OCTOBER 2024

CITY OF SEBASTIAN
FINAL VULNERABILITY ASSESSMENT REPORT, MAPS, AND TABLES

DEP AGREEMENT #23PLN17



Prepared For:

City of Sebastian
1225 Main Street
Sebastian, FL 32958

Prepared by:

Kimley»Horn

Kimley-Horn and Associates, Inc.
200 Central Avenue
Suite 600
St. Petersburg, FL 33701

ABBREVIATIONS

ADI	Alternating Direction Implicit
BFE	Base Flood Elevation
CIP	Capital Improvement Project
DEM	Digital Elevation Model
FDEP	Florida Department of Environmental Protection
FDEM	Florida Division of Emergency Management
FEMA	Federal Emergency Management Agency
FFE	Finished Floor Elevation
FIRM	Flood Insurance Rate Map
FIS	Flood Insurance Study
F.S.	Florida Statute
GIS	Geographic Information System
IH	IH
IL	IL
LF	Linear Feet
LiDAR	Light Detection and Ranging
LMS	Local Mitigation Strategy
LMSWG	Local Mitigation Strategy Working Group
LOS	Level of Service
MHHW	Mean Higher High Water
MSL	Mean Sea Level
NAVD 88	North American Vertical Datum of 1988
NFIP	National Flood Insurance Program
NGS	National Geodetic Survey
NGVD 29	National Geodetic Vertical Datum of 1929
NOAA	National Oceanic and Atmospheric Administration
SCS	Soil Conservation Service
SFHA	Special Flood Hazard Area
SJRWMD	Saint John's River Water Management District
SLR	Sea Level Rise
SWMP	Stormwater Masterplan
USACE	U.S. Army Corps of Engineers
USDA	United States Department of Agriculture
USGS	United States Geological Survey

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INTRODUCTION

The City of Sebastian (the City) received funding through the FDEP Resilient Florida Grant Program to conduct a Citywide Vulnerability Assessment Update (DEP No. 23PLN17). The City contracted with Kimley-Horn and Associates Inc. (Kimley-Horn) on August 22, 2023 through the Kimley-Horn Master Agreement #21-01-KHA-01 (dated February 22, 2021) to conduct work on the Vulnerability Assessment pursuant to F.S. 380.093.

The vulnerability assessment submitted to FDEP includes seven (7) tasks under DEP Agreement #22PLN17, including acquisition of background data, exposure and sensitivity analyses, identification of focus areas, the final report, maps, and tables, a public presentation, and participation in the LMSWG with the City.

GOALS AND OBJECTIVES

The main objectives of this study are:

- To conduct a vulnerability assessment pursuant to s. 380.093, F.S.
- To evaluate risks associated with flooding due to rainfall, SLR, tidal, and storm surge events in the City.
- To identify focus areas to highlight vulnerable areas within the City.
- To collaborate with the LMSWG to identify risks associated with flooding scenarios for adaptation with Indian River County's LMS Plan.

BACKGROUND

The City of Sebastian is a coastal municipality located in the northeastern portion of Indian River County. The City is approximately 18.2 square miles in area and is located east of the intersection of I-95 and County Road 512, which runs through the City to US-1. A location map outlining the municipal boundary of the City is shown in **FIGURE 1**. For the purposes of the vulnerability assessment, only City-owned or maintained assets lying within the boundary shown were evaluated in this study.

