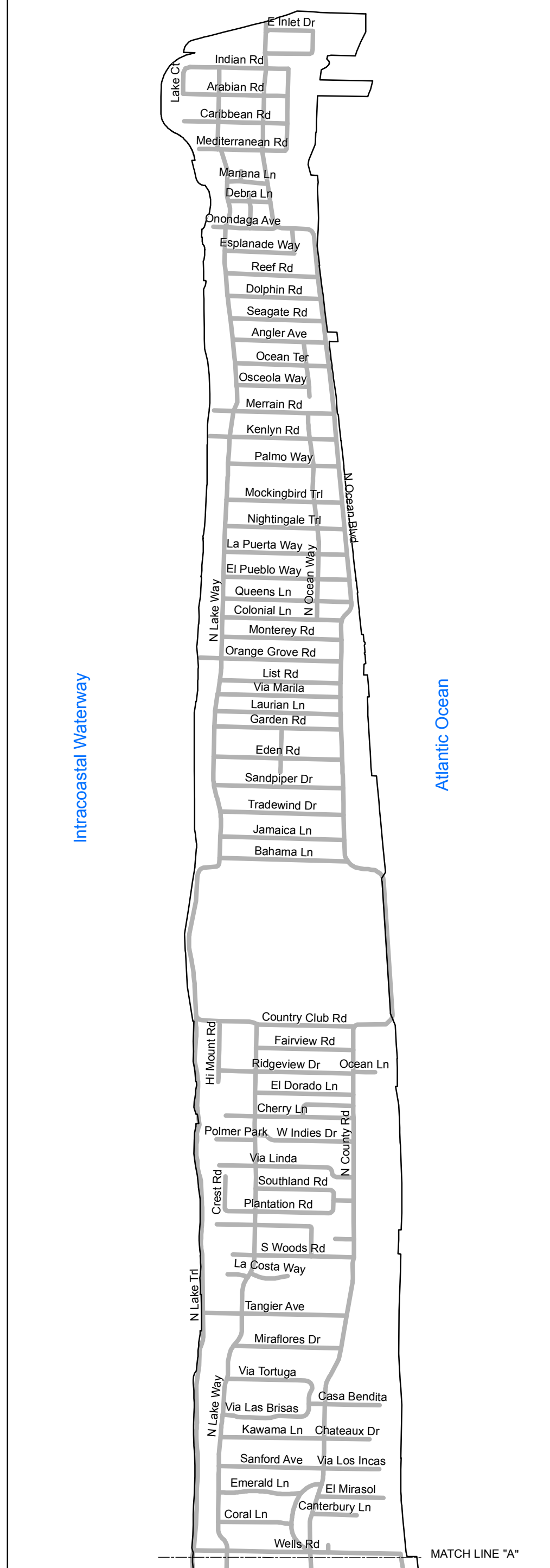
TOWN OF PALM BEACH FUTURE ROADWAY RESPONSIBILITY MAP 2027
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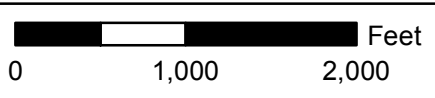
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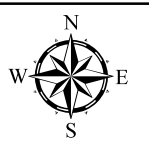


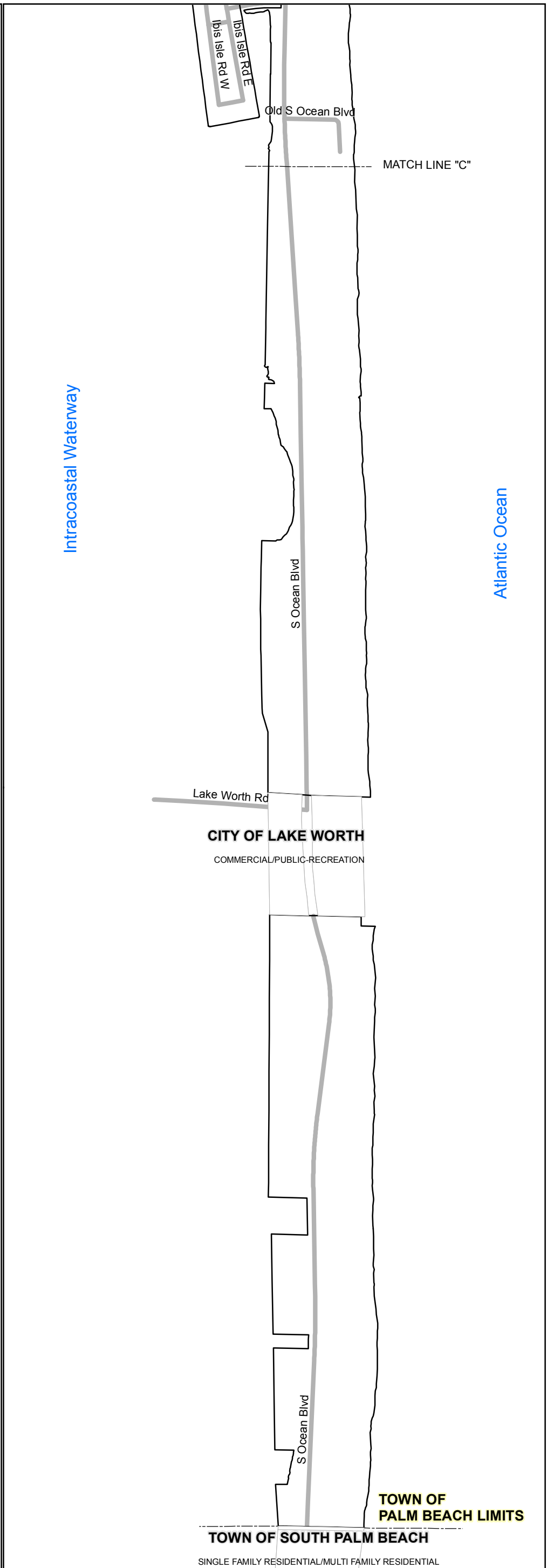
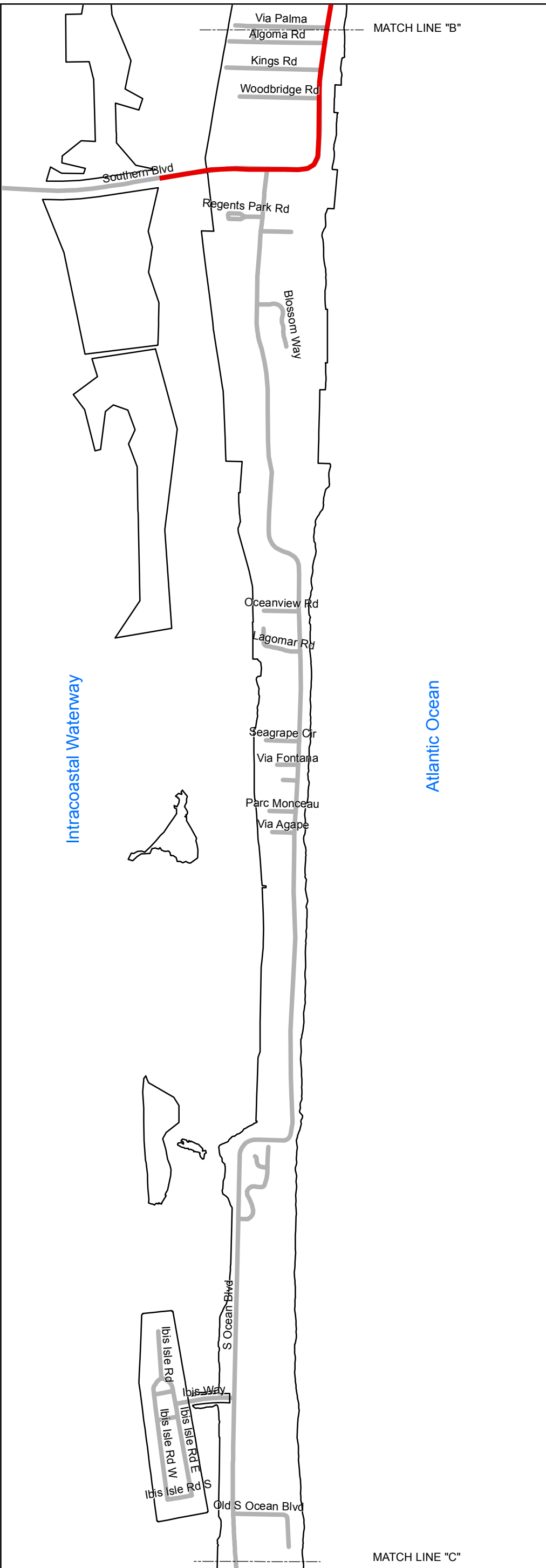
TOWN OF PALM BEACH TRAFFIC & PARKING AREAS MAP - 2017
Planning, Zoning & Building Department

- SEASONAL TRAFFIC PROBLEMS
- SEASONAL PARKING & RELATED PROBLEMS



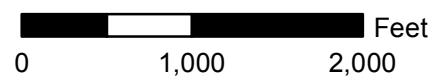
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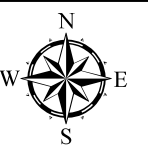


TOWN OF PALM BEACH TRAFFIC & PARKING AREAS MAP - 2017
Planning, Zoning & Building Department

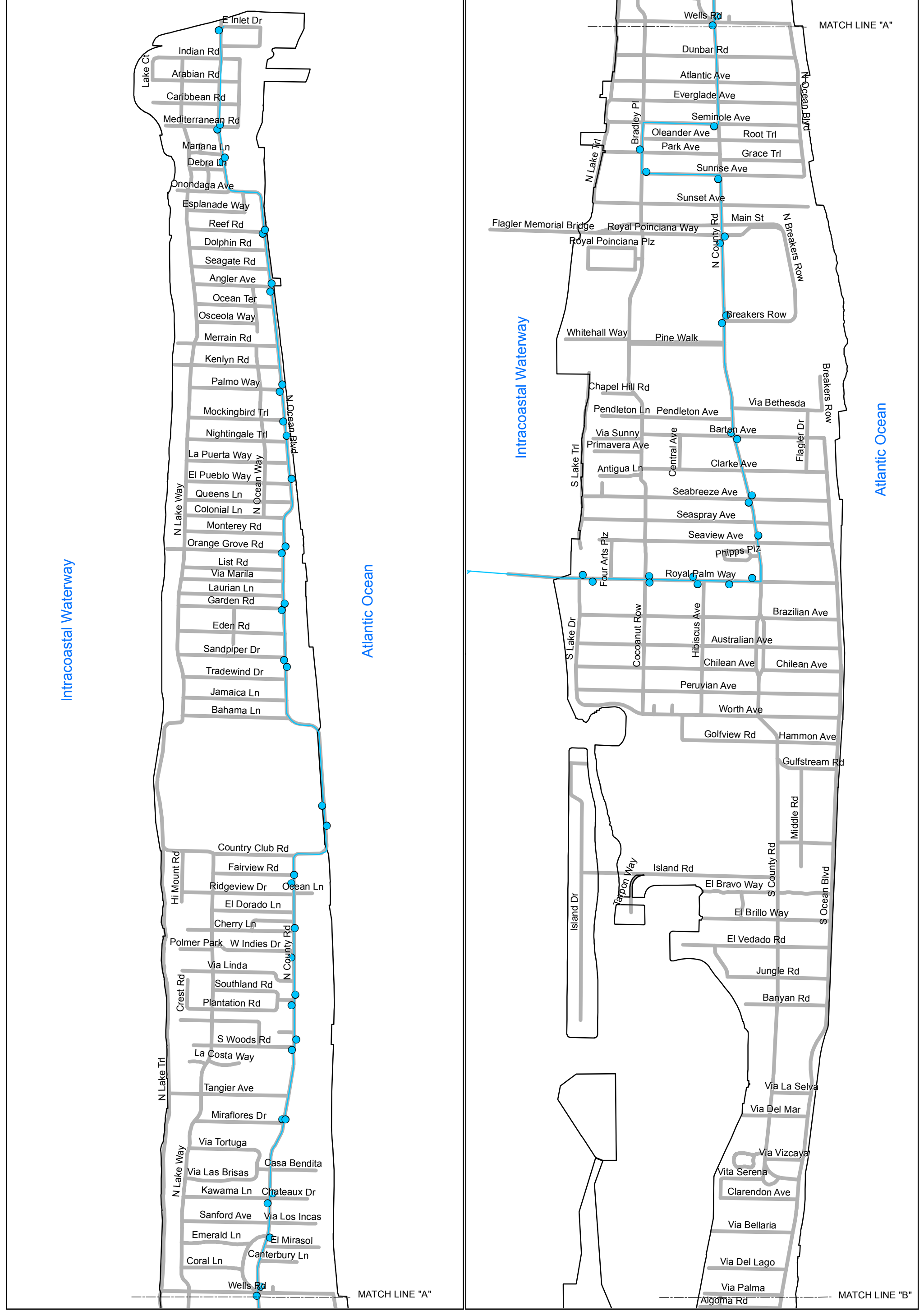
- SEASONAL TRAFFIC PROBLEMS
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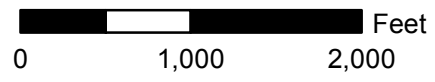


MAP II - 2



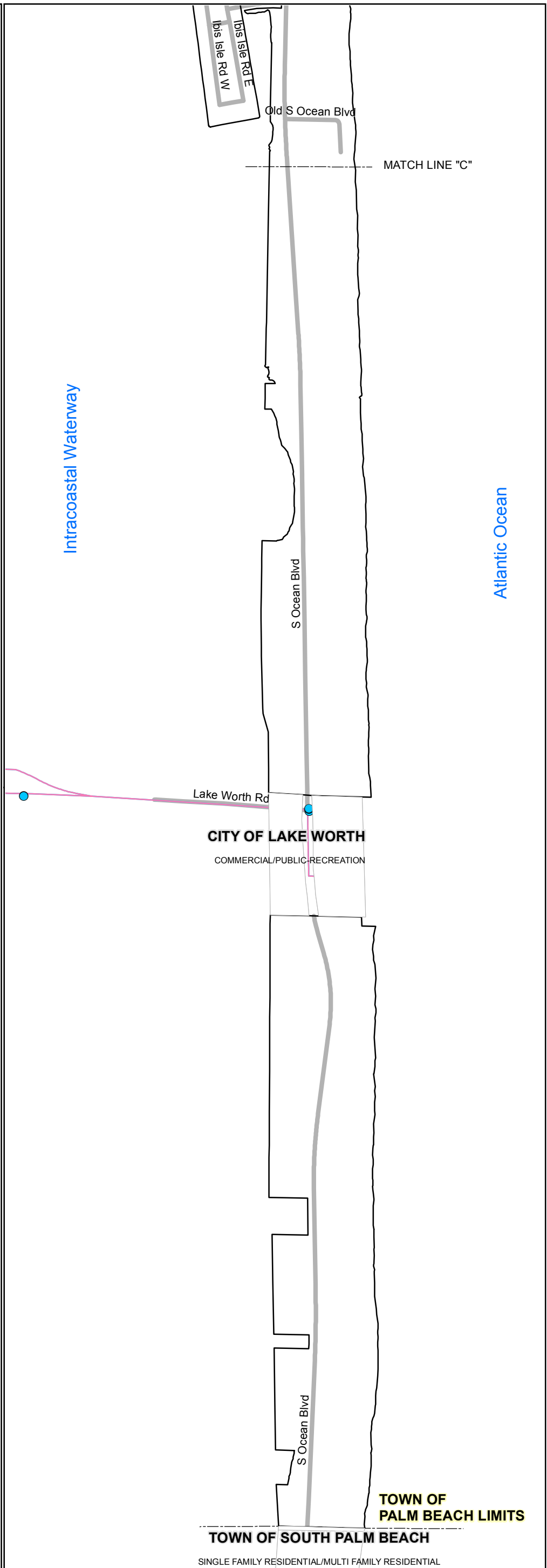
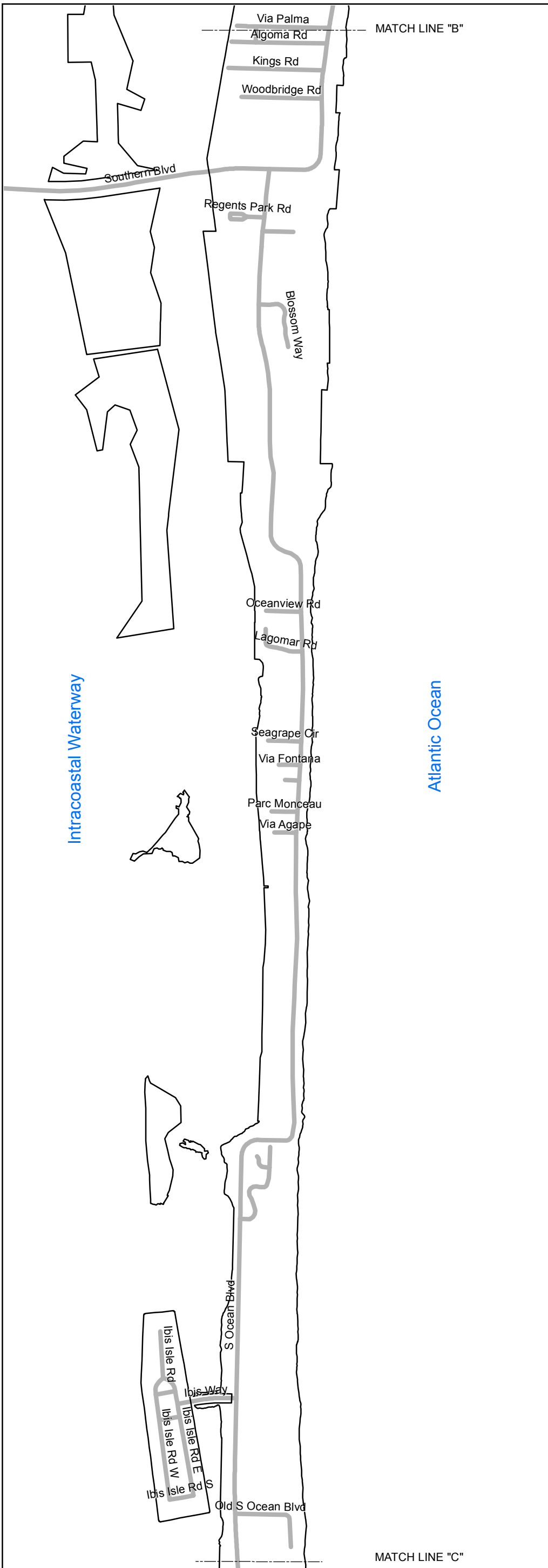
TOWN OF PALM BEACH EXISTING PUBLIC TRANSIT MAP - 2017
Planning, Zoning & Building Department

- BUS STOPS
- BUS ROUTE #62 (SUNDAYS ONLY)
- BUS ROUTE #41



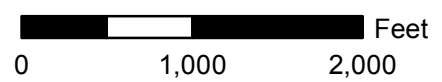
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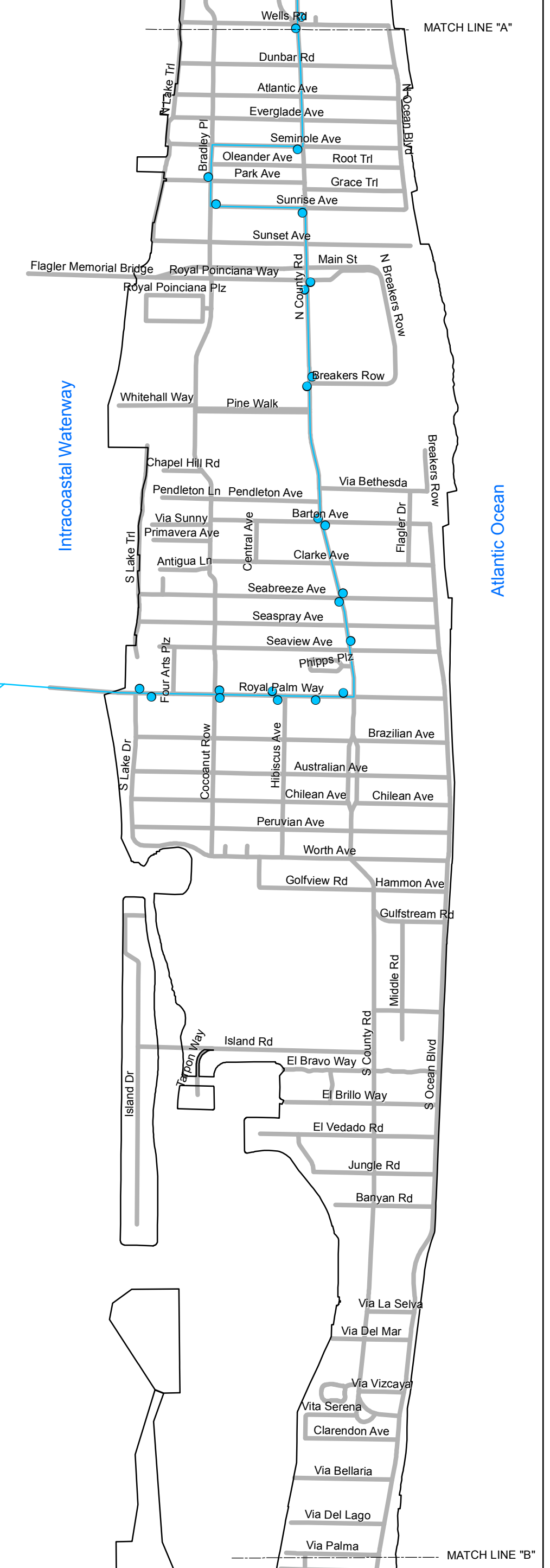
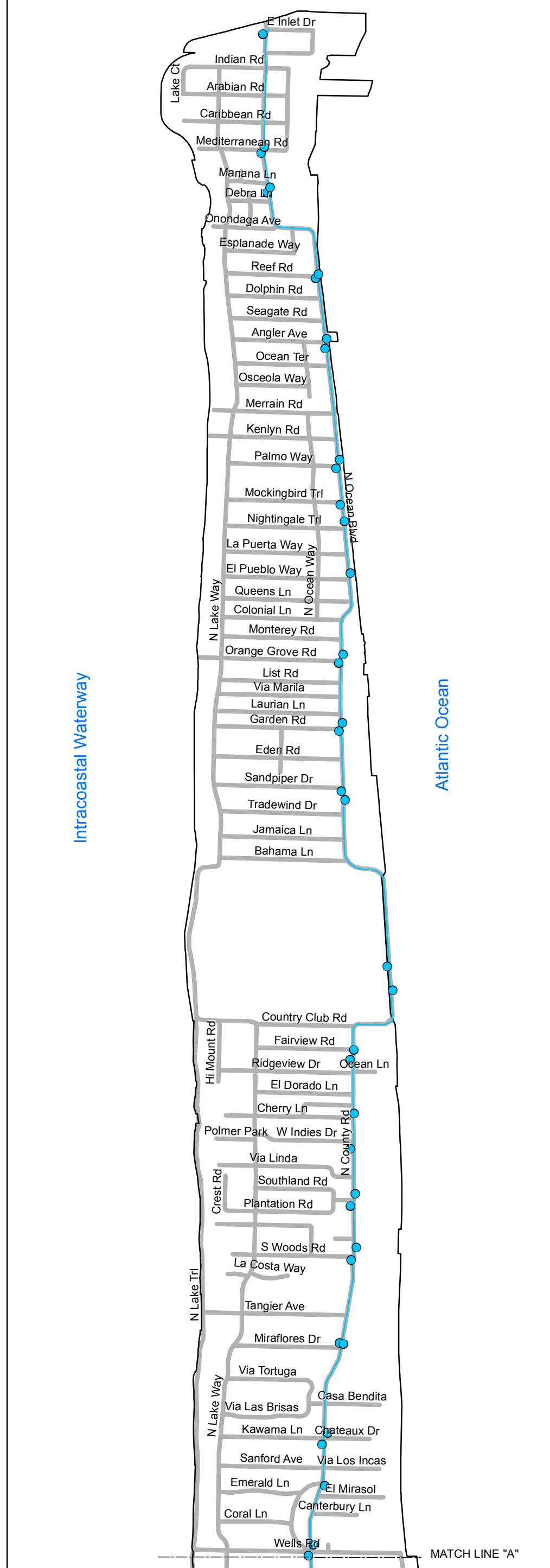
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Planning, Zoning & Building Department

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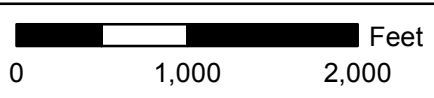
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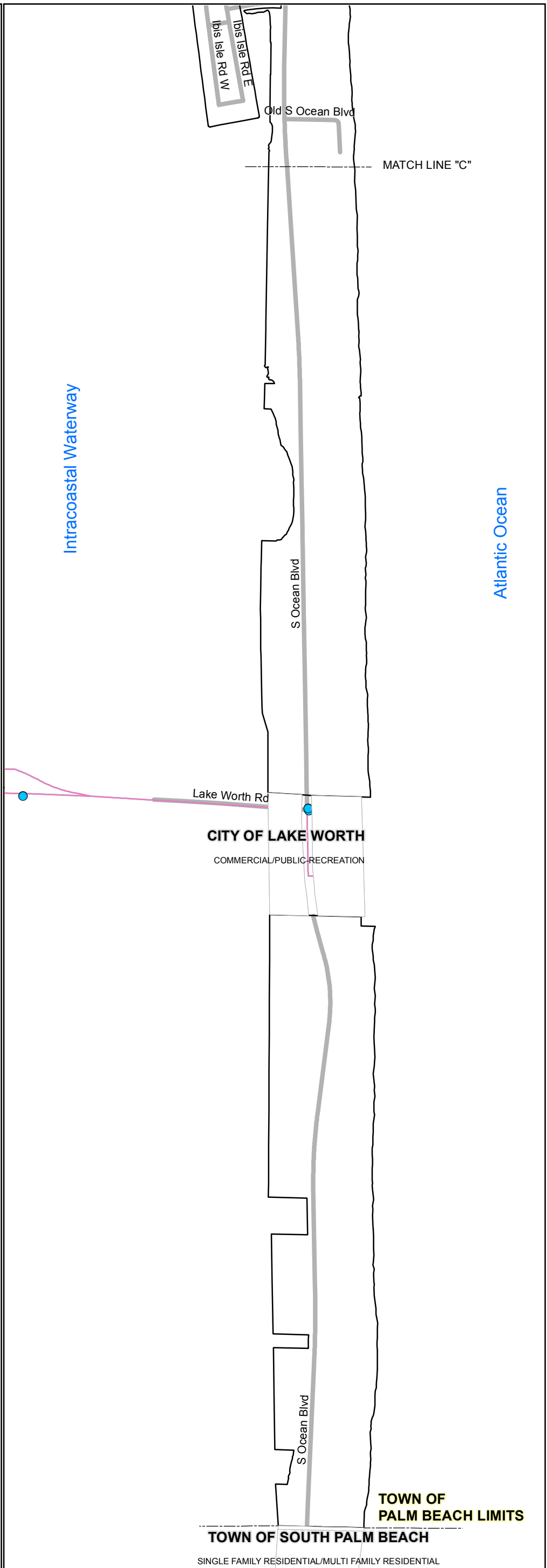
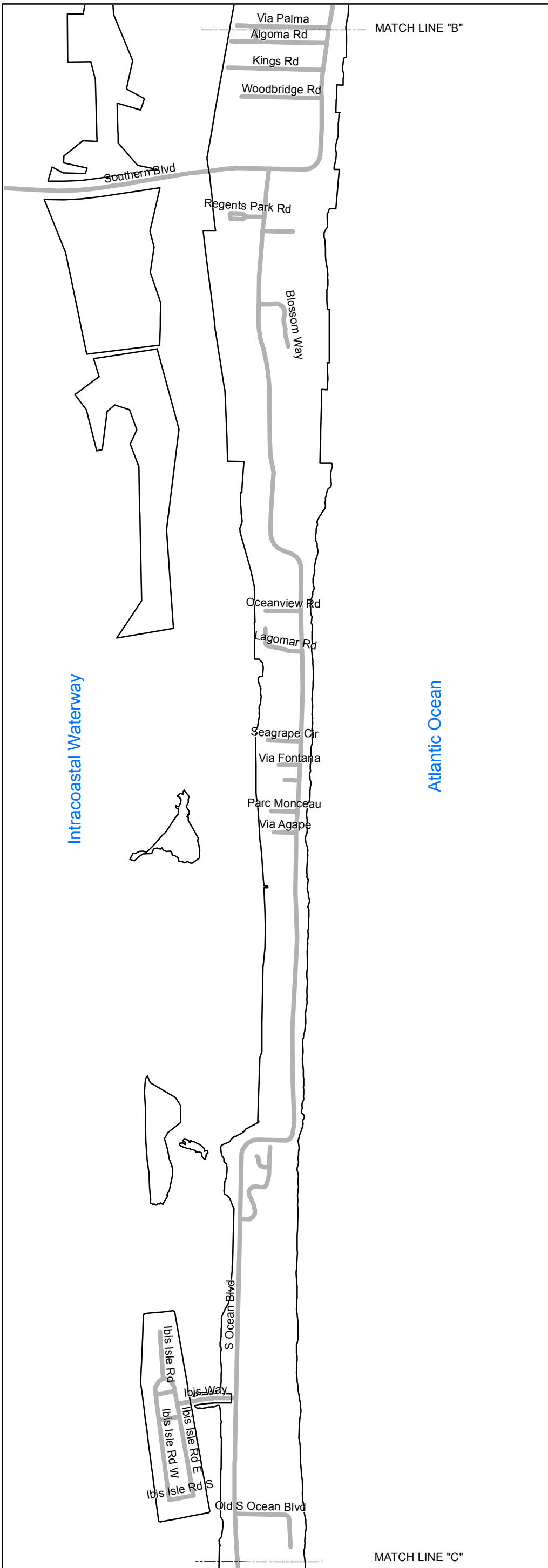
TOWN OF PALM BEACH FUTURE PUBLIC TRANSIT MAP - 2027
Planning, Zoning & Building Department

- BUS STOPS
- BUS ROUTE #62 (SUNDAYS ONLY)
- BUS ROUTE #41



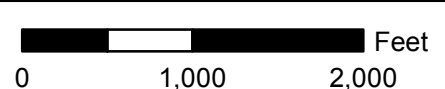
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HOUSING ELEMENT

INTRODUCTION

This Element has been prepared to meet the requirements of the Florida Community Planning Act. It includes: goals, objectives and policies; inventories of existing housing and its condition; inventories of subsidized housing, group homes, and historically significant housing; and, projections of population, households and housing need.

This Element of the Plan has been developed based upon:

1. Analysis of information about the Town's housing inventory and its characteristics provided by the U.S. Census Bureau, Palm Beach County and the University of Florida's Shimberg Center, and compared to Countywide statistics, as appropriate;
2. Analysis of information pertaining to housing and the built-out status of the Town with relatively little redevelopment potential;
3. Analysis of the extent of housing need of anticipated populations in the community, the need for replacement housing, and maintenance of existing housing;
4. Analysis of the amount of land necessary, if any, to accommodate total estimated housing need;
5. Analysis of the part of the housing need that can be expected to be met by the private sector and the private sector housing delivery process.

EXECUTIVE SUMMARY

COMMUNITY CHARACTER, GROWTH, HOUSING INVENTORY, AND VACANCY RATES

The Town of Palm Beach is unique in many ways, and its role has changed over the years. Initially, it was the principal urban settlement in the County; now it is a community of special character, with activities and economics quite different from those of the remainder of the County. Housing in the Town is, therefore, also unique in that the housing problems typical in many areas are not evident in the Town of Palm Beach. In fact, the statistical evidence of any housing problem is very slight - noticeable only when contrasted with the overall housing quality for which the Town of Palm Beach is so well known.

The Town of Palm Beach experienced its greatest growth between 1950 and 1970, when its resident population increased from 3,886 to 9,086. Since then, population growth has been less dramatic and recently has been declining. The 2010 U.S. Census indicated that the Town's population was 8,161. Estimates by the University of Florida place the 2016 ~~2005~~ population at 8,040. Future growth will be limited by the small amount of vacant land available for development and limited redevelopment opportunities left in the Town.

During the winter season, November through April, the Island's population swells to a peak ~~double~~ that is higher than ~~of~~ its normal residential population as a result of the influx of seasonal residents and tourists. Following is a table representing the latest housing characteristics of the Town:

TABLE 3
RESIDENT POPULATION & HOUSING CHARACTERISTICS
2010 – 2025

CHARACTERISTIC	2010	2016	2025
RESIDENT POPULATION	8,161 ¹	8,040 ³	8,425 ⁴
POPULATION PER HOUSEHOLD	1.74 ²	N/A	N/A
ALL HOUSING UNITS	8,857 ¹	N/A	N/A
Occupied year-round units	4,690 ¹	N/A	N/A
Seasonally vacant or held for occasional use	3,627 ¹	N/A	N/A
Vacant for Sale or Rent	540 ¹	N/A	N/A

Source: ¹2010 U.S. Census corrected figure; ²2010 U.S. Census; ³Univ. of Florida, Bureau of Economic and Business Research,

⁴Palm Beach County, 2015

From October 2011 through August 2016, the Town issued 159 building permits for construction of new single-family residential dwelling units, and 160 permits for demolition of single-family residential dwelling units. There has been no net gain in single-family residential dwelling units in the Town in the last five (5) years.

According to the U.S. Census, there were 8,857 dwelling units in the Town in 2010. Of the total dwelling units, 4,184 (47.2%) units were vacant of which 39.9% (approximately 3,534) units were vacant and considered used for seasonal, recreational, or occasional use and the other 7.3% were either for sale, for rent, or other vacant.

