ORDINANCE AMENDING ORDINANCE 309; ADOPTING REVISED COASTAL CONSTRUCTION CODE AS PROMULGATED BY THE DEPARTMENT OF COMMUNITY AFFAIRS OF THE STATE OF FLORIDA; REPEALING ALL ORDINANCES IN CONFLICT, EFFECTIVE AS OF JANUARY 1, 1987.

WHEREAS, the Legislature of the various provisions of the Coastal forth in F. S. Chapter 161, and State 1 Zone of Florida has Protection Act amended as set

WHEREAS, the Department of Community Affairs has promulgated the attached model coastal construction code, in compliance with the 1986 amendment to the Coastal Zone Protection Act,

NOW THEREFORE, HEREBY ORDAINS: THE TOWN COUNCIL OF THE TOWN OF GOLDEN BEACH

Section 1. That the provisions of Ordinance 309, Section 1(c) adopting a "Coastal Construction Code", be and the same is hereby amended in its entirety as set forth in the attached Coastal Construction Code of 1986.

Section 2. That shall be effective the as e said "Coastal of January 1, Construction Code 1987. of 1986"

Section the same a 1 3. are That all repealed i ordinances insofar as they in conflict they are in (t herewith conflict.

bе

and

PASSED AND AD Golden Beach, ADOPTED by ch, Florida the this Town Council of the Town of 20 day of January, 1987

Motion to adopt the aforegoing Ordinance was offered

Councilman Tweddle

seconded by:

Councilman Fried and on roll call the following vote ensued:

Vice Mayor Councilman Councilman Councilman Councilman Duffner Fried Kheel Sorota Tweddle

TO FORM/ AND LEGAL

ATTORNEY

ATTEST

THE COASTAL CONSTRUCTION CODE

Section 00 - TITLE

building zone and coastal barrier islands in the Coastal Construction Code for construction within and shall be referred to as the The provisions contained herein shall "Coastal Code". Golden Beach, constitute the coastal

Section __01 - PURPOSE

other severe storms occurring along the coastal area of minimum standards for the design and construction of buildings defined herein and is not applicable to other locations. In the and structures to reduce the harmful effects of hurricanes and Coastal Code is site specific to the coastal building zone as the beach, dunes, and topography of adjacent properties. The address design features which affect the structural Beach, General: Atlantic Ocean Florida These standards are intended to specifically The purpose of the Coastal Code is which fronts on the stability of to provide <u>Golden</u>

Section 02 - SCOPE

city, county, state or federal regulation.

design shall apply. No provisions in this chapter shall be

this code, the requirements resulting in the more restrictive

construed to permit any construction in any area prohibited by

event of a conflict between this chapter and other chapters of

- building zone and on coastal barrier islands in BEACH, FLORIDA. shall apply to the following types of construction in the coastal 02.1.1 The new construction of, or substantial improvement to 02.1 Applicability: The requirements of this Coastal Code
- major structures, nonhabitable major structures, and minor potential structures as defined herein. for substantial impact on coastal zones (i.e. excava-Construction which would change or otherwise have the

tion, grading, paving).

- not apply to the following: 02.2 Exceptions: The requirements of the coastal code shall
- 02.2.1 Minor work in the nature of normal beach cleaning and
- code, except for subtantial improvements as defined herein. Structures in existence prior to the effective date
- mit was issued prior to the effective date of this code. Construction for which a valid and unexpired building
- Statutes (i.e. groins, jetties, moles, breakwaters, seawalls, revetments, beach nourishment, inlet dredging, etc.). line which is regulated by the provisions of section 161.041, F Construction extending seaward of the seasonal high-w
- herein, except for the requirements of paragraph 04.4. Construction of non-habitable major structures
- for the requirements of paragraph __04.5. Construction of minor structures as defined herein, e
- the State Inventory of Historic Places. Structures listed in the National Register of Histori
- with existing state or local health, sanitary, or safety code s fications which are solely necessary to assure safe living cond 02.2.8 Construction for improvement of a major structure to
- or professional engineer registered in the State of Florida. mits for construction in the coastal building zone and on coast Such certifications shall state required by the Building Official to be certified by an archite barrier islands, if not of normal or usual design, may be fications for the construction are in compliance with the cri-Application for Permits: Applications for building per by this Coastal Code that the design plans