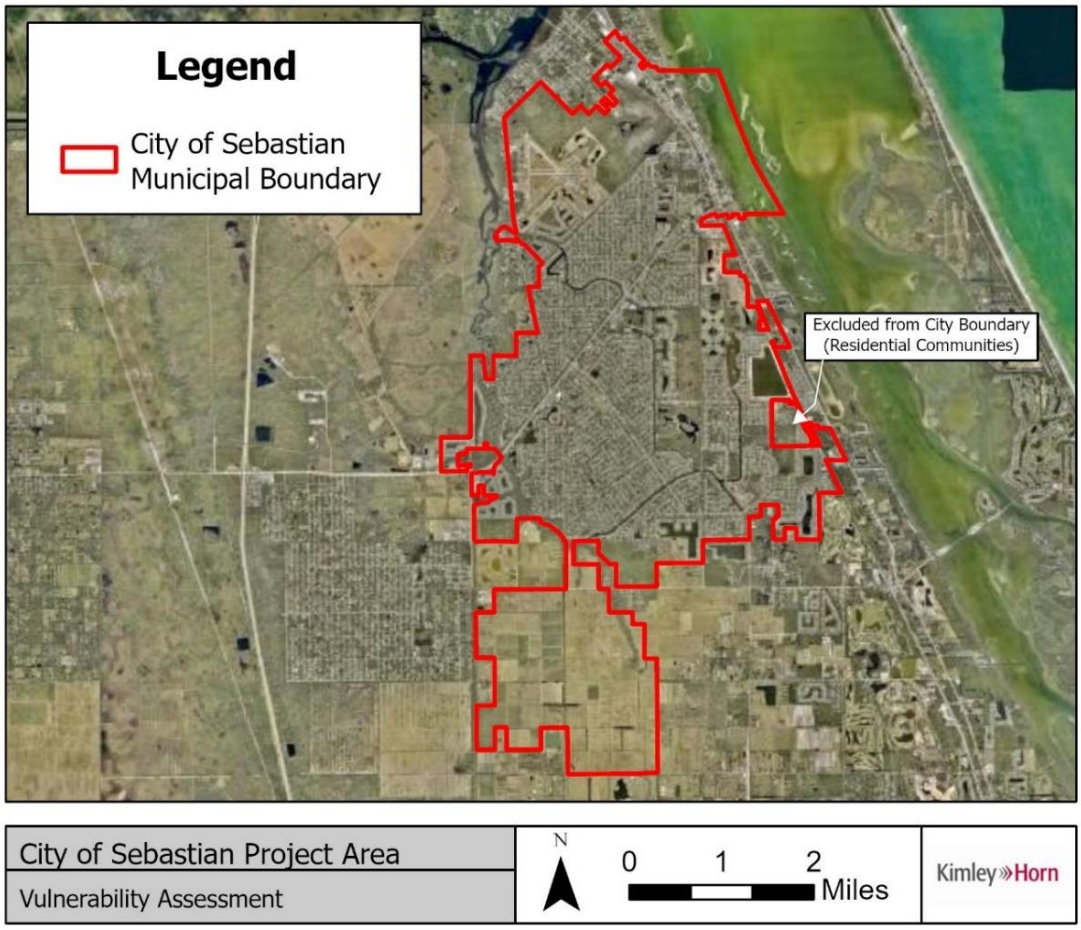


FIGURE 1: CITY OF SEBASTIAN VULNERABILITY ASSESSMENT PROJECT AREA

METHODOLOGY

The study methodology follows a seven-step process following state guidelines, described in **TABLE 1**. The focus of steps 1-3 is to acquire necessary background data, evaluate various flooding scenarios within the City limits, and rank vulnerability of critical assets owned or maintained by the City.

TABLE 1: METHODOLOGY STEPS

Task	Description
Task 1	Acquire Background Data
Task 2	Exposure Analysis
Task 3	Sensitivity Analysis
Task 4	Identify Focus Areas
Task 5	Final Vulnerability Assessment Report, Maps, and Tables
Task 6	Public Presentation
Task 7	Local Mitigation Strategy

Task 1 – Acquire Background Data

Project Kickoff

Kimley-Horn met with the City of Sebastian virtually on September 18, 2023. During this kick-off meeting, the project scope and schedule was reviewed as well as the data collected to date of the meeting. Requested datasets, data gaps, and other concerns were also identified through City and stakeholder engagement. Kickoff meeting notes have been provided in **APPENDIX A**.

Data Collection

Kimley-Horn requested and reviewed available existing information such as City asset inventories, hydrologic data, topography, and other information including:

- 2019 DEM for Indian River County (2.5-ft)
- NOAA Atlas 14 Rainfall Depths (100-year/24-hour and 500-year/24-hour)
- NOAA 2017 SLR Projections for 2040 and 2070 IL and IH
- Tidal Datums (NOAA Tides and Currents)
- FEMA FIRMs
- 100-year Storm Surge (FEMA FIS)
- Evacuation Routes and Transportation Assets
    - Major Roadways, Airports, Bridges, Docks
- City Inventory of Critical Infrastructure
    - Pump Stations, Baffle Boxes
- City Inventory of Community and Emergency Facilities
    - Community Centers, Law Enforcement Facilities, Local Government Facilities
- Municipal Boundary
- Natural, Cultural, and Historical Assets
    - Parks, Historic Sites, Seawalls, Surface Waters (Canals)

Kimley-Horn developed a dataset register to summarize all data collected. The data acquisition technical memorandum, kick-off meeting agenda, and dataset register are included in **APPENDIX A**.

Data Gap Analysis

Kimley-Horn conducted a data gap analysis of the provided information to check for completeness and applicability of the data. Under s. 380.093 F.S., "critical assets" are defined based on four main categories: Transportation Assets and Evacuation Routes, Critical Infrastructure, Critical Community and Emergency Facilities, and Natural, Cultural and Historical Resources. Data obtained was reviewed to determine relevancy and completeness based on statute guidelines. Assets not owned/maintained by the City were disregarded. **TABLE 2** shows a complete list of all the assets reviewed in this Vulnerability Assessment.

TABLE 2: INVENTORY OF CRITICAL ASSETS

Asset Category	Asset Class	Data Collected?	Notes
Transportation Assets and Evacuation Routes	Airports	✓	Airport assets were identified as; • Sebastian-Roseland Municipal Airport
	Bridges	✓	Bridge assets were identified as: • Schumann Lake Bridge W • Barber St Bridges • Periwinkle Dr Bridge • Englar Dr Bridge • Schumann Dr Bridge • Fleming St Bridge
	Major Roadways	✓	Major Roadway assets were identified as: • Sebastian Blvd (CR 512) • US Highway 1 • Barber St • Indian River Dr • Main St • Schumann Dr
	Marinas	✓	Marina assets were identified as: • Working Waterfront North Dock • Working Waterfront Dock • Sebastian Rotary Club Boardwalk • Main St and Indian River Dr Dock • Sebastian Yacht Club Dock • Sebastian Blvd E and Indian River Dr Dock • Twin Piers North Dock • Twin Piers South Dock
Critical Infrastructure	Stormwater Treatment Facilities	✓	Stormwater Treatment Facilities were identified as: • Coolidge St Baffle Box • Martin Ave Baffle Box • Washington St Baffle Box • Cleveland St Baffle Box • Davis St Baffle Box • Fisherman's Landing Baffle Box • Indian River Dr Baffle Boxes (3) • Riverview Park Baffle Box
	Pump Stations	✓	Stormwater pump station assets were identified as: • Stormwater Park Pump Station
Critical Community and Emergency Facilities	Community Centers	✓	Community center assets were identified as: • Sebastian Community Center • Sebastian Yacht Club
	Law Enforcement Facilities	✓	Law enforcement facilities were identified as: • Sebastian Police Department

Asset Category	Asset Class	Data Collected?	Notes
Critical Community and Emergency Facilities	Local Government Facilities	✓	Local government facilities were identified as: • City Hall
Natural, Cultural, and Historical Assets	Parks	✓	20 Parks were identified as City-Owned. • Easy Street Park • Hardee Park • Sebastian Bark Park • Garden Club Park • Blossom Street Park • Barber Street Sports Complex • Cheltenham Lake Park • George Street Park • Historical Park • Periwinkle Park • Stonecrop Park • Schumann Park • Schumann Lake Park • Main Street Boat Ramp • Riverview Park • Bryant Court Park • Filbert Street Park • Friendship Park • Working Waterfront • Sebastian Municipal Golf Course
	Shorelines	✓	• 18 concrete and/or vinyl seawalls along the Stormwater Canal System and Indian River Lagoon (approximately 1910 LF) • Concha/Elkcam Dam • 3 riprap shorelines along the Indian River Lagoon (approximately 2100 LF)
	Historical and Cultural Assets	✓	36 Historical and Cultural Assets were identified through the City's historical society.