Based on the U.S. Census 2010-2014 American Community Survey, Multi-family units represented 72.2% of the Town's housing inventory during this timeframe; the remainder were single-family structures. There are no mobile home dwelling units in the Town.

The 2010 U.S. Census found that 86.3% of occupied units were owner-occupied within the Town of Palm Beach. Homeownership rates are higher in the Town of Palm Beach than in Palm Beach County which had a 71.4% owner-occupied rate in 2010.

While over 63% of the housing units in the Town were constructed since 1960, a significant percentage was built prior to 1940 – 19.2% compared to only 1.6% throughout the County as a whole. Many of the older structures have been identified by the Town and the State as having historical and architectural significance, and have been designated as historic structures.

Since the Town is fortunate in having no serious housing problems, the Town's program takes a different focus from that employed in a community beset with such problems. The Town's challenge is to maintain, in good and sound condition, its existing housing stock.

HOUSING COSTS

Housing costs and land values in Palm Beach are very high compared with other areas of the State. This is because of the unique character of development having taken place in the Town since its inception. The limited amount of developable vacant land ensures the continuation of high housing costs in the Town.

Based on the U.S. Census 2010-2014 American Community Survey, the estimated median monthly rental rates in the Town was \$1,259 compared to \$1,158 in Palm Beach County. Whereas the median estimated value of owner occupied units in Palm Beach County during the timeframe was \$194,600, it was \$931,700 in the Town of Palm Beach.

SPECIAL HOUSING TYPES

There are no subsidized rental housing projects or group homes licensed by the State in the Town.

The Town has identified and surveyed 1162 sites which are listed on the Florida Site File which is maintained by the Florida Department of State, Division of Historical Resources. The Town has designated 320 landmarks as of May 2017.

The Town has an active Landmarks Preservation Program established through Ordinance No. 1-79, and amended Ordinance 2-84, and has a Landmarks Preservation Commission for the purpose of establishing, regulating, preserving, and protecting historic districts and landmark structures within the Town of Palm Beach. As of May 11, 2017, the Town has designated 320 landmarked sites and landmarked 12 vistas and districts which are protected by Ordinance 2-84, as amended.

HOUSING NEED

Present vacancy rates are adequate to provide reasonable opportunity for housing choices.

Substandard housing is nonexistent, and no units are expected to deteriorate to a dilapidated state requiring demolition during the planning period. Therefore, no replacement housing will be necessary. Similarly, there are no rural or farm worker households in the Town, nor are any expected in the future.

There is no readily available information on the number of handicapped households in the Town. However, the Town adheres to the State Code regarding provision of facilities for the handicapped.

Since the Town's population is projected to remain steady or increase slightly over the next 10-year planning period, the existing housing supply should be adequate to handle the housing needs of the community. Renovation and redevelopment of existing housing units is expected to continue.

THE PRIVATE SECTOR AND HOUSING SUPPLY

Palm Beach is recognized as a high cost housing area. In 2014 the average just value of a single-family home in Palm Beach was \$4.8 million and the average just value of a multi-family home was \$584,977. No rental housing is expected to be constructed, nor any housing valued below \$150,000. Current trends in the Town have included the combination of smaller lots into larger properties as well as larger estates being subdivided. Another trend has been the combination of condominium units into a larger unit through a unity of title.

THE HOUSING DELIVERY SYSTEM

The housing delivery system is comprised of two principal components. The public sector has varying control over the availability of land, provision of utilities and infrastructure, and regulation of land uses through zoning, subdivision regulations and environmental restrictions. The private sector's primary responsibilities lie in the areas of financing and construction.

The Town provides the public infrastructure necessary to support varying types of housing. Similarly, it has designated a variety of density levels and land use types throughout the Town in order to provide for housing of differing types and prices. However, with virtually no residential land in the Town left undeveloped, there is little the Town can do to provide for additional housing.

While the Town has imposed certain restrictions and requirements on development, including housing, these are necessary in light of the environmental fragility of a barrier island and to preserve the unique character of the Town. For example, open space and landscape requirements may affect the cost of housing, but are necessary to achieve the community's objectives in other Plan Elements. In this greater context, none of the Town's land development regulations are seen to have any significant adverse effects upon the provision of housing in the Town.

The private sector has always proven capable and efficient in the development of land and provision of financing for housing in the Town. Since the amount of development expected to occur over the planning period is relatively minor, no problems are foreseen in the housing delivery process and no specific improvements have been identified as necessary to increase its efficiency.

RECOMMENDATIONS

Chapter 163.3177(f) F.S. requires that the means for accomplishing the following objectives be included in the Plan.

1. Provision of housing with supporting infrastructure for all current and anticipated residents;

The Town has provided, and will continue to provide, an adequate level of infrastructure to support the current and anticipated populations.

It has been shown that provision of housing for low and moderate income households has historically been provided by the private sector through both the open market and provision of on-site housing for domestic employees. It has been shown that the private sector is providing, and will continue to provide, adequate housing for its existing and anticipated low and moderate income households.

The Town will continue to allow, and encourage, provision of on-site living accommodations for domestic employees.

2. The elimination of substandard housing conditions and for the structural and aesthetic improvement of housing;

There is no significant amount of substandard housing in the Town of Palm Beach, nor is existing housing likely to deteriorate to substandard condition during the planning period. The Town has a Code Enforcement Board and staff assigned to enforcement of the Town's Code of Ordinances, as well as an Architectural Commission which is charged with ensuring the continuance and improvement of the aesthetic and architectural character of structures in the Town. In addition, 315 structures are afforded protection via the Landmarks Preservation Ordinance which established a Landmarks Preservation Commission to regulate changes to "Landmarked" structures and protects them from "demolition by neglect."

3. The provision of adequate sites for future housing; including affordable workforce housing, and housing for low, very low, and moderate income families, and for mobile homes:

Item 1, previous, describes the Town's method of providing housing for low and moderate income households. This same source of housing will provide the sites necessary to address the housing needs of low and moderate income households in the Town.

However, beyond the ability of the private sector to provide on-site locations for housing for its domestic and maintenance help, the unique character of the Town's land uses, lack of vacant land and the economic realities regarding the cost of land in the Town, will likely prevent provision of additional sites for new construction of rental and for sale housing for low and moderate income housing in the Town.

The economic reality in the Town is that land costs are so high, and the remaining land so limited, that new construction of rental and for sale housing specifically targeted to the low and moderate income segment is not possible. However, previous data and analysis have clearly shown that more than the needed number of affordable housing units are provided for low and moderate income households in the Town.

Since the Town is virtually fully developed, with only scattered vacant lots available for new construction of residential units, there are no individual locations which have been specifically designated for manufactured housing. Consequently, the Town allows manufactured housing in all of its residential zoning districts. All manufactured housing units must meet all of the housing standards of the Town of Palm Beach including adherence to hurricane protection codes and architectural review.

4. The provision of adequate sites in residential areas or areas of residential character

for group homes and foster care facilities licensed or funded by the Florida Department of Health and Rehabilitative Services;

The Town allows group homes and foster care facilities licensed or funded by the Florida Department of Health and Rehabilitative Services, housing up to six persons (Chapter 419, F.S), in its lower density residential zoning districts; and allows such uses without limitation as to the number of persons in its higher density residential districts. The Town has adopted principles and criteria to guide the location of such facilities in the Town.

5. The identification of historically significant and other housing for purposes of conservation, rehabilitation or replacement.

Palm Beach has no concentrations of deteriorating housing. The socio-economic profile of Palm Beach suggests that Town residents are unlikely to allow existing housing stock to deteriorate.

There are a large number of residential structures of historical or architectural significance in Palm Beach. The Town's Historic Structures survey has been updated to include structures not previously surveyed and a protection process has been developed which will be used by the Landmarks Preservation Commission to evaluate and designate other sites and/or structures.

GOALS, OBJECTIVES AND POLICIES

GOAL

ENCOURAGE THE MAINTENANCE OF THE HIGH QUALITY HOUSING STOCK THROUGHOUT THE TOWN WITH A HEALTHY LIVING ENVIRONMENT FOR ALL RESIDENTS.

OBJECTIVE 1

Assist in providing opportunities for affordable housing in sound structural condition for the current resident and seasonal population.

POLICY 1.1

Provide information and technical assistance, upon request, and assist with the design process on new construction and rehabilitation projects through the Architectural and Landmarks Preservation Commissions for the resident and seasonal population.

OBJECTIVE 2

Prevent the Town's housing stock from deteriorating to a substandard condition. The measurement of this objective is the extent to which deterioration of the housing stock is prevented, and the degree to which the following policies are implemented.

POLICY 2.1

As needed, the Town shall conduct a windshield survey of structural conditions of housing throughout the Town.

POLICY 2.2

If structural deficiencies are found, the Town will cite the property owner and require rehabilitation of a deteriorating structure, or demolition of a dilapidated structure, within one year.

OBJECTIVE 3

The Town shall permit the location of manufactured housing in all residential districts throughout the Town.

POLICY 3.1

The Town's land development regulations shall continue to allow manufactured housing as a permitted form of construction in all residential zoning districts.

POLICY 3.2

The Town shall include the following definition of manufactured housing in its land development regulations:

"A structure, transportable in one or more sections, which, in the traveling mode, is eight body feet or more in width, or panels, and which is built on a frame and designed to be used as a dwelling with a permanent foundation and connected to all required utilities, and may include plumbing, heating, air conditioning, and electrical systems contained therein. If fabricated after June 15, 1976, each section shall bear a U. S. Department of Housing and Urban Development label certifying that it is built in compliance with the federal Manufactured Home Construction and Safety Standards."

POLICY 3.3

The Town's guidelines for the location of manufactured housing shall be the same as for conventionally built homes in that they;

- a. Must comply with all Town building codes, hurricane wind velocity codes, and U.S. Department of Housing and Urban Development Body and Frame Construction Requirements as applied to hurricane resistive design standards; and,
- b. Shall be subject to the review of the Architectural Commission and Landmarks Commission as provided in the Town's Code of Ordinances.

OBJECTIVE 4

The Town shall permit the placement of a community residential home within its residential zoning districts in accordance with Chapter 419, F.S.

POLICY 4.1

The Town shall continue to allow a community residential home, as defined by Chapter 419, F.S., provided no other community residential homes are within the Town in which the proposed site is to be located within a radius of 1,000 feet of an existing or proposed community residential home.

OBJECTIVE 5

The Town shall prevent increases in the number of substandard housing units through rehabilitation or demolition of such housing within one year of its identification. The measurement of this objective is the extent to which such housing is identified and rehabilitated, and the degree to which the following policies are implemented.

POLICY 5.1

Substandard structures shall be determined on the basis of the criteria established in Section 12-16 (Article II, Obnoxious Conditions on Private Property) of the Town's Code of Ordinances.

POLICY 5.2

As needed, the Town shall conduct a windshield survey of structural conditions of housing throughout the Town.

POLICY 5.3

If obnoxious conditions or structural deficiencies are found, the Town will cite the property owner, and require rehabilitation of a deteriorating structure, or demolition of a dilapidated structure, within one year.

OBJECTIVE 6

Identify, protect and maintain the Town's inheritance of housing structures and neighborhoods having significant historic and/or architectural merit. The measurement of this objective shall be the extent to which such structures and neighborhoods are protected, and the degree to which the following policies are implemented.

POLICY 6.1

All requests for demolition, building and landscape plans shall be reviewed by either the Town's Architectural Commission or Landmarks Preservation Commission as a prerequisite to the issuance of a building permit.

POLICY 6.2

The criteria for a historically significant house shall be determined by the Landmarks Preservation Commission as outlined in Chapter 54 of the Town's Code of Ordinances.

POLICY 6.3

Housing structures which are not designated as landmarks shall be reviewed in accordance with Chapter 18 (Article III , Architectural Review) of the Town's Code of Ordinances.

POLICY 6.4

Based on a 2010 survey and analysis of Historic Structures in the Town, a listing of those structures identified in such survey shall be maintained which met the criteria for designation as "Landmark Structures" in accordance with Chapter 54 of the Town's Code of Ordinances.

OBJECTIVE 7

Although the Town does not foresee taking any actions that would displace persons from their housing, in the event such actions occur, the Town shall provide necessary relocation housing. The measurement of this objective is the provision of relocation housing as needed.

POLICY 7.1

If and when housing is eliminated by action(s) by the Town, relocation and/or assistance shall be provided by the Town as required by law (Section 421.55, FS).

OBJECTIVE 8

The Town's Housing Implementation Program shall consist of the following:

1. Provision of information and technical assistance, upon request, to developers of housing in the Town.
2. Conduct windshield surveys of structures in the Town to identify structural deficiencies.
3. Citation of owners of housing in the Town identified to be substandard, and require such owners to rehabilitate or demolish such housing within one year of the citation.
4. Allow group homes and foster care facilities, licensed or funded by the Florida Department of Health and Rehabilitative Services, housing up to six persons, in its residential zoning districts; and, follow principles and criteria to guide the location of such facilities in the Town, adopted by the Town as part of its land development regulations.
5. Continue to permit the location of on-site living quarters for domestic and maintenance help in existing and new residential units in the Town's residential

zoning district.

OBJECTIVE 9

The Town shall designate the Planning Administrator to identify housing programs and funding opportunities which may in the future become applicable to the Town, as needed.

OBJECTIVE 10

In order to continue to provide adequate sites for existing low and moderate income households in the Town, or preserve existing properties within the Town, the Town shall encourage existing methods of housing provision, and shall monitor provision of housing in the future, taking remedial measures as deemed necessary. The measurement of this Objective is the extent to which the following policies are implemented:

POLICY 10.1

The Town shall continue to permit the location of on-site quarters for domestic and maintenance help in its residential zoning districts, with preferred locations for other new housing for low and moderate income households in proximity to the Town Center and commercial areas, because of the greater availability of goods and services, both public and private.

POLICY 10.2

All amendments to the Town's Zoning Code shall be reviewed by the Town to ensure that proposed regulatory techniques and review procedures do not create barriers to affordable housing and promote access to housing within the Town by promoting fair housing laws and practices.

POLICY 10.3

The Planning, Zoning and Building Department shall monitor the availability of affordable housing, taking into consideration existing and new units, and unit losses, current land costs, hurricane evacuation times, insurance costs and other limiting factors associated with barrier island communities.

POLICY 10.4

If an affordable housing shortage is identified, the Town shall take remedial measures to address the deficiency. Amendments to the Comprehensive Plan and Land Development Regulations to implement remedial measures shall be made, as necessary.

POLICY 10.5

Priority consideration for remedial measures shall be given to the Town's senior citizens, residents, and workforce (in that order).

INFRASTRUCTURE ELEMENT

INTRODUCTION

The purpose of the Infrastructure Element is to provide for necessary public facilities and services related to future land use projections. It includes plans for sanitary sewer, solid waste, potable water and drainage facilities. Palm Beach contains no significant recharge area; still, specific standards and governmental actions geared to stabilizing water table levels in surficial deposits are addressed in this Element.

This Element of the Plan has been developed based upon:

1. Identification and analysis of the appropriate public facilities and their service areas, design capacities, and levels of service provided by each;
2. Analysis of existing conditions, problems and opportunities, and existing and projected needs for each facility; and,
3. Analysis of major natural drainage features and natural groundwater aquifer recharge areas.

While this Element is not an engineering study, it provides information essential for engineering analysis and design. Its major orientation is toward reasonable determination of existing, and future supply and demand relationships for each of the major facility areas.

EXECUTIVE SUMMARY

EXISTING AND FUTURE LAND USES

The geographic area served by the infrastructure facilities is the Town of Palm Beach, an urban, built-up area approaching saturation. These public facilities, providing service in and to the Town of Palm Beach, predominantly serve the following uses in the Town: residential, commercial, public, private group use, recreational and conservation uses. There are no agricultural or industrial uses in the Town. More detailed discussion of the patterns, and extent of land uses and land use maps, are provided in the Future Land Use Element. Because of the very limited amount of vacant land in the Town, the pattern of land uses in the future will remain essentially the same as now existing in the Town.

SANITARY SEWER SERVICES

Sewage is collected by typical gravity sanitary sewers. Many small pumping and relay stations are required because of flat terrain and the 12-mile length of the Town. Sewage leaves the Town by means of three force mains, one each in the northern, central and southern parts of Town to treatment facilities at the East Central Regional Wastewater Reclamation Facility (ECRWRF) on the mainland.

The northern force main, a 30-inch subaqueous line with a capacity of five million gallons per day (MGD), runs along Tangier Avenue and then under Lake Worth to connect to the regional plant. This force main was the primary effluent route until the new central force main was constructed which is a 24-inch subaqueous line from the Town's master pump station, that transitions to a 24-inch line along Flagler Drive that ties into the existing joint transmission force main there in West Palm Beach. The new central force main system was placed in operation in 2014. The southern main is a 16-inch subaqueous line with a capacity of 0.94 MGD connecting to the City of Lake Worth transmission system, which then connects to the regional plant. As of 2013, that southern force main is no longer used on a daily basis but is only used for emergencies or when it is necessary to bypass flow from the City of West Palm Beach system. When those situations arise, the Town has a short-term capability to send 1.7 MGD (1300 gpm) through the City of Lake Worth system. A new bulk user agreement was signed with the City of Lake Worth for those occasions when it is necessary to send flow through their subregional system.

The East Central Regional Wastewater Reclamation Facility uses secondary treatment involving a complete mix-activated sludge system. Effluent is disposed through deep well injection, and sludge is transported for disposal at the Palm Beach County Solid Waste Authority compost facility. The plant, which is owned in common by the cities of Lake Worth, Riviera Beach, West Palm Beach, Palm Beach County and the Town of Palm Beach, is operated and maintained by the City of West Palm Beach. The Town, and the four other owners of the plant, have "Large User Agreements" for treatment capacity. The Town's agreement calls for a 5 MGD allocation of plant

capacity. The Town's capacity share increased to 6 MGD, based on the reallocation due to flows no longer passing through the City of Lake Worth system.

The plant underwent an expansion which raised capacity from 55 MGD to 64 MGD. The current rated capacity is now 70 MGD. There are no deficiencies in the sanitary sewer treatment plant facilities now serving the Town.

Analysis of Town per capita wastewater flows between 2000 and 2007 indicated that total wastewater flows have decreased due primarily to rehabilitation of the gravity sewer line. With this reduction, the Town will continue to be within its 6 MGD allocation and contract.

Discussions with the Town Public Works Department and representatives of the ECRWRF indicate that at the projected peak seasonal population, the Town will remain within the levels of service for these force mains, and the ECRWRF has the capacity to provide service at the Town's adopted LOS throughout the planning period.

In September of each year the Town obtains a letter from the City of West Palm Beach certifying that the East Central Regional Wastewater Reclamation Facility has the capacity to treat the volume of wastewater projected to be generated in the Town during the peak season at the Town's adopted level of service.

The developer for each individual project is responsible for providing the Town with an estimate of the population for the project and the Town engineer determines the adequacy of available capacity of the force mains to handle the flow generated by the project.

SOLID WASTE

Solid waste pick-up and disposal service, including garbage, trash and vegetative yard trash, is provided by the Town to both residential and commercial areas.

GARBAGE

The Town provides garbage pick-up Monday through Friday. Weekend pick-up is provided to commercial establishments, such as restaurants, upon arrangement with the Town.

Commercial garbage is collected in 20-cubic yard packers, while six- cubic yard packers are used for collecting residential garbage. These wastes are then transferred to 65-cubic yard tractor trailer packers at the Pinewalk Transfer Station. This transfer station is leased to the Town on a year-to-year basis to the year 2050 by Flagler Systems, the developer of the Breaker's PUD. If the Pinewalk area is developed and no longer available, the Town will be faced with the decision of whether to purchase or lease a transfer station on the Island or mainland, or eliminate the need for a transfer station by increasing the packer fleet. However, it is probable that the Pinewalk Station will remain as is, well past the 10-year planning period.

Waste material is taken from the station in tractor trailers to the County's North County Regional Resource Recovery facility (or SWA directed facility), operated by the Palm Beach County Solid Waste Authority (SWA) under a County-wide solid waste plan.

The SWA's North County Regional Resource Recovery Facility (NCRRRF), located on Jog Road, replaced the Dyer Boulevard Landfill in 1989 and handles both sludge, from the East Central Wastewater Treatment Facility, and garbage for separation, recycling and incineration. Aluminum and ferrous materials are separated at the plant. The remaining organic materials are used as fuel for an electricity-producing turbine generator. The plant serves the entire County at a capacity of 3,000 tons per day, six days per week, for an annual capacity of 936,000 tons per year. In 2015, SWA opened a second unit, also at a capacity of 3,000 tons per day. Since the NCRRRF serves the entire County, predominant land uses served include residential, commercial, industrial, recreational, agricultural and public uses. The current inter-local agreement between the Town and SWA for solid waste and recycling has been in effect since 2009.

The Palm Beach Solid Waste Authority, which operates the NCRRRF, does not allocate any particular share of its capacity to individual users or municipalities. However, in 2006, the Town's contribution of garbage to the Jog Road landfill comprised less than 1% of the total garbage generated countywide, and will certainly not exceed this proportion during the planning period.

The NCRRRF site also contains a 350-acre landfill which is estimated to have an expected life to the year 2043 due to the opening of REF#2 in 2015. The Solid Waste Authority performs an annual review and analysis of the remaining capacity of the landfill based on the University of Florida Bureau of Economic and Business Research population projections, current waste generation rates, and the volume of landfill capacity available.

According to the County's Plan, the current Level of Service (LOS) averaged 4.28 pounds per day/capita for garbage, 2.26 for trash, and .59 pounds of recyclables for a total of 7.13 pounds per day per capita in 2006. The 2006 plan is still in place.

Florida Power and Light Company has agreed to purchase electricity produced by the plant, and the remaining ash residue will be placed in an adjacent landfill. The Town, as part of the North County Service Area, transports its garbage directly to the resource recovery plant. The Town's collection and disposal equipment are compatible with the requirements of the plant.

The SWA has implemented a public education program designed to encourage the public to separate garbage prior to pick-up. The Town implemented a separation and recycle program in 1990. Curbside collection may not be possible due to the Town's tradition of backyard pick-up.

The Town of Palm Beach's total projected volumes of garbage for an average day, and the average day during the peak month using the 1990-1994 average figures of 2.09 and 2.89 pounds per day per capita, indicate the Town should have no trouble meeting capacity demands for the duration of

the planning period, and remain within its adopted level of service of 2.55 pounds per day per capita.

Discussion with the Town Public Works Department and representatives of the NCRRRF indicates that at the projected peak seasonal population, the NCRRRF will have adequate capacity to provide service at the Town's adopted level of service throughout the planning period.

In September of each year the Town obtains a letter from the Palm Beach County Solid Waste Authority certifying that the North County Regional Resource Recovery Facility has the capacity to treat the amount of garbage projected to be generated in the Town during the peak season at the Town's adopted level of service.

Also during September, the Town Public Works Department certifies that the Town maintains adequate capacity to dispose of the amount of vegetative trash associated with the projected population. Unless annual determinations identify unexpected capacity problems, it is assumed there is adequate capacity to accommodate vegetative trash disposal associated with new development.

VEGETATIVE YARD TRASH

Vegetative yard trash is collected by the Town using twelve 30-cubic yard scow body trash trucks and three cranes. Trash is hauled directly to the Skees Road or the Okeechobee Boulevard sites in West Palm Beach, and is decomposed naturally. The Town owns and operates both sites, and neither serve any other local government jurisdictions. Predominant types of land uses served by these facilities are the residential, commercial, recreational, public and private group uses located in the Town. Pick-up service is provided once per week on a regular schedule. The Town restricts collection to vegetative matter only. Size and placement of trash on right-of-ways are also regulated. The Skees Road site encompasses about 28 acres and is the main site for disposal of the Town's vegetative refuse. It operates under permit from the Florida Department of Environmental Protection (FDEP). The permit is renewed each December.

The Okeechobee Boulevard site encompasses about 28 acres, but only about nine (9) acres are occasionally used by the Town for the vegetative landfill purpose. This site also operates under an annual permit issued by the FDEP. Because of the rate of decomposition of the organic matter, both sites are expected to have a useful life of between 16 and 25 years. While the Town has not estimated a capacity for each remaining individual site, at the volumes of vegetative trash expected to be generated during the planning period, this would indicate that these two sites have a combined capacity of at least 475,000 cubic yards of vegetative trash. A preliminary study is underway to evaluate the options for volume reduction of existing vegetative debris cells at these landfills to determine if material can be segregated and disposed of off-site (top soil, mulch, etc.) to increase the long term capacity and life span of the landfills.

Seasonal growth conditions, storm events, and development site clearing are the primary factors

affecting vegetative trash production. Site clearing has only a minimal influence as very little undeveloped land remains. Seasonal growth patterns are fairly predictable, coinciding with the warm weather rainy season between May and October. Storm events can occur at any time. Tropical storms and hurricanes usually form between June and November, while northeasters are the product of winter cold fronts.

The current level of vegetative trash generation is 152,000 cubic yards per year, representing a LOS of 0.0416 cubic yards per person per day, or 0.021 cubic yards per peak season person per day. There is a clearly defined upward trend in vegetative trash generation in the Town. July typically represents the peak month during which the total volume generated approximates 1.52 times that of the average month.

There appears to be no relationship between population and the volume of vegetative trash generated in the Town. However, because of the clear 1988 to 1994 trend of increasing vegetative trash generation, a least squares methodology has been used to project future volumes for the planning period, indicating a LOS of .025 cubic yards per peak season person per day generation of vegetative trash at the end of the 10-year planning period. Town collection equipment and crews are capable of meeting the projected demands.

SPECIAL SOLID WASTE

The Town provides pick-up of appliances, discarded furniture, large packing boxes, and similar household goods for a minimum charge.

Special collection services must be scheduled with the Town in advance. These wastes will continue to be taken to the Resource Recovery Plant/Landfill at Jog Road. This service is available Tuesdays and Thursdays all year long.

A truck, with a crew of two, is provided by the Town's Streets Division. The truck's maximum carrying capacity is three tons. During peak demand periods, the truck can carry up to six loads per day, resulting in a maximum capacity of 18 tons/day, 144 tons/month and 1,872 tons/year.

The total yearly capacity of the Special pick-up service has exceeded actual demand for the last five years, although peak monthly demands have historically exceeded capacity. Peak demand generally occurs in the winter.

A review of annual demand for collection of Special Solid Wastes reveals a steady increase since 1990. Population has increased modestly during the same time period, indicating that demand is not directly related to population levels. Although future demand cannot be accurately projected, the Town has the capacity to meet a maximum yearly demand of 1,872 tons, which has proven adequate since 1983. This capability provides the required level of service through the 10-year planning period.

RECYCLING

The Town began its solid waste recycle program in July, 1990 with pickup at single-family residences. In 1992, the program was expanded to multi-family residential pickup, in 1993 to commercial locations, and in 1995 to office locations for paper pickup. Recycling collection is set up to provide pick-up on a weekly basis.

Residential collection encompasses five routes that cover the entire Town from the inlet to 2300 South Ocean Blvd. There are no residential homes south of 2300 South Ocean Boulevard.

Multi-family collection is also set up to provide collection on a weekly basis, with additional pickups conducted on an as-needed basis. Multi-family units are serviced on Wednesday, Thursday and Friday. Service days are determined by location of condos or apartments.

Commercial collection and additional multi-family pick-ups are done on Tuesdays. The collection options available for residential, commercial and multi-family units are the same. Material collected is co-mingled glass, aluminum and grades 1 and 2 plastic. Newsprint is also collected but separated.

Participation rate fluctuates because the majority of residents are seasonal, however, heaviest participation occurs between December and May. Process costs and labor factors dictate the method of collection.

The latest three-year average for recycling tonnage totaled 1,650 tons/year using 2014 figures. Public education efforts help to increase awareness of meeting future goals.

DRAINAGE

Prior to development, the Palm Beach coastal barrier was characterized by a high coastal ridge along the Atlantic, and a low, swampy shoreline along Lake Worth. A marshy slough separated the beach ridge and lake hammocks. Surface accumulation either percolated to the surficial aquifer through permeable soils on the ridges, collected in the slough, or ran through poorly drained tidal swamps into Lake Worth.

Extensive shoreline and surface water changes have occurred since 1883. The slough and low lake shorelines have been filled for urban development, and the Atlantic shoreline has receded due to beach erosion. The urbanization of the Town has reduced the amount of water infiltrating to the surficial aquifer, and has increased runoff from impermeable surfaces. The coastal ridge still dominates the island's topography, acting as a seaward barrier to surface drainage. In addition, remnants of slough areas are prone to flooding.

In order to facilitate the removal of stormwater, a system of storm sewers and pumping stations

was created during the early development of the Town. That same system, with major modifications, remains intact today.

The Town's drainage system consists of a combination of pumping stations and gravity outfalls. Pumping stations are necessary because areas of the Town are below Lake Worth's high tide level, causing backflow through stormwater outfalls when above normal tides are experienced in the Lake.

The Town's code supports the South Florida Water Management District's stormwater retention requirements for new development and redevelopment. All new development and redevelopment must provide minimum retention of the first two inches of rainwater prior to discharging into the Town drainage system. Residential development of less than one-half acre is required to route discharge and sheet flow through grassy areas prior to discharge into the Town system.

Consulting engineers have extensively studied the storm drainage situation in the Town. The Town's engineering design criteria are meant to ensure that flooding will not occur during a one-year storm for systems served by pumping stations, or during a three-year storm for systems with gravity outfalls, and the minor flooding associated with a five-year storm would be carried off within sixty minutes. Accumulated runoff from a fifty-year storm would require only ninety minutes for removal. These standards supersede the less restrictive three-year/one-hour design requirements of the Water Management District.

Demand upon drainage systems is related to the area and amount of water to be drained. As the Town is virtually "built-out", the area to be drained will remain essentially constant, with most increases in impervious surfaces being addressed by retention requirements. The amount of water to be drained remains variable, depending upon the actual storm events. Therefore, the demand on the Town's system is primarily based on the intensity and duration of storm events.

The drainage system is generally considered to be in good condition. According to the Public Works Department, the expected service life of the drainage system components exceeds 50 years. The town needs to continue evaluating the drainage system and replace deteriorated and undersized components.

No water quality data is available for areas within the Town, consequently, the quantity, quality and effects of stormwater runoff originating in the Town are unknown. However, it is generally recognized that stormwater may contaminate surface waters with sediments, nutrients, heavy metals, oils, grease and pathogens.

Unfortunately, the Town is limited in its ability to improve discharge quality through stormwater management, because of the following:

1. The water table on the island is very high. Some areas in the Town are below the high tide line of Lake Worth. Retention or detention areas would, therefore, have to be shallow and

wide, requiring large surface areas.

2. There are no large undeveloped land areas which could realistically provide retention or detention of stormwater, and real estate prices for purchase or condemnation of land are prohibitively high.
3. Most soils in the Town are poorly drained, resulting in slow infiltration rates, and complicating the use of exfiltration systems.
4. The Town is almost entirely developed. Therefore, the existing drainage system will not be affected significantly by new stormwater regulations. In addition, the Town's existing drainage system was installed many years ago, prior to the development of best management practices.

The Town recognizes the importance of improved water quality in Lake Worth, but also realizes that any major retrofitting of the system will require study and time. The National Pollutant Discharge Elimination System Permit establishes, on a countywide basis, the best management practices (BMP's) and goals concerning the quality of stormwater runoff.

The Town has been making steady progress toward decreasing the quantity and improving the quality of stormwater runoff by requiring a minimum of one inch of stormwater retention on all new and redeveloped areas of one-half acres or more. All parking lot areas being built or reconstructed are required to provide one inch water quality retention, where water table and soil conditions permit.

In addition to the stormwater management practices, the Town is proposing restoration of native shoreline habitat along Lake Worth which would provide natural water purification. Restoration plans are described in more detail in the Coastal Zone Management/Conservation Element under "Restoration of Native Habitat." The Town has also identified the need for an intergovernmental Lake Worth Management Committee, which would facilitate water quality management on a regional scale.

Previous text and illustrations indicate that the Town's natural drainage features have already experienced the major changes which accompany urban development.

In a continuous pursuit to address infrastructure problems in the Town, from March 2001 to April 2003 the Palm Beach Town Council empowered the Strategic Planning Board to create a long-range (10+ years) Strategic Plan. In their study the Strategic Planning Board studied current drainage problems and the status of stormwater runoff handling and retention systems, improvements and components. The Strategic Planning Board also worked to enhance and improve the runoff collection and retention system as set out below.

During the mid-1970's, the Town commissioned an engineering report to recommend

infrastructure needed to provide better protection against flooding in major rainstorms. The “Smith & Gillespie Long Range Public Works Plan” provided the blueprint for major improvements subsequently constructed during the 1980s and 1990s. Flooding throughout the Town has been greatly reduced by these improvements.

However, some of the residential neighborhoods of the North End experienced severe flooding of homes during heavy rainfalls in 2000 and 2001, and less severe flooding (still resulting in private property damage) on other occasions between the late 1990s and 2001. In response, the Town staff improved its procedures for the field operations involved in preparing for and responding to storms that pose a threat of flooding. The Town also undertook a new study of the drainage system throughout the affected area (five drainage basins covering the area from Wells Road north to the Lake Worth Inlet), and developed an ambitious multi-year plan to increase the capacity of the storm drainage system. The Town’s retention design flood protection parameter in the Zoning Code is 2”.

On September 10, 2002, the Town Council approved a 10-year, \$23.7 million pay-as-you-go program to provide new pump stations, new and larger pipes along the “trunk lines” connecting smaller pipes to the trunk lines, and new and larger pipes along some of the residential side streets.