design wind forces, but which will fail under hydrodynamic, wave resistance of no less than 10 nor more than 20 pounds per square adjacent property. It shall be a characteristic of a breakaway conditions, the wall shall fail in a manner such that it breaks v runup forces associated with the design storm surge. into components which minimize the potential for damage to life o frangible wall that it shall have a horizontal design loading independent of supporting structural members that will withstand "Breakaway wall" or "frangible wall" means a Under such

supports floor, wall or column loads, and transmits them to the piles, columns, or footings. and includes the lowest horizontal structural member exclusive of foundation. "Coastal Barrier Islands" means geological surfac "Building Support Structure" The term shall include beams, grade beams, or joists means any structure which Ъу

marine waters, that front upon the open waters of the Gulf of coral, coquina, sediment, or other material, including spoil are composed of quartz sands, clays, limestone, oolites, rock, Mexico, Atlantic Ocean, Florida Bay, or Straits of Florida and commerce shall not be considered coastal barrier islands. by artificial channelization for the purpose of assisting marine features above mean high water which are completely surrounded Mainland areas which were separated from the mainland

03.1.5 "Coastal Building Zone" means: (See footnote *)

- ward from the coastal construction control line. Florida Bay, or Straits of Florida, the land area between waters of either the Gulf of Mexico, Atlantic Ocean, For mainland areas which front directly upon the open the seasonal high-water line and a line 1500 feet land-
- (4) Flood Insurance Rate Maps. Federal Emergency Management Agency and shown on the city zone (V-zone) boundary line established by the shall be the land area seaward of the most landward For mainland areas where a coastal construction control line has not been established, the coastal building zone velo-
- <u>c</u> For coastal barrier islands, the land area between the seasonal high-water line and a line 5000 feet landward

- (e) the coastal building zone. land area in the Florida Keys shall be included in
- applicable in your jurisdiction. For simplification use only those parts of this definition
- waves, or other predictable weather extent of that portion of the beach-dune system which is subject 161.053, Florida Statutes. the Department of Natural Resources to severe fluctuations based upon a "Coastal Construction Control Line" means the landward 100-year storm surge, storm in accordance with section conditions as established by
- of construction or the result of construction. When appropriate to the context, or use of any existing structure or the appearance of any land. tion of any land. improvement to any structure or the clearing, filling, or excava-03.1.7 "Construction" means the building of or substantial It shall also mean any alterations in the size "construction" refers to the act
- usually sand-sized, deposited by natural or artifical means, which lies landward of the beach. 03.1.8 "Dune" means a mound or ridge of loose sediments,
- dential buildings including mobile homes, commercial, tential for substantial impact on coastal zones. institutional, industrial, and other construction having the por-"Major Structure" includes but is not limited to resi-
- is the average height of high waters over a 19 year period. tidal plane of mean high water with the shore. 03.1.10 "Mean high-water line" means the intersection of the Mean high water
- viewing platforms, gazebos, and boardwalks; lifeguard support access ramps and walkways; stairways; pile-supported elevated supported, elevated dune and beach walkover structures; beach retaining walls; sand fences, privacy fences, ornamental walls, courts, racquetball courts, and other uncovered paved areas; earth parking areas, shuffleboard courts, tennis courts, handball ornamental garden structures, aviaries, and other ornamental 03.1.11 . "Minor Structure" includes but is not limited to pilepublic and private bathhouses; sidewalks, driveways,

cal power plants, ways; and underground storage tanks. pads, vaults, and substations; roads, bridges, streets, and highretention structures; water and sewage treatment plants; electricanals, lakes, ditches, drainage structures, and other water limited to swimming pools; parking garages; pipelines; "Nonhabitable Major Structure" includes but transmission and distribution lines, transforme