As-built and elevation data were not available for the assets reviewed in this study. To rectify this data gap, a method of determining critical elevations through terrain analysis was employed in the sensitivity analysis.

A map of the City-owned critical assets for the City of Sebastian Vulnerability Assessment is provided in **APPENDIX B**.

Digital Elevation Model (DEM)

The USGS 2019 2.5-ft LiDAR DEM was obtained from the Florida Peninsular LiDAR Dashboard for use in the vulnerability assessment. A map displaying the 2019 DEM and City of Sebastian municipal boundary is provided in **APPENDIX C.**

The major water bodies within the City are the Indian River Lagoon, St. Sebastian River, and City canal system. The stormwater canal system discharges into the St. Sebastian River, which ultimately outfalls to the Indian River Lagoon. Seawalls exist along the canal system and serve as first line of defense for residential communities from flooding. Natural depressions exist in the northern portion of the City boundary, constituted by wetlands east of the airport property, as well as in areas surrounding the St. Sebastian River. Elevations surrounding the airport range from about 12.5-ft to 29-ft NAVD88. A ridgeline exists along US Highway 1, which runs parallel to the coastline. Directly west of this ridgeline, elevations reach a maximum of approximately 40-ft NAVD88, whereas regions east of this ridgeline exist at a minimum of less than 2-ft NAVD88 along the lagoon.

FEMA Flood Maps

FEMA FIRMs and FIS reports (effective January 26, 2023) were used as reference material for the flood scenarios modeled in this assessment. The following FIRM panels encompassing the Sebastian City limits were downloaded from FEMA Map's Service Center:

- 12061C0085J
- 12061C0094J
- 12061C0095J
- 12061C0103J
- 12061C0104J
- 12061C0111H
- 12061C0112J
- 12061C0113J
- 12061C0114J
- 12061C0226J
- 12061CIND0B

The FEMA FIRMs outline the areas of the City within flood zones or SFHAs. Zones A, AE, and VE (coastal) indicate areas in the 100-year floodplain whereas Zone X indicates areas in the 500-year floodplain. The region of the City east of US-1 along the Indian River Lagoon is in Zones AE and VE, with BFEs ranging from 5-8 ft NAVD88. The stormwater canal system and surrounding residential areas are primarily a Zone AE. The BFE near the Concha Dam, located in the southern portion of the City on the canal system, is about 16.9-ft NAVD88 upstream.

Full FEMA FIRM panels for the City of Sebastian have been included in **APPENDIX D.**

Concha Dam

The Concha/Elkcam Dam is located at the end of Concha Drive at the confluence of the Elkcam Waterway (canal) and the St. Sebastian River. The location of the Concha Dam relative to the City boundary is shown in **FIGURE 2**.