Permits to implement this program were obtained and the first five years of the program were constructed.

While developing this program for improving the public infrastructure necessary to better protect against flooding, the Town’s elected officials, staff, and consultants also developed strategies for reducing the impacts of storm water run-off from private properties into the public drainage system. Town regulations were substantially strengthened in this regard in 2001 and 2002. Additional measures will be considered in the future.

In addition to considering what regulations and storm drainage improvements are needed to prevent future flooding, the Strategic Planning Board considered how system improvements will be made. Specifically, the Strategic Planning Board explored whether or not changes are needed in Town policy governing construction contracts and construction project management to ensure that these major projects are completed successfully.

Engineering analyses have indicated that construction of the foregoing improvements will protect all but the 14 lowest elevation homes (some of which have a first floor elevation almost 3 feet lower than the Town’s current flood prevention standard of 7.5 feet above sea level) from being flooded during a storm of such intensity that it is expected to occur once every 100 years. Street flooding and some garage flooding are expected, not only during a “100-year storm” but also during less intense storms.

Starting in 2009 as part of the Accelerated Capital Improvements Program (ACIP) the Town has upgraded multiple stormwater pump stations and replaced, lined or abandoned corrugated metal

pipes. The ACIP is currently ongoing and is expected to be completed by the end of 2018.

Resulting Problems or Opportunities:

While developing this program for improving the public infrastructure is necessary to better protect against flooding, the Town's elected officials, staff, and consultants also have been developing strategies for reducing the impacts of storm water run-off from private properties into the public drainage system. Town regulations were substantially strengthened in this regard in 2001 and 2002. Additional measures are also being considered.

POTABLE WATER

The City of West Palm Beach owns and operates the water system providing potable water to the Town of Palm Beach, City of West Palm Beach and Town of South Palm Beach. The City of West Palm Beach Potable Water Utility Service Area exceeds 120,000 residents and covers 61 square miles of area. Since the system serves primarily urbanized areas, the predominant land uses in the service area are residential, commercial, industrial, recreational, and public and semi-public uses. The system consists of a raw water supply, water treatment plant, storage reservoirs and distribution system. A 30-year renewable contract between the Town and the City of West Palm Beach was signed in 1965 and expired in January, 1995. The Town subsequently renegotiated the contract with the City, and a new franchise agreement was signed on June 16, 1999 and is effective until 2029. It should also be noted that the City of West Palm Beach is currently expanding and improving their water infrastructure.

The City of West Palm Beach collects its raw water from Clear Lake, a surface water source. The South Florida Water Management District granted the City a water use permit on February 14, 2013 for 67 MGD. See the City of West Palm Beach Comprehensive Plan for more information on their consumptive use permit and yearly allocations and sources.

The capacity of the water treatment plant is 47.3 MGD. The plant's pumping system can provide maximum hour demand and fire flow demand pumping capacity throughout the distribution system. West Palm Beach has 18 million gallons of storage capacity in its distribution system and water treatment plant, including a one million gallon ground reservoir located at the Palm Beach Country Club.

The City allocates no specific portion of its treatment capacity to individual users or municipalities. See the City of West Palm Beach Comprehensive Plan for more information on its entire system, historic water use, and projected water use.

Raw water reaches Clear Lake through a system of canals and water catchment areas. Water travels from Lake Okeechobee through the L-8 canal to Canal M-1, and then to a naturally vegetated water catchment area. The catchment area serves as an initial water purifier; wetland plants provide nutrient uptake, and sediments settle out of the water column. After leaving the catchment area,

the water travels to Lake Mangonia and then to Clear Lake. A diking system around Clear Lake, Canal M, and the catchment area prevent degradation of the surface water from stormwater or irrigation runoff. Water quality in Clear Lake has been consistently good.

Raw water is treated by West Palm Beach according to FDEP water quality standards. Potable water emerging from the plant is tested daily for quality. Monthly reports, including tabulations of daily testing, are sent to the FDEP for review. The City prepares an annual Water Quality Report which can be reviewed on the City's website. Potable water quality has been consistently good, winning awards in recent years for its outstanding taste.

According to West Palm Beach sources, water quality is expected to remain good, and no measures for further protection of quality are necessary.

The Palm Beach/South Palm Beach service area is fed by five mains crossing Lake Worth from West Palm Beach, four of which connect directly into the Town. These crossings are located at the Flagler Bridge, Island Road, Southern Boulevard, and Sloan's Curve. The fifth is at Orange Grove Road. In addition, there are water meters, private fire lines, and fire hydrants located in Palm Beach.

The City of West Palm Beach has established 243.3 gallons per capita per day (gpcpd), based upon the 2020 Capacity Analysis Report (CAR), submitted in January 2020, as the level of service standard for provision of potable water to the entire Potable Water Utility Service Area which includes the Town of Palm Beach.

In order to reduce potable water consumption, the Town has pursued a water conservation program. The Town supports the City of West Palm Beach, its water provider, in its efforts to conserve water and expand alternative water supply projects and reuse initiatives. See the City of West Palm Beach Comprehensive Plan for more detail on conservation, alternative water supply, and reuse,

AQUIFER RECHARGE

The Town of Palm Beach is underlain by two aquifer systems; the surficial aquifer and the more deeply located Floridan aquifer. These are separated from each other by the Hawthorn Formation which prevents any recharge from reaching the Floridan aquifer. Neither aquifer is used as a source of potable water.

Urban development in the Town, including the placement of poorly drained urban fill, has affected the quantity of recharge to the surficial aquifer. Pomello fine sand and, to a lesser extent, Palm Beach Urban Complex, are probably the most active recharge soils. According to the Palm Beach County Soil Survey, most native sandy soils are located along the beach ridge, and in the north end of Town, directly behind the beach ridge.

The surficial aquifer is not considered a suitable source of potable water, nor as a major source for

irrigation because of its high chloride (salt) content.

Fresh water is less molecularly dense than salt water. Therefore it tends to "float" on top of salt water forming a fresh water lens. Often this lens can supply usable water so long as it is sufficiently replenished by infiltration. The extent and quality of the fresh water lens under the Town has not been determined, however, the SFWMD is testing the surficial aquifer in a comparable location in West Palm Beach.

The Biltmore condominium has a consumptive use permit from the South Florida Water Management District (SFWMD) for groundwater to cool its air conditioning system. The Breakers has received SFWMD permitting for use of a non-potable shallow water well for its golf course irrigation system. Small cooling or irrigation wells exist which did not require a SFWMD permit. Such wells, however, do require a permit by the Town. There is no evidence to suggest that the existing limited use of the aquifer has caused, or will cause, degradation of the aquifer.

The Town protects recharge through its storm water retention requirements and its minimum landscaped area requirements, which ensure pervious areas for water percolation to the aquifer. In addition, there are few septic tanks in the Town; no existing or potential identified problems with hazardous waste contamination; and no known sources of aquifer contamination or depletion. In the event that the Town chooses to utilize the surficial aquifer as a non-potable water source for irrigation, measures should be taken, in accordance with rules of the South Florida Water Management District, to protect the aquifer and overlying soils and vegetation from negative consequences of drawdown.

The Town has reduced density in some residential districts over primary recharge areas, and will continue as Town policy to reduce redevelopment densities in the Town as a whole. Existing land uses in primary recharge areas will be maintained, and beaches and dunes will be protected, as described in the "Protection and Restoration of Beaches and Dunes" section of the Coastal Zone Management/Conservation Element of this Plan. The Town will also continue to prohibit industry and hazardous waste storage within its limits.

The Town further improves aquifer recharge by requiring new development and redevelopment in primary aquifer recharge areas to run storm water through vegetated areas prior to discharge into the Town's drainage system. No further programs or regulations are deemed necessary, unless future use of the aquifer necessitates further measures.

UNDERGROUND UTILITIES

The conversion of the overhead utilities to underground locations will be one of the most ambitious infrastructure projects ever undertaken by the Town of Palm Beach. The undergrounding will preserve the historic character of the Town and enhance the aesthetics of the landscape and scenic vistas. The conversion will significantly improve the level of service and reliability of the electric, telephone, and cable communications to the Town.

Impacts of the Issue

The impacts of the Town-wide underground utilities conversion project include installing underground utilities for all areas of the Town that presently has overhead utilities. There are some areas within the Town that have already converted their utilities to underground. Those areas include: Everglades Island; Via Fontana; Lake Towers; 300 block of Dunbar Road (summer of 2016); and Nightingale and LaPuerta (started summer of 2016). The conversion will include locating most of the utilities in the Town's road right-of-ways wherever possible. The utilities will be located in alley ways in those neighborhoods which have rear access alleys wide enough for truck access.

The construction is anticipated to take 6 to 10 years. The most disruptive construction will take place during the summer months with the actual utility connections to take place during the winter months. The last step of removing poles and equipment primarily from rear yards will take place the following spring. The undergrounding conversion construction will be coordinated with other Capital Improvement Projects as identified in the Capital Improvements Section of the Comprehensive Plan.

Resulting Problems or Opportunities

Problems associated with the underground utilities project include:

- Easements will be required for transformers and other above ground equipment. There is a potential that eminent domain will be required for some easements.
- Disruption to the community, including noise and traffic congestion is anticipated.
- Project cost may exceed the approved referendum amount.
- Removal of equipment from poles has been a challenge in similar communities.

Opportunities include:

- Increased reliability for all utilities.
- Improved aesthetics for the entire community due to removal of wood and concrete poles.
- Potential for improved broadband and wireless services.

Needed Actions to Address the Issue

- Complete Master Plan which includes construction sequencing and project estimate of cost.
Timeframe: Master Plan for first assessment phase of the Town will be completed in 2017.

GOALS, OBJECTIVES AND POLICIES

GOAL

MAINTAIN ADEQUATE LEVELS OF UTILITY SERVICES FOR EXISTING AND FUTURE POPULATIONS, AND MAXIMIZE UTILIZATION OF EXISTING INVESTMENT AND FACILITIES.

SANITARY SEWER SERVICES

OBJECTIVE 1

The Town shall assure that all existing and future residents, and businesses in the Town, will have access to sanitary sewer facilities; maximize the use of existing collection and treatment facilities; and, meet future needs through continuation of its Sanitary Sewer Rehabilitation Program. The measurement of this objective is whether or not sanitary sewer facilities are available to all users, and the extent to which the following policies are implemented.

POLICY 1.1

The Town shall rehabilitate or replace its sanitary sewer collection lines, as necessary, to reduce infiltration. The Town's goal is to reduce flows by one-half percent per year through the planning period.

POLICY 1.2

Through its concurrency management system, the Town will, on an annual basis, continue to discuss the Town's LOS with the City of West Palm Beach and request confirmation of available capacity.

OBJECTIVE 2

Development orders and permits for new development or redevelopment shall be issued only if sanitary sewer facilities, necessary to meet the Town's adopted level of service standards, are available concurrent with the impacts of the development.

POLICY 2.1

The Town's level of service for sanitary sewer collection and treatment shall be the same as that established in the City of West Palm Beach's Comprehensive Plan:

Waste Water Collection

Development Type	Avg. Daily Water Flow
Single Family	350 gpd/DU
Multifamily	250 gpd/DU
Commercial	0.20 gpd/SF
Industrial	0.15 gpd/Sf
Hotel	100 gpd/room

DU=dwelling unit
SF=Square feet

gpd=gallons per day

Pumping Station

Peaking Factor	Avg. Daily Flow (MGD)
3.5	0.01 to 0.05
3.0	0.05 to 0.25
2.5	0.25 to 2.0
2.0	>2.0

Peaking factors for other facilities shall be determined using historical flow records

POLICY 2.2

Prior to the issuance of a development order or permit, the Town shall make and record a determination that the East Central Regional Sewage Treatment Plant retains capacity to treat, and the Town's facilities are adequate to collect and transport, or, that the development order or permit is specifically conditioned on the availability of the necessary facilities and services, and that said facilities are authorized at the time the project is authorized.

OBJECTIVE 3

The Town will coordinate with the City of West Palm Beach in the City's efforts to extend, or increase, the capacity of its sanitary sewer treatment facilities to meet future needs. The measurement of this objective is whether or not the Town coordinates with the City in its efforts, and the extent to which the following policy is implemented.

POLICY 3.1

A representative of the Town will meet with representatives of the City of West Palm Beach, upon request, to coordinate and assist the City in its efforts to establish priorities for replacement of, or corrections of deficiencies to, sanitary sewer treatment facilities, as well as provision for future sanitary sewer treatment needs.

OBJECTIVES AND POLICIES NOT INCLUDED

No objective for correcting existing sanitary sewer treatment facility deficiencies is necessary or applicable, since the data and analysis provided in the supporting documentation identify that no such deficiencies exist.

No objectives or policies pertaining to discouraging the proliferation of urban sprawl are necessary or applicable in the Town, because the Town is virtually fully developed and the only areas for potential development are located on "in-fill" parcels.

No objectives or policies are necessary with regard to protecting the functions of natural groundwater recharge areas, since the only such areas are the surficial aquifer, and these areas are developed with single-family homes. Further, no objectives or policies are necessary with regard to protecting natural drainage features, since these have already been largely altered by urban development and the Town has no sanitary sewer treatment facilities, but provides only local collection lines which have no effect upon the area's natural drainage features.

SOLID WASTE DISPOSAL

OBJECTIVE 4

The Town shall maximize utilization of its capital facilities, and work with the County's Solid Waste Authority to maximize utilization of its new resource recovery facility. The measurement of this objective is the extent to which the following policy is implemented.

POLICY 4.1

Prior to any development of the Pinewalk area and loss of use of the Pinewalk Transfer Station, the Town shall locate a mainland or on-island site for a replacement transfer station, increase the size of its packer fleet, or explore possible purchase or other alternatives for continued use of the transfer station with officials at Flagler Systems, Inc.

OBJECTIVE 5

Development orders and permits for new development or redevelopment shall be issued only if the Solid Waste Authority's disposal facilities, necessary to meet the Town's adopted level of service standards, are available concurrent with the impacts of the development.

POLICY 5.1

The Town's level of service for garbage collection and disposal shall be 2.55 pounds/person/day.

POLICY 5.2

Prior to the issuance of a development order or permit, the Town shall make and record a determination that the Town has adequate capacity to collect, and the County's Solid Waste

Authority has adequate capacity to dispose of, garbage generated in the Town, at the average rate of 2.55 pounds per person per day; or, that the development order or permit is specifically conditioned on the availability of the necessary facilities and services, and that said facilities are authorized at the time the project is authorized.

OBJECTIVE 6

The Town will coordinate with the Palm Beach County Solid Waste Authority in its efforts to extend or increase the capacity of its solid waste disposal facilities to meet future needs. The measurement of this objective is whether or not the Town coordinates with the Water and Sewer Authority in its efforts, and the extent to which the following policy is implemented.

POLICY 6.1

A representative of the Town will meet with representatives of the Solid Waste Authority, upon request, to coordinate and assist in its efforts to establish priorities for replacement of, or corrections of deficiencies to, solid waste disposal facilities, as well as provision for future solid waste disposal needs.

OBJECTIVES AND POLICIES NOT INCLUDED

No objectives or policies are necessary with regard to correcting existing solid waste disposal facility deficiencies, since the information contained in the supporting documentation indicates there are no such deficiencies.

No objectives or policies pertaining to discouraging the proliferation of urban sprawl are necessary or applicable in the Town of Palm Beach, because it is virtually fully developed and the only areas for potential development are located on "in-fill" parcels.

No objectives or policies are necessary with regard to protecting the functions of natural groundwater recharge areas, since the only such areas are to the surficial aquifer, and these areas are developed with single-family homes. Further, no objectives or policies are necessary with regard to protecting natural drainage features, since these have already been largely altered by urban development, and the Town has no solid waste disposal facilities, but provides only local collection and transfer which have no effect upon the area's natural drainage features.

DRAINAGE

OBJECTIVE 7

The Town shall maximize its existing drainage facilities by correcting drainage problems in Town and explore methods of improving the quality of stormwater discharge. The measurement of this objective is the extent to which identified drainage problems are corrected, and the degree to which the following policies are implemented.

POLICY 7.1

The Town shall incorporate the funding of drainage improvements in its Capital Improvements Element with first priority to be given to actions that will eliminate identified problem areas or actions that will protect the natural functions of Lake Worth.

POLICY 7.2

The Town shall implement trunk lines and pump stations as set forth in the Town's adopted drainage improvement program.

POLICY 7.3

Following the implementation of Policy 7.2, the Town shall re-evaluate needs, priorities, and financing of future storm drainage improvements on residential side streets.

POLICY 7.4

The Town shall maintain its Long Range Public Works Plan (Storm Drainage Chapter) to continue to comply with the following items and actions:

- 7.4a The Environmental Protection Agency NPDES Program with respect to methods for instituting water quality analysis of the Town's stormwater discharge into Lake Worth.
- 7.4b The current FEMA Flood Mapping Data;
- 7.4c Update existing stormwater system information, as needed.
- 7.4d Determine "hot spots" where pollutant loadings and water quality problems are severe, if they exist.
- 7.4e Implement NPDES Permit requirements.

POLICY 7.5

The town shall request, coordinate and follow through with the Florida Department of Transportation to improve drainage collection on State Roads, especially S.R. A.1.A., South County Road.

OBJECTIVE 8

Development orders and permits for new development or redevelopment shall be issued only if the proposed project meets the Town's adopted level of service standards, or if needed expansion of facilities is coordinated with future development.

POLICY 8.1

The Town shall establish the following level of service standards:

1. Flooding will not occur during a one-year storm for systems served by pumping stations, or during a three-year storm for systems with gravity outfalls; and, the minor flooding associated with a five-year storm shall be carried off within sixty minutes.
2. Negative impacts of stormwater discharge upon water quality in Lake Worth are ameliorated by the retention of the first two inches of rainfall prior to discharge into the Town system, or the post-development runoff does not exceed predevelopment runoff for a three-year one-hour storm, whichever is greater.

POLICY 8.2

Prior to the issuance of a development order or permit, the Town shall review drainage plans and calculations for all projects, and shall make and record a determination that:

For all commercial or residential development or redevelopment, where the proposed work falls into one of the following categories:

- 8.2a The proposed work exceeds 25% of the market value of the property;
- 8.2b The proposed work includes the construction of a new swimming pool;
- 8.2c The proposed work includes the redevelopment of more than 20% of landscaped open space, 20% of the impervious area of the site including buildings, patios, etc. or a combination thereof which exceeds 20%;
- 8.2d The proposed work includes new driveways or parking areas;
- 8.2e The proposed work includes replacement or reconstruction of parking areas other than parking areas designed for less than three residential units; or
- 8.2f Other development as may be deemed appropriate by the Town Engineer.

POLICY 8.3

The town shall encourage the installation of upgraded storm drainage systems to meet current or new storm water standards on properties which are not otherwise being redeveloped.

OBJECTIVES AND POLICIES NOT INCLUDED

Other than dunes and coastal wetlands, no natural drainage features remain in the Town. Objectives and policies for protecting dunes and wetlands are included in the Coastal Zone

Management/Conservation Element, specifically, dunes in Objective 5 and Policies 5.1 through 5.8, and wetlands in Objective 2 and Policy 2.7. Further policies relating to restoration of wetlands are described in Policies 2.1 and 2.3.

POTABLE WATER

OBJECTIVE 9

Development orders and permits for new development or redevelopment shall be issued only if potable water capacity is available concurrent with the impacts of the development.

POLICY 9.1

The Town shall establish a potable water level of service standard in accordance with the City of West Palm Beach, the Town's water provider. The City's current Potable Water LOS is 243.3 gallons per capita per day (gpcpd), based upon the 2020 CAR submitted in January 2020.

POLICY 9.2

Consultation with the Town's Public Works Department shall be required prior to the issuance of a building permit to ensure that adequate water supply is available to serve new development by the date of issuance of its certificate of occupancy.

OBJECTIVE 10

The Town shall, either on its own initiative or through support of, and participation in, a regional effort, undertake a water conservation program. The Town will also address the following water quality issues:

1. Clean water (smell and taste).
2. Water supply (as related to drought, in addition to conservation measures)

POLICY 10.1

The Town will establish and implement a program of public education to promote water conservation, preferably in conjunction with the City of West Palm Beach and the South Florida Water Management District.

POLICY 10.2

The Town has adopted and implemented regulations that includes a water conserving landscape design (Florida Friendly) ordinance applicable to new development and redevelopment.

POLICY 10.3

The Town shall continue to modify its land development regulations and other Town codes to require water saving devices in new construction, such as low volume shower heads and toilets, soil tensiometers, or similar control mechanisms, in all irrigation systems and water saving sink faucets.

POLICY 10.4

The Town shall implement any lawn watering restrictions enacted by the City of West Palm Beach or the South Florida Water Management District.

POLICY 10.5

The Town shall continue to implement and enforce watering restrictions and requires new water sensing devices on new automatic irrigation systems.

OBJECTIVE 11

The Town will coordinate with the City of West Palm Beach in the City's efforts to extend, or increase, the capacity of its potable water facilities or meet future needs. Town shall also ensure that the water quality shall meet all federal, state, and county standards. The measurement of this objective is whether or not the Town coordinates with the City in its efforts, and the extent to which the following policy is implemented.

POLICY 11.1

A representative of the Town will meet with representatives of the City of West Palm Beach on an annual basis to coordinate and assist the City in its efforts to establish priorities for replacement of, or corrections of, deficiencies to potable water quality, facilities, as well as provision for future potable water needs.

POLICY 11.2

The Town, coordinating with SFWMD, originally created a 10-Year Water Supply Facility Work Plan in 2010, and amended it in 2020 (incorporated and adopted herein by reference as Appendix "A"), that takes into account the 2018 Lower East Coast (LEC) Regional Water Supply Plan. The Town shall send a letter to SFWMD with identified projects for future water supply needs of the Town. Projects must be selected from the LEC Regional Water Supply Plan or must have prior approval by SFWMD. The Town will coordinate with its water supplier, i.e. the City of West Palm Beach, in this regard. The Town shall address future updates by SFWMD within 18 months of adoption by SFWMD of a new LEC Regional Water Supply Plan, by revising the Town's 10-Year Water Supply Facility Work Plan.

POLICY 11.3

The Town may explore future options for water service following the termination or expiration of the current potable water contract with the City of West Palm Beach.

POLICY 11.4

The City of West Palm Beach, the Town's water provider, has: updated their 10 Year Water Supply Facility Work Plan and their Comprehensive Plan to identify and incorporate their alternative water supply projects, either identified in the updated regional water supply plan, or identified and proposed by the City of West Palm Beach under s. 373.709(8)(b) and 373.709(2) (a) F.S.; identified the traditional and alternative water supply projects, bulk sales agreements, and the conservation and reuse programs necessary to meet current and future water use demands within the City of West Palm Beach's water use area; and included a water supply facility work plan for at least a 10-year planning period for constructing any water supply facility identified as necessary to serve existing and new development.

AQUIFER RECHARGE

GOAL

MAINTAIN AND IMPROVE THE NATURAL DRAINAGE FUNCTIONS AND QUALITY OF THE SURFICIAL AQUIFER

OBJECTIVE 12

The Town shall protect, maintain and improve the potential for high recharge, prime recharge and surficial recharge areas within its municipal limits, thereby protecting the remaining natural functions of natural groundwater recharge areas. The measurement of this objective is the degree to which the following policies are implemented.

POLICY 12.1

The Town shall amend its land development regulations to require that any new development, on lands identified in its Comprehensive Plan as overlying a groundwater recharge area, shall run its stormwater over grassy areas prior to discharge into the Town's system.

POLICY 12.2

The Town shall continue to prohibit industry and the storage of hazardous materials.

POLICY 12.3

In the event that the Town utilizes the surficial aquifer as a water source in the future, the Town shall develop, prior to such uses, additional policies which will protect the aquifer from degradation.

POLICY 12.4

Existing land uses in the aquifer recharge area will remain as indicated on the Future Land Use Map.

POLICY 12.5

The Town shall protect high recharge and prime recharge areas commensurate with their significance to natural systems or status as current or future sources of potable water.

OBJECTIVES AND POLICIES NOT INCLUDED

No objectives or policies pertaining to discouraging the proliferation of urban sprawl are necessary or applicable in the Town of Palm Beach, because it is virtually fully developed and the only areas for potential development are located on "in-fill" parcels.

COASTAL MANAGEMENT/CONSERVATION ELEMENT

INTRODUCTION

The Town of Palm Beach lies entirely within the coastal zone. Consequently, this Element incorporates the Coastal Management and Conservation Elements into one comprehensive inventory, and analysis of the Town's coastal and natural resources.

The purposes of this Element are to plan for and, where appropriate, restrict development activities where such activities would damage or destroy coastal resources; to protect human life; to limit public expenditures in areas subject to destruction by natural disaster; and to promote the conservation, use, and protection of natural resources.

This Element of the Plan has been updated based upon:

1. Analysis of existing land uses in the coastal area as of April 2016; conflicts among shoreline uses; need for water-dependent and water-related uses; areas in need of redevelopment; and, the economic base of the coastal area;
2. Analysis of the effect of future land uses on natural resources;
3. Analysis of the impacts of development on historic resources and sites;
4. Analysis of estuarine pollution conditions;
5. Analysis of natural disaster planning concerns;
6. Analysis of beach and dune conditions;
7. Analysis of public access facilities;
8. Analysis of existing infrastructure;
9. Analysis of pertinent natural resources in the community;
10. Analysis of existing commercial, recreational, and conservation uses of these natural resources; potential for their conservation, use, or protection; and, known pollution problems;
11. Analysis of current and projected water needs and sources.

EXECUTIVE SUMMARY

While all of the comprehensive plan elements required by F.S. 163 have been inventoried and analyzed, the built-out landscape of Palm Beach limits concern to but a few specific issues and problems. These are chiefly associated with natural resource protection.

HAZARDOUS WASTES

The Town will continue to protect its soils and groundwater through existing prohibitions on industry, standard operating procedures, and intergovernmental coordination with appropriate agencies.

DRAINAGE

The natural drainage patterns of the Town have been altered by urban development. Stormwater is either held in retention areas or routed to Lake Worth. In 1986, all new construction and major renovations have been required to retain the first inch of rainfall per the Town's code in conformance with requirements of the South Florida Water Management District. However, this requirement was increased to two inches in 1992. More detailed inventory and analysis of drainage and related infrastructure are contained in the Infrastructure Element.

FLOODPLAINS

The Town of Palm Beach can experience flooding from Lake Worth, the Atlantic Ocean, or from surface accumulation of rainwater. Map V-2, in the companion volume *Supporting Documentation*, shows areas in the Town which are subject to flooding during a "one hundred-year storm", as identified on the Flood Insurance Rate Maps (FIRM) prepared by the Federal Emergency Management Agency (FEMA). Land along the Atlantic is also subject to tidal surge and wave velocity in the event of a major storm, although no structures lie within the velocity zone. Nearly all of the flood prone area is already developed.

GROUNDWATER

The Town promotes recharge through its stormwater retention requirements, and through minimum landscaped area requirements, which ensure pervious areas for water percolation into the aquifer. In addition, there are few septic tanks in the Town, no existing or known potential problems with hazardous waste contamination, and no known sources of potential aquifer contamination or depletion. In the event that the Town chooses to use the surficial aquifer more extensively, measures should be taken to protect the aquifer from salt water intrusion.

POTABLE WATER

Potable water resources, needs, and conservation methods are explored in the Potable Water sub-element of the Infrastructure Element. Specifically, water sources are discussed under the heading "Facilities, Treatment, and Capacity"; needs and water quantity under "Present and Future Needs"; water quality under "Potable Water Quality"; and, conservation under "Water Conservation."

NATURAL RESOURCES

Vegetation and Wildlife

A variety of mammals, reptiles, birds, aquatic species, and other animals live in and around Palm Beach. These are generally attracted to specific vegetational and aquatic communities. The Atlantic Ocean and its associated beaches, dunes and nearshore reef outcrops support a variety of animal life and marine species. Chart V-1 summarizes and describes the various ecological communities in terms of their vegetation, wildlife and ecological needs.

Most native wildlife in Palm Beach is centered around remaining natural communities. However, there are also a variety of species which have adapted to the urban environment. Among these are the red fox, possum, raccoon, squirrel, rat, mouse, songbirds (including a flock of wild parrots), and shore birds. The Town is a dedicated Bird Sanctuary.

A patchy series of nearshore and offshore reefs or rock outcrops lies parallel to the Town's Atlantic coastline. Offshore areas are subject to variability. Some nearshore areas can have a very limited diversity or density of species due to naturally high sedimentation rates and low rock relief. Others may support relatively rich populations of plant and animal life. As a rule, diversity and abundance of species increase with greater water depth and distance from the shore. However, site specific studies need to be conducted to determine the ecological value of any given offshore environment.

The Lake Worth Lagoon supports a rich variety of wildlife. The spoil islands in the Lagoon serve as bird rookeries for ibis, reddish and snowy egrets, anhingas, great blue herons, night herons, and tricolor herons, many of which are listed as threatened or endangered species by State or Federal agencies. Fisherman's Island, Hunter's Island, John's Island, and Bingham Island are leased by the Audubon Society specifically as rookeries and bird sanctuaries. Native wetland areas along the shore of the Lake Worth Lagoon serve as roosting areas for these birds, and also provide food and shelter for a variety of small mammals.

Although the Florida Department of Environmental Protection (FDEP) has prohibited shellfishing in the Lake due to its poor water quality, shellfish beds are located on tidal flats and around the periphery of spoil islands. One species of oysters live on the prop roots of red mangroves. A unique sub-specie of clam, native to the area, lives in the sand of the Lagoon.

Air and Other Physical Conditions

The Town of Palm Beach has very good air quality. There are no point sources of pollution within the Town. Increased mobile pollution sources, including automobiles and air traffic, will continue to cause a concern. Air quality is enhanced by the Town's location on the coast, where it benefits from regular sea breezes. Air quality is also improved by the profuse vegetation in the Town, which naturally purifies the air.

The Town should continue to maintain its good air quality by preventing industries from operation in the Town; discouraging increased commercialism; and, maintaining and encouraging rich vegetation on both public and private properties.

The Florida Mining Atlas identifies two potentially valuable mineral resources in Palm Beach: coquina and sand. However, the exclusive residential nature of the Town and subsequent high real estate values preclude any mining of these resources, either presently or in the future.

The Town addresses wind-borne soil erosion due to demolition or construction through its Fugitive Dust and Blowing Sand Ordinance, which requires exposed soils and fill to be stabilized with webbing. In addition, the Town requires unvegetated vacant areas to be sodded.

SUMMARY OF ECOLOGICAL COMMUNITIES

COMMUNITY	ATLANTIC OCEAN	ATLANTIC BEACH & DUNES	BARRIER ISLAND INTERIOR	LAGOONAL WATER'S EDGE	LAGOON	MANGROVE ISLAND
DESCRIPTION	Zone begins 3 miles east of the MHW line & extends west through the breaking surf to the MHW lines.	Area extends from the MHW line of the beach to the trough behind the dune zone.	West of dunes to the edge of the Lake Worth Lagoon.	Wetland Bordering Lake Worth Lagoon	Lake Worth	Various natural and spoil islands in Lake Worth
SOILS	Submerged, unconsolidated sand; coquina outcroppings from reefs.	Well drained sane and shells.	Moderately drained sand, and urban fill.	Well drained sand and shells overlying organic layer of poorly drained peat.	Submerged, unconsolidated sand	Composition ranges from mixed sand and shells to organic materials
VEGETATION	Plankton, sarragussum, seaweed, red and brown algae.	Salt tolerant dune grasses, herbaceous plants, vines, shrubs, and stunted trees.	Live oak, slash pine, cabbage palm, saw palmetto; invasion by Australian pine, Brazilian pepper.	Black, red & white mangroves, salt marsh grass; invasion of Brazilian pepper & Australian pine.	Sea grass beds	Red and black mangroves, Australian pine and Brazilian pepper on upland spoil areas; some hardwoods on native island uplands
LISTED SPECIES	Brown pelican. Sea turtles (see Beach and Dunes). Sea Gulls.	Atlantic loggerhead turtle Atlantic green turtle Leatherback turtle Atlantic hawksbill turtle Atlantic Kipp Ridley turtle Sea lavender Prickly pear Roseate tern Least tern Osprey Sea Oats Sea Grape		Roseate tern Least tern Atlantic saltmarsh snake Snowy egret, reddish egret Southern Kestrel Southern bald eagle Great Blue heron, Little Blue heron, other herons Other shorebirds Anhingas Cormorant Osprey	West Indian Manatee	Roseate tern Least tern Atlantic saltmarsh snake Snowy egret Southern Kestrel Southern bald eagle Great Blue and other herons Limpkin White ibis Osprey
NATURAL FUNCTION	-Marine habitat -Moderation of climate	-Wind & wave protection for island -Shoreline maintenance -Interface between marine & terrestrial wildlife -Shallow aquifer recharge (dunes)	-Wildlife habitat -Shallow aquifer recharge in elevated areas -Vegetation purifies air	-Shoreline stability -Maintenance of water quality -Wildlife habitat -Detrital source -Important nursery area for marine wildlife	-Feeding area for manatees -Source of detrital food web -Vital nursery habitat for larval & juvenile stages of marine life -Maintenance water quality	-Habitat, rookeries for birds -Maintenance of water quality -Maintenance of marine life -Detrital source
ELEMENTS ESSENTIAL TO NATURAL FUNCTION	-Good water quality	-Natural beach profile -Uninterrupted littoral drift -Natural dune form -Hardy vegetation -Good water quality	-Vegetation -Good water quality	-Healthy and profuse vegetation -Good water quality	-Good water quality -Natural circulation -Undisturbed bottom	-Healthy vegetation -Good water quality -Minimal disturbance by man
POST DEVELOPMENT CHARACTER	-Water pollution (oil residue & garbage)	-Intense development of primary dune area -Removal of foredune & replacement with bulkhead -Breaches of dune due to Pedestrian and vehicular activity	-Most of area heavily urbanized. Native vegetation replaced with exotic landscaping	-Most of wetland edge filled and elevated for residential development and cleared of natural vegetation -Shoreline hardened -Invasion of exotic vegetation	-Some areas dredged for boat channels -Seagrass loss due to poor water quality, dredge and fill -Habitat loss for marine organisms	-Invasion of exotic vegetation -Litter -Disturbance by boaters, trespassers

Prepared by Adley, Brisson, Engman, Inc. 10/96

Beach and Dune Conditions

Beach erosion has been a continuing problem for the Town since 1924 when the Lake Worth Inlet was deepened and stabilized with jetties on either side. Sand immediately began to build up in the north jetty as the southerly littoral drift was interrupted. The beaches on the north side of the Inlet began to experience accretion, while those to the south, where the Town is located, suffered from erosion. Sand starvation caused by the Inlet has combined with other factors, such as the rising sea level and numerous storm events, resulting in a dramatic and continuing loss of beach. Through the years the Town has responded to beach erosion with shore protection structures, artificial beach nourishment, and a sand bypass program at the Inlet.