referred to as the 1929 Mean Sea Level Datum. tic datum established by the National Ocean Service and frequentl "NGVD" means National Geodetic Vertical Datum -

wind, wave, and storm surge intensity having a one percent year interval. of being equaled or exceeded in any given year, during any 100shore incident hurricane or any other storm with accompanying "One Hundred Year Storm" or "100-Year Storm" chance

percent of the local mean tidal range above mean high water. 03.1.16 "Seasonal high-water line" means the line formed by the intersection of the rising shore and the elevation of 150 "Seasonal high-water line" means the line formed by

of Section adopted by 03.1.17 553.73, Florida Statutes. "State Minimum Building Code" means the building code a municipality or county pursuant to the requirements

equals or exceeds a cumulative total of 50 percent of the market reconstruction, or improvement of a structure, the cost of which value of the structure either: "Substantial Improvement" means any repair,

- (a) Before the repair or improvement is started; or
- (b) If the structure has been damaged and is being restored, before the damage occurred.

whether or not that alteration affects the external considered to occur when the first alteration of any wall, ceil-For the purposes of this definition, "substantial improvement" i project for improvement of a structure to comply with existing ing, floor, or other structural part of the building commences, state or local health, sanitary, or safety code specifications the structure. The term does not, however, include either any

damage to life, property, and the natural environment. determining the design found in the reference documents listed in subsection ___05.1 All structures parameters to minimize such shall be designed so as Assista

- 04.2 Structural Requirements for Major Structures:
- construction found elsewhere in the wind velocity of 115 miles per hour. hour except for the Florida Keys which shall use a Building Code using a fastest-mile wind velocity of 110 miles with section 1205 of the 1986 revisions to the 1985 mobile homes, shall be designed and constructed in accordance Design and Construction: shall also comply with (Dade County) Major structures, except the applicable standards Current South Florada Major structures, except
- Florida Statutes, as well as the requirements of subsection Uniform Standards Code ANSI All9.1, pursuant to Section 320.82: Federal Mobile Home Construction and Safety Standards or the Mobile Homes: Mobile homes shall conform to the
- with the National Flood Insurance Regulations as found in 44 Cl Parts 59 and 60 or_ tures shall be designed, constructed and located in compliance Ordinance) Elevation, Floodproofing, and Siting: , whichever is more restrictive. (Town of Golden Beach Flood Prevention ... All major stru
- 04.3 Design Conditions:
- or 115 mph as appropriate. Building Code using a minimum fastest-mile wind velocity of 11 ments of Section 1205 of the 1986 revisions to the 1985 Standa mobile homes, shall be designed in accordance with the require city of 115 mph. Florida Keys shall use a minimum design fastest-mile wind velo Velocity Pressure: Major structures, except These minimum design pressures All construction occurring in

Velocity Pressure (psf)
Building Height 60 feet or less

Table 1205.3A

Gust Velocity Pressure (psf)

Building Height Greater Than 60 Feet

0-500		0-400	0-300	100-200	1-100	31-50	0-30	Height (ft)		Hast
č	70	66	61	54	47	40	35	110	Coastal	Fastest-Mile Wind Velocity, V (mp
	82	72	67	60	51	44	. ယ . တ	115	Exposure	Velocity, \
										(B)

of design storm conditions. would result from the erosion reasonably anticipated as a result erosion and scour producing forces, including localized scour d simultaneously with live and dead loads. of a major structure shall consider all anticipated loads acting tions and bearing capacities shall not be greater than that whic be used in the design of foundations, calculation of pile reacconstruction control lines established or updated since construction shall provide for adequate bearing capacity taking to the presence of structural components. Foundation design an for foundation design shall account for all vertical and latera where vide information as to those areas within coastal building zone loss of soil above the design grade as a result of localized consideration the type of soil present and the anticipated erosion and scour of a 100-year storm event is applicable Upon request the Department of Natural Resources may pro Erosion computations are not required landward of coasti Foundations: The elevation of the soil Foundation design and construction Erosion computations