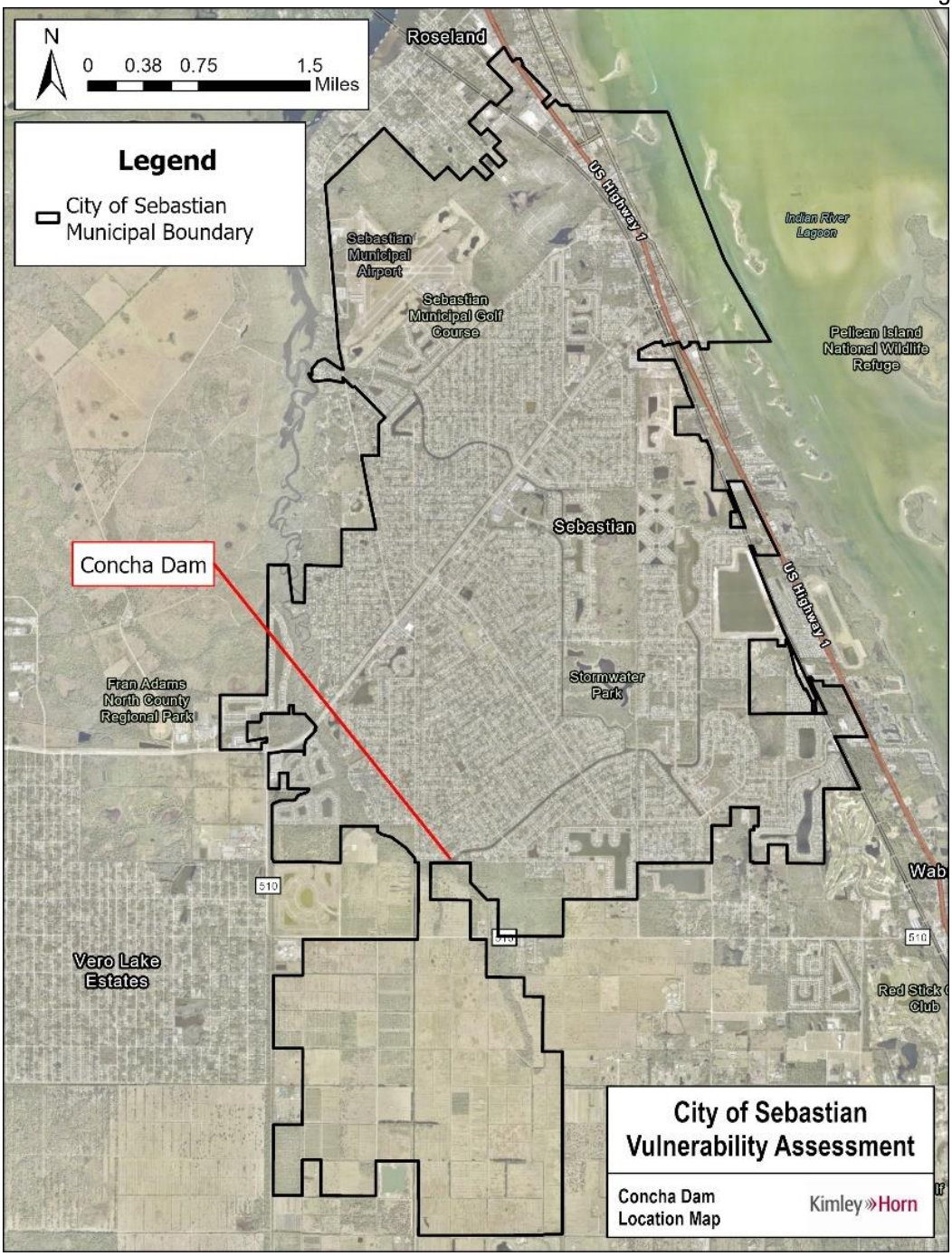


FIGURE 2: CONCHA DAM LOCATION MAP

At its widest, the weir crest elevation is 15.0-ft NGVD per structure drawings obtained through the SJRWMD ePermit portal. Conversions from NGVD29 to NAVD88 were conducted using a correction factor of -1.463-ft sourced from the NGS Coordinate Conversion and Transformation Tool (NCAT). This elevation, approximately 13.54-ft NAVD88, was burned into the DEM at the location of the weir for modeling purposes.

Task 2 – Exposure Analysis

Modeling Methodology

Depending on the flooding scenario, the following modeling methodologies were used to generate flood depth rasters for the exposure analysis task:

- Rapid Inundation Modeling
- Bathtub Modeling
- Hybrid Modeling
- ADI Modeling

RAPID INUNDATION MODELING

Rapid inundation modeling was used to project flood depths for rainfall events. The scenarios modeling using a rapid inundation model include:

- 100-Year, 24-Hour rainfall
- 500-Year, 24-Hour rainfall

Rapid inundation modeling works by routing water over the terrain for the duration of a specified storm event using a set of rules based on water level response to topography and existing water levels. This method of analysis does not consider stormwater infrastructure nor infiltration. Due to this, results as presented may be overstated in locations with major infrastructure and understated downstream of these regions. It is important to note that while all models used in this analysis show the extents of inundation due to low elevation, the rapid inundation model also identifies low areas that are bounded by ridges where standing water may occur.

BATHTUB MODELING

Bathtub modeling was used to generate inundation extents for the following scenarios:

- 2040 IL SLR
- 2040 IH SLR
- 2070 IL SLR
- 2070 IH SLR
- Current Storm Surge
- Compound Storm Surge + SLR
- Current Tidal Flooding
- Compound Tidal + SLR

Bathtub modelling works by submerging depressional land areas which lie below the elevation of future projected water elevation. This model assumes that all low-lying areas are hydrologically connected and will, therefore, fill with water. This analysis did not consider stormwater infrastructure (i.e. pipes) or infiltration and because of this, results as presented may be overstated.

ADI MODELING

ADI modeling was used on the following scenarios:

- Compound 100-Year Rainfall + SLR

ADI models work by defining a water elevation along a given water feature and route the water over the terrain based on water level response to topography and shallow water elevations until steady state is achieved. Hybrid models used the ADI modeling technique to set the static water elevation and a rapid inundation modeling technique to route water over the terrain for the duration of the specified storm event.

Flood Scenarios

RAINFALL-INDUCED FLOODING

The following design storm scenarios were obtained from NOAA Atlas 14 rainfall projections:

- 100-Year/24-Hour
- 500-Year/24-Hour

TABLE 3 summarizes rainfall design storm scenarios used in this vulnerability assessment. It should be noted that these values are reported as a depth compared to other scenarios in this analysis, which are reported as an elevation. Per USDA standards, rainfall distribution curves used for modeling design storms were based on the SCS Type III rainfall distribution. **FIGURE 3** shows the location of the City of Sebastian relative to the boundaries of recommended SCS rainfall distributions.

TABLE 3: NOAA ATLAS 14 RAINFALL SCENARIOS

Rainfall Event	Total Rainfall (in)
100Y/24H	12.5
500Y/24H	16.8

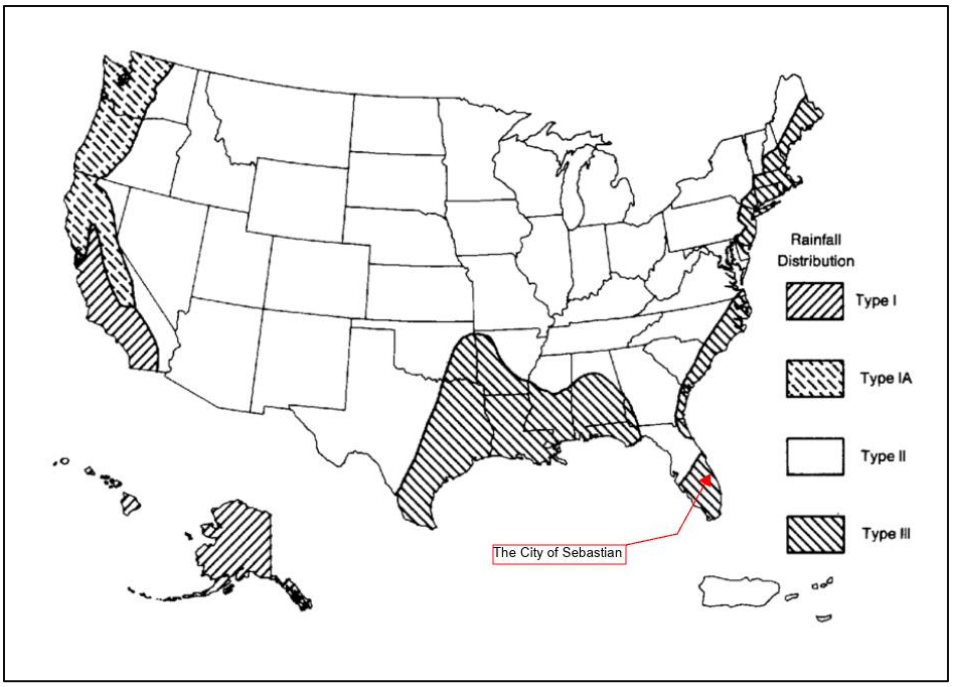


FIGURE 3: SCS RAINFALL DISTRIBUTIONS

SEA LEVEL RISE (SLR)