The Town has carefully controlled beach protection through a beach management plan, passed in 1935, which designates the locations, dimensions, and lengths of bulkheads and groins within the municipal limits of the Town. Since 1935, protective structures have generally been placed in accordance with this Plan.

Comprehensive Coastal Management Plan

Recognizing the importance of managing its beach resources, the Town commissioned Cubit Engineering to prepare its Comprehensive Coastal Management Plan (CCMP). This report, dated August, 1986, contained the following eight (8) major objectives. The Town's progress towards meeting the original objectives is shown in italics beneath each.

1. Replace the sand bypass plant at Lake Worth Inlet.

The Sand Transfer Plant ceased operation in May, 1990. The County, who operated the plant under an interlocal agreement, reported that its condition was beyond normal maintenance repair. The Town has funded the restoration of the Sand Transfer Plant which should provide enhanced transfer capability. Two new discharge pipes under the inlet, a new pump, motor and electrical system were installed in November, 1995.

The Town began a study of the Lake Worth inlet through the initiation of the Lake Worth Inlet Management Plan. The Plan, with 75% State funding, will explore the optimal way to move sand past the Lake Worth Inlet. The Plan has already recommended replacement of the transfer station with upgraded bypass capabilities. It is anticipated that the Plan will be completed in the near future. Upon completion, the Town will implement it with the assistance of the U.S. Corps of Engineers and Florida Department of Environmental Protection.

The Sand Transfer Plant was structurally and mechanically rehabilitated by the Town in late 2009 and early 2010. Following rehabilitation, the plant successfully bypassed sand until impacts from Hurricane Sandy damaged the

plant's infrastructure in October 2012. The plant was operational again in mid-2013 and regularly bypassed sand until electrical connection issues persisted in 2015. The electrical connections were replaced and the Sand Transfer Plant has been in continual operation through much of 2016.

In June 2016, by Resolution No. 94-2016, Town Council approved an interlocal agreement with Palm Beach County that details responsibilities for operation and maintenance of the Sand Transfer Plant until September 2035. The interlocal agreement obligates the County to operate and maintain the plant and obligates the Town to be responsible for repairs. This agreement was approved by the Palm Beach County Board of County Commissioners in August 2016.

2. Require all sand bypass plant discharge and beach quality maintenance dredge spoil to be placed south of Onondaga Avenue so that it will be of greatest benefit.

The Town manages the Sand Transfer Plant consistent with the FDEP-adopted Lake Worth Inlet Management Plan (IMP) of 1995, the FDEP Palm Beach Island Beach Management Agreement (BMA) of 2013, and the FDEP Strategic Beach Management Plan updated in 2015. Both the IMP and BMA recommend lengthening the discharge pipelines and to allow for multiple discharge points to be located as far as 2,500 feet south of the south jetty. The State's strategy for inlet bypassing, which includes the combination of the operation of the sand transfer plant and beach placement of maintenance dredge material from the federally authorized navigation channel, to place all beach compatible material on the downdrift beaches of Reach 1 and in an extended beach placement in Reach 2. The FDEP Strategic Beach Management Plan details that an extension of the plant's discharge pipeline can be sited as far as 3,600 feet south of the south jetty.

3. Renourish the Mid-Town Public Beach to enhance that area and provide downcoast property protection.

The Town's Mid-Town Beach Restoration project, with the construction of groins to stabilize the beach, began in October, 1995, and was completed in March, 1996. Following the project, a dune vegetation project was initiated for approximately 4,000 feet of the project. The Mid-Town Beach was renourished in 2003 and 2006 following hurricanes Frances and Jeanne. A Mid-Town Beach Renourishment Project was constructed in 2015.

4. Endorse the Department of Transportation revetment at Widener's Curve to Sloan's Curve.

The revetment is in place.

5. Maintain the seawalls to ensure that storm protection to upland property and infrastructure is provided.

Seawalls are maintained on an "as needed" basis. Construction of a replacement seawall fronting North Ocean Boulevard across from the Palm Beach Country Club in Reach 2 was completed in 2016.

6. Maintain and/or modify only those groins that are presently effective; abandon and remove all others as may be physically and financially practical.

The BMA included the repair, rehabilitation, or removal of groins in Reaches 2, 4, 5, and 6 as an authorized activity to maintain sand placement projects. In February 2015, a Town consultant completed a Groin Rehabilitation Execution Plan that outlines a multi-phased long-term effort to maintain, modify, abandon, or remove groins, as necessary. The first phase of implementation may occur following Town Council direction after the federal permitting process has been completed.

7. Enhance the dune areas with vegetation and sand fence techniques between Sloan's Curve and Kreuzler Park.

The Phipps Ocean Park Beach Restoration was undertaken and completed in 2006 between Phipps Park and the Ambassador Hotel. A dune vegetation restoration project was also completed there in 2007. Nourishment of Phipps Ocean Park and Reach 7 was completed in 2016. This project extended beach nourishment from the Ambassador Hotel to Kreuzler Park. Following the nourishment of sand, dune vegetation was planted along the entire Town-portion of Reach 7, which extends from Sloan's Curve to Kreuzler Park.

8. Monitor the Town's beach to develop a better data base of information concerning beach characteristics so that future planning decisions can be made."

The Town performs a yearly shoreline survey to design and monitor beach restoration and renourishment activities.

The Comprehensive Coastal Management Program (CCMP) includes a detailed schedule and budget. The scope and cost of the CCMP is reviewed annually by Town staff, the Shore Protection Board, and Town Council. The Town ~~has continues to implemented most of it's the~~ CCMP objectives.

The Town Council appointed a Shore Protection Board on July 11, 1995, to investigate and evaluate the Town's beaches and develop a plan to address the erosion of this piece of the Town's

infrastructure. The Board met regularly for over three years. After investigating the broadest array of beach management options, the Board oversaw the production of the CCMP Update, dated September 1997, by Applied Technology & Management, Inc. Thereafter the Board oversaw a separate Peer Review of the CCMP. The Peer Review emphasized that uncertainty exists in the science of managing our coastal resources, and therefore recommended that the CCMP by Aubrey Consulting, Inc. (later referred to as Woods Hole Group, Inc.) be implemented in phases, thereby allowing for flexibility and adjustments through a process called “adaptive management.” This process involves incorporating specific, measurable goals in each beach nourishment project and learning from the observed successes and failures, or outcomes of those projects when compared against the projects original expectations. Summarizing the process below:

- (1) Monitoring the implementation of each project in a manner meant to reveal any critical knowledge that was lacking in the project’s original design,
- (2) Analyzing the outcome of each project against its original objectives, and
- (3) Incorporating these results into future decisions regarding the projects included in the adopted CCMP by means of appropriate mid-course corrections.

In January of 1999, the Shore Protection Board issued its final report, making a number of recommendations to the Mayor and Town Council, including the implementation of the CCMP through adaptive management.

The Town Council reviewed the CCMP, and held three public meetings throughout the Town to receive input into the decision-making process. The CCMP was further discussed at Town Council meetings over a number of months where public debate continued. Some citizens raised concerns about the environmental damage that might be caused by the projects, the method of apportioning the costs of the projects (having them spread among all property owners in the Town in contrast to just beachfront property owners), and the potential effects of creating the Erosion Control line on the privacy and property rights of the Town’s residents. The Town Council adopted a scaled-back Coastal Management Plan on December 1, 1999. That action and the Town Council’s subsequent actions on these projects substantially outweigh the potential negative impacts. The prevailing opinion expressed by the residents at the Community Forums in November 2001 strongly supported this determination.

The CCMP update of 1999 summarized the 1986 CCMP objectives and included the following key action elements:

- Implement the Lake Worth Inlet Management Plan;
- Construct sand retention structures and restore and maintain beaches along the designated Reaches;
- Implement a comprehensive coastal monitoring and modeling program;
- Maintain, restore and/or replace existing coastal structures; and

- Renourish restored reaches periodically to sustain project benefits.

With the above listed elements identified to be implemented over a 10-year period, the Shore Protection Board was sunset by Town Council in 1999.

Per Ordinance No. 1-08, on July 8, 2008, the Town Council established that the Shore Protection Board “act in an advisory capacity to the Town Council and shall make recommendations to the Town Council on all matters relating to shore protection in the Town of Palm Beach.” On December 9, 2008, Town Council appointed seven (7) members who held their first meeting on December 17, 2008. During their first year, the board developed goals and objectives. With eight (8) objectives identified, the board prepared an Objectives Plan which included data collection, fact-finding, short-term shore protection actions, and long-term coastal management solutions. While assessing the Town’s coastal program through their Objectives Plan, the board also applied the twelve (12) conclusions, recommendations, and comments from the previous Shore Protection Board. Projects were prioritized and the Shore Protection Board concluded their first year of meetings with nine (9) specific recommendations to Town Council on November 10, 2009. In addition to the recommendations, the Shore Protection Board provided Town Council with a 10-Year Coastal Management Plan. Although the 10-Year plan was not adopted by Town Council, the document served as the framework for a plan later adopted by Town Council.

In June 2013, following more than one (1) year of peer review performed by Woods Hole Group, Town Council adopted a long-term 10-Year Plan for the Town’s Coastal Management Program. The plan called for implementation of specific projects and monitoring to occur between fiscal years 2014 and 2023.

The Shore Protection Board continues to meet at least four (4) times per year and reports to the Town Council annually. To facilitate civic involvement by its citizens the Town Council adopted Ordinance No. 06-2017 which will impose term limits for the Shore Protection Board members and add three (3) alternate members.

Impacts of the Issue

The impact of shoreline protection and the protection of submerged lands is paramount to the continued quality of life, and perhaps even the survival of Palm Beach. This topic has broad implications from social, economic, and environmental points of view. The issue is not new to Palm Beach since the Town has been dealing with beach nourishment and environmental protection issues for years. The recreational opportunities afforded by the Town’s beaches and natural areas constitute the economic foundation for the living environment. It is anticipated that the issues outlined in this section will receive the highest level of priority from the Town Council. The Town’s Comprehensive Plan and Zoning Code provide guidance as to the status of submerged lands located within the Town limits.

Submerged land beyond the physical shoreline of Lake Worth and the Palm Beach Inlet within the Town's corporate limits has a future land use designation of Conservation and no land development or redevelopment is allowed. This prohibition does not preclude Palm Beach County, Florida Inland Navigation District or the Army Corp. from creating spoil islands that would be designated Conservation on the Town's Future Land Use Map. Historically, since 1960 (Ordinance No. 3-60, prior to the Comprehensive Plan, as defined by the 1975 Growth Management Act, the Town's land development regulations have not allowed structures, other than docks, constructed over the waters of Lake Worth. The Town continues to vigorously enforce these regulations.

Unanticipated Changes in Circumstances

Although this high priority issue is ongoing, many unanticipated changes in circumstances routinely evolve throughout the implementation process. Funding, availability of federal, state and other revenue sources as well as multi-jurisdictional regulatory review processes affect the timing, scale and scope of these types of projects.

Resulting Problems or Opportunities

Policy 5.6 in the Town's Coastal Management/ Conservation Element identify the bulkhead line in Lake Worth as the mean high water line (MHWL). However, the Town believes that in order to prevent future attempts at development of submerged lands in Lake Worth (with the exception of docks), lands west of the mean high water line shall always be Conservation on the Future Land Use Map

Dunes are created when onshore winds move sand inland from the beach, forming mounds of sand which are trapped and stabilized by specially adapted grasses and herbaceous vines.

Dunes are easily disturbed by pedestrian and vehicular traffic, which destroy the delicate vegetative fabric holding the sand in place. Small disturbances often develop into large barren areas, or "blowouts", which can be self-perpetuating, ultimately resulting in gaps in the dunes which diminish landward property protection. Many of the dunes in Palm Beach have been built upon, landscaped as part of residential yards, or used as a roadbed. With a seawall fronting the dune, and its other surfaces covered by man-made improvements, the dune has often been transformed from a natural and dynamic element of the shoreline ecology to an essentially stable, topographic feature.

In some areas of the Town, construction has been limited to the top of the foredune, leaving the seaward slope of the dune principally unaltered. Because these dunes cannot migrate away from the eroding beach, they often experience severe erosion. Examples are scattered throughout the Town, but are most evident south of the Lake Worth Municipal Park. These 20' high dunes are experiencing erosion along nearly the entire stretch of beach. As erosion increases, dunes backed by a shore protection structure are likely to begin experiencing erosion as well.

Phipps Ocean Park has a healthy foredune slope, but is similarly stabilized on and behind the ridge by old State Road A1A, and picnic and parking areas. This dune is mainly vegetated by seaoats, with seagrapes growing on the upper part. Seedlings and pines are removed by the Town's Public Works Department before they damage the native dune vegetation.

Several dynamic dune systems remain. The Town-owned Par Three Golf Course fronts an undulating series of 15' to 20' dunes mainly vegetated by seaoats with scattered growths of low-lying herbaceous plants. The northern part of the Town, near the Lake Worth Inlet jetties, has a very low series of moderately vegetated dunes. This area receives the benefits of the Inlet sand transfer plant, and thus has a wide, gently sloping beach.

Dunes are protected by Town Ordinance, which prohibits disturbance of dunes or dune vegetation without a special permit from the Town. The ordinance includes strict vegetation planting and trimming controls, and includes a dune maintenance program.

Utilization of Natural Resources

The natural environment in the Town of Palm Beach is almost exclusively used for recreation and aesthetic enjoyment. No commercial fishing industries operate from Palm Beach. The Town is a dedicated bird sanctuary.

The majority of the Town's natural resources are concentrated along shoreline areas. The beaches are the focus of swimming, walking, snorkeling and surfing activities. Vistas to the Ocean and Lake Worth Lagoon are a valued accommodation. Lake Worth Lagoon is also used to moor boats and to obtain access to the Intracoastal Waterway.

Much of the Town's unique beauty arises from the prolific, lush vegetation growing around homes and along roads. This vegetation also improves air quality, reduces noise, and moderates the climate. Native species receive additional benefits, such as habitat for endangered wildlife, shoreline stabilization, and protection for coastal areas. Estuarine shoreline vegetation, such as mangroves and salt marsh, can also improve water quality.

The Town protects its unique vegetative environment with an ordinance requiring Town Council approval for trimming and removal of designated historic trees; another ordinance that prevents removal, and strictly controls trimming of mangroves; and, a general policy that discourages the removal of trees unprotected by these ordinances. The Town will be updating their regulations in 2017/2018 to further clarify tree removal and landscaping standards, prohibiting planting of pestilent exotics, and outlining ways in which ecologically beneficial communities could be created as part of revegetation projects.

The elimination of pestilent exotics is a major environmental concern. Gradual removal would prevent shock to surrounding native vegetation. Dead vegetation decomposes, becoming part of the natural system. This is an excellent, inexpensive method for isolated areas, such as spoil

islands, where the cost and labor of removing exotic vegetation is prohibitive. Herbicide should be applied by professionals under advisement of a qualified biologist, and should not be applied during nesting season, as the birds are easily frightened by human disturbances. The Town requires removal of Brazilian Pepper and Australian Pine during site development.

EXISTING LAND USE AND RELATED LAND USE ISSUES

The Town Beach lies entirely within the coastal zone and is an urban, built-up area approaching saturation. Land uses are primarily in the form of residential, commercial, public, private group use, and conservation uses. There are no agricultural or industrial uses in the Town. More detailed discussion of land use patterns is provided in the Land Use Element.

Water-dependent and water-related uses in the Town are identified and described on the map and table provided in the supporting documentation to the Plan.

Of the Town's twelve miles of shoreline, approximately 4,760 linear feet, or approximately 8%, is accessible for public bathing and recreational purposes. Of this, about 4,245 linear feet is in Town ownership, 515 linear feet is owned by the County. The City of Lake Worth's "Casino Complex" includes an additional 1,300 linear feet of public beach which is actually located between Kreusler Park and the southernmost 1.2 miles of the Town. There are also several street ends that provide public access to the beach in the northern part of Town.

FUTURE LAND USE AND DEVELOPMENT IMPACTS

Little or no affect is expected upon estuarine conditions as a result of development or redevelopment. The Town is essentially built out, and future development is limited. Redevelopment is possible in certain areas where, consistent with the Town's comprehensive plan and zoning regulations. The previous update to the comprehensive plan identified that estates could be subdivided into smaller parcels, however the recent trend has been combining lots to create larger parcels as opposed to subdividing.

While the Town generally considers any loss of remaining areas of estate character or increase in density to be undesirable, it is possible that new development or redevelopment could improve water quality, due to the requirement that such developments provide for on-site retention of the first two inches of rainfall.

The majority of remaining native shoreline vegetation is located on narrow undevelopable strips along State Road A1A, or on spoil islands in the Lagoon. Mangroves are protected by a Town ordinance, and by State and County regulations. The Army Corps of Engineers and the State Department of Environmental Protection also have authority if dredge and fill activity is involved.

In June of 2015, the Florida Department of Environmental Protection (FDEP) released a study,

Critically Eroded Beaches, and noted the “area extending south of Lake Worth Inlet along the town of Palm Beach (R76-R128) as 10.9 miles of critical erosion threatening private development, local parks, and State Road AIA.

As a result of that study a new policy has been added to explore the possibility of designating the Town as an Area of Critical Concern pursuant to Florida Statutes 380.05(3). The Areas of Critical State Concern Program was created by the "Florida Environmental Land and Water Management Act of 1972." According to the State of Florida Department of Economic Opportunity (DEO), the program is “intended to protect resources and public facilities of major statewide significance, within designated geographic areas, from uncontrolled development that would cause substantial deterioration of such resources.” Based on the need to protect the Town’s shoreline, natural and historic resources coupled with sea level rise and development impacts from adjacent municipalities and agencies, this designation should at least be explored as a way to protect and preserve the community.

REMEDIES FOR EXISTING POLLUTION

Stormwater discharge is a major water quality problem for the Town. Drainage improvements have focused on eliminating flood-prone pockets on the Island rather than on improving water requirements. New developments must retain the first two inches of rainfall to prevent any further degradation of water quality from this source. It is more difficult, however, to remedy existing sources of stormwater runoff since the high water table would require large surface areas for retention. Given the fact that the Town is virtually fully developed, there is little or no opportunity to create new upland retention areas which would allow infiltration and settling prior to discharge into the Lake. Exfiltration drainage systems, which operate underground, are also limited by the high water table.

The Town recognizes the importance of improved water quality in Lake Worth, but also realizes that any major retrofitting of the system will require study and time. The Town's National Pollutant Discharge Elimination System (NPDES) permit will require a number of preventative methods and techniques, structural controls, and public education to improve the quality of stormwater runoff from upland properties.

Water quality can be improved by revegetating shorelines, as described earlier in this Element. Shoreline vegetation would supply nutrient absorption and moderate sediment stabilization. In addition, using County funds to place rip-rap along bulkhead shores would reduce wave energies, and encourage new mangroves and seagrasses in those areas shallow enough to promote such growth. The Town and the County have entered into an Inter Local Agreement to provide environmental enhancement to Town owned properties along the Lake Worth Lagoon. Projects are to include capping mud sediments, placement of hard structures to encourage oyster growth and planting grasses and mangroves.

INFRASTRUCTURE AND NATURAL DISASTER PLANNING

Since the Town is located entirely within the coastal zone, inventory and analyses of existing and needed public infrastructure are covered in detail in other Elements of this Plan.

All of Palm Beach is within the hurricane vulnerability zone; therefore, there are no suitable evacuation shelters within the Town. Consequently, Town residents must rely upon public or private shelters located in inland areas of the County. However, in 2012 Palm Beach County updated its mandatory evacuation maps whereby the Town is not under a mandatory evacuation unless it is a Category 2 storm or higher.

The Coastal High Hazard Area (CHHA) is defined as “[t]he area below the elevation of the category 1 storm surge line as established by a Sea, Lake and Overland Surges from Hurricanes (SLOSH) computerized storm surge model.” This area is a narrow area along the coast of the island, and is delineated in the future land use map series. Future infrastructure and public and private development within the CHHA will be restricted except when doing so is not feasible. The Town is legally limited in its ability to restrict development of private properties located in the CHHA. However, the Town has long recognized the wisdom of limiting development densities and discouraging inordinate growth. The Town will continue to do so through the implementation of this Comprehensive Plan which has as one of its basic tenets the effort to lower the patterns of density wherever legally and practically possible.

The area seaward of the Coastal Construction Control Line (CCCL) is the area of most significant exposure to natural disasters.

The development history of Palm Beach is punctuated by the occurrence of two types of severe storms: hurricanes and northeasters. The Town recognizes that rebuilding of privately owned structures which are located outside of the areas of major exposure to natural disasters must be permitted. Areas located seaward of the CCCL are those with greatest exposure to natural disasters. Therefore, following damage from a major storm, local government has a number of alternatives:

- The first is to decide the level of damage beyond which the Town will consider alternatives to reconstruction of the structure to its pre-storm state. The threshold most commonly used is 50% of the value of the structure. This is also the standard used in the National Flood Insurance Program.
- An alternative is to require reconstruction landward of the CCCL only if there is sufficient land to accommodate reconstruction in this area, or to allow reconstruction seaward of the CCCL if Florida Department of Environmental Protection (FDEP) standards are met.

In addition, it would be beneficial to require that all post-disaster redevelopment of properties, damaged greater than 50% of their pre-storm value, provide for on-site drainage retention.

The Town implemented a reverse 911 system several years ago but decided to eliminate the service due to high cost and little use. Instead, the Town has access to Palm Beach County's Reverse 911 program to make calls directly to Town residents in the event of an emergency situation. Other notification services, such as electronic alerts sent via email and text messages have been added over the last few years as a part of the Town's efforts to improve communications to its residents and business community.

The Town's Comprehensive Emergency Management Plan (CEMP) was re-written in 2012. The CEMP, which includes the Storm Emergency Response Plan (SERP) and Continuity of Operations Plan (COOP) is reviewed and updated annually (as needed). The Town's Emergency Planning Team (EPT) includes representatives from each department and is responsible for year-round planning efforts to ensure the Town is properly prepared to respond to emergency situations.

GOALS, OBJECTIVES AND POLICIES

GOAL

PRESERVE, PROTECT AND ENHANCE THE NATURAL AND HISTORIC RESOURCES OF THE TOWN, AND LIMIT PUBLIC EXPENDITURES IN AREAS SUBJECT TO DESTRUCTION BY NATURAL DISASTERS, WHILE ENSURING MAXIMUM ENJOYMENT AND MINIMUM EXPOSURE OF HUMAN LIFE IN THE COASTAL ZONE.

OBJECTIVE 1

The Town shall protect the quality of its air from degradation. The measurement of this objective is the extent to which air quality is protected, and the degree to which the following policies are implemented.

POLICY 1.1

Continue to prohibit industry within the Town through existing restraints in the Zoning Code.

POLICY 1.2

Continue to prohibit commercial development from spreading beyond commercial areas as designated in the Zoning Code.

POLICY 1.3

Maintain lush vegetated strips, along roadways and in high density areas, through enforcement of the Historic and Specimen Tree Ordinance, landscaping ordinance, and through Town initiated landscaping projects.

POLICY 1.4

The Town will annually review the Palm Beach County Air Quality Report. Should this report cite the Town for air quality degradation, the Town shall develop methods for addressing the problems within one year of the report date. Implementation of proposed methods will ensue within an additional year.

OBJECTIVE 2

The Town shall protect native vegetational communities and their associated wildlife. The measurement of this objective is the extent to which native vegetation is protected and restored,

and the degree to which the following policies are implemented.

POLICY 2.1

Modify the Town's Landscape Ordinance to:

- 2.1a Incorporate standards for tree removal, landscaping aesthetics, and minimum native vegetation requirements;
- 2.1b Prohibit planting of pestilent exotics; and require removal of pestilent exotic species from sites of new construction or development.
- 2.1c Prohibit removal of vegetation species listed as endangered or threatened by State or Federal agencies on publicly-owned property and new private development.
- 2.1d Allow very limited trimming of shoreline vegetation for visual access, upon the approval of the Town and any other government agencies having jurisdiction.

POLICY 2.2

The Town will continue to serve as coordinator in support of efforts to revegetate, and remove exotic vegetation from, the Lake Worth shoreline.

POLICY 2.3

The Town will continue to use native or drought resistant vegetation in all public landscaping projects.

POLICY 2.4

The Town shall change its land redevelopment regulations to stipulate that no development or construction which destroys wetland vegetation, including seagrass beds, shall be permitted in the Town unless the loss is 100% mitigated, and unless the applicant has received the approval of any other governmental agency having jurisdiction.

OBJECTIVE 3

Protect and preserve, native vegetated areas, wildlife and its habitats, especially those species listed by State and Federal agencies as threatened or endangered. The measurement of this objective shall be the extent to which wildlife is protected and preserved, and the degree to which the following policies are implemented.

POLICY 3.1

Continue assisting with sea turtle nesting studies each year for the duration of the planning period.

POLICY 3.2

The Town will continue to cooperate with the appropriate local, state and federal agencies for the protection of wildlife, endangered and threatened species and significant plant, flora, fauna and animal habitats.

POLICY 3.3

The Town will continue to protect and conserve the natural functions of existing soils, fisheries, rivers, lakes, floodplains, estuarine marshes, native habitats/plant materials/ecosystems and marine habitats through enforcement of existing local, state, and federal regulations designed to protect and conserve these functions

POLICY 3.4

The Town will continue to enforce landscaping standards that require the preservation of existing natural growth where practical, and the removal of invasive, exotic plant species.

OBJECTIVE 4

Protect and restore wetland habitat and estuarine water quality in the Town, thereby protecting fisheries and marine habitat. The measurement of this objective is the extent to which wetland habitat and estuarine quality are protected, and the degree to which the following policies are implemented.

POLICY 4.1

The Town shall update its Long Range Public Works Plan (Storm Drainage Chapter) regularly to meet the requirements of the EPA NPDES Program, when necessary.

POLICY 4.2

Ensure that the negative impacts of stormwater discharge upon water quality in Lake Worth are ameliorated by the retention of the first two inches of rainfall prior to discharge into the Town system, or the post-development runoff does not exceed predevelopment runoff for a three-year one-hour storm, whichever is greater.

OBJECTIVE 5

The Town shall protect and restore its beaches and dunes. The measurement of this objective is the extent to which beaches and shores are protected and restored, and the degree to which the

following policies are implemented.

POLICY 5.1

The Town will manage its beach resources through the Comprehensive Coastal Management Plan (CCMP) and the scope and cost of the CCMP will be reviewed annually by Town staff, the Shore Protection Board, and Town Council

POLICY 5.2

The Town shall consider all possible structural or non-structural alternatives for beach protection and beach erosion prevention, consistent with the Town's Comprehensive Coastal Management Plan.

POLICY 5.3

The Town shall require that all new development and redevelopment on the Atlantic shore restore dunes, where restoration potential exists and is necessary, as determined by the Town and FDEP.

POLICY 5.4

The Town shall maintain its bulkhead line along Lake Worth at the mean high water line.

POLICY 5.5

The Town shall continue to enforce Land Development Regulations which minimize the impact of man-made structures on beach and dune systems, as well as specific measures and guidelines for dune protection, restoration and maintenance.

POLICY 5.6

The Town shall evaluate opportunities to protect coastal investments and infrastructure, as necessary and feasible, from the impacts of climate change. Specifically, the Town will maintain shoreline protection and erosion control by:

- a) Continuing the appropriate use of beach nourishment;
- b) Facilitating the installation and maintenance of native beach dune vegetation along appropriate areas of beach;
- c) Continuing to implement the Comprehensive Coastal Management Plan through 2023 with input from the Shore Protection Board.
- d) Establishing the bulkhead line in Lake Worth as the Mean High Water Line (MHWL).

POLICY 5.7

Explore the possibility with the Treasure Coast Regional Planning Council, pursuant to Florida Statutes 380.05(3) of designating the Town as an Area of Critical Concern as it

relates to the shoreline, natural and historic resources and sea level rise. The basis for seeking this designation is the Florida Department of Environmental Protection (FDEP) June 2015 Study, Critically Eroded Beaches, noted the “area extending south of Lake Worth Inlet along the town of Palm Beach (R76-R128) are 10.9 miles of critical erosion threatening private development, local parks, and State Road AIA.

OBJECTIVE 6

Protect soils and groundwater by establishing standards which will minimize the impacts of construction, and by preventing hazardous wastes contamination. The measurement of this objective is the extent to which soils and groundwater are protected, and the degree to which the following policies are implemented.

POLICY 6.1

The Town will require soil erosion control techniques be used during construction.

POLICY 6.2

The Town will regulate the installation of underground storage tanks for petroleum products in a manner consistent with the regulations of the Florida Department of Environmental Protection.

POLICY 6.3

The Town will continue mutual aid agreements with West Palm Beach and Palm Beach County for hazardous materials removal and storage.

OBJECTIVE 7

The Town will continue to enforce Land Development Regulations which establish priorities for shoreline uses.

POLICY 7.1

The Town shall continue to implement priorities for the remaining limited opportunities for shoreline land uses in the Town.

OBJECTIVE 8

The Town will provide and maintain existing public access to beach areas which have been nourished at public expense, publicly-owned beachfront parks, and the Municipal Docks on Lake Worth. The measurability of this objective is the extent to which public access is provided and maintained, and the degree to which the following policies are implemented.

POLICY 8.1

The Town will inspect public access facilities on an annual basis for impediments or structural damage. The Town will eliminate any impediments to public access on a priority basis.

POLICY 8.2

In order to maintain visual access to Lake Worth, the Town shall allow selective trimming of vegetated areas along the shoreline when such trimming is accompanied by measures to improve the natural resources of the shoreline.

POLICY 8.3

The Town shall provide public access to beach areas nourished at public expense unless otherwise exempted by the Florida Department of Environmental Protection.

POLICY 8.4

The Town will enforce the public access requirements of the 1985 Coastal Zone Protection Act.

POLICY 8.5

The Town shall continue to provide and maintain existing on-street parking facilities at near beach access points.

OBJECTIVE 9

The Town shall protect and preserve its prehistoric and historic resources. The measurement of this objective shall be the extent to which such resources are protected, and the degree to which the following policies are implemented.

POLICY 9.1

The Town will update its list of historic structures as needed.

POLICY 9.2

Continue to designate structures, sites, and districts considered worthy of Landmarking in accordance with the Town's Code of Ordinances.

POLICY 9.3

Prevent destruction of Historic Landmark Structures through provisions in the Town's Code of Ordinances.

POLICY 9.4

The Town will address preservation of prehistoric resources in its optional Historic Preservation Element.

OBJECTIVE 10

The Town shall increase public awareness of potential hazards to human life in the event of a natural disaster. The measurement of this objective is the extent which public awareness is increased, and the degree which the following policy is implemented.

POLICY 10.1

At least once per year during the hurricane season, publish basic hurricane evacuation precautionary information.

OBJECTIVE 11

When an emergency evacuation is necessary, protect, within the Town's ability, residents and visitors, and maintain or reduce evacuation times. The measurement of this objective is the extent which population exodus is provided, and the degree which the following policies are implemented.

POLICY 11.1

Once a hurricane watch has been declared, the Town shall coordinate with the County Emergency Management officials to facilitate orderly and timely evacuation of residents and visitors in the Town.

POLICY 11.2

The Town shall annually review Palm Beach County's Hurricane Evacuation Plan to identify any changes that may affect the evacuation of Town residents during a storm event, and shall ensure that the Town's Hurricane Evacuation Plan remains integrated with the County's Plan by amending the Town's Plan, as necessary.

POLICY 11.3

Through the Treasure Coast Regional Planning Council (TCRPC) and their Hurricane Evacuation Model, ensure traffic impacts of proposed development in adjacent municipalities within concurrency exemption zones address all factors including, but not limited to:

- a. Increased development

- b. Bridge crossing and times
- c. Increased passenger rail traffic
- d. Increased freight rail
- e. Hurricane sheltering

OBJECTIVE 12

Foster post-disaster redevelopment that will reduce or minimize exposure of human life and public or private property to the effects of natural disasters, particularly hurricanes. The measurement of this objective is the extent which exposure of life and property is reduced, and the degree which the following policies are implemented.

POLICY 12.1

The Town will continue to support and use the post-disaster redevelopment plan sponsored and published by the Countywide Issues Forum.

OBJECTIVE 13

The Town shall continue to employ its criteria for marina siting.

POLICY 13.1

The Town shall continue to require, as part of its building permitting process, that:

- a All new marinas, docks, and boat ramps will be located and designed in accordance with the Manatee Protection Plan, published by the FDEP and Palm Beach County.