methods prescribed in the Naval Facilities Engineering Command Design Manual, NAVFAC DM-26, U.S. Department of Navy; Shore Protection Manual. U.S. Department of the Army Corps of and superstructures may be based upon the minimum criteria and resulting from design storm conditions on building foundations Wave Forces: Calculations for wave forces U.S. Department of the Army Coastal Engineering

sification resulting from repetitive waves. sider vertical uplift pressures and all lateral pressures to include impact as well as dynamic loading and the harmonic intenas applicable. Design wave loading analysis shall con-Breaking, broken, and nonbreaking waves shall be con-

under the distribution of the hydrostatic pressures. separate vertical and horizontal components acting simultaneously geometric surfaces shall be determined by considering the or inclined surfaces of major structures (i.e. floors, shall be considered. Hydrostatic loads which are confined shall inclined surfaces. forces acting horizontally above and below grade on vertical roofs, walls). loads shall be considered both upward and downward on horizontal fined water would freely rise if unconfined. be determined by using the maximum elevation to which the consurge fully peaked, breaking wave superimposed upon the design storm loads shall consider the maximum water pressure resulting from with dynamic wave setup. Both free and hydrostatic loads Hydrostatic Loads: Lateral hydrostatic loads shall be considered Hydrostatic loads on irregular or curved Calculations for hydrostatic Vertical hydrostatic

design grade which would affect the flow velocities. sider the maximum water pressures resulting from the motion of the water mass associated with the design storm. Full intensity loading shall be applied on all structural surfaces above the Hydrodynamic Loads: Hydrodynamic loads shall con-

Structural Requirements for Nonhabitable Major Structures

designed to function when submerged under such storm conditions Underground utilities, excluding pad transformers and vaults surface water anticipated under design storm conditions. Building Code (Dade County) All sewage treatment and public water supply systems shall be flood-proofed to prevent infiltration of dards of construction found in the Current South 好 lowide beach and dune system and shall comply with the applicable stanshall be designed to produce the minimum adverse impact on the fic structural requirements of Section __04.2, except that they under design storm conditions or shall otherwise flood-proofed to prevent infiltration of surface water Nonhabitable major structures need not meet the speci-

Construction, natural shoreline fluctuations and to preserve dune stability. be located a sufficient distance landward of the beach to permi ramps, gazebos, and coastal or shore protection structures, sha vated walkways, lifeguard support stands, piers, beach access the natural storm buffering and protection capability of the du is not diminished. Location of Construction: including excavation, may occur to Construction, except for elethe extent tha

other legal means, development or construction shall not interaccessway through private lands to lands seaward of mean high accessway is provided. tide or water line as they are: improve, consolidate, or relocate such public accessways so long fere with Public Access: such right of access unless a comparable alternative by prescription, prescriptive easement, or The developer shall have the right to Where the public has established

- (a) Of substantially similar quality and convenience public; 0 <u>:</u>
- (d Department of Natural Resources whenever improvements Approved by the local are involved seaward of the coastal construction cont line; and government and approved
- <u>c</u> Consistent with the coastal management element of the 163.3178, Florida Statutes. local comprehensive plan adopted pursuant to Section

Section 05 - References

of this chapter may be obtained from: ters and methodologies necessary to comply with the requirement References: Assistance in determining the design param

Shore Protection Manual, U. S. Army Corps of Engineers, 1984.

U.S. Department of the Army, Coastal Engineering Research Center's Technical Papers and Reports.

Florida Department of Natural Resources, Division of Beach

Coastal Construction Manual, Federal Emergency Management Agency, February, 1986. (Please note that the wind dessection is based upon the 1982 edition of the Standard Building Code with the 1984 accumulated amendments and the 1985 edition of the Standard Building Code with the 1986 revisions as required by section 161.55(1)(d), Florida Statutes.