Data was collected from the USACE Sea Level Change Curve Calculator (2017 NOAA Projections) for the Trident Pier and Daytona Beach SLR gauges for the following scenarios:

- IL 2040
- IH 2040
- IL 2070
- IH 2070

Data at both gauges were reviewed and the Daytona Beach gauge was found to have a lower MSL than Trident Pier. Following statute guidelines, the Trident Pier gauge was used as the sole source of SLR data for this assessment. **FIGURE 4** shows the NOAA 2017 SLR projections change over time for varying horizons at the Trident Pier gauge. These values are reported relative to MSL.

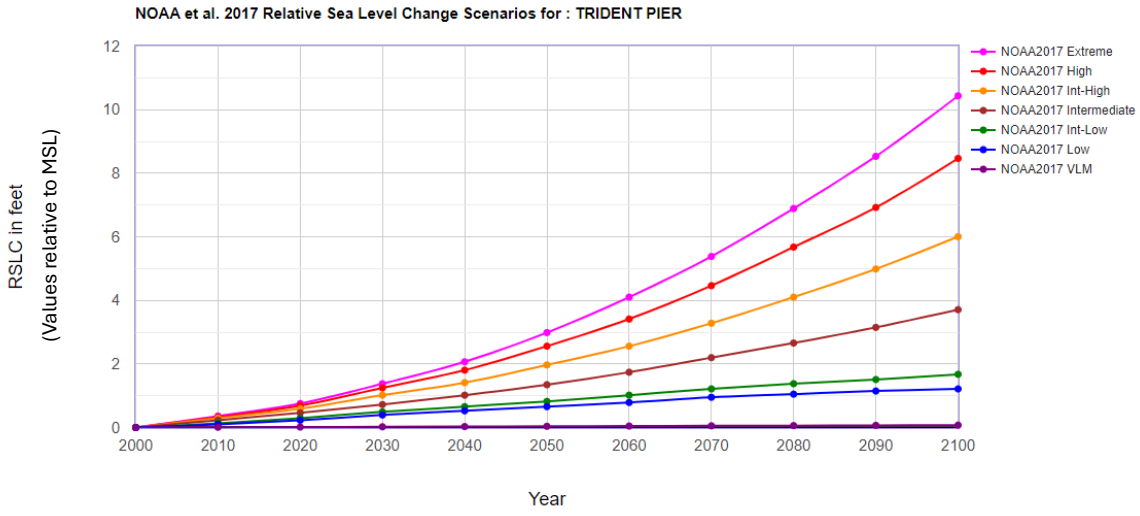


FIGURE 4: NOAA SLR PROJECTIONS FOR THE TRIDENT PIER GAUGE

SLR projections reported in MSL were converted to NAVD88 using a conversion factor of -0.53-ft NAVD88 from the NOAA Tides and Currents application.

TABLE 4 shows the projected SLR elevations in NAVD88.

TABLE 4: 2017 NOAA SLR PROJECTIONS

SLR Scenario	Projected Elevation (NAVD88, ft)
2040 IL	0.13
2040 IH	0.88
2070 IL	0.68
2070 IH	2.75

TIDAL FLOODING

Tidal gauge data was obtained from the NOAA Tides and Currents database for the following stations:

- Trident Pier – Station ID 8721604
- Lake Worth Pier – Station ID 8722670

Hide-tide flooding days were obtained from the U.S. Climate Resilience Toolkit Climate Explorer (Version 3.1) for the following station:

- Trident Pier – Station ID 8721604

The City of Sebastian lies between two tidal gauges: Trident Pier and Lake Worth Pier, which are located approximately 40-mi north and 100-mi southeast of the City of Sebastian, respectively. Water level data was collected from the NOAA Tides and Currents database for a period of 5 years (2018-2023). Reported water elevations were interpolated to obtain a representative current MSL elevation and MHHW elevation.

High tide elevations used in this assessment are shown in **FIGURE 5**. The tidal flooding threshold (reported by NOAA) indicates the water elevation above MHHW at which flooding is expected to occur. The future tidal flooding magnitude (shown in orange) was applied over projected values of SLR to define future tidal flooding elevations. Future high tide projections for this vulnerability assessment are compound scenarios of high tide and SLR elevations and do not consider intensification of tidal fluctuation with climate change.