Marinas are situated adjacent to recreational or commercial land uses, and have adequate upland support services.

- c Marinas do not adversely affect environmental quality of Lake Worth.

- d Marinas are economically feasible as established by a feasibility study.

OBJECTIVE 14

Public access shall be maintained to all recreational facilities, including recreational and commercial working waterfronts consistent with Florida Statutes, under the jurisdiction of the Town of Palm Beach.

POLICY 14.1

The Town will, on a continuing basis, inspect public access points at public facilities located within the Town of Palm Beach, but not under the Town's jurisdiction, to identify any impediments to access. The Town will notify respective governing agencies of impediments within three months of their identification.

OBJECTIVE 15

The Town shall adopt and implement policies that increase community resiliency and protect property, infrastructure, and cultural and natural resources from the impacts of climate change, including sea level rise, changes in rainfall patterns, and extreme weather events

POLICY 15.1

The Town will continue to participate in the National Flood Insurance Program Community Rating System (CRS) and strive to maintain or improve its current CRS rating.

POLICY 15.2

The Town will require that the impact of sea level rise be addressed in all Future Land Use Map amendments

POLICY 15.1

Publicly funded facilities that subsidize development will not be built in the Coastal High Hazard Area. However, this limitation does not apply to such facilities necessary to serve projects approved under prior development orders but not yet built, or to such facilities necessary to maintain adequate levels of public facilities and services to existing residents. Nor does it apply to publicly funded projects associated with providing beach restoration, public access, recreation, resource restoration, or the rehabilitation, maintenance or construction of shore protection structures such as groins, revetments or seawalls.

POLICY 15.2

The Town shall not expand utility systems or public services that would be necessitated by increased development within the Coastal High Hazard Area.

POLICY 15.3

The Town will continue to enforce its building code and drainage requirements. The Town will coordinate with, and will rely on, the Florida Department of Environmental Protection to enforce building limitations seaward of the Coastal Construction Control Line.

POLICY 15.4

The Town shall continue to prohibit the use of septic tanks.

POLICY 15.5

The Town will mitigate hazards through building practices and implementation of FEMA requirements, stormwater retention requirements, and other restrictions within the Coastal High Hazard Area.

POLICY 15.6

The Town will limit residential development within the Coastal High Hazard Area (CHHA).

POLICY 15.7

The Town will limit public building and infrastructure investment in the CHHA.

POLICY 15.8

Town-funded public facilities shall not be built in the coastal high hazard area, except for purposes of public safety and/or access, enhancement of water-related activities or significant resource protection.

POLICY 15.9

The Town will not permit density increases in the CHHA for redevelopment and new development unless such requests are consistent with this Comprehensive Plan.

POLICY 15.10

Continue to examine community-wide strategies to increase the resiliency of the Town to address future effects of coastal storms and climate change on the community.

POLICY 15.11

The Town shall collaborate with Palm Beach County to increase regional resilience by sharing technical expertise, assessing local vulnerabilities, advancing agreed upon mitigation and adaptation strategies, and developing joint state and federal legislation policies and programs.

POLICY 15.12

The Town shall continue to utilize best practices and initiate mitigation strategies to reduce the risk of flooding in coastal areas that may result from high tide events, storm surge, flash floods, stormwater runoff, and the related impacts of sea level rise.

OBJECTIVE 16

The Town will continue to promote ways to reduce Greenhouse Gas Emissions and become more Energy Efficient.

POLICY 16.1

As provided in the Town's Energy Efficiency and Conservation Strategy (EECS) the Town will help the community take advantage of technologies, incentives, and knowledge to conserve energy use in homes and businesses.

POLICY 16.2

The Town will use the EECS to optimize the way energy is consumed within municipal operations and identify ways to use renewable energy and offset energy use overall.

RECREATION/OPEN SPACE ELEMENT

INTRODUCTION

The purpose of this Element is to plan for a comprehensive system of public and private recreation and open space sites which are available to the public.

This Element of the Plan has been developed based upon:

1. Inventory and analysis of existing public and private recreation sites, and open spaces available to the public;
2. Analysis of current need for recreation sites;
3. Analysis of projected future needs for recreation sites, open space and recreation facilities.

EXECUTIVE SUMMARY

RECREATION INVENTORY

Town of Palm Beach residents enjoy the opportunity to participate in a wide variety of recreational pursuits provided by several local, State and national resources, and facilities located in the general vicinity.

Parks, Open Space and Water Access

Only two of the four major recreation areas within the Town are fully under the jurisdiction of the Town itself. The Casino Complex is located in and owned by the City of Lake Worth. Kreusler Park is a Palm Beach County Park, although it is located within the Town's corporate limits.

Table VI-1 provides a summary of all recreation and park areas of the Town. Table VI-2 provides a summary of the cultural and school facilities within the Town that are counted at 50% for the Town's recreation Level of Service. Table VI-3 provides a summary of private clubs and recreation facilities within the Town. Please refer to the Supporting Documents for a map identifying the locations of these recreational facilities.

**TABLE VI-1
Town Recreation, Park, and Open Space Facilities
Town of Palm Beach**

PARK FACILITY	APPROX. ACREAGE
Major Recreation Areas	
Phipps Ocean Park	20.59
Lake Worth Casino and Beach Complex ¹	8.30
Kreusler Park ²	4.23
Seaview Park	4.57
Neighborhood / Mini / Other Parks	
Boyd Park	0.16
Bradley Park	3.70
Ibis Isle Road Park	1.09
Lake Drive Park	2.53
Midtown Beach	12.80
Palm Beach Par 3 Golf Course	31.60
Palmo Way Park	2.56
Park Avenue Park	0.12
Peruvian Park	0.44
Phipps Plaza Park	0.50
Southern Causeway	9.60
Town Square	0.39
Wrightsmen Estate Park (Tangier/Miraflores Drive)	1.49
Total Town Park Acreages	104.67
Other Town Park Facilities	
Lake Trail	4.7 miles
Palm Beach Inlet Dock	1 dock
Southern Pedestrian Bicycle Path	3.5 miles
Town Docks	83 slips

¹ Owned and Operated by the City of Lake Worth

² Owned and Operated by Palm Beach County Park & Recreation

Note: Lake Worth Casino and Beach Complex and Kreusler Park have always be included as part of the Town’s Recreation LOS

**TABLE VI-2
Town Cultural and School Facilities and Private Parks
Town of Palm Beach**

FACILITY	APPROX. ACREAGE
Cultural Facilities	
Flagler Museum	2.80
Kaplan Park (Public Access)	0.30
Palm Beach Preservation Foundation – Ambassador Earl T. Smith Memorial Park and Foundation	0.24
Palm Beach Preservation Foundation – Pan’s Garden	0.43
Preservation Park (Public Access)	0.24
Royal Poinciana Playhouse	0.30
Society of the Four Arts	3.75
School Facilities	
Palm Beach Elementary School	1.60
Palm Beach Day Academy	1.50
Total Cultural and School Facilities Acreage	11.16
Acreage towards Town Park LOS (50%)	5.58

Note: Cultural Facilities have previously been utilized at 50% to meet the Town’s Recreation LOS.

**TABLE VI-3
Private Clubs and Facilities
Town of Palm Beach**

FACILITY	APPROX. ACREAGE
Mar a Lago	17.51
Bath and Tennis Club	11.69
Palm Beach Country Club	84.01
Breakers	140.00
Everglades Club	91.43

Beach Club	4.56
Sailfish Club	3.02
Total Private Parks and Facilities Acreage	352.22

Bicycle Paths

Lake Trail: This 4.7 walk and bicycle path includes the original Lake Trail which parallels Lake Worth from approximately Worth Avenue to the Palm Beach Inlet area. The original Lake Trail is a beautiful setting, offering residents not only a transportation route, but a recreational experience as well.

County Road Pedestrian Path/Bicycle Lane: This 1.1-mile general path and bicycle lane extends from Kawama Lane to Bahama Lane and provides a more tranquil travel route from the heavily traveled North County Road. It is Town maintained.

Southern Pedestrian/Bicycle Path: This 3.5 mile path runs from the southern Town limits to Sloan's Curve on the west side of A1A. Although allowing access to Phipps Park, it borders the heavily traveled A1A, and thus lacks the beauty and tranquility of Lake Trail. It is maintained by the Town.

Lake Worth and Public Beach Access

Public access to Lake Worth is provided from the Town's municipal docks. Additionally, the numerous private docks located within the Town provide access for certain private property owners. The Town also has numerous public beach access points throughout the Town and within the Town's beachfront parks.

Fishing

Although favorite fishing locations have not been documented as part of this planning study, fishing is available from many locations along the Atlantic Ocean and on Lake Worth.

Natural Islands

This series of islands, totaling approximately 39 acres, stretches from Everglades Island south to Ibis Isle, and is strictly limited in use. Deed restrictions, designating the islands for public or bird sanctuary use, are placed on the islands owned by the State of Florida (Trustees of the Internal Improvement Fund). Other islands are leased to the National Audubon Society for 99 years and serve as bird sanctuaries.

Cultural Facilities

Royal Poinciana Playhouse: Located on 0.30 acres, at Coconut Row and Royal Poinciana

Way, the Playhouse in the past offered s ballet, opera, Broadway plays, and cultural events from January until April and during the off-season, the theater conducted s children's events, workshops, artist's recitals and concerts. The venue has been closed but is still structurally sound and may be re-utilized as a theatre in the future.

Henry Morrison Flagler Museum: Located on Whitehall Way, this restored 1901 home was built by oil and railroad tycoon, H.M. Flagler. The entire complex of "Whitehall", encompassing 2.80 acres, is included in the National Register of Historic Places, the Historical Buildings Survey of the Department of the Interior, and the "Florida Trail of History."

In addition to the period rooms, the mansion displays collections of porcelain, silver, glass, lace, dolls, costumes, and paintings acquired by the family. Local historical exhibits, accented by Florida East Coast Railroad background, including Mr. Flagler's private rail car, are also available for viewing. A library, of the Post-Times issues from 1916-1956 is maintained within the home. Charitable events, concerts, lectures, special exhibitions, and school proms often take place at "Whitehall".

Society of the Four Arts: Occupying 3.75 acres, located in the Four Arts Plaza and founded in 1936, the Society has as its objective the encouragement of an appreciation of art, music, drama, and literature. The Society accomplishes its objectives through the maintenance of a sculpture garden and library, and sponsorship of programs, including: exhibitions, lectures, concerts, and films.

Programs sponsored by the Society of the Four Arts are available from December through mid-April. The library and gardens are open to the public year-round. The Town supports the operations of the Library through an annual contribution.

Palm Beach Preservation Foundation — Ambassador Earl T. Smith Memorial Park and Fountain: Occupying 0.24 acres, this small pedestrian-oriented park facility is open to the public year-round, 24-hours. The park features lush landscaping and a fountain with casual seating.

Palm Beach Preservation Foundation — Pan's Garden: Occupying 0.43 acres, this facility includes a demonstration of native plant species and small office and lecture facilities for public viewing, school lectures on native habitat, and private functions. The park is generally open to the public at limited, variable hours and may be closed for private functions, lectures or limited public ceremonies.

NOTE: For recreation inventory calculation purposes, cultural facilities have been credited at 3.76 acres, 50% of actual acreage, and are used by the Town to meet its recreation standard.

Civic Clubs/Associations

The key role which private clubs play in the Town of Palm Beach recreational scene is very apparent in their relations with the civic clubs/associations' activities.

Private Facilities

Private clubs and golf courses represent a very real and active sector of the recreation scene in the Town of Palm Beach. In combination, these clubs and courses provide 18-hole golf courses, tennis courts, and boat slips. In addition, several thousand linear feet of beach frontage is under private/club ownership. In total these uses provide 352.22 acres of recreational facilities in the Town. These facilities are not used by the Town in meeting its recreation standard.

Handicapped Facilities

Restroom facilities at all public recreation areas are accessible to the handicapped.

RECREATION STANDARDS

The Town of Palm Beach is uniquely characterized by a number of factors, including: its linear configuration, a predominately older population, a scarcity of available vacant land, and the presence of a community whose "plan" was well thought-out and executed. The Town's natural resources, beach-oriented parks, municipal docks, public golf course, and Seaview Park complex are adequate to provide both the community and neighborhood recreation needs of Town residents. Consequently, it has been the Town's policy to provide a variety of community-serving facilities and activities along its beachfront, and a limited number and scope of neighborhood parks and facilities.

The Town of Palm Beach has been able to provide sufficient recreation acreage to meet or exceed its recreation standard of six acres per one thousand population for its population through a long and consistent dedication to recreation planning, and the private sector's support through provision of cultural facilities.

EXISTING AND FUTURE RECREATION NEEDS

The development of a cohesive recreation plan for the Town must reflect those factors which affect the optimum size, type and distribution of recreation facilities. Such factors include the size, age and distribution of the existing and future population, and the location and condition of existing facilities, as well as the supporting role which the private sector plays in the recreation network.

The Town's planning standard is six acres of recreation per thousand population. The Town currently has 104.67 acres of park land and open space including the Kreusler Park (Palm Beach County) and Lake Worth Casino and Beach Complex (City of Lake Worth) both of which have always been counted towards the Town's recreation Level of Service (LOS). In addition, the Town has counted 50% of the acreage of the cultural and school facilities within the Town which represents an additional 5.58 acres resulting in a total of 110.25 acres of park land and open space.

Based on the corrected 2010 U.S. Census population figure for the Town of 8,161 residents, the Town is expected to have a minimum of 48.97 acres of recreation land. Therefore, the Town is exceeding the minimum required LOS for recreation. The Town will continue to meet the LOS for recreation through the year 2027.

**Table VI-4
Level of Service for Recreation and Open Space Acreage 2010 - 2025
Town of Palm Beach**

Year	Population	Park Acres	Demand	Surplus
2010¹	8,161	110.25	48.97	+61.28
2015²	8,227	110.25	49.36	+60.89
2020²	8,234	110.25	49.40	+60.85
2025²	8,425	110.25	50.55	+59.70

¹ 2010 U.S. Census; ² Palm Beach County, 2016

As stated in the preceding sections, the Town of Palm Beach is not a typical community. Town residents place great emphasis on private golf courses, clubs, and cultural enrichment. To a significant extent, these activities add to the Town’s public recreational facilities by providing for more personalized, service-oriented, recreation. In 2016, the Town conducted an extensive community survey regarding the Town’s park and recreation facilities and opportunities. The survey lead to a needs assessment and master plan for the Town’s Seaview Park and Recreation Center. Other park and recreation improvements were also identified.

In summation, the Town of Palm Beach, at present and into the future, has an excellent cultural/recreational mixture of public parks and facilities, supported by private golf courses and clubs.

GOALS, OBJECTIVES AND POLICIES

GOAL

ENSURE THE PROVISION OF LOW-INTENSITY RECREATIONAL USES, WHILE PRESERVING, TO THE MAXIMUM EXTENT POSSIBLE, THE RESIDENTIAL CHARACTER OF THE TOWN OF PALM BEACH.

OBJECTIVE 1

Public access shall be maintained to all recreational facilities, including recreational and commercial working waterfronts as defined in F.S. 342.07, under the jurisdiction of the Town of Palm Beach.

POLICY 1.1

The Town of Palm Beach shall identify inadequate access to its recreation facilities within one year of the adoption of this Comprehensive Plan.

POLICY 1.2

The Town of Palm Beach shall continue to implement corrective measures on all access points identified as inadequate.

POLICY 1.3

The Town will, as needed, inspect public access points at public facilities located within the Town, but not under the Town's jurisdiction, to identify any impediments to access. The Town will notify respective governing agencies of identified impediments within three months of their identification.

POLICY 1.4

Pursuant to F.S. 163.3177 and 163.3178, the Town shall devise regulatory incentives and criteria that encourage the preservation of recreational and commercial working waterfronts as defined in F.S. 342.07.

OBJECTIVE 2

In providing recreational amenities, the Town will ensure the continued mutual relationship between it and public and private sector ventures.

POLICY 2.1

The Town will offer regulatory assistance to protect private sector recreational providers which do not employ membership, employment, or usage policies that discriminate on the basis of race, color, sex, religion, or marital status. The Town will schedule, as needed, a staff workshop targeted at identifying and resolving private sector recreational issues.

POLICY 2.2

The Town recognizes the importance of the present informal mutual use agreement for the public and private school sites. The Town shall continue to maintain formal agreements with the Palm Beach County School Board and the Palm Beach Day Academy to ensure continued joint use.

OBJECTIVE 3

The Town will continue to maintain its system of parks and recreational facilities to meet the needs of the current and future resident population.

POLICY 3.1

The Town of Palm Beach adopts a minimum recreation standard of six acres per one thousand population. Acreage to be used in calculations to meet this standard shall include all public parks and recreation facilities in the Town, the Lake Worth Casino, and 50% of land associated with school facilities and private cultural facilities open to the public.

POLICY 3.2

Through the use of adequate operating budgets and proper management techniques, the Town will preserve and maintain existing parks and recreation facilities. The Town will review its operating budgets and management techniques as needed to ensure continued high level performance.

POLICY 3.3

All acquisitions of, and physical improvements to, park and recreation facilities costing greater than \$25,000 each, included in this Element, shall be scheduled in the Capital Improvements Element of this Comprehensive Plan. Capital items shall be prioritized and included on an as needed basis.

POLICY 3.4

The Town of Palm Beach shall review its park and recreation facilities for deficiency identification as needed.

POLICY 3.5

The Town of Palm Beach shall develop a master plan for maintaining, improving or redeveloping Seaview Park and Recreation Center.

POLICY 3.6

The Town of Palm Beach shall prioritize potential improvements to Town park and recreation facilities.

OBJECTIVE 4

Lands designated as open space will be protected, as provided in this and the Coastal Management/Conservation Element, and will remain functionally intact.

POLICY 4.1

Article 6, Section 21, of the Town's Zoning Ordinance, which requires that buffering be provided between parking lots and non-compatible adjacent uses (e.g. residential adjoining commercial), shall be maintained or strengthened during the Town's periodic update of its land development regulations.

POLICY 4.2

Article 4 of the Town's Zoning Ordinance provides, through its PUD provisions, for additional building height in exchange for decreased impervious ground coverage. This provision shall be maintained in the Town's land development regulations.

POLICY 4.3

The Town shall continue to maintain written agreements with the State of Florida Trustees of the Internal Improvement Fund and the Audubon Society that ensure the designation of the 39-acre natural islands for conservation use.

INTERGOVERNMENTAL COORDINATION ELEMENT

INTRODUCTION

The purpose of this Element is to identify and resolve incompatible aspects of proposed comprehensive plans of local governments, and to determine and respond to the needs for coordination processes and procedures with adjacent local governments and regional and state agencies.

This Element of the Plan has been developed based upon:

1. Identification, analysis, and description of coordination mechanisms with local governments and other agencies with which the Town of Palm Beach coordinates;
2. Analysis of the effectiveness of existing coordination mechanisms;
3. Analysis of specific problems and needs which would benefit from improved intergovernmental coordination;
4. Analysis of growth and development proposed in the local Comprehensive Plan;
5. Analysis pertaining to the relationship of the Plan with a designated Area of Critical State Concern, if applicable.

EXECUTIVE SUMMARY

This Element is intended to show relationships and identify principles and guidelines to be used to coordinate with, and show consideration of, the effects of the Town's Comprehensive Plan upon the plans of: school boards and other units of local government providing services, but not having regulatory authority over the use of lands in the Town; adjacent municipalities; the County, adjacent counties, or the region; and, the State.

In order to ensure that the actions of one governmental body do not impair the effectiveness and efficiency of another, a continuing and meaningful dialogue among the various parties is essential. It is the purpose of the Intergovernmental Coordination Element to ensure that the existing machinery of coordination continues and to establish other areas of coordination and cooperation.

Plans of the County and other local governments have been reviewed to determine impacts upon, or conflicts with, the Town's Plan. The Town will continue to review and evaluate plans of other governmental entities as they become available, while simultaneously submitting its Plan for review by the governing bodies of surrounding areas; regional agencies such as the South Florida Water Management District and the Treasure Coast Regional Planning Council; and, the State.

The Town's Comprehensive Plan is supportive of the major goals and objectives of the State Comprehensive Plan.

ANALYSIS

The Town's intergovernmental coordination with Federal, State, and regional agencies, and its interlocal agreements and contact with adjacent municipalities, has, unless noted below, proven to be effective.

There are no land use conflicts between existing or proposed uses in Palm Beach and the adjacent jurisdiction to the south. No conflicts between the goals, objectives or policies of the Town's Plan and the Regional Policy Plan exist. From a regional perspective, however, continued coordination is needed between the Town, County, region, adjacent municipalities, and other governmental entities, with regard to (1) development and resultant traffic generation on sections of roadways in Palm Beach; (2) coastal zone management issues; and, (3) plans for hurricane evacuation.

The individual elements of the Town's Comprehensive Plan have been examined to identify existing mechanisms for intergovernmental coordination, areas involving regional issues, and problem areas which can benefit from additional intergovernmental coordination. This analysis presents methods for identifying potential solutions to problems on an element-by-element basis.

Palm Beach is an urban, built-up area approaching saturation, with virtually no land area remaining undeveloped. Therefore, future growth and development will be minimal. A review of the Treasure Coast Regional Policy Plan established that no additional coordination with the region will be necessary to guide growth in the Town.

The Town is not in an Area of Critical State Concern, and no coordination is necessary in this regard.

The Town's Public School Facilities Element (PSFE) has been eliminated as a result of changes in the Florida Statutes that eliminated requirements for school level of service and school concurrency and the inclusion of a Public School Facilities Element within local Comprehensive Plans. Instead, the Town has added goals, objectives and policies to the Intergovernmental Coordination Element with regard to public school siting and development coordination (former Goal 2 and associated objectives and policies of the previous PSFE).

In order to implement the objectives and intent of the various Elements of the Town's Plan, it will be necessary for the following activities to be undertaken.

TRANSPORTATION ELEMENT

- Continue coordination with the Florida Department of Transportation, and other

appropriate agencies and local governments, regarding drainage work along State Road A1A; studies for rehabilitation of the Royal Park, Flagler Memorial, and Southern Boulevard Bridges; the possible addition of turning lanes on SR A1A between Lake Worth Road and Sloan's Curve; and, the possible provision of bicycle and pedestrian ways in future transportation planning. Coordination will occur through the Town's Public Works Department, as needed, in writing.

- Make recommendations to the Metropolitan Planning Organization as needed, based on review of the Transportation Element, and coordinate with the Regional Planning Council, regarding ways in which proposed projects could improve design deficiencies on major thoroughfares in the Town. Recommendations will be presented verbally or in writing to the Technical Advisory Committee by the Town's appointed member. Coordination with the Regional Planning Council will occur verbally and in writing through the Town's Planner/Projects Coordinator.
- Contact the Florida DOT for the purpose of determining an appropriate methodology for determining the level of service on roadways in the Town where there are no signals. The purpose of this effort will be to develop a constrained roadway strategy for SR A1A and Southern Boulevard within the Town.
- Coordinate the Town's transportation planning efforts with the plans and programs of the Metropolitan Planning Organization and the Florida Department of Transportation's Adopted 5-Year Work Program, and take into consideration public transportation and bicycle and pedestrian ways in future transportation planning.
- Review the Transportation Element as needed to determine its consistency with the Florida Department of Transportation's Adopted 5-Year Work Program, and plans for the Metropolitan Planning Organization, and make appropriate recommendations to these agencies regarding proposed projects that will improve design deficiencies on major thoroughfares in the Town.
- Coordinate with responsible governmental agencies external to the Town to incorporate provisions into their plans, programs and operations and developments within their jurisdictions which will minimize transportation impacts to the Town consistent with the Town's efforts to manage traffic congestion on its roadways. A primary objective is to minimize traffic impacts to SR 80 and other regionally significant roads leading to the Town.
- Submit request to Multi-Jurisdictional Coordinating Forum that, when a new development is proposed which may increase traffic on regionally significant roadways in the Town, the jurisdiction in which such development is to be located will provide the Town with sufficient data to allow the Town to assess the traffic impact of the proposed development upon regionally significant roadways in the Town and upon the Town's transportation

system in general.

HOUSING ELEMENT

- The Town's Planning Administrator shall maintain contact with the Florida Division of Archives in reference to the designation of additional historic or prehistoric sites or structures, through verbal communication, monthly written exchange, data exchange, and through other channels established by the Town's designation as a Certified Local Government.
- The Town's Planning Administrator shall coordinate with Palm Beach County on affordable housing issues through written and verbal contacts on an as needed basis.

INFRASTRUCTURE ELEMENT

- Continue to contract for sanitary sewer capacities and treatment from the City of West Palm Beach. Coordination will occur through the Town Manager's Office and Public Works.
- Continue to receive potable water from the City of West Palm Beach. Cooperate with the City in its efforts to upgrade distribution lines and storage capacity in the Town. Communicate on issues arising from the Town's planned alternative water source studies. Verbal and written contact will occur through the Town's Public Works Department and the Town Manager's Office.
- Explore future options for water service following the expiration of the current potable water contract with the City of West Palm Beach.
- Coordinate with the South Florida Water Management District, the local Soil and Water Conservation District, Palm Beach County, and the City of West Palm Beach concerning possible water conservation programs, and alternative water use studies. Verbal and written communication will occur through the Public Works Department.
- Continue to participate in the area-wide solid waste management program, operated by the Palm Beach County Solid Waste Authority, by maintaining written and verbal communication through the Town's Public Works Department.
- Utilize the concurrency management system as a means to coordinate establishment and maintenance of levels of service standards for sanitary sewer, potable water, and solid waste facilities provided by entities outside of the Town.

COASTAL MANAGEMENT/CONSERVATION ELEMENT

- Actively participate in the FDEP Palm Beach Island Beach Management Agreement (BMA) by obtaining Individual Project Approvals for coastal project implementation, constructing projects that provide storm protection and net-eco system benefits, ensuring Town obligations within the BMA are annually met, and assisting FDEP with hosting annual meetings.
- Annually submit Local Government Funding Requests to FDEP for coastal activities eligible for State cost-sharing.
- Maintain regular verbal and written communication between U.S. Army Corps of Engineers Civil Works staff, Coastal Program Manager, and other appropriate representatives of the Town, to best encourage dry beach placement of inlet dredged material associated with the Palm Beach Harbor/Lake Worth Inlet Maintenance Dredging project.
- Investigate drainage/water quality improvement possibilities in conjunction with the South Florida Water Management District, Florida Department of Environmental Protection, and other regulatory and permitting agencies. Written and verbal contact will occur through the Public Works Department, the Town's Planning Administrator, and the Town's chosen consultant.
- Participate in the Lake Worth Lagoon Steering Committee on the implementation of the FDEP'S program for the Lake Worth Lagoon Ecosystem Management Area. Verbal and written communication, in addition to meetings, will be conducted in conjunction with the Coastal Program Manager and the Town's Planning Administrator or other appropriate representative of the Town.
- Contact the Palm Beach County Health Department on an annual basis for a copy of its Annual Air Quality Report. In the event the Town is cited for air quality degradation, it will coordinate with the Health Department in determining an appropriate set of actions. The Town's Planning Administrator will coordinate, in writing, with the County.
- Continue mutual aid agreements with Palm Beach County and West Palm Beach regarding hazardous waste materials. Coordination will be maintained through written agreements and regular Fire Chief Association meetings.
- Continue to work closely with the U.S. Army Corps of Engineers, and the Florida Department of Environmental Protection, on beach nourishment projects. The Town Manager's Office and the Public Works Department will continue to further the Town's beach nourishment efforts through continual verbal and written contact and meetings with Federal, State and Regional permitting and advising agencies.
- Continue to coordinate hurricane evacuation plans with County and State Offices of

Emergency Management, the Treasure Coast Regional Planning Council, Palm Beach County, and the municipalities of West Palm Beach, Lake Worth, and South Palm Beach. The Town Manger's Office will maintain communication with these agencies through written and verbal contacts, including review and modification of hurricane evacuation plans.

- Coordination will be necessary to implement the Post Disaster Redevelopment Plan currently being developed by the Issues Forum. Coordination will take place through the Town Manager's office and the Town Planning Administrator.
- The Coastal Program Manager, or other appropriate representative of the Town shall maintain regular verbal and written communication with non-governmental organizations applicable to the implementation of the Town's Coastal Management Program.

RECREATION/OPEN SPACE ELEMENT

- Investigate the potential continuation of a former informal agreement with the Palm Beach County Public School Board to use school facilities, during non-school hours and in the summer. Coordinate and maintain this agreement through the Town's Recreation Department and the Town Manager's Office for this purpose.

CAPITAL IMPROVEMENTS ELEMENT

- Traffic improvements will require coordination with the Florida Department of Transportation, and any major drainage improvements will be subject to review by the Florida Department of Environmental Protection. Written and verbal coordination will occur through the Public Works Department, as necessary.
- Beach Nourishment Projects, groins alterations, and roadway protective seawall repairs shall be coordinated with the U.S. Army Corps of Engineers, Florida Department of Environmental Protection, Florida Game and Freshwater Fish Commission, and Palm Beach County as needed. The Town Manager's Office, in conjunction with the Public Works Department, will coordinate any future similar projects with the various agencies through meetings and verbal and written communications.

IMPLEMENTATION

To facilitate intergovernmental coordination and show subject areas that should be coordinated, and the political bodies with which this coordination should be effected, an Intergovernmental Coordination Matrix provided as Appendix A to this Element. The dots in the matrix indicate those levels of government, or other entities which have some degree of responsibility in reference to the function addressed. This matrix is an ever-changing table which should be updated each time a new subject or area of concern is developed; when new governmental agencies are activated; or, when old agencies are abolished or altered with new or changed responsibilities.

The Town's Planning Administrator will be responsible for the review and perpetual implementation of the intergovernmental matrix.

GOALS, OBJECTIVES AND POLICIES

GOAL 1

An effective government which utilizes intergovernmental coordination to maximize efficiency in providing services and facilities; to reduce duplication of effort; and, to solve common problems.

OBJECTIVE 1.1

The Town shall participate in intergovernmental coordination processes to insure full consideration is given to the impacts of proposed comprehensive plan amendments and future developments on the ability of the Town and adjacent local governments to implement their comprehensive plans and to address area wide land use needs and justification for amendments.

POLICY 1.1.1

The Town will maintain an atlas of existing land use (including land uses adjoining the Town) in the Town Clerk's Office.

POLICY 1.1.2

The Town's Planning Administrator shall continue to review the Plan in light of the plans of adjacent local governments. During the review process the Planner will contact representatives of the County, School Board, adjacent municipalities, and other units of local government providing services, but having no regulatory authority within the Town of Palm Beach. The Planning Administrator will continue to review the Intergovernmental Coordination Element on an as needed basis for implementation and incompatibilities.

POLICY 1.1.3

The Town shall participate in the Palm Beach County IPARC Process and shall cooperate with the Treasure Coast Regional Planning Council and all other local governments in a voluntary dispute resolution process for the purpose of facilitating intergovernmental coordination. The IPARC process is established pursuant to the Comprehensive Plan Amendment Coordinated Review Inter-local Agreement, effective date October 1, 1993, and shall include results and any written determination from the IPARC Process as data and analysis to DEO with proposed and adopted comprehensive plan amendments.

POLICY 1.1.4

The Town shall coordinate with those schools in its jurisdiction that are part of the State University System regarding the development of campus master plans or amendments thereto, to be done in accordance with Section 240.155 of the Florida Statutes.

POLICY 1.1.5

The Town shall utilize the Palm Beach Countywide Intergovernmental Coordination Process as a regular formal forum in which to deal with issues unique to Palm Beach County and the municipalities therein. The Multi-Jurisdictional Issues Coordination Forum shall be utilized as a means of collaborating planning for matters of inter-jurisdictional significance including, but not limited to, the siting of facilities with countywide significance and locally unwanted land uses.

OBJECTIVE 1.2

In order to ensure coordination mechanisms to address impacts of developments proposed in and adjacent to the Town that may affect adjacent local governments, the Town will continue to participate on various intergovernmental advisory committees, boards, commissions or groups serving the Town.

POLICY 1.2.1

The Town will request the County to appoint at least two Town representatives to appropriate County advisory committees.

The Town will continue to participate in the Lake Worth Lagoon Steering Committee in relation to the Florida Department of Environmental Protection's program for the Lake Worth Lagoon Ecosystem Management Area.

POLICY 1.2.2

Coordinate with adjacent municipalities and governmental agencies to ensure increased development from those adjacent municipalities and/or entities do not degrade LOS or negatively impact public safety within the Town.

POLICY 1.2.3

Work with the City of West Palm Beach in their review of the City's "Buildable Areas Monitoring Table" that is a projection of how the Downtown Master Plan will be developed to ensure any impacts to the Town can be addressed.

- a. Parks and Recreation LOS for the Town of 4 acres per 1,000 persons should be met within the area defined in the downtown master plan.
- b. Ensure spillover of neighboring residents into the Town's Parks and Recreation facilities do not negatively affect LOS.

POLICY 1.2.4

Continue and improve coordination with adjacent local governments of proposed development adjacent to the borders of the Town of Palm Beach.

POLICY 1.2.5

Through the Palm Beach County Intergovernmental Plan Amendment Review Committee (IPARC) request that proposed development and/or redevelopment in neighboring municipalities include findings that in relation to levels of service and identified concerns outlined in the Town's comprehensive plan.

POLICY 1.2.6

Pursue joint resolution on growth management, development and impact assessment issues with impacts transcending the Town's political jurisdiction.

POLICY 1.2.7

Issues of regional and state significance shall be coordinated with the Treasure Coast Regional Planning Council, the South Florida Water Management District, and/or State agencies having jurisdictional authority. Issues to be pursued include but are not limited to the following:

- a. Impacts of land development activities within the Town of Palm Beach on Palm Beach County, the Cities of West Palm Beach, Lake Worth, South Palm Beach and the Port of Palm Beach, the region, the state, and any governmental entity that may be created in the future.
- b. Land development activities adjacent to the Town's corporate limits within Palm Beach County or the Cities of West Palm Beach, Lake Worth, South Palm Beach and the Port of Palm Beach or any other governmental entity created in the future.
- c. Area wide drainage and storm water management master plan, proposed improvements, and implementing programs.
- d. Alternative water supply planning.
- e. Solid waste disposal, including development of new landfill facilities, recycling resources, and other improvements.
- f. Research, engineering, and strategies for managing level of service impacts of new development and tourism on major transportation linkages and critical intersections impacting the Town and adjacent areas.
- g. Transit /multi-modal transportation activities and plans.
- h. Public school facility planning.
- i. Level of service standards for infrastructure system impacting the Town and adjacent areas.
- j. Conservation of natural and historic resources.

POLICY 1.2.8

The Town shall take a leadership role in establishing a process providing for adjoining local governments and the Town to provide opportunities for input to ensure consistency

related to planning and zoning matters with the intent of lessening and/or mitigating the potential objectionable impacts of development of the area and the establishment of equitable Level of Service standards for facility and service delivery systems.

- a. Coordination shall be undertaken in the establishment of level of service standards for public facilities with any state, regional or local entity having operational and maintenance responsibility for such facilities.
- b. Coordinate with entities having operational and maintenance responsibility for public facilities for which the Level of Service standards are being established to ensure mutually compatible and equitable standards.

OBJECTIVE 1.3

The Town will submit written comments or recommendations on permitting or planning issues, or on requests for information, to government agencies having operational or maintenance responsibility for facilities that either are located in the Town or have potential impacts upon the Town, prior to taking action that may materially affect such facilities. The Town also will notify representatives of cooperating agencies regarding public hearings or other programs that may affect their facilities.

POLICY 1.3.1

Immediately upon adoption of amendments to the Comprehensive Plan, the Town will mail one copy to each required governmental agency.

OBJECTIVE 1.4

The Town will maintain citizen participation in its planning process, including policy development, planning, and operations.

POLICY 1.4.1

The Town shall continue to post notices of upcoming public meetings concerning planning and land development matters on the bulletin board in the lobby of Town Hall, and initiate legal advertisements as required.

POLICY 1.4.2

The Town shall maintain at least two copies of the Town's major land development documents and regulations in the offices of the Town Clerk and the Town's Planning Administrator, and provide updated copies as changes are made.

OBJECTIVE 1.5

The Town will coordinate its level of service standards for State roadways with the Florida Department of Transportation's Five-Year Plan, and the plans of the Metropolitan Planning Organization.

POLICY 1.5.1

As necessary, the Town will continue to coordinate its level of service standards to the Florida Department of Transportation and the Metropolitan Planning Organization to ensure continued coordination of levels of service.

POLICY 1.5.2

The Town will continue its participation in the Metropolitan Planning Organization's Technical Advisory Committee throughout the planning period.

POLICY 1.5.3

Prior to required updates of the Town's Comprehensive Plan, the Town will present its draft level of service standards to the Florida Department of Transportation and the Metropolitan Planning Organization, and will request review of these standards by these agencies.

OBJECTIVE 1.6

Coordinate LOS standards for sanitary sewer, solid waste and potable water with the appropriate entities which have operational responsibility for these facilities.

POLICY 1.6.1

The Town shall continue to implement its concurrency management system which specifies methods for coordinating LOS between the Town and entities with operational responsibilities for facilities.

POLICY 1.6.2

Contact each entity as specified in the Town's concurrency management system in regards to facility capacity and projected levels of service.

OBJECTIVE 1.7

The Town will coordinate with responsible governmental agencies external to the Town to

incorporate provisions into their plans, programs and operations and developments within their jurisdictions which will minimize transportation impacts to the Town consistent with the Town's efforts to manage traffic congestion on its roadways. A primary objective is to minimize traffic impacts to SR 80 and other regionally significant roads leading to the Town.

POLICY 1.7.1

The Town will coordinate with the FDOT, Palm Beach County, West Palm Beach and other communities to minimize transportation impacts to the Town through participation in the MPO and its respective committees.

POLICY 1.7.2

The Town will coordinate directly with FDOT to mitigate traffic impacts on SR 80 and other regionally significant roads leading to Palm Beach.

GOAL 2: SCHOOL FACILITY SITING AND DEVELOPMENT COORDINATION

It is the goal of the Town of Palm Beach to maintain and enhance joint planning processes and procedures for coordination of public education facilities for planning and decision-making regarding population projections, public school siting, and the development of public education facilities concurrent with residential development and other services.

OBJECTIVE 2.1 School Facility Siting

Establish a process of coordination and collaboration between Palm Beach County, local governments, and the School District of Palm Beach County in the planning and siting of public school facilities in coordination with planned infrastructure and public facilities.

Policy 2.1.1: The Town of Palm Beach shall coordinate and provide for expedited review of development proposals with the School District during the development review process to ensure integration of public school facilities with surrounding land uses and the compatibility of uses with schools.

Policy 2.1.2: The Town shall abide by the school siting development review procedures outlined in the “Interlocal Agreement between the School Board of Palm Beach County, Palm Beach County and Municipalities of Palm Beach County for Coordinated Planning.”

Policy 2.1.3: There shall be no significant environmental conditions and significant historical resources on a proposed site that cannot be mitigated or otherwise preclude development of the site for a public educational facility.

Policy 2.1.4: The proposed site shall be suitable or adaptable for development in accordance with applicable water management standards, and shall not be in conflict with the adopted or officially accepted plans of the South Florida Water Management District, or any applicable Stormwater Utility or Drainage District.

Policy 2.1.5: The proposed location shall comply with the provisions of the Coastal Management/Conservation Element of the comprehensive plan, if applicable to the site.

Policy 2.1.6: The Town of Palm Beach shall encourage the location of schools proximate to urban residential areas by:

- Assisting the School District in identifying funding and/or construction opportunities (including developer participation or Town of Palm Beach capital budget expenditures) for sidewalks, traffic signalization, access, water, sewer, drainage and other infrastructure improvements;
- Providing for the review for all school sites as indicated in Policy 2.1.1 above; and,
- Allowing schools as a permitted use within all urban residential land use categories.

Policy 2.1.7: The Town of Palm Beach shall coordinate with the School District for the collocation of public facilities, such as parks, libraries, and community centers with schools, to the extent possible, as sites for these public facilities and schools are chosen and development plans prepared.

OBJECTIVE 2.2 Intergovernmental Coordination

To establish and maintain a cooperative relationship with the School District and municipalities in coordinating land use planning with development of public school facilities that are proximate to existing or proposed residential areas they will serve and that serve as community focal points.

Policy 2.2.1: As required, the Town of Palm Beach will abide by the “Interlocal Agreement between the School District of Palm Beach County, Palm Beach County and the Municipalities of Palm Beach County for Coordinated Planning” (the 2016 Interlocal Agreement), consistent with F.S.163.3177(6)(h)(1) and (2) and F.S. 163.3180 F.S.

Policy 2.2.2: As required, the Town of Palm Beach, in coordination with the School District, the County and other local governments, shall annually accept the updated School District of Palm Beach County Five-Year Capital Improvement Schedule by opting into the annual countywide ordinance. This provision is intended to maintain consistency with the School Board’s adopted Five-Year Plan and to maintain a financially feasible capital improvements

program and ensure that level of service standards will continue to be achieved and maintained in each year of the five-year planning period.

Policy 2.2.3: As required, the Town of Palm Beach will provide the School District with necessary updates of projections of development and redevelopment information generated from the Town’s development and approvals needed to maintain school capacity adequacy, including information required for the School District to establish:

1. School siting criteria;
2. School District’s Five-Year Capital Facilities Plan;
3. School utilization.

Policy 2.2.4: The Town of Palm Beach shall provide the School District with its Comprehensive Plan, along with the five-year Land Use and population projections, to facilitate development of school enrollment projections and shall update this information as needed. The Town of Palm Beach shall coordinate its Comprehensive Plan and the Future Land Use Map with the School District’s long-range facilities maps, to ensure consistency and compatibility with the provisions of this Element.

Policy 2.2.5: The Town of Palm Beach shall advise the School District of a proposed public school site’s consistency with the Town of Palm Beach’s Comprehensive Plan and land development regulations, including the availability of necessary public infrastructure to support the development of the site.

Policy 2.2.6: The Town of Palm Beach shall provide opportunity for the School District to comment on comprehensive plan amendments, rezonings, and other land-use decisions that may be projected to impact on the public schools facilities plan.

Policy 2.2.7: The Town of Palm Beach shall coordinate with local governments and the School District on emergency preparedness issues that may include consideration of:

1. Design and/or retrofit of public schools as emergency shelters;
2. Enhancing public awareness of evacuation zones, shelter locations, and evacuation routes;
3. Designation of sites other than public schools as long term shelters, to allow schools to resume normal operations following emergency events.

OBJECTIVE 2.3 Population Projections

To establish a joint process of coordination and collaboration between the Town of Palm Beach, Palm Beach County and the School District in the planning and decision making on population projections.

Policy 2.3.1: The Town of Palm Beach commits to working with the School District and Palm Beach County to improve the population allocation methodology and enhance coordination with the plans of the School District and local governments. Population and student enrollment projections will be revised as needed to ensure that any new residential development and redevelopment information provided by the Town as well as changing demographic conditions are reflected in the updated projections.

GOAL 3: COASTAL PROTECTION AND BEACH EROSION

It is the goal of the Town of Palm Beach to work with Federal, State, County, and adjacent municipalities or agencies to protect and restore the existing coastal dune system and beaches along the City's beachfront and establish standards to minimize impacts resulting from beach erosion.

OBJECTIVE 3.1

The Town will coordinate with appropriate agencies to address sand starvation caused by the inlet, sea level rise and storm events, resulting in a dramatic and continuing eroding of the beach.

POLICY 3.1.1

Actively participate in the FDEP Palm Beach Island Beach Management Agreement (BMA) by obtaining Individual Project Approvals for coastal project implementation, constructing projects that provide storm protection and net-eco system benefits, ensuring Town obligations within the BMA are annually met, and assisting FDEP with hosting annual meetings.

POLICY 3.1.2

Submit Local Government Funding Requests to FDEP for coastal activities eligible for State cost-sharing.

POLICY 3.1.3

Maintain regular verbal and written communication between U.S. Army Corps of Engineers Civil Works staff, Coastal Program Manager, and other appropriate representatives of the Town, to best encourage dry beach placement of inlet dredged material associated with the Palm Beach Harbor/Lake Worth Inlet Maintenance Dredging project.

POLICY 3.1.4

Investigate drainage/water quality improvement possibilities in conjunction with the South Florida Water Management District, Florida Department of Environmental Protection, and other regulatory and permitting agencies, the appropriate Town staff representative, and

Town's chosen consultant.

POLICY 3.1.5

Participate in the Lake Worth Lagoon Steering Committee on the implementation of the FDEP's program for the Lake Worth Lagoon Ecosystem Management Area. Verbal and written communication, in addition to meetings, will be conducted in conjunction with the Coastal Program Manager and the Planning Administrator or other appropriate representative of the Town.

POLICY 3.1.6

Contact the Palm Beach County Health Department for a copy of its Annual Air Quality Report. In the event the Town is cited for air quality degradation, it will coordinate with the Health Department in determining an appropriate set of actions. The Planning Administrator will coordinate, in writing, with the County.

POLICY 3.1.7

Continue mutual aid agreements with Palm Beach County and West Palm Beach regarding hazardous waste materials. Coordination will be maintained through written agreements and regular Fire Chief Association meetings.

POLICY 3.1.8

Continue to work closely with the U.S. Army Corps of Engineers and the Florida Department of Environmental Protection on beach nourishment projects. The Town Manager's Office and Public Works Department further beach nourishment efforts through continual verbal and written contact and meetings with Federal, State, Regional permitting and advisory agencies.

POLICY 3.1.9

Continue to coordinate hurricane evacuation plans with County and State Offices of Emergency Management, the Treasure Coast Regional Planning Council, Palm Beach County, and the municipalities of West Palm Beach, Lake Worth, and South Palm Beach.

POLICY 3.1.10

Coordinate the implementation of the Post Disaster Redevelopment Plan currently being developed by the Issues Forum. Coordination will take place through the Town Manager's Office and the Town Planning Administrator.

POLICY 3.1.11

Maintain regular verbal and written communication with non-governmental organizations applicable to the implementation of the Town's Coastal Management Program with the Coastal Program Manager or other appropriate representative of the Town.

POLICY 3.1.12

Explore the possibility with the Treasure Coast Regional Planning Council, pursuant to 380.05(3) of designating the Town as an Area of Critical Concern as it relates to the shoreline, natural and historic resources and sea level rise as a result of Florida Department of Environmental Protection June 2015 Study, Critically Eroded Beaches that NOTED the "area extending south of Lake Worth Inlet along the town of Palm Beach (R76-R128) are 10.9 miles of critical erosion threatening private development, local parks, and State Road A1A

INTERGOVERNMENTAL COORDINATION MATRIX

**PROGRAM OF WORK TASKS
TOWN OF PALM BEACH, FLORIDA**

**RECOMMENDED GOVERNMENTAL ENTITY / AGENCY
RELATIONSHIPS AND MECHANISMS**

PROGRAM OF WORK TASKS TOWN OF PALM BEACH, FLORIDA	PLAN PLACEMENT	RECOMMENDED GOVERNMENTAL ENTITY / AGENCY RELATIONSHIPS AND MECHANISMS																							
		FEDERAL AGENCIES					STATE AGENCIES							REGIONAL AGENCIES		SPECIAL ENTITIES						LOCAL GOVERNMENTS			
		FEMA	CDE	DOC	HUD	COAST GUARD	DOC	DEP	DEQ	DOT	DDA/DHR	DOW & RS	GAME & FISH	TCRPC	SFWMD	PBCBS	PORT AUTHORITY	PBCSWA	SWCD	MPO	PBCBSC	PALM BEACH CO	WEST PALM BEACH	SOUTH PALM BEACH	LAKE WORTH
Bridge Studies	T, CIE		■			■																			
Drainage	T, CIE, PI													■											■
Turning Lanes	T, CIE, M																								
Possible Bicycle and Pedestrian Ways	T, CIE, M																								
Yearly Recommendations re: Improving Design Deficiencies	T, CIE, M																								
Affordable Housing	H																								
Designation of Historical Sites	H																								
Sanitary Sewer Capacity Program	H																								
Potable Water Provision	PI																								
Water Conservation Program	PI																								
Alternative Non-Potable Water Source Determination	PI																								
Solid Waste Authority Program	PI																								
Annual Water Usage Report	PI																								
Report on Methods to Reduce Water Consumption	PI																								
Investigation of Storm Water Retention Possibilities	PI																								
Air Quality	CZM																								
Hazardous Materials	CZM																								
Lake Worth Lagoon Ecosystem Program and Steering Committee	CMZ,ICE																								
Beach Nourishment Projects	CMZ,ICE																								
Groin Removal	CMZ,ICE																								
Seawall Repairs	CMZ,ICE																								
Hurricane Evacuation Coordination	CZM																								
Use of School Facilities for Recreation	REC																								
Request Formation of Lake Worth Committee	IGC																								

CAPITAL IMPROVEMENTS ELEMENT

INTRODUCTION

The purpose of this Element is to evaluate the need for public facilities, as identified in the other Plan Elements; to estimate the cost of improvements for which the Town of Palm Beach has fiscal responsibility; to analyze the Town's fiscal capability to finance and construct such improvements; and to adopt financial policies to guide funding and construction of capital improvements when required, based on needs identified in the other Plan Elements.

This Element of the Plan has been developed based upon:

1. Public facility needs identified in other Plan Elements;
2. Identification and analysis of revenue sources and funding mechanisms available for capital improvement financing;
3. Analysis of local practices guiding the timing and location, extension, or increase in capacity of local public facilities;
4. Analysis of the general fiscal implications of current deficiencies and future needs for each type of public facility;
5. Analysis of the costs of capital improvements for mitigation of existing deficiencies, replacement, and new growth needs;
6. Analysis of the impact of new or improved public educational and health care systems and facilities on provision of infrastructure;
7. Analysis of the timing and location of capital improvements to public facilities to support efficient land development and the goals, objectives, and policies in the Future Land Use Element; and
8. An assessment of the Town's ability to finance capital improvements based upon anticipated population and revenues.
9. Analysis of quality of life and timing issues – balancing public improvement needs with general welfare and inconvenience.

EXECUTIVE SUMMARY

The Capital Improvements Element commences in fiscal year 2016 and identifies potential projects by year for a five-year period. The primary thrust of the Element is to present generalized needs and funding of projects.

DEFINITIONS

The following definitions apply within this Element:

Capital Improvements are any major non-recurring expenditure, or any expenditure for physical facilities having an estimated useful life in excess of ten years and an acquisition cost of \$10,000 or more.

Schedule of Capital Improvements (SCI) is a schedule of approved projects and equipment to be built or purchased by the local government during a specified multi-year period.

A five-year programming period has been chosen to correspond to the requirements in Florida Statutes, Section 163. Long-term needs have also-generally been identified to allow a data base for future programs. The program is revised annually, in light of changed conditions and past accomplishments.

LOCAL POLICIES AND PRACTICES

Local practices to guide the timing and location of capital improvement projects weigh needs against projected revenue sources, including the availability of grants. The Town does not have a formalized procedure for prioritizing capital improvements. However, it does use the following set of considerations in balancing project needs with available funds:

- Public health, safety, and welfare benefits of the facility;
- Degree of public benefit;
- Maintenance of established levels of service, including prevention of future capital costs;
- Critical nature of facility need;
- Financial feasibility;
- Overall distribution of projects between facility types and geographical location.
- Quality of life and timing issues – balancing public improvement needs with general welfare and inconvenience.

This informal process has proven very effective for the Town which, because of ~~due to~~ its small size and nearly fully developed state, is able to keep close tabs on the nature of its facility needs. However, the Town should consider establishing a more formal ranking system for use in the future.

EXISTING AND FUTURE PUBLIC EDUCATION FACILITIES

Educational facilities in Palm Beach are located on Seaview Avenue and Cocoanut Row (Palm Beach Public School and Palm Beach Day Academy) adjacent to Seaview Park. The Palm Beach Public School and the Palm Beach Day Academy are directly adjacent to each other; the Public School is owned and operated by the Palm Beach County School Board, and the Day Academy privately owned and operated. The public school serves kindergarten through fifth grade classes and the Palm Beach Day Academy serves Pre-K through ninth grade classes.

The Town of Palm Beach maintains a minimum level of service for transportation, potable water and sanitary sewer, recreation and open space, and fire-rescue.

EXISTING AND FUTURE HEALTH CARE FACILITIES

There are no health care facilities located in the Town of Palm Beach. Good Samaritan Hospital is located in the City of West Palm Beach in the near vicinity of the Flagler Memorial Bridge which is a major access point at the north central portion of the Town. St. Mary's Hospital and JFK Hospital are also both located within fifteen minutes driving time from most parts of the Town.

The Town of Palm Beach will not need to provide any services should any of these health care facilities need to expand in the future.

SUMMARY OF BUDGETED CAPITAL ITEMS

The Town's proposed Schedule of Capital Improvements (SCI) and budget for FY 2016 (carry-over) through FY 2021 are provided as appendices to this Element. Appendix A includes the "Pay-as-you-Go" schedule of improvements and Appendix B includes the "Accelerated Capital Improvement Projects" schedule. Appendix C is Recreation Fund capital improvements for FY2017 through FY2021. These programs and budgets reflect the needs identified in the various Elements of the Comprehensive Plan as well as other capital needs identified by the Town. No projects or needs have been identified that are necessary to maintain the Town's various levels of service. The Town also has no level of service deficiencies. Because of the very limited anticipated growth in the Town over the next five to ten years (as shown in the population projections found in the Future Land Use Element), most of the existing infrastructure can continue to support the needs of the Town's residents. Many of the projects identified in the Schedule of Capital Improvements are those needed for maintenance of the infrastructure to further ensure that the adopted LOS standards are met or exceeded, and the Town is taking a pro-

active approach to address these matters rather than waiting until the infrastructure maintenance becomes critical.

Other activities that ~~which~~ will be undertaken within the next five years are not listed because they are subject to funding from other sources (such as the Florida Department of Transportation) or because their costs do not qualify as capital expenditures.

CAPITAL IMPROVEMENT PROGRAM PROJECT DESCRIPTION

Wastewater Pump Station Improvement

A Town Wide assessment of existing wastewater pump stations was completed March 2016. Through the Accelerated Capital Improvements Program, the majority of the critical deficiencies were addressed. This assessment identified the remaining deficiencies and prioritized improvements along with providing budgetary estimates for addressing the deficiency. Priorities have been identified for the next 5 years.

Project Budget **\$5,955,000**

Operating Budget Impact: There will be no increase to personnel. Operating costs associated with the project should minimally increase. (Repairs and Maintenance < \$7,500 annually.)

Stormwater Pump Station Improvement

A Town Wide assessment of existing stormwater pump stations was completed December 2015. Through the Accelerated Capital Improvements Program, the majority of the critical deficiencies were addressed. The one stormwater pump station that still needs significant upgrades is the D-14 Stormwater Pump Station which is addressed as an individual project within this section. The remaining deficiencies have been identified for the next 5 years.

Project Budget **\$3,995,000**

Operating Budget Impact: There will be no increase to personnel. Operating costs associated with the project should minimally increase. (Repairs and Maintenance < \$7,500 annually.)

Undergrounding Utility Lines Town Wide

The residents of the Town of Palm Beach passed a referendum in March 2016 to fund the Town Wide Undergrounding of all utilities. The Town expects to move forward on the first phase of construction in May 2017. The overall project will take 6 to 10 years to complete.

Project Budget **\$90,000,000 (estimated)**

Operating Budget Impact: There will be no increase to personnel. Operating costs associated with the project should minimally increase. (Repairs and Maintenance < \$7,500 annually.)

D-14 Stormwater Pump Station **\$5,065,000**

The D-14 Stormwater Pump Station is located adjacent to the Intracoastal Waterway in the north west corner of the Society of the Four Arts parking lot next to the Lake Trail. A number of the station's mechanical, electrical, and structural components are showing signs that they are approaching the end of their life expectancy. Major mechanical components that have been identified for replacement include the main pumps, duty pump, pump cans, discharge pipe, valves, blower, and generator. Major electrical components that have been identified for replacement include the service to the station, motor control center, control panels, panel boards, disconnect, automatic transfer switch, conduit, wiring, site lights, and interior lights. Major structural components that have been identified for replacement include the access ladders, access grating, door frames, and modifications to the wetwell access. The improvements to the mechanical and electrical components of the project will also necessitate structural modifications to accommodate the new mechanical and electrical components. Replacement of these major components that are approaching their life expectancy will increase the reliability of the station and allow the station to continue to provide stormwater protection for its surrounding area.

Project Budget **\$5,065,000**

Operating Budget Impact: There will be no increase to personnel. Operating costs associated with the project should minimally increase. (Repairs and Maintenance < \$7,500 annually.)

Bradley Place Roadway Improvements

Accelerated Capital Improvements Program, 2013 Bond, funds were allocated to correct roadway drivability issues, drainage, curbing sidewalk and update curb ramps to ADA standards where possible. Improvements also include replacing the existing street lights along the corridor and “trombone” style mast arms at Sunrise Avenue with a decorative mast arm that meets the current State windload criteria

Project Budget **\$2,095,000**

Operating Budget Impact: There will be no increase to personnel. Operating costs associated with the project should minimally increase. (Repairs and Maintenance < \$7,500 annually.)

Street Lighting Upgrade, South Ocean Boulevard, Sloan's Curve to Lake Worth Road

Accelerated Capital Improvements Program, 2013 Bond funds were allocated to replace the existing FPL-owned cobra head lighting system on the existing power line poles and replace them with decorative street light poles and fixtures. A new underground conduit and wire system will need to be installed. The poles and fixtures will match those along SR A1A south of Lake Worth Road.

Project Budget **\$2,500,000.00**

Operating Budget Impact: There will be no increase to personnel. Operating costs associated with the project should minimally increase. (Repairs and Maintenance < \$7,500 annually.)

Landfill Improvements

Accelerated Capital Improvements Program, 2013 Bond funds were allocated for improvements at the Town-owned and operated landfills. The landfills are in need of some general upgrades and improvements. These improvements include: replacement of the existing structure at the Skees Road site, new access roads at the Okeechobee site, and landscaping at both.

Project Budget **\$435,000**

Operating Budget Impact: There will be no increase to personnel. Operating costs associated with the project should minimally increase. (Repairs and Maintenance < \$7,500 annually.)

Mast Arm Replacement/Upgrades

Accelerated Capital Improvements Program, 2013 Bond funds were allocated for the replacement and/or upgrade to the Town owned and operated traffic signals. The majority of the traffic signal poles in the Town were installed in the early 1970's. The poles do not meet the current wind load standards. Some of these 1970's era poles have been replaced by FDOT with upgraded poles along South County Road at Hammon Avenue, Worth Avenue, and Peruvian Avenue. The town has requested FDOT upgrade their poles at other locations in the Town. The existing "trombone" style poles will be replaced with a decorative pole that meets the current State windload criteria.

Project Budget **\$2,362,500**

Operating Budget Impact; There will be no increase to personnel. Operating costs associated with the project should minimally increase. (Repairs and Maintenance < \$7,500 annually.)

Mid-Town Drainage Improvements

Accelerated Capital Improvements Program, 2013 Bond funds were allocated for the replacement and/or upgrade of drainage improvements in the 400 block of Worth Avenue, a collection of small undersized pipes pieced together to drain puddles. This project will consist of construction of a proper drainage collection system and rebuilding the roadway surface. Drainage improvements also include the D-6 and D-7 basins with the possibility to make multiple interconnects between the basins to equalize storm water flows when one basin has greater flows than the other or if pumps in one station were to fail.

Project Budget **\$2,797,000**

Operating Budget Impact: There will be no increase to personnel. Operating costs associated with the project should minimally increase. (Repairs and Maintenance < \$7,500 annually.)

Lake Trail Paving and Drainage Improvements

Accelerated Capital Improvements Program, 2013 Bond funds were allocated for improvements on the Town-maintained Lake Trail pedestrian path. Pavement and drainage along Lake Trail

from Royal Palm Way to Reef Road are in need of significant improvements. These improvements also include the Lake Trail access paths.

Project Budget \$2,300,000

Operating Budget Impact: There will be no increase to personnel. Operating costs associated with the project should minimally increase. (Repairs and Maintenance < \$5,000 annually.)

North County Road Drainage Improvements (from Wells Rd. to Miraflores Dr.)

Accelerated Capital Improvements Program, 2013 Bond funds were allocated for improvements to develop alternatives for protecting the grass medians and improving drainage along North County Road from Wells Road to Miraflores Drive. The budget shown below excludes construction costs and is only for design and bid phase services.

Project Budget \$690,000

Operating Budget Impact: There will be no increase to personnel. Operating costs associated with the project should minimally increase. (Repairs and Maintenance < \$3,000 annually.)

Ocean Outfall Abandonment

Accelerated Capital Improvements Program, 2013 Bond funds were allocated for the abandonment/ elimination of all stormwater discharge to the beach. This effort will include the rerouting of the stormwater at each of the identified locations.

Project Budget \$1,192,500

Operating Budget Impact: There will be no increase to personnel. Operating costs associated with the project should minimally increase. (Repairs and Maintenance < \$3,000 annually.)

Drainage Basins D-2 and D-9 Interconnect

Accelerated Capital Improvements Program, 2013 Bond funds were allocated for the analysis of the efficiency of the D-2 and D-9 Stormwater Drainage Basins and to improve the basins' efficiency through the installation of an interconnect.

Project Budget \$1,000,000

Operating Budget Impact: There will be no increase to personnel. Operating costs associated with the project should minimally increase. (Repairs and Maintenance < \$3,000 annually.)

Queens Lane, Monterey Road, Onondaga Avenue, and Orange Grove Road Drainage Improvements

Accelerated Capital Improvements Program, 2013 Bond funds were allocated for improvements that include roadway regrading, curb replacement, and catch basin upgrades. Construction for this project is to be coordinated with the utility undergrounding conversion effort.

Project Budget **\$2,060,780**

Operating Budget Impact: There will be no increase to personnel. Operating costs associated with the project should minimally increase. (Repairs and Maintenance < \$5,000 annually.)

Joint Wastewater Transmission Pipeline (Interlocal Agreement with the City of West Palm Beach)

Accelerated Capital Improvements Program, 2013 Bond funds were allocated for improvements to the City of West Palm Beach/Town of Palm Beach shared wastewater pipeline. The pipe, which discharges into the East Central Regional Wastewater Treatment Facility, is beginning to fail at the joints. The improvements will consist of lining the existing pre-stressed concrete cylinder pipe.

Project Budget **\$3,338,037** (Town of Palm Beach portion)

Operating Budget Impact (TOPB): There will be no increase to personnel. Operating costs associated with the project should minimally increase. (Repairs and Maintenance < \$7,500 annually.)

IMPLEMENTATION

The Town presently employs a five-year Schedule of Capital Improvements (SCI) as an integral part of its annual budgeting process. Each year, the Town Manager, the Town Staff, and the Town Council (acting as the LPA) formally, and in a public meeting, will review the Schedule of Capital Improvements (SCI) to ensure its consistency with the Capital Improvements Element.

As a function of this review, the CIE will be examined for:

- Updating revenue sources, unanticipated expenses, and completion of scheduled projects;
- Consistency, both internally and with respect to other Plan Elements;
- The means for correcting identified deficiencies;
- The progress of the Town in securing financing, and other assistance from other agencies, to implement the Town's Program;
- Progress of the private development community in meeting the requirements expressed within the individual Plan Elements;
- The Town's progress towards meeting, and its ability to maintain, its adopted level of service standards; and
- The Town's progress toward implementing its intergovernmental coordination responsibilities.
- Quality of life and timing issues – balancing public improvement needs with general welfare and inconvenience.

The Schedule of Capital Improvements (SCI) will be amended annually to reflect the above described review.

GOALS, OBJECTIVES AND POLICIES

GOAL

THE TOWN SHALL, USING SOUND FISCAL POLICIES, PROVIDE ADEQUATE SERVICES AND FACILITIES IN A TIMELY AND EFFICIENT MANNER.

OBJECTIVE 1

The Town shall utilize its Capital Improvements Element and five-year Schedule of Capital Improvements (SCI) to provide needed capital facilities, including those needed to overcome any existing deficiencies and those related to growth.

POLICY 1.1

The Town shall continue to adopt an annual capital budget, which will identify expenditures necessitated by the policies of the various elements of the Comprehensive Plan, as part of its annual budgeting process.

POLICY 1.2

Appropriate Town departments shall establish and maintain a listing and schedule of capital equipment and facilities showing the expected life and replacement date of each. The schedule is to be integrated in the Schedule of Capital Improvements (SCI) and updated annually.

POLICY 1.3

The Town shall identify those projects needing renewal and replacement in its Schedule of Capital Improvements (SCI), and shall give first priority to funding those needed to maintain its adopted levels of service. The Town's current policy is to fund renewal and replacement of existing infrastructure on a cash basis unless the cost of the facilities or improvements are such that bonding would be a more equitable and appropriate method for funding certain facilities or improvements, and is deemed by the Town Council as a policy decision to be the most feasible financial alternative.

POLICY 1.4

The Town shall continue to establish a priority ranking system for capital improvement projects identified as necessary in the various elements of its Comprehensive Plan. This system will include consideration as to whether each project:

- 1.4a Is needed to eliminate public hazards;
- 1.4b Is needed to eliminate existing capacity deficiencies, or other current infrastructure deficiencies;
- 1.4c Prevents or reduces future capital costs;
- 1.4d Is located to serve new growth or redevelopment and existing needs for repairs and/or rehabilitation;
- 1.4e Is financially feasible; and
- 1.4f Is compatible with facility or acquisition plans of Federal, State, Regional, and local agencies that provide public facilities within the Town.

POLICY 1.5

The Town's maximum indebtedness shall not exceed 5% of the assessed value of taxable property in the Town.

POLICY 1.6

The Town shall ensure that the Capital Improvement Element and the entire Comprehensive Plan remains financially feasible.

POLICY 1.7

The Town shall ensure that capital facilities to be funded by outside sources must be guaranteed by a development agreement, inter-local agreement or any other enforceable agreement.

OBJECTIVE 2

The Town shall expend no public funds that would subsidize development in the Coastal High Hazard Area, as defined by the Town, except when such expenditures are for restoration/enhancement of natural resources or for shore protection.

POLICY 2.1

Town funded public facilities will not be built in the Coastal High Hazard Area, as defined by the Town, excepting facilities which provide public access, recreation, resource restoration/enhancement or shore protection; nor will the Town expand utility systems or public services that would be necessitated by increased development within the Coastal High Hazard Area.

OBJECTIVE 3

The Town shall coordinate its land use decisions and fiscal resources with its schedule of capital improvements identified as necessary to maintain the Town's adopted Level of Service (LOS) standards and meet existing and future facility needs. These capital improvements and facility improvements shall have first priority for allocation of the Town's fiscal resources available for capital expenditures.

POLICY 3.1

The Town shall utilize the following Level of Service standards, found in other elements of the Town's Comprehensive Plan, for public facilities in the Town.