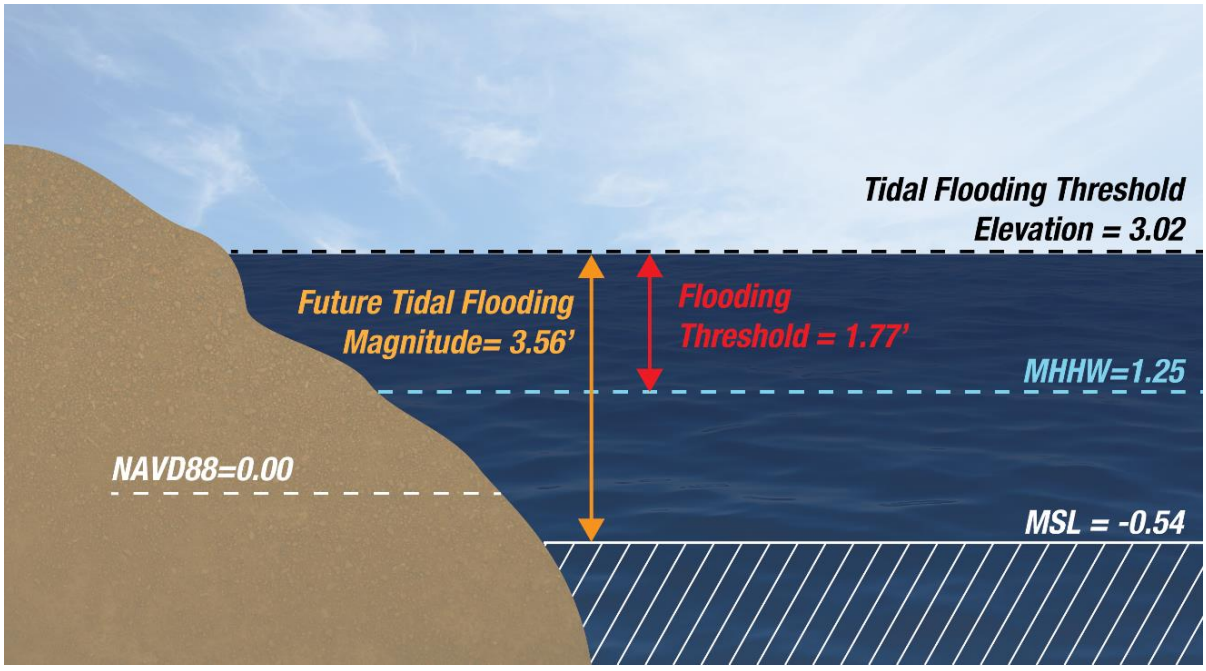


FIGURE 5: CURRENT TIDAL FLOODING CONDITIONS

The tidal data used in this study is provided in **TABLE 5**.

TABLE 5: TIDAL GAUGE DATA

Tidal Data	Trident Pier	Lake Worth Pier	Average
MSL (ft)	-0.53	-0.56	-0.54
MHHW (ft)	1.53	0.98	1.25
Flooding Threshold (ft)	1.77		

TABLE 6 displays the current tidal flooding elevation used for the City of Sebastian Vulnerability Assessment.

TABLE 6: HIGH TIDE SCENARIOS

Tidal Scenario	Projected Elevation (NAVD88, ft)
Current Tidal Flooding	3.02

TABLE 7 shows the projected number of high-tide flooding days per scenario obtained from the U.S. Climate Resilience Toolkit Climate Explorer.

TABLE 7: PROJECTED HIGH-TIDE FLOODING DAYS

Tidal Scenario	Projected Number of Flooding Days
Low Projection 2040	25
High Projection 2040	27
Low Projection 2070	104
High Projection 2070	177

STORM SURGE

The following storm surge data was obtained from the FEMA NFIP database:

- FEMA FIS (effective January 26, 2023)
    - Starting Stillwater elevations (ft, NAVD88), 1% Annual Chance

Starting stillwater elevations from each transect along the municipal boundary were interpolated to define the storm surge elevation used in this assessment.

The 100-year storm surge scenario elevation is shown in **TABLE 8.**

TABLE 8: FEMA STORM SURGE ELEVATIONS

Storm Surge Scenario	Projected Elevation (NAVD88, ft)
Current 100-Year Storm Surge	6.71

COMPOUND FLOODING SCENARIOS

The compound events evaluated in this study include SLR compounded with 100-year rainfall, 100-year storm surge, and tidal flooding scenarios. The projected elevation corresponding to each compound event are shown in **TABLE 9**. These scenarios do not consider storm intensification with climate change.

TABLE 9: PROJECTED COMPOUND SCENARIOS ELEVATIONS

Compound Scenario	Projected Elevation (NAVD88, ft)
100-Year/24-Hour Rainfall + 2040 IL SLR	0.13
100-Year/24-Hour Rainfall + 2040 IH SLR	0.88
100-Year/24-Hour Rainfall + 2070 IL SLR	0.68
100-Year/24-Hour Rainfall + 2070 IH SLR	2.75
100-Year Storm Surge & 2040 IL	6.84
100-Year Storm Surge & 2040 IH	7.59
100-Year Storm Surge & 2070 IL	7.39
100-Year Storm Surge & 2070 IH	9.46
Tidal Flooding & 2040 IL	3.70
Tidal Flooding & 2040 IH	4.45
Tidal Flooding & 2070 IL	4.25
Tidal Flooding & 2070 IH	6.32

Exposure Analysis Results

Inundation maps for all modeled events are provided in **APPENDIX E**.

Flood inundation extents were compared to the location of critical assets within the City. The criteria and results of the exposure analysis are provided in **APPENDIX F.** These Tables present the depth of flooding determined at each asset through rapid inundation and/or bathtub modeling.

Task 3 – Sensitivity Analysis

A sensitivity analysis was performed to assess the risk posed to each critical asset and rank its vulnerability due to flooding from all scenarios modeled in the exposure analysis. The following sections outline the methodology used to perform the sensitivity analysis for the City of Sebastian.

Methodology

DEFINING CRITICAL ELEVATION

Critical assets evaluated in vulnerability assessments funded by the Resilient Coastlines Grant Program are prescribed within s. 380.093, F.S. and are subdivided into four (4) categories including:

- Transportation Assets and Evacuation Routes
- Critical Infrastructure
- Critical Community and Emergency Facilities
- Natural, Cultural, and Historic Resources

For the purpose of this study, the critical elevation of an asset was defined as the elevation at which floodwater would disrupt service of the structure. The structures analyzed in this project are unique in level of service, resulting in varied definitions of critical elevation for each asset class.

Three different methods were used to define critical elevation in this study including:

1. Zonal Statistics – Method in which the footprint of an asset was defined and the minimum elevation from the DEM within the footprint was extracted. For any finished structure, the slab-on-grade elevation was assumed to be minimum DEM elevation plus 1-ft.
2. Percent Inundation by Area – Method in which the total area and the total flooded area of an asset were compared to determine the amount of flooding impacting the asset. Results were reported as a percentage by area.

- Cut Profile – Method in which a line feature was used to cut a profile from the DEM and determine lowest elevation along the feature. This method was used for the riprap shorelines along the Indian River Lagoon.

TABLE 10 indicates the method used to identify the critical elevation of each asset.

TABLE 10: SENSITIVITY ANALYSIS METHODOLOGY USED BY ASSET TYPE

Asset Type	Critical Elevation Method
Airports	Percent Inundation
Bridges	Zonal Statistics
Major Roadways	Zonal Statistics
Marinas	Zonal Statistics
Pump Stations	Zonal Statistics
Stormwater Treatment Facilities	Zonal Statistics
Community Centers	Zonal Statistics
Law Enforcement Facilities	Zonal Statistics
Local Government Facilities	Zonal Statistics
Parks	Percent Inundation
Seawalls	Zonal Statistics
Concha Dam	Zonal Statistics
Riprap Shorelines	Cut Profile
Hardee Oak Tree & Sebastian Cemetery (Historic Sites)	Percent Inundation
Historic Sites	Zonal Statistics

Assigning Risk Sensitivity

The final phase of the analysis was to assign a risk level, or criticality, to each asset in the paired asset-threat matrices. Critical elevations for each asset were evaluated against flood depths to identify asset vulnerability in each storm event. The degree of flooding was defined by the inundation depth relative to the critical elevation of the structure.

Critical assets were grouped into paired asset-threat matrices for each scenario and a degree of criticality was assigned. Within this analysis, risk considerations were made for the direct impacts of flooding to the asset and the more general operational impacts on the community. For the general purposes of this vulnerability assessment, criticality was defined as follows:

- Low – flooding occurs but would cause minimum impact; asset is able to function during or after the event.
- Medium – flooding would cause moderate impact; asset may have limited or impaired function during or after flooding event; repairs may be needed.
- High – flooding would cause complete asset loss; complete shutdown of operation is likely to occur with high cost associated with repair or replacement; potential impact to health and safety.

Further specification on sensitivity analysis criteria for each asset type can be found as a legend for each paired asset-threat matrix. Paired asset-threat matrices for all critical assets reviewed in the sensitivity analysis can be found in **APPENDIX G**. Maps showing the results of the sensitivity analysis can be found in **APPENDIX I**. The maps have been split into northern and southern portions of the City boundary and show the sensitivity of critical assets within all modeled flooding scenarios.

Results and Discussion

Through the exposure analysis, the regions experiencing highest flood depth are those areas bordering the Indian River Lagoon and the St. Sebastian River. Minor street flooding is observed in residential areas throughout the City. Flooding of greater extent is also observed along the stormwater canal system, which conveys water to Schumann Lake Park, Stormwater Park, the Sebastian Municipal Golf Course/Airport Park, and pastureland in the southernmost portion of the boundary.

The sensitivity analysis was used to assess the impact of the flood depths modeled in the exposure analysis on the overall vulnerability and function of each asset under various events. The results of the sensitivity analysis indicate that the City is highly vulnerable under the 100-year and 500-year rainfall events, as well as the compound 100-year rainfall + SLR events. Assets located along the lagoon were highly vulnerable to storm surge in addition to the rainfall events modeled in this study. The following sections discuss the critical assets within each asset class described in the statute as being highly vulnerable under the sensitivity analysis.

TRANSPORTATION ASSETS AND EVACUATION ROUTES

Significant flooding of transportation assets located adjacent to the lagoon was identified in this analysis. Through the sensitivity analysis, the following transportation assets were highly vulnerable to flooding:

- All Marinas (docks)
- Main Street and Gibson Street
- Sebastian Boulevard and Ashbury Boulevard
- Indian River Drive and Washington Street
- Indian River Drive and Martin Avenue
- Indian River Drive and Cleveland Street
- Indian River Drive and Coolidge Street
- Sebastian Boulevard and Indian River Drive
- Indian River Drive and Harrison Street

The critical elevation of marinas was defined as the elevation of the dock landing. Marinas were classified as High vulnerability if floodwaters exceeded the critical elevation + 1-ft. At this point, the surrounding environment is at risk due to moored boats floating above the elevation of the dock. All marinas assessed in this study were defined as High vulnerability in all scenarios modeled due to their location on the lagoon.

Risk level of major roadway intersections was determined by comparing water elevation to the shoulder and centerline elevations of the asset footprints. The City's 2023 SWMP was used as a basis for determining LOS requirements for roadways. A Low risk level was assigned to any major roadway asset where the water level breached the shoulder elevation. High vulnerability was defined for roadways in which floodwaters exceeded the crown elevation + 2-in. The major roadway intersections located along or in close proximity to the Indian River Lagoon were defined as having High vulnerability, particularly under the rainfall and storm surge events.

The Sebastian-Roseland Municipal Airport was inundated between 25%-75% of the total asset area under the rainfall and compound rainfall + SLR scenarios. The airport was defined as having a Medium level of vulnerability through the sensitivity analysis. The Schumann Lake bridge, Periwinkle Drive bridge, and Schumann Drive bridge, which service traffic across the stormwater canal system, experienced a low level of inundation surpassing the shoulder of the bridge landing for the rainfall and compound rainfall + SLR events. As such, the functionality of these assets is not significantly burdened by rainfall-induced flooding.

CRITICAL INFRASTRUCTURE

For all modeled scenarios, the Stormwater Park Pump Station was not found to be vulnerable to any flooding scenario. The pump station exists at a relatively high elevation between the ridgelines of the canal system to the west and the stormwater park ponds to the east.