3.1a Stormwater Discharge or Runoff -

- 1) Flooding will not occur during a one-year storm for systems served by pumping stations or during a three-year storm for systems with gravity outfalls, and, the minor flooding associated with a five-year storm would be carried off within sixty minutes.
- 2) Negative impacts of stormwater discharge upon water quality in Lake Worth are ameliorated by the retention of the first two inches of rainfall prior to discharge into the Town system; or the post-development runoff does not exceed predevelopment runoff for a three-year one-hour storm, whichever is greater.
- 3) For all commercial, multi-family, new residential subdivision, and single family lots of one-half acre or more:
 - a. the impact on the system will not lower the LOS as stated in Policy 3.1a 1 and 2; or,
 - b. the drainage problem area is scheduled and contracted for improvement in the Town's Schedule of Capital Improvements (SCI); or,
 - c. the developer upgrades the drainage system to meet LOS as stated in Policy 3.1a 1 and 2; or,
 - d. the post-development run-off does not exceed pre-development run-off, thereby preventing additional degradation of the system;

And, for all single family development of a half-acre or less which is not the result of new subdivision, that one of the four above requirements will be met, when feasible, or that no degradation of existing drainage capacity occurs as the result of development.

3.1b Potable Water – 272 gallons/person/day;

3.1c Recreation - 6 acres/1000 population;

3.1d Transportation - two-way peak-hour, peak-season level of service (LOS) standards for facilities and segments listed below, effective one year from adoption of this Element.

FACILITY OR SEGMENT		“LOS”
(1)	SR AIA	“E”
(2)	Royal Poinciana Way	“D”
(3)	Cocoanut Row/Bradley Place from Seabreeze to north of Royal Poinciana Way	“E”
(4)	Southern Boulevard	“E”
(5)	All other roadways	“D”

3.1e Waste Water Collection

Development Type	Avg. Daily Water Water Flow
Single Family	350 gpd/DU
Multifamily	250 gpd/DU
Commercial	0.20 gpd/SF
Industrial	0.15 gpd/Sf
Hotel	100 gpd/room

DU=dwelling unit
SF=Square feet
gpd=gallons per day
AC=acre

Pumping Station Peaking Factor	Avg. Daily Flow (MGD)
3.5	0.01 to 0.05
3.0	0.05 to 0.25
2.5	0.25 to 2.0
2.0	>2.0

Peaking factors for other facilities shall be determined using historical flow records

- 3.1f Solid Waste -- 2.55 pounds/person/day for garbage and 0.033 cubic yards per person per day for vegetative yard trash.

OBJECTIVE 4

Development orders and permits for new development or redevelopment, or building permits for developments that have been issued development orders prior to the adoption of the Comprehensive Plan, shall be issued only if public facilities and services necessary to meet the Town's adopted level of service standards are available concurrent with the impacts of the development.

POLICY 4.1

In order to ensure availability of public facilities and services necessary to support development concurrent with its impacts, prior to the issuance of a development order or permit, the Town shall make and record the following determinations that the Level of Service Standards established in Policy 3.1 are met as required and the following:

- a. The project will not increase the time necessary to evacuate the Town, in the event of a hurricane, to greater than twelve hours; or
- b. The development order or permit is specifically conditioned on the availability of the necessary facilities and services as identified in Policy 3.1, and that said facilities are authorized at the time the project is authorized.

POLICY 4.2

The Town will continue to set, and maintain, its Level of Service standards such that it will ensure the availability of public facilities and services to serve developments for which development orders were issued prior to the adoption of the Comprehensive Plan.

OBJECTIVE 5

Since there is little potential for growth in the Town, impact fees are presently considered to be unnecessary and an inefficient method of distributing the costs of new capital facilities in the Town. The Town will continue to levy ad valorem taxes and user fees as the primary methods for distributing the burden of the cost of capital facilities for both existing and future development.

POLICY 5.1

Within six months of a project being denied a development order or permit under Objective 4 of this Element, the Town may elect to undertake and conclude an investigation into the legal and practical implications of the Town's assessing, to private interests, a pro rata share of the costs necessary to fund the facility expansion necessary to grant a development order or permit and adequately maintain the Town's adopted level of service standard(s).

OBJECTIVE 6

The Town shall include in its Schedule of Capital Improvements (SCI) all capital improvements needed within the five-year period covered by its CIP, including replacement of sanitary sewer infrastructure recognized as obsolete or worn-out and improvements needed to eliminate recognized deficiencies in its drainage system, as identified in the Comprehensive Plan,

POLICY 6.1

The Town's annual revision of its Schedule of Capital Improvements (SCI) shall include a finding that the funds available for capital expenditure will be adequate for capital items identified as necessary in the Comprehensive Plan and included in the Schedule of Capital Improvements (SCI).

OBJECTIVE 7

The Town shall continue to bury its overhead utility systems in a financially feasible manner to improve aesthetics, reliability and safety throughout the Town and to require future development to place utility lines underground.

POLICY 7.1

As approved by Town voters on March 15, 2016, the Town shall continue to develop and implement a Master Plan to place utilities underground.

HISTORIC PRESERVATION ELEMENT

INTRODUCTION

PURPOSE

The Town of Palm Beach Historic Preservation Element formally states Town policy with regard to the protection of its historic and archaeological resources. This element is optional per Chapter 163.3177, F.S. but serves as a tool for coordinating the actions and policies of the Town of Palm Beach. Florida's 1975 Local Government Comprehensive Planning Act laid the foundation for local preservation planning in the State. The Act lists required elements for inclusion in the general plan, but also includes "historic preservation and scenic" as one of the options. The 1985 Local Government Comprehensive Planning and Land Development Regulation Act, which amended a portion of the 1975 legislation, requires coastal communities to address the preservation of historic and archeological resources. Although communities can fulfill the requirement by addressing the issue of preservation in the Land Use, Housing and Coastal Management elements, the Town of Palm Beach has decided that a separate element would best serve the community.

Increasingly in South Florida, historic and cultural resources are threatened by destruction due to rapid growth in population and ensuing development. These resources are links to the past, they make communities unique, giving them a "sense of place," and provide a source of pride. More importantly, historic resources allow for the education of present and future generations of their place and time in the continuum of the human experience and societal development. The purpose of historic preservation is not to halt growth or change, because it is recognized that both are needed to keep a community alive. The purpose of historic preservation is to integrate the past with the present and the future.

SUMMARY OF LANDMARKS PRESERVATION ORDINANCE

The Town of Palm Beach Landmarks Preservation Ordinance (Supporting Document I) was adopted in 1979, and was amended to its present reading in 1984. The purpose of creating a Landmarks Preservation Commission was to protect historic resources with intrinsic aesthetic, or architectural character, and to better facilitate the upkeep and maintenance of those structures so designated. The ordinance lists these as its goals:

- 1) Safeguard and enhance that which reflects the Town's history and heritage
- 2) Stabilize and improve property values
- 3) Foster civic pride in the notable accomplishments of the Town's past
- 4) Protect the Town's attraction to residents and visitors.
- 5) Strengthen the economy of the Town
- 6) Promote the education, pleasure and welfare of residents and visitors

The Commission consists of seven members and three alternates, all of whom have a special knowledge of, and interest in landmarks preservation. All Commissioners are required to be residents of the Town except one non-resident “expert”, and all serve three year terms in this appointed office. A member cannot serve more than two consecutive three year terms.

The Landmarks Preservation Commission can only gain jurisdiction over a property after an extensive research process proves the structure is eligible for the distinction, by meeting at least one of the four criteria for designation. Once approved by the Commission, and sustained by the Town Council, the jurisdiction to oversee improvements, additions, and modification to the designated property is transferred from the Architectural Commission to the Landmarks Preservation Commission. When transferred from one commission to the other, there is no change regarding the Town's Zoning Code.

The Landmarks Preservation Commission reviews proposed changes to buildings, landscaping, garden walls, pools, fountains, driveways, signs, etc. in response to a property owner's request for a Certificate of Appropriateness. The Commission holds no jurisdiction over the interior building spaces of any property, but does review changes and modifications to courtyards.

The process is very similar to that of the Architectural Commission. Once the Landmarks Commission approves the proposed additions or alterations to a landmarked structure, the Certificate of Appropriateness is granted. Work may proceed after standard building permits have been applied for, and issued by the Building Department. For archaeological landmarks, the earth, rock, or subsoil cannot be moved or excavated without an approved Certificate of Appropriateness.

Minor changes to landmarked properties such as replacing door hardware, shutters, re-painting a structure in color to match existing or re-roof with same material, etc., which have a total estimated value of \$2,000 or less, can be approved as, "minor exterior changes," at the discretion of the Planning Administrator. Usually, no Certificate of Appropriateness would need to be filed for these approved minor changes.

GOALS, OBJECTIVES AND POLICIES

Beginning in 1927, structures designed, built or modified in Palm Beach have been regulated by an advisory body of the Town of Palm Beach. The original body was called the Art Jury, and members such as Addison Mizner, Maurice Fatio, and Charles Perrochet assisted in a sort of design critique to help ensure the beauty and visual harmony that made Palm Beach a unique resort area. Today, the Art Jury survives as two similar, but distinct, bodies: The Landmarks Preservation Commission and the Architectural Commission.

Generally speaking, the Architectural Commission is the old Art Jury, regulating the overall design, proportion, and concerns of contemporary design, as well as signage. The Landmarks Preservation Commission was created to serve in essentially the same capacity, but focuses on the needs and concerns of historic architecture, to protect the historic resources of the Town of Palm Beach.

GOAL

The goal of the Landmarks Preservation Ordinance is to protect the visual appearance of the Town of Palm Beach through the perpetuation of properties of special, notable, aesthetic, architectural, and/or historical significance. It is NOT the intention of the Ordinance to annex private property, to make private property open for public inspection, or to prevent owners from the right to expand, modify, or update the architectural and/or mechanical services of their property.

Legislation rewards owners of landmarked property with tax incentives, credits, and reductions as a reward for preserving a piece of the nation's heritage. Further, Federal and State programs offer financial and technical assistance to the owners of locally landmarked properties. In most places, owners of landmarked structures receive a greater return when selling their property.

In exchange for these rewards and incentives, the Landmarks Preservation Ordinance was written in such a way that before the owner(s) of a landmarked property may demolish or destroy an historic resource in the Town, he/she must show just cause to both the Landmarks Preservation Commission and to the Palm Beach Town Council.

The landmarking process ensures that only those properties of true architectural or historic significance are awarded the distinction, protection, and benefits allowed to the Town's designated landmarks.

OBJECTIVE 1: EVALUATION OF POTENTIAL STRUCTURAL SITES

When the Landmarks Preservation Ordinance was first enacted in 1979, a survey of all Palm Beach architecture fifty or more years old was completed, determining which structures were eligible for consideration as landmarks of the Town of Palm Beach. This effort concentrated on the oldest area of Town, from the Coral Cut to Sloan's Curve (Map: Supporting Document II).

The structures were evaluated and rated A to D, based primarily on their architectural merit. "A" structures were those properties that were eligible for consideration on both the local and the national level; "B" structures were equally eligible for consideration as local landmarks, but held little or no national merit; "C" structures were either smaller structures eligible for local consideration, or marginal large properties; and "D" structures were deemed not eligible for consideration at this time.

By 1988, the old survey became outdated. Since 1979, a considerable number of local buildings had crossed the fifty-year threshold used for National Register eligibility, and as local architectural

scholarship improved, errors in the validity of some statements in the 1979 survey were discovered. A new survey was commissioned with three goals in mind: to add ten years of eligible structures to those already eligible for consideration; to correct the errors made in the 1979 survey; and to include the entire Town of Palm Beach, from the Palm Beach Inlet to the South Palm Beach line. The 1988 survey was simplified to read either "eligible" or "not eligible" for local designation, and the letter grading system was abandoned.

In 1996 and 2004 the Town received grants from the Florida Department of State, Division of Historical Resources to update the survey. The survey was done again in 2010. Currently 1,162 sites have been surveyed and included on the Florida Site File. The Town has designated 320 landmarks as of May 2017.

OBJECTIVE 2: EVALUATION OF POTENTIAL ARCHAEOLOGICAL RESOURCES

The Town of Palm Beach is situated on a narrow barrier island. The island is bordered on the west by Lake Worth and on the east by the Atlantic Ocean. The north end of the island is terminated by a man made channel, the Lake Worth Inlet. There is no record of a natural inlet connecting the Atlantic Ocean with Lake Worth. Evidence that Lake Worth has been a freshwater lake for at least the last two thousand years has some support from archaeological evidence and historical documentation.

The western side of the island is an oolitic limestone ridge which runs from the Everglades Links Golf Club to the northern tip of the island. The ridge ranges in elevation from sea level to its highest point of thirty feet above mean sea level at the Palm Beach Country Club Golf Course.

The eastern side of the island fronts the ocean with a sea beach. Behind or to the west of this is a primary dune. At some points there are secondary sandy knolls or dunes behind the primary dune.

Perhaps the most significant natural feature in Palm Beach was located between the primary dune to the east and the oolitic limestone ridge on the west. Through this area a freshwater slough once existed that extended north to south. The slough extended from the Everglades Links Golf Course and extended north to the northwest tip of the island, opening into Lake Worth and not the ocean. This slough undoubtedly was fresh water or possibly brackish. Along the borders of this slough was tropical hammock. Trees included gumbo limbo, wild fig, and cabbage palm.

The soil in the slough has a surface of black muck soil which ranges in depth from as little as 15 cm to as much as 40 cm. Under this is a light tan fine-grained sand. Post hole tests excavated by the consultant along the edge of the slough indicated that under this light tan sand is sand that is the same as the sand which makes up the primary dune features. Local construction workers indicated that the depth of the sand in this slough is as much as 21 feet. This sediment horizon is only a short distance east from where the oolitic limestone rises to its highest point of thirty feet above the sea level. Whatever oolitic substrate exists here does not rise much above sea level and is not visible on the surface even where construction has cut deeply into the dune and its surroundings.

At about the turn of the century this slough was filled in for development. When the consultant observed soil profiles in trenches in Sea Spray Street where water lines were being replaced, it was observed that the fill there is about 40 to 50 cm in thickness, under which lies the original black muck surface. Here the muck was about 40 cm thick with the usual light tan sandy substrate below.

South of the Everglades Links Golf Course the island consists only of the sea beach and dune feature, the western oolitic ridge stopping north of this point. Also, the island is much narrower here. The area between the end of the oolitic rise and the beginning of the narrow southern extension of the island was filled in, artificially expanding the island by filling the wetlands and shallows adjacent to Lake Worth.

Changes which have impacted Palm Beach's natural features have included storm erosion to the primary dune, (as much as 30 feet in recent years according to one life guard who said he had worked on the beach for the last 15 years); construction of condos, etc., directly on the primary dune; the filling of the slough; clearing of the top of the oolitic ridge for the construction of buildings, and all the other disturbances associated with the development of the Town, such as roads, utilities, etc. Very little of Palm Beach has escaped being altered by development.

The eleven known sites that lie within the town limits were visited and evaluated during a survey supported by the Florida Department of State, Division of Historical Resources in 1994. Five of these sites were found to be in association with the primary dune features along the Atlantic side of the island. Of these five sites, three were human burials (two without any recorded evidence of associated habitation and one had a combination of settlement and cemetery components). One of the burials, seems to have been non-native. Of the two remaining dune sites, one was an isolated archaeological feature, specially a cache of celts, with no other materials located. However, it is worth noting that similar celt caches have been associated with human burials. The other site, the Lake Worth Casino midden, could not be located during this survey and may actually have been a component of the nearby Patrician site.

The other six sites were located in association with the fresh water slough that ran north to south through the town. These sites included middens (habitation sites) and burial mounds and were located along the edge or on the shore of the slough. The midden material is confined to the hammock type of soil, which extends about twenty yards east from the road. (Supporting Document: *Preservation Plan*, Town of Plan Beach Landmarks Commission, 1995).

POLICY FOR THE ESTABLISHMENT OF SELECTION PRIORITIES

With over 1,162 structures considered eligible for consideration as local landmarks, the Landmarks Preservation Commission has ~~should~~ established priorities to better facilitate the landmarking process. These structures (together with limited historic information) are derived from the Florida Master Site Files periodically prepared for the Town by a historic preservation consultant.

Site information is cross referenced with historical records housed in the Town of Palm Beach Department of Planning, Zoning and Building Records Office, and in the Historical Society of Palm Beach County and the Preservation Foundation of Palm Beach. The research should result in a more condensed, focused list of structures, eligible for local designation under at least one of the Landmarks Preservation Ordinance's criteria. The sites on the resulting list should be distributed to the Landmarks Commissioners.

Each commissioner should independently visit every structure on the resulting list of targeted properties for discussion at a public meeting. At said meeting, the Commission should actively discuss the properties listed during a presentation provided by the historic preservation consultant, and select properties to be placed under consideration for landmarking during the upcoming designation season. The Commission can conduct this process at multiple meetings if necessary.

If at any time, a property owner feels that his/her property is eligible for designation as a local landmark, a request can be made to any Landmarks Preservation Commissioner to place the structure under consideration. Likewise, individual Commissioners can propose to place any structure under consideration, which will then become a matter to be decided by the full Commission.

The list of those properties put under consideration should be turned over to the historic preservation consultant who will research, evaluate and prepare a Designation Report for each property. Designation Reports should contain architectural and historical information on the structure, explanation of how each ~~criteria~~ criterion for designation is met, and a recommendation to consider or not consider the structure as a landmark of the Town of Palm Beach.

A public hearing should be announced and held to consider these properties individually in a public forum, allowing the property owners, their representatives, and members of the community to express their opinion relative to the recommendations of the consultant and staff as put forth in the Designation Report(s).

After reviewing the information and recommendation of the consultant and the staff in the public forum, the Landmarks Commissioners should then vote to accept or deny the recommendation. If the Commissioners' vote favors accepting the structure as a landmark of the Town of Palm Beach, their decision will be sent to the Town Council for its final ratification.

The property owner, his/her representative, or a member of the community may appeal at either level.

This policy should be periodically revisited, and adjusted as necessary. A new survey should be undertaken every ten years to correct the historical errors of the earlier efforts, and to add those structures that cross the National Register threshold of 50 or more years old.

POLICY FOR ARCHAEOLOGICAL MANAGEMENT PLAN

This Phase I Archaeological assessment indicated a total of eleven known archaeological sites within the town of Palm Beach. These sites are in various states of preservation and access, varying from sites heavily damaged, destroyed by development or obscured by fill, to sites with visible surface features and a high preservation quality.

The Town of Palm Beach's best tool for managing these archaeological resources is to use an archaeological zone overlay for each known archaeological site or potential site. An archaeological zone is an area of known archaeological sites locations with a high potential of having archaeological sites, archaeological features or artifacts.

All proposed development, clearing, or subsurface alterations within a zone (including such subsurface activities as utility trenching, tree removal, construction activities) should be subject to the Archaeological Ordinance of the Town's Code of Ordinances that requires an archaeological assessment for known archaeological sites and/ or potential archaeological sites. The assessment (Phase I or reconnaissance level) will result in a report presented to the Planning, Zoning & Building Department prior to the issuance of any permits for demolition (below ground), excavations, tree removal, or other ground disturbing activities. Based on the assessment report, a determination will be made by the Planning, Zoning & Building Director, or the Director's designee, as to whether monitoring and/ or additional testing (Phase II) needs to be done.

In some cases, a Phase II assessment may be required based on a site's potential or known significance. A Phase III assessment will be required only if something highly significant is found, such as human remains. If human remains are uncovered, they are subject to Florida's Unmarked Human Graves Act, and should be avoided if possible. If that is not feasible, then they should be reinterred in a secure part of the property under the coordination of the consultant archaeologist and tribal representative.

In the event that human remains are encountered during archaeological monitoring then the guidelines of State Statue 872.05, which provides for human remains, will need to apply.

Known or Potential Archaeological Areas

Many archaeological sites are recorded within the Town of Palm Beach, all of which are shown on the Town's Archaeological Sites Map. New areas can be added if additional sites are discovered during development, by accidental discovery or as a result of archaeological investigations. Although

many of these sites are now obscured or even severely damaged by development, some less altered components may remain intact. The survival of significant site features in an urban context is well documented in south Florida in downtown Miami and Ft. Lauderdale where many sites had been covered by fill. Palm Beach has had a similar developmental history where fill was commonly used.

When an archaeological site or feature is discovered during development in an area outside of a known or potential archaeological area ~~zone~~, then the Town of Palm Beach should be notified, and an archaeologist should quickly inspect the discovery to determine its significance. However, even with the Town's Archaeological Sites Map, it is possible for archaeological discoveries to be made in many parts of Palm Beach since the town is located in a narrow barrier island with close proximity to water and other resources that were ideal for prehistoric and historic occupation. See the Town's Archaeological Ordinance within the Town Code of Ordinances for further information.

POLICY FOR THE ESTABLISHMENT OF EDUCATIONAL PROGRAMS

Encourage a Historic Marker Program to better educate the public on areas of "living history" throughout the Town of Palm Beach. Such a program could be locally funded, or work within an already established state or national framework. Such a program could be the result of the efforts of inters as specified in "section 8.0: Policy for the Establishment of Historical Research."

POLICY FOR THE ESTABLISHMENT OF HISTORICAL RESEARCH

Historical research of an ongoing nature should be continually supported by the Landmarks Preservation Commission. Aside from the influx of new research generated by the continued Designation Report process, a program should be established to enhance the existing historical files with greater depth and clarity.

An ongoing internship program should be enacted to give undergraduate and graduate students of architecture and historic preservation the opportunity to gain practical experience in their field. This program should be limited to three summer months.

POLICY FOR THE ESTABLISH OF MAINTENANCE PLAN

A maintenance plan should be enacted to protect the historic resources of the Town of Palm Beach, and help evaluate the structural integrity of landmarked architecture.

This maintenance element should encompass three basic areas: structural evaluation; code enforcement; and "demolition by neglect."

In cases where the structural integrity of a landmark or a potential landmark may be in question, a Historic Structures Report should be completed by the collaborative effort of the Town Building

Official and an independent architectural history specialist.

The report should detail the conditions of the building inside and out, from the basement through the roofing members, wherever possible. No exploratory demolition or any other process that disrupts the property or the rights of the property owner should be undertaken.

The completed report, detailing the condition of floors, ceilings, wall materials, windows, doors, roofs and roofing members, exterior spaces and ornamentation should be prepared and submitted to the Landmarks Preservation Commission Staff for evaluation. The Staff will relay the conditions outlined in the Historic Structures Report to the Commission in a public forum, and the Commission will vote on how this report will affect the status of the landmark or the potential landmark.

The Code Enforcement Officers of the Town of Palm Beach should be educated in the landmark process, and integrated into the Landmark Preservation Commission system for the purpose of monitoring the conditions at landmarked sites.

The Code Enforcement Officers should monitor the conditions at landmarked sites during their regular inspections, and report any violations or potential violations directly to the Landmarks Commission Staff immediately. If a serious problem is detected, the Landmarks Commission Staff would then add the violation to the next month's Landmarks Preservation Commission agenda for inclusion under the heading "Other Business." The Code Enforcement Officer will appear to directly relay his/her evaluation of the violation and recommendation, and the Landmarks Preservation Commission will vote to sustain or deny the recommendation.

If by the determination of a Historic Structures Report, or by the observations of a Code Enforcement Officer and the Building Official, a landmarked property is considered structurally deficient by the Landmarks Preservation Commission, the Commission may vote to enact Section 54-3 in Chapter 54 (Historic Preservation) of the Town's Code of Ordinances.

If enacted, this section allows the Commission to notify the owner that his/her building has become structurally deficient due to neglect, and that he/she has 30 days to commence any work that would rectify the situation. If the property owner fails to comply with the request, and the Commission believes that the structure is being allowed to deteriorate intentionally, the Commission will inform the Town Council of the violation of Ordinance #2-84. The Town Council may choose to repair the structure at its own expense, and lawfully place a lien against the property for the cost of the repairs expended.

GOALS, OBJECTIVES AND POLICIES

GOAL

PRESERVE, PROTECT AND ENHANCE THE HISTORIC AND PREHISTORIC RESOURCES OF THE TOWN. THE TOWN SHALL PROTECT THE VISUAL APPEARANCE OF PALM BEACH THROUGH THE PERPETUATION OF PROPERTIES OF SPECIAL NOTABLE AESTHETIC, ARCHITECTURAL AND HISTORICAL SIGNIFICANCE.

OBJECTIVE 1

The Town shall protect and preserve its prehistoric and historic resources. The measurement of this objective shall be the extent to which such resources are protected, and the degree to which the following policies are implemented.

POLICY 1.1

The Town shall continue to update the list of historic structures.

POLICY 1.2

Continue to designate structures, sites, and districts considered worthy of Landmarking in accordance with Chapter 16, Article III of the Town's Code of Ordinances.

POLICY 1.3

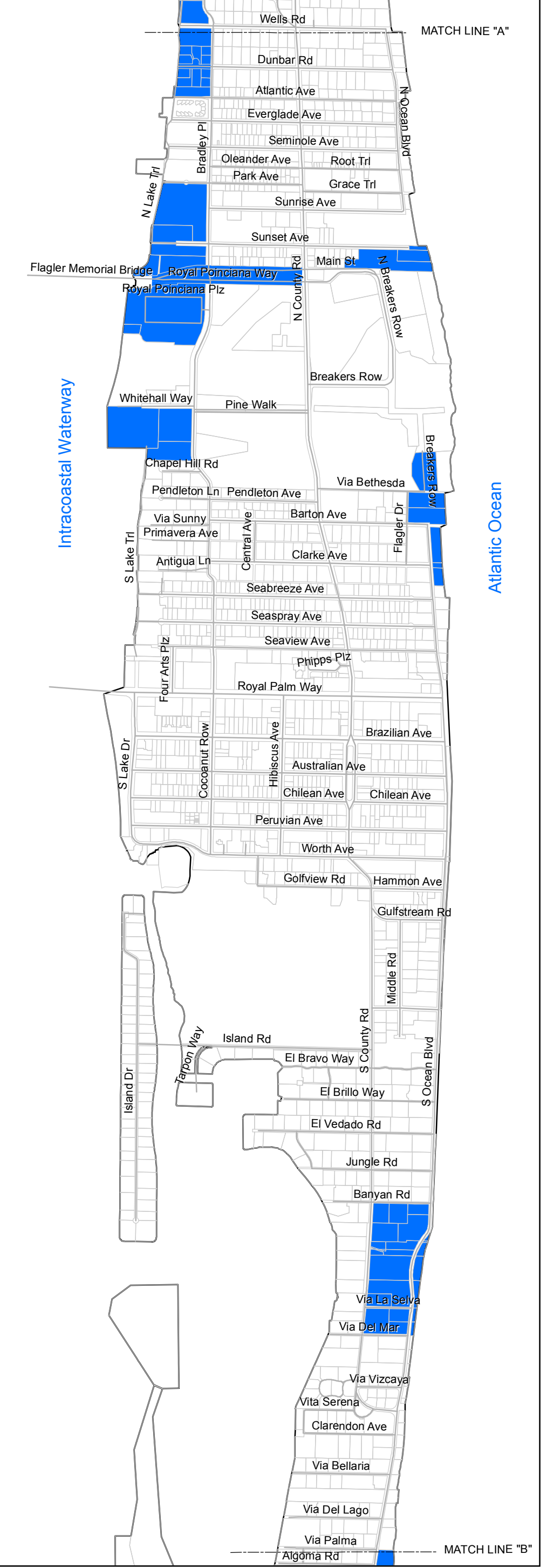
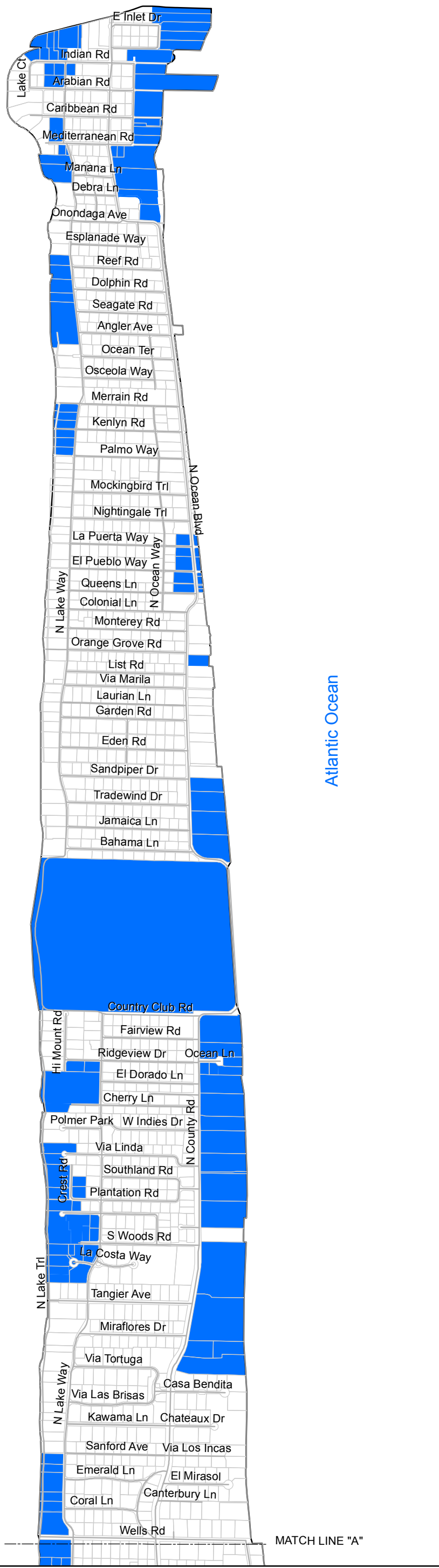
Prevent destruction of Historic Landmark Structures through provisions in Chapter 16, Article III of the Town's Code of Ordinances.

POLICY 1.4

The Town shall continue to follow and enforce the Archaeological Ordinance within the Town's Code of Ordinances in preserving and protecting archaeologically sensitive sites.

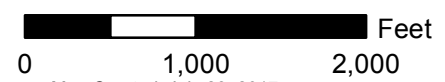
POLICY 1.5

The Town shall continue to encourage a Historic Marker Program and other such educational programs.

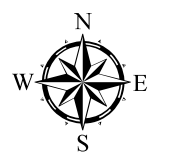


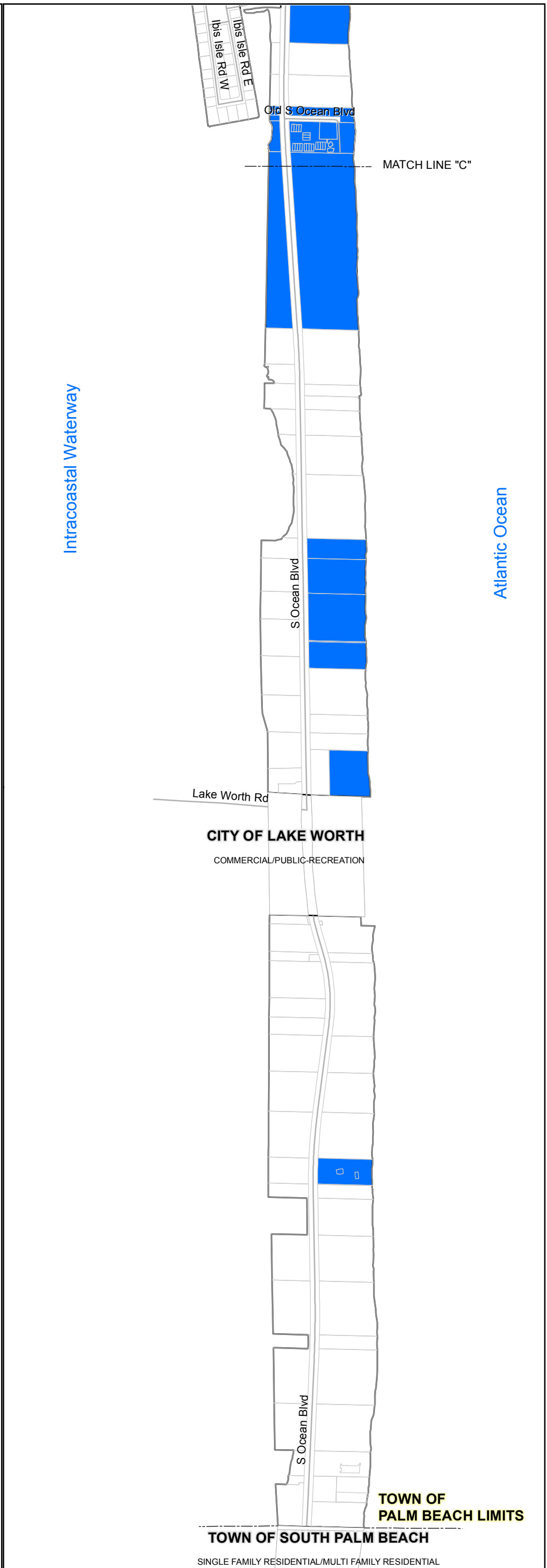
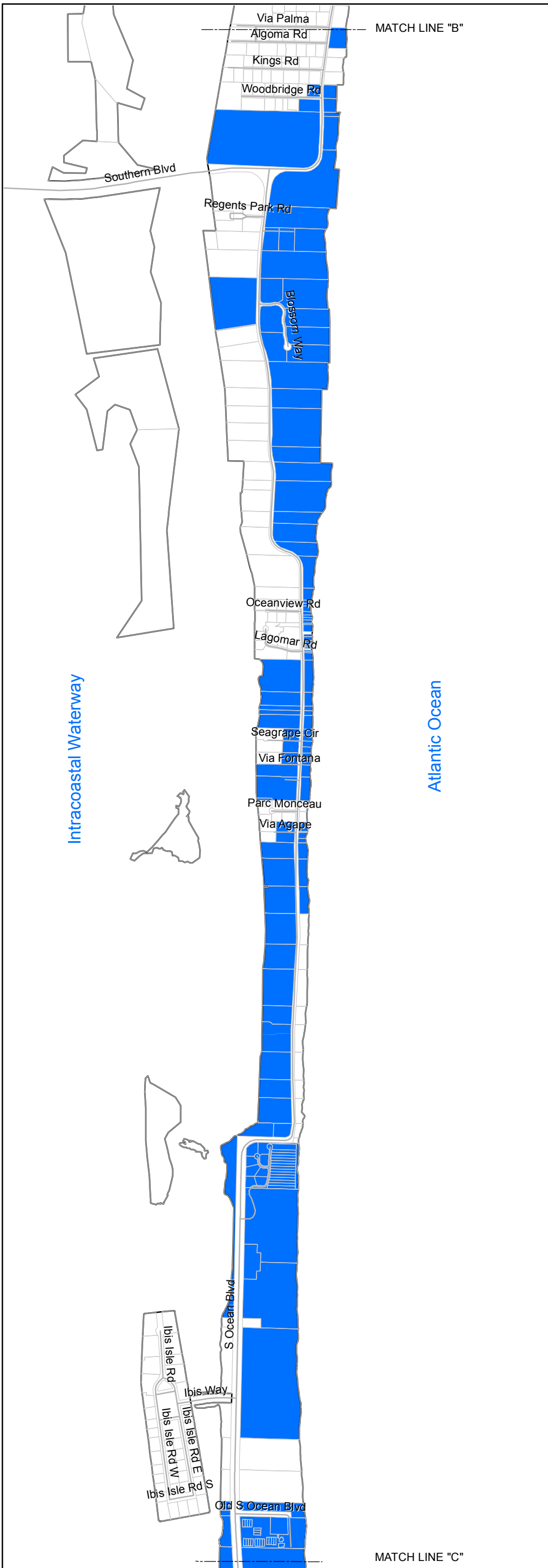
TOWN OF PALM BEACH ARCHAEOLOGICAL SITES
Planning, Zoning & Building Department

■ ARCHAEOLOGICAL SITES



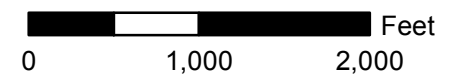
Map Created: July 28, 2017
 Town of Palm Beach
 Information Technologies GIS Department
 Planning, Zoning & Building Department
 (561) 838-5430
 Email: pzb@townofpalmbeach.com
 Website: palmbeach.govoffice.com





TOWN OF PALM BEACH ARCHAEOLOGICAL SITES
Planning, Zoning & Building Department

■ ARCHAEOLOGICAL SITES



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PUBLIC SAFETY ELEMENT

GOALS, OBJECTIVES AND POLICIES

GOAL

Promote the health, safety, and security of the City’s residents and visitors, including in times of disasters and other emergencies.

OBJECTIVE 1

The Town of Palm Beach shall continue to maintain and enhance a high level of safety and security for residents and visitors of the Town.

POLICY 1.1

Provide a coordinated and proactive public safety program through the Public Safety Director.

POLICY 1.2

Maintain a well-trained and adequately-staffed police department dedicated to law enforcement activities within the Town.

POLICY 1.3

Continue to ensure that excellent professionally maintained fire rescue services are provided within the Town.

OBJECTIVE 2

The Town will continue to implement innovative and state of the art law enforcement techniques and technologies to ensure the health, safety and welfare of residents, businesses and visitors.

POLICY 2.1

Incorporate “Crime Prevention Through Environmental Design” (CPTED) concepts and techniques to the maximum extent feasible during site planning for new development and redevelopment.

POLICY 2.2

The Police Department shall continue high profile enforcement of all vehicular and non-vehicular traffic laws.

OBJECTIVE 3

The Town shall seek to reduce the exposure of life and property to hurricanes and other disasters through the planning and implementation of emergency preparedness, response and recovery plans.

POLICY 3.1

The Town's Comprehensive Emergency Management Plan (CEMP), which includes the Storm Emergency Response Plan (SERP) and Continuity of Operations Plan (COOP) be reviewed and updated as needed.

POLICY 3.2

Due to the Town's location within the Coastal High Hazard Area and general vulnerability to hurricane events, the Town shall ensure that future development or redevelopment maintains or reduces hurricane evacuation times through land use controls.

POLICY 3.3

Coordinate with adjacent municipalities, Palm Beach County, the Florida Department of Transportation and other responsible agencies, to ensure that the regional transportation network provides for the safe and timely evacuation of residents in a hurricane or other emergency event is not degraded as a result of Transportation Concurrency Exemption Areas (TCEA).

*Town of Palm Beach
10-Year Water Supply Facility Work Plan*



TOWN OF PALM BEACH, FLORIDA

TOWN OF PALM BEACH 10-YEAR WATER SUPPLY FACILITY WORK PLAN

Prepared For:

Florida Department of Economic Opportunity

Prepared By:

Town of Palm Beach Planning, Zoning & Building Department

August, 2020



TABLE OF CONTENTS

1.0 INTRODUCTION

- 1.1 Statutory History
- 1.2 Statutory Requirements

2.0 BACKGROUND INFORMATION

- 2.1 Overview
- 2.2 Relevant Regional Issues

3.0 DATA AND ANALYSIS

- 3.1 Population Information
- 3.2 Maps of Current and Future Areas Served
- 3.3 Population and Potable Water Supply Demand Projections
- 3.4 Water Supply Provided by the City of West Palm Beach
 - 3.4.1 SFWMD Water Use Permit
 - 3.4.2 Existing Withdrawal Facility
 - 3.4.3 Alternative Water Supplies
 - 3.4.4 Interconnects
- 3.5 Conservation
- 3.6 Alternative Water Supply Projects & Reuse

4.0 CAPITAL IMPROVEMENTS

- 4.1 City of West Palm Beach's Existing Water Treatment Plant Process
- 4.2 Capital Improvements Element/Schedule

5.0 COORDINATION WITH WATER PROVIDER

Appendix A - The City of West Palm Beach 10-Year Water Supply Facility Work Plan



1.0 INTRODUCTION

The purpose of the Town of Palm Beach Water Supply Facility Work Plan (Work Plan) is to identify and plan for the water supply sources and facilities needed to serve existing and new development within the Town’s jurisdiction. Chapter 163, Part II, F.S., requires the Town to prepare and adopt a Work Plan into its comprehensive plan within 18 months after the water management district approves a regional water supply plan or its update. The *2018 Lower East Coast Water Supply Plan Update* was approved by the South Florida Water Management District (SFWMD) in November of 2018 ~~2013~~. Completion of the Town’s plan was dependent upon the ~~approval~~ completion of the Town’s water supplier’s (City of West Palm Beach) Work Plan ~~by~~ and the transmittal of the City’s Work Plan to the Florida Department of Economic Opportunity (DEO).

Residents of the Town of Palm Beach obtain their water directly from the City of West Palm Beach, which is responsible for ensuring that enough capacity is available for existing and future customers.

The Town of Palm Beach Water Supply Facility Work Plan (Work Plan) references the initiatives already identified in City of West Palm Beach’s 10-year Work Plan since the Town is a retail buyer. According to state guidelines, the Work Plan and the comprehensive plan amendment must address the development of traditional and alternative water supplies, bulk sales agreements, conservation, and reuse programs that are necessary to serve existing and new development for at least a 10-year planning period. Because of the Town’s relationship with the City of West Palm Beach, the Town’s Work Plan has the same planning time schedule as the City of West Palm Beach’s 10-year Work Plan.

The Town’s Work Plan is divided into four sections:

Section 1 – Introduction

Section 2 – Background Information

Section 3 – Data and Analysis

Section 4 – Work Plan Projects/Capital Improvement Element/Schedule

The Town of Palm Beach’s goals, objectives and policies that address potable water are found in the “Potable Water” sub-element of the Infrastructure Element of the Town’s Comprehensive Plan. Specifically, the policies in Objectives 9, 10, and 11 in the Infrastructure Element detail how the Town coordinates with its water provider to guarantee a sufficient water supply for its residents in the most efficient and environmentally friendly way possible. Policy 11.2 in the Infrastructure Element references this Water Supply Facility Work Plan.



1.1 Statutory History

The Florida Legislature enacted legislation in the 2002, 2004, 2005, 2011, 2012, 2015 and 2016 sessions to address the state's water supply needs. This legislation, particularly Senate Bills 360 and 444 (2005 legislative session), significantly changed Chapter 163 and 373 Florida Statutes (F.S.) by strengthening the statutory links between the regional water supply plans prepared by the water management districts and the comprehensive plans prepared by local governments. In addition, these bills established the basis for improving coordination between the local land use planning and water supply planning.

1.2 Statutory Requirements

Each local government must comply with the following requirements:

1. Coordinate appropriate aspects of its comprehensive plan with the appropriate water management district's regional water supply plan, [163.3177(4)(a), F.S.]
2. Ensure that its future land use plan is based upon availability of adequate water supplies and public facilities and services [s.163.3177(6)(a), F.S.]. Data and analysis demonstrating that adequate water supplies and associated public facilities will be available to meet projected growth demands must accompany all proposed Future Land Use Map amendments submitted to the Department for review. The submitted package must also include an amendment to the Capital Improvements Element, if necessary, to demonstrate that adequate public facilities will be available to serve the proposed Future Land Use Map modification.
3. Ensure that adequate water supplies and facilities are available to serve new development no later than the date on which the local government anticipates issuing a certificate of occupancy and consult with the applicable water supplier prior to approving building permits, to determine whether adequate water supplies will be available to serve the development by the anticipated issuance date of the certificate of occupancy [s.163.3180 (2), F.S.]. This "water supply concurrency" is now in effect, and local governments should be complying with the requirement for all new development proposals. In addition, local governments should update their comprehensive plans and land development regulations as soon as possible to address these statutory requirements. The latest point at which the comprehensive plan must be revised to reflect the concurrency requirements is at the time the local government adopts plan amendments to implement the recommendations of the Evaluation and Appraisal Report (EAR).



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4. For local governments subject to a regional water supply plan, revise the General Sanitary Sewer, Solid Waste, Drainage, Potable Water, and Natural Groundwater Aquifer Recharge Element (the “Infrastructure Element”), within 18 months after the water management district approves an updated regional water supply plan, to:
 - a. Identify and incorporate the alternative water supply project(s) selected by the local government from projects identified in the updated regional water supply plan, or the alternative project proposed by the local government under s. 373.709(8)(b), F.S. [s. 163.3177(6)(c), F.S.];
 - b. Identify the traditional and alternative water supply projects, bulk sales agreements, and the conservation and reuse programs necessary to meet current and future water use demands within the local government’s jurisdiction [s. 163.3177(6)(c)3, F.S.]; and
 - c. Include a water supply facilities work plan for at least a 10-year planning period for constructing the public, private, and regional water supply facilities identified in the element as necessary to serve existing and new development. [s. 163.3177(6)(c), F.S.] Amendments to incorporate the water supply facilities work plan into the comprehensive plan are exempt from the twice-a-year amendment limitation. [s. 163.3177(6)(c)3, F.S.]
 5. Revise the Five-Year Schedule of Capital Improvements to include any water supply, reuse, and conservation projects and programs to be implemented during the five-year period [s. 163.3177(3)(a)4, F.S.].
 6. To the extent necessary to maintain internal consistency after making changes described in Paragraph 1 through 5 above, revise the Conservation Element to assess projected water needs and sources for at least a 10-year planning period, considering the appropriate regional water supply plan, the applicable District Water Management Plan, as well as applicable consumptive use permit(s). [s.163.3177 (6)(d), F.S.]

If the established planning period of a comprehensive plan is greater than ten years, the plan must address the water supply sources necessary to meet and achieve the existing and projected water use demand for established planning period, considering the appropriate regional water supply plan. [s.163.3167 (9), F.S.]

7. To the extent necessary to maintain internal consistency after making changes described in Paragraphs 1 through 5 above, revise the Intergovernmental Coordination Element to ensure coordination of the



comprehensive plan with applicable regional water supply plans and regional water supply authorities' plans. [s.163.3177(6)(h)1., F.S.]

8. Address in the EAR (if necessary), the extent to which the local government has implemented the 10-year water supply facilities work plan, including the development of alternative water supplies, and determine whether the identified alternative water supply projects, traditional water supply projects, bulk sales agreements, and conservation and reuse programs are meeting local water use demands. [s.163.3191 (3), F.S.]

2.0 BACKGROUND INFORMATION

2.1 Overview

The Town of Palm Beach was incorporated in 1911, making it the second municipality established in Palm Beach County. The Town is a 16-mile long barrier island with the Atlantic Ocean to the east and the Intracoastal Waterway to the west, which separates the Town from the Cities of West Palm Beach and Lake Worth.

The Town of Palm Beach is substantially built-out. The Town experienced its greatest growth between 1950 and 1970, when its resident population increased from 3,886 to 9,086. The population increased to 9,676 in 2000; however, since then, population growth has actually declined. According to the 2010 US Census, the Town had a population of 8,161, which was a 15.7% decrease from the 2000 US Census figure. The University of Florida, Bureau of Economic and Business Research (BEBR) estimates the 2019 population at 8,321, which is a somewhat minor population increase. Any potential population growth is unlikely, and if it were to occur, it would likely be relatively minor given the fact that the Town is substantially built-out, and there is a scarcity of vacant and developable land. Furthermore, the potential expansion of the Town's current boundaries through annexations is not possible because the Town is not physically connected to any unincorporated areas.

In 2009, an evaluation of existing gross acreage by land uses revealed that 1,614 acres or 78% of the total gross acreage in the Town is dedicated to residential use. The remaining gross acreages are allocated to non-residential uses such as private group use (11%), recreation (5%), commercial (5%); conservation (2%), and public use (0.002%). The private group use includes private clubs, golf and country clubs, houses of worship, museums and non-commercial recreation-type or cultural uses. Many of the new residential construction permits were in conjunction with a demolition permit, thereby allowing an existing home to be demolished and replaced with a new home. This information furthers the premise that the Town is essentially built-out.



2.2 Relevant Regional Issues

As the state agency responsible for water supply in the Lower East Coast planning area, the SFWMD plays a pivotal role in resource protection, through criteria used for Consumptive Use Permitting. As pressure increased on the Everglades ecosystem resource, the Governing Board initiated rule-making to limit increased allocations dependent on the Everglades system. As a result, the Regional Water Availability Rule was adopted by the Governing Board on February 15, 2007 as part of the SFWMD's water use permit program. This reduced reliance on the regional system for future water supply needs, mandates the development of alternative water supplies, and increasing conservation and reuse.

3. DATA AND ANALYSIS

The Town of Palm Beach does not own or operate its own potable water supply system. Rather, potable water facilities and services are provided by the City of West Palm Beach. In addition to providing potable water to the Town of Palm Beach and its own residents, the City of West Palm Beach also provides potable water to the Town of South Palm Beach.

The City of West Palm Beach's water system includes a raw water supply, water treatment plant, storage reservoirs, and a distribution system. A 30-year renewable contract between the Town and the City was signed in 1965 (Resolution 3-65) and expired in 1995; however, the City continued to provide water to the Town as was required by the previous agreement. The Town subsequently renegotiated the contract with the City, and a new franchise agreement was signed on June 16, 1999 (Resolution 22-99), and is effective until 2029.

3.1 Population Information

The Town's existing and future population figures are derived from the US Census, the Bureau of Economic and Business Research (BEBR), and the Town's Planning, Zoning and Building Department. Between 1950 and 1970, the Town of Palm Beach population grew from 3,886 to 9,086, an increase of 134 percent. After this period, the Town's population growth was far less dramatic with a 2000 US Census figure of 9,676. The 2010 US Census found that the Town's population actually decreased by 15.7% to a figure of 8,161 (17,472 at peak season, which includes residents, seasonal residents, and transient). The Town's population has been estimated to increase slightly in 2019 to 8,321 (17,273 at peak season, which includes residents, seasonal residents, and transient), and by 2025 the Town's population should reach 8,425 (17,956 at peak season, which includes residents, seasonal residents, and transient); however, this is a somewhat minor increase, and the population is



anticipated to remain somewhat flat. Any potential growth is limited because of the fact that the Town is substantially built-out and there is a scarcity of vacant and developable land.

3.2 Maps of Current and Future Areas Served

The Town's water demand is met by the City of West Palm Beach, therefore the Town falls within the City of West Palm Beach's Utility Service Area, and is shown in the City's Potable Water Supply Service Area map found in the City's Comprehensive Plan Map Series.

3.3 Population and Potable Water Supply Demand Projections

The Town's population figures have been included in the City of West Palm Beach's 10-Year Water Supply Facility Work Plan, which also includes the population figures for the Town of South Palm Beach and the City of West Palm Beach. All of these population figures have been used to project future water demand in the Utility Service Area for the City of West Palm Beach, and are included in the City's 10-Year Water Supply Facility Work Plan in the City's Comprehensive Plan. In summary, the City's permitted allocation of potable water is 15,038 million gallons per year, while the total raw water demand with bulk service agreements is 12,000 million gallons in 2020, and the total raw water demand with bulk agreements is ~~12,742~~ 12,989 million gallons in 2030. The water demand is always less than than the water allocation over the next ten (10) years. Therefore, the City of West Palm Beach can more than easily meet the water demands of the Town of Palm Beach for the next ten years.

3.4 Water Supply Provided by the City of West Palm Beach

The City of West Palm Beach's 10-Year Water Supply Facilities Work Plan is attached as Appendix A. The intent of the City's Work Plan is to meet the statutory requirements mentioned in subsection 1.2 of this plan and to coordinate the City of West Palm Beach's water supply initiatives with the SFWMD's 2018 *Lower East Coast Water Supply Plan Update*.

As stated earlier, the City of West Palm Beach's Utility Service Area includes all the land within the City's municipal boundaries, and also those areas within the municipal boundaries of the Town of South Palm Beach and the Town of Palm Beach. The City of West Palm Beach's supply system is detailed in the following subsections.

3.4.1 SFWMD Water Use Permit



The City obtained a 20-year water use permit (WUP) from the South Florida Water Management District (SFWMD) on February 14, 2013. The details of the permit are as follows:

- GWUP Number: 50-00615-W
- Raw Water Source:
 1. Ground Water Source: Aquifer Storage and Recovery (ARS) Well for surface water storage / recovery and Surficial Aquifer System.
 2. Surface Water Source: Clear Lake (via M-Canal and Lake Mangonia from Grassy Waters Preserve and Lake Okeechobee via the L-8 Tieback (SFWMD Canal (L-8) Tieback) through control 2 (67 MGD).
- Raw Water Allocation Information:
 - Annual Allocation: 15,038 Million Gallons (MG)
 - Max. Monthly Allocation: 1,392.32 Million Gallons (MG)
- Annual allocation includes 15,038 million gallons (MG) from Clear Lake and 24,446 Million Gallon (MG) from SWFWMD Canal (L-8) Tieback as existing surface water withdrawal and from Surficial Aquifer System 1,470 MG from West Wellfield (WWF) and 864 MG from East Wellfield (EWF). All allocations are for the Public Water Supply portion of the permit.
- Specific Source Limitation:
 - Clear Lake Annual = 15,038 MG; Monthly = 1,392.32 MG
 - Surficial Aquifer System West Wellfield (monthly) – 759.50 MG
 - Surficial Aquifer System East Wellfield (EWF) (monthly) – 446.4 MG
 - SFWMD Canal (L-8) Tieback (monthly) – 2,765.00 MG
- Permit Expiration: February 14, 2033.

3.4.2 Existing Withdrawal Facility

Source: ASR Well for surface water storage / recovery

1-24" – X 1200' X 4861 GPM Well Cased to 985 feet

Source: Surficial Aquifer System

1 – X 18" X 152.5' X 2,780 GPM Well Cased to 82.5 feet



- 1 – X 18" X 153.5' X 2,780 GPM Well Cased to 83.5 feet
- 1 – X 18" X 154' X 2,780 GPM Well Cased to 84 feet
- 1 – X 18" X 163' X 2,780 GPM Well Cased to 93.5 feet
- 1 – X 18" X 166' X 2,780 GPM Well Cased to 96 feet
- 1 – X 18" X 170' X 2,780 GPM Well Cased to 100 feet
- 4 – X 18" X 150' X 2,780 GPM Well Cased to 80 feet

Ground Water: Surficial Aquifer System – East Wellfield

- 1-24" x 98'x 1000 GPM Well Cased to 95 feet
- 1-24" x 186'x 1000 GPM Well Cased to 137 feet
- 1-24" x 181'x 1000 GPM Well Cased to 131 feet
- 1-24" x 95'x 1000 GPM Well Cased to 91 feet
- 1-24" x 101'x 1000 GPM Well Cased to 86 feet
- 1-24" x 170'x 1000 GPM Well Cased to 132 feet
- 1-24" x 97'x 1000 GPM Well Cased to 93 feet
- 1-24" x 125'x 1000 GPM Well Cased to 119 feet
- 1-24" x 195'x 1000 GPM Well Cased to 145 feet
- 1-24" x 142'x 1000 GPM Well Cased to 105 feet

Source: Clear Lake-Surface Water

- 4 – X 14" X 100 HP X 8,400 GPM Turbine Pumps
- 1 – X 16" X 100 HP X 5,250 GPM Centrifugal Pumps
- 2 – X 18" X 125 HP X 10,500 GPM Centrifugal Pumps
- 1 – X 30" X 150 HP X 17,500 GPM Turbine Pumps
- 3 – 36" X 130 HP X 15,000 GPM Submersible Pumps
- 4 – 42" X 200 HP X 33,700 GPM Axial Flow Pumps

3.4.3 Alternative Water Supplies

The City's SFWMD water use permit (GWUP) requires that the City "use alternative water supplies to account for all increased demands from Clear Lake above the City's historic use." The City has identified these alternatives in their 10-Year Water Supply Facility Work Plan (Section 3.3.4), which will allow the City to meet the water supply demand of its Service Area for the next ten years, including the water demands of the Town of Palm Beach. The City has approved alternatives, urban stormwater treatment via the Renaissance Project (637 MGY), tidal capture from C-51 canal (up to 54 MGD) via Renaissance treatment process, tidal capture from C-17 canal (up to 72 MGD) and ASR well (stored surface water-up to 8 MGD, though on average have pumped out 2 MGD).

3.4.4 Interconnects



The City also maintains interconnections with other public water suppliers including:

1. One interconnection with the Solid Waste Authority for delivery of up to 0.35 MGD of finished water;
2. One interconnection with the Palm Beach County at Bay Hill Estates for delivery of up to 0.15 MGD of finished water;
3. One emergency interconnection with Lake Worth Utilities (1.0 MGD);
4. Five emergency interconnections with Palm Beach County at SR7 at Okeechobee (3.0 MGD), M-Canal W to Coconut Blvd (0.15 MGD), Haverhill Road (1.5 MGD), Jog Road (3.0 MGD), and Florida Mango Road (1.0 MGD); and
5. Two emergency interconnections with the City of Riviera Beach with one at Military Trail (1.0 MGD) and one at Broadway Avenue (1.0 MGD).

3.5 Conservation

Currently, one of the Town's objectives listed in the Comprehensive Plan is to implement a water conservation program that includes education, requiring water saving devices in construction, requiring new automatic irrigation systems to include water sensors, the use of xeriscaping, and enforcement of SFWMD's irrigation restrictions. Some water conservation programs have been implemented and added to Town code, including native vegetation landscape requirements.

To further the conservation of water, the Town will coordinate future conservation efforts with the City of West Palm Beach and the SFWMD to ensure that proper techniques are applied. In addition, the Town will continue to support and expand existing goals, objectives and policies in the comprehensive plan that promote water conservation in a cost-effective and environmentally sensitive manner. The Town will continue to actively support the SFWMD and the City of West Palm Beach in the implementation of new regulations or programs that are design to conserve water during the dry season.

3.6 Alternative Water Supply Projects & Reuse

State law supports and promotes reuse efforts. For the past several years, Florida's utilities, local governments, and water management districts have led the nation in implementing water reuse programs that increase the quantity of reclaimed water used and public acceptance of reuse programs. Section 373.250(1) F.S. provides that "the encouragement and promotion of water conservation and reuse of reclaimed water, as defined by the department, are state objectives and considered to be in the public interest." In addition, Section 403.064(1), F.S., provides that



“reuse is a critical component of meeting the state’s existing and future water supply needs while sustaining natural systems.”

The Town of Palm Beach supports all water reuse and alternative water supply initiatives by its water provider, including those completed and operational, and those that are being developed. These water reuse and alternative water supply initiatives include the following:

- **Renaissance Project:** Constructed in 2002, the project is an innovative stormwater collection and reuse system that collects and treats stormwater normally discharged to tide. With an initial construction cost of \$17,600,000 the project was completed with financial support from the Environmental Protection Agency, South Florida Water Management District, and Palm Beach County. The system captures, treat and stores approximately 637 million gallons per year, (MGY) or one (1.75) million gallons per day (MGD).
- **Aquifer Storage and Recovery (ASR) Well:** Upon completion of construction, the ASR well was rated at 8 mgd. Located at the Water Treatment Plant it is designed to store excess surface water during periods of heavy rainfall. The excess water is pumped into the upper Floridan Aquifer System and is recovered when the water is withdrawn to meet increased demands during dry weather. Cycle testing continues and in 2019 the well acid cleaned, the injection pump rebuilt, and the effluent valve replaced. The City continues to invest in this alternative water source with plans to restart cycle testing in early 2020.
- **C17 Canal Pump Structure:** The pump station was constructed to capture water prior to being sent to tide from C17 Canal, this pump structure has the potential to capture up to 72 MGD (operational conditions based on water being released to tide and canal levels).

4.0 CAPITAL IMPROVEMENTS

The following are details of the City of West Palm Beach’s treatment process for potable water, and what capital improvements will be necessary over the next ten years to provide potable water to those it serves, including the Town of Palm Beach.

4.1 City of West Palm Beach’s Existing Water Treatment Plant Process

The West Palm Beach Water Treatment Plant (WTP) is owned and operated by the City of West Palm Beach (City). The WTP and associated distribution system provides potable water to the residents, visitors and business of West Palm Beach and the towns of Palm Beach and South Palm Beach. The WTP is located in Palm Beach County, Florida at 1009 Banyan Boulevard, West Palm Beach, Florida.



The City was founded in 1894 and has been the seat of Palm Beach County government since 1909. The initial urbanized portion of the City was approximately eight miles long and 3 miles wide. A coastal ridge lies several blocks to the west and runs parallel to the Intracoastal Waterway for the entire length of the City. The original City site now constitutes the central business district. The development and maintenance of the utility infrastructure system continues to provide an acceptable level of service and an essential component in the City's growth.

From the first water supply system developed in the late 1800s, the City's utility system has grown from a service population of approximately 500 people in 1900 to its current estimated service population of approximately 125,000 residents covering 61 square miles. The utility system provides water for both indoor and outdoor use for about 34,334 residential and commercial customers accounts.

The City's potable water system includes a raw water supply system, WTP, re-pump stations, storage tanks, the distribution system and various interconnections with neighboring utilities.

The City's facilities including the source water supply, water treatment system, re-pump stations, available interconnection and the existing distribution system. Since the 2015 there have been several changes that include:

- Modification of Raw Water Pump #27;
- Construction of the 50.0 mgd Powered Activated Carbon (PAC) Basin;
- Filter Media Replacement;
- Abandonment of the 1 MG Clearwell/Storage Tank at the WTP;
- Construction and Operation of the 50 mgd Ultra-Violet Light (UV) Disinfection System;
- Construction of a direct suction header to the West Pump House;
- Installation of 4 new high service pumps in the West Pump House;
- Remote re-pump station switches from gaseous chlorine to sodium hypochlorite;
- Pre and post disinfectant injection at the Ibis Re-Pump Station; and
- Six Sigma project to address distribution system flushing volumes.

These projects total more than 25 million dollars (\$25,000,000) invested in the PWS since 2015. The City continues to be committed to the proper operation and maintenance of its PWS to ensure public health and safety.

The WTP is a surface water treatment facility operating on a source water supply that is collected, stored and transported by various catchment areas including urban rain cropping, wetlands, lakes and canals to meet the water supply needs.



The source water supply includes facilities owned and operated by the City along with facilities within the Regional Systems operated by the South Florida Water Management District and the United States Army Corps of Engineers.

The existing source water supply system dates to 1894 with the construction of a single steam driven pump and an 8-inch pipe to move water from Clear Lake to Henry Flager's Royal Poinciana Hotel. Over the years the source water supply has been expanded. The history of the supply includes the following milestones:

- 1894 Clear Lake tapped as Water Supply.
- 1920's Clear Lake is connected to Lake Mangonia.
- 1930's M-Canal excavated to wetlands (Grassy Waters Preserve) west of the lakes.
- 1950's Grassy Waters Preserve (19.3 Square Miles) purchased.
- 1960's M-Canal Extension westward to the L-8 Canal and Lake Okeechobee.
- 1980's Western Wellfield constructed.
- 1990's Aquifer Storage and Recovery Well constructed.
- 2000's Renaissance Project construction and the Okeechobee Divide Structure constructed.
- 2010's Eastern Wellfield constructed, Australian Avenue Gates and Pumps constructed, and the C-17 Pump House constructed.

The Clear Lake WTP, originally completed in 1921, underwent an expansion in 1989 and as of 2020 is in the final steps of a major renovation including the addition of the PAC basins, the UV Treatment System and upgrades to the West Pump House's high service pumps and Raw Water Pump 27.

The WTP has a maximum permitted capacity of 47.3 mgd. The treatment process includes the following:

- Hypochlorite Pretreatment - Turbidity Control (Optional);
- Powered Activated Carbon - Taste and Odor Control (Optional);
- Cationic Polymer - Turbidity Control;
- Ferric Sulfate - Turbidity Control;
- Lime – Softening, Turbidity and TOC Removal;
- Recarbonation - pH Adjustment;
- Filter Aid - Turbidity Control (Optional);
- Conventional/Biologically Active Filters – Turbidity Control, Taste and Odor Control;
- UV Disinfection - Bacteriological Control;
- Chlorine/Chloramines - Bacteriological Control;
- pH Adjustment (Sodium Hydroxide) - Lead and Copper Control;
- Orthophosphate (Corrosion Inhibitor) - Lead and Copper Control; and
- Fluoride - Dental Health.



The WTP uses conventional lime softening, filtration and chemical disinfection to comply with the federal and state safe drinking water regulations. The UV System, commissioned in February 2019, provides an additional barrier for public health purposes. The PAC Basin, expected to be fully operational in early 2020, will be used on an as needed basis to improve the taste and odor characteristic of the finished water.

The primary source of the City's water supply is surface water. Surface water travels through the City's M-Canal to the City's water supply lakes, Lake Mangonia and Clear Lake, from the City's Grassy Waters Preserve, a 19.3 square mile aquatic preserve located in western West Palm Beach and from Lake Okeechobee through the L-8 Tieback through the City's control 2 structure.

Alternative sources of water that feed into this above-ground water supply system include the City's Renaissance Project, tidal water capture from C51 and C17 Canals, augmentation from surface water stored and recovered from the ASR well,

The Eastern and Western wellfield surficial wells are available to the City during periods of drought conditions.

4.2 Capital Improvements Element/Schedule

The City of West Palm Beach's Capital Improvements Schedule, which is adopted annually, details the capital improvements necessary to provide the various adopted levels of service (LOS) established by the City and those that they serve, including the Town of Palm Beach. The City's Utilities Department is currently assessing the condition of the water treatment plant, as well as distribution system assets. Following the assessment, the City will prioritize infrastructure projects, including above ground and underground utilities. Based on the assessment and prioritization, the Utilities Department plans on borrowing money through a bond to address water treatment and distribution needs.

2022: East High Service Building Motor Control Center. Project includes the installation of Variable Frequency Drives on 2 of the 3 existing high service pumps. Project will increase energy efficiency within the plant and provide better control over distribution system pressures.

2023: Recarbonation System Upgrades. Project includes replacement of the existing liquid carbon dioxide storage tanks and associated equipment. Project will decrease the plant's potable water demand freeing up capacity for customers and reduce liquid carbon dioxide consumption with an improved process.



2025: Kaye Street Re-Pump Station Motor Control Center. Project includes the installation of Variable Frequency Drives on the booster pumps. Project will increase energy efficiency within the plant and provide better control over distribution system pressures.

2025: Lime Storage / Slaker Additions. Project includes the addition of a new lime silo and slaker. Project will increase lime storage capacity for storm events and slaker capacity for system reliability.

2030: Valley Forge Re-Pump Station Storage Tank Upgrade. Project includes the rehabilitation or replacement of the existing 3-million gallon storage tank. Project will maintain the City's storage capacity.

2030: Valley forge Re-Pump Station Motor Control Center. Project includes the installation of Variable Frequency Drives on the booster pumps. Project will increase energy efficiency within the plant and provide better control over distribution system pressures.

5.0 COORDINATION WITH WATER PROVIDER

A representative from the Town of Palm Beach meets on a regular basis with a representative from the City of West Palm Beach to “assist the City in its efforts to establish priorities for replacement of, or corrections of, deficiencies to potable water quality, facilities, as well as provision for future potable water needs.” (Infrastructure Element Policy 11.1). The Town has also created the Town of Palm Beach Water Committee that regularly meets to discuss water supply problems and issues, and possible solutions. Representatives from the City of West Palm often address this Committee, and this Committee is in constant coordination with the City to ensure that the Town's potable water needs are met.

The Town will amend this work plan to address any changes to the water provider, or if the Town assumes the responsibility of water provider.



Appendix A

The City of West Palm Beach 10 Year Water Supply Facility Work Plan