The following stormwater treatment facilities (baffle boxes) at the following locations were classified as having High vulnerability:

- Coolidge Street
- Washington Street
- Cleveland Street
- Davis Street
- Fisherman's Landing
- Indian River Dr (1), (2), and (3)
- Riverview Park

All baffle boxes listed above were assigned a High risk level for the compound 100-year storm surge and 2070 IH SLR scenario. The baffle boxes located on Coolidge Street, Davis Street, Fisherman's Landing, Indian River Drive (1), and Riverview Park were highly vulnerable under all modeled storm surge and compound storm surge + SLR scenarios due to their proximity to the lagoon. For a baffle box asset to be ranked High, the water level must have surpassed the rim elevation plus an additional 2-ft. This likely signifies system backup causing upstream flooding within the conveyance system. Additionally, the maintenance of these structures should consider the implications of saltwater infiltration into the system following storm surge events.

CRITICAL COMMUNITY AND EMERGENCY FACILITIES

Results of the sensitivity analysis show that the Sebastian Yacht Club was assigned a High risk level for the compound tidal and 2070 IH SLR event and all modeled storm surge scenarios, indicating that floodwaters exceeded the FFE of the building. The Sebastian Community Center received a low ranking in all rainfall and compound rainfall + SLR events, consistent with the water level being within 6-in to 12-in from the critical elevation (FFE). The Sebastian City Hall and Police Department were not vulnerable in terms of the sensitivity analysis; the results of the exposure analysis also demonstrate that no flood depths were present as result of modeling all scenarios at these assets.

NATURAL, CULTURAL, AND HISTORICAL ASSETS

The following parks were assigned a risk level of High under the sensitivity analysis:

- Sebastian Bark Park
- Cheltenham Lake Park
- Schumann Lake Park
- Riverview Park
- Main Street Boat Ramp
- Working Waterfront

The Sebastian Bark Park, Cheltenham Lake Park, and Schumann Lake Park were assigned a risk level of High for the Rainfall and Compound scenarios (i.e., more than 75% of the total park area is inundated). Riverview Park, which abuts the Indian River Lagoon, is inundated over 75% for the 100-year storm surge and compound storm surge + SLR events.

The majority of parks were assigned a Medium risk level for the rainfall and compound rainfall scenarios, with the Main Street Boat Ramp experiencing a Medium risk level for all modeling scenarios except the 2070 IH storm surge event, in which the asset was ranked High risk. The Working Waterfront was also classified as High vulnerability under the compound storm surge + 2070 IH SLR event. The Main Street Boat Ramp lies at the end of the intersection of Main Street and Indian River Drive, which are classified as major roadways within this study. The flooding vulnerability of the Main Street Boat Ramp poses a risk to roadway accessibility and ease of emergency evacuation.

The Hardee Oak Tree and Sebastian City Cemetery (Historic Sites) were evaluated using the same methodology as Parks. The Hardee Oak Tree plot, which lies at the intersection of Main St and the Main Street Boat Ramp on the Lagoon, was classified at Medium risk for the rainfall and compound rainfall + SLR events, as well as for the compound storm surge + 2070 IH SLR event. The Sebastian City Cemetery was placed at Low risk for the rainfall and compound rainfall + SLR scenarios, as it is bounded by the ridgelines of US Highway 1 (to the West) and Old Dixie Highway and Indian River Drive (to the East).

The historic assets ranked High were those lying in close proximity to the Indian River Lagoon - namely, the McCain Garage, Sembler and Sembler Inc., May's Marina (Floodtide), and Archie Smith Wholesale Fish Co. These assets were subject to high flood depths specifically for the rainfall, compound rainfall + SLR, tidal, and storm surge events. Sembler and Sembler Inc. was ranked High for all modeled scenarios, including SLR. The P. Stevenson House was ranked High for the

compound rainfall + 2070 IH SLR event, the compound tidal + 2070 IH SLR event, and all storm surge events. This asset is located just West of Indian River Dr, near the Sebastian Yacht Club and Indian River Lagoon.

The Shorelines asset type constitutes eighteen (18) concrete or vinyl seawalls along the canal system and Indian River Drive, three (3) Riprap Shorelines along the Indian River Lagoon, and the Concha/Elkcam Dam on the southwestern portion of the stormwater canal system. Of the seawall assets, the vinyl seawall at the Sebastian Yacht Club was ranked High for all modeled scenarios, likely because it directly abuts the Lagoon. The remaining concrete seawalls along the canal system were ranked High for the rainfall and compound rainfall + SLR events, as the water level overtopped the seawall.

The minimum (critical) elevations of riprap shorelines are highlighted in the shoreline elevation profile figures provided in **APPENDIX H,** where the length along the shoreline is also plotted. A Figure showing locations of riprap shorelines and major roadways is also provided in **APPENDIX H**. The nearest roadway intersection shoulder elevation was used to qualify High shoreline vulnerability. Asset functionality is lost when water levels surpass the width of the shoreline and breach the shoulder of Indian River Drive.

The Fisherman's Landing Shoreline was highly vulnerable under all compound storm surge + SLR scenarios, the compound rainfall + 2070 IH SLR event, and all compound tidal + SLR events except the 2040 IL projection. The Main Street Boat Ramp Shoreline, nearest to the intersection of Main Street and Indian River Drive, was ranked High for the 100-year storm surge, compound storm surge + SLR, and the compound tidal + 2070 IH SLR event. The Riverview Park Shoreline was ranked High for all scenarios, as the water levels overtopped the roadway shoulder. The regions surrounding Riverview Park are most vulnerable to water overtopping the riprap shorelines as the surrounding roadways exist at a much lower elevation compared to the ridge of the shoreline.

Finally, the Concha/Elkcam Dam was ranked Low for the rainfall and compound rainfall + SLR events, indicating that water levels surpassed the dry season control elevation (15.0 NGVD). As expected, the Dam is mainly influenced by rainfall-induced events as opposed to tidal or SLR driven events, considering its inland location and confluence with the St. Sebastian River. Note that this study only evaluates the dam's vulnerability in terms of capability to control water elevations and retain flow. A structural assessment of the dam was not conducted in this study; however, the City may consider conducting a condition assessment of the dam in the future. With the City's recent boundary expansion (and planned development) south of the dam and past County Road 510, additional emphasis has been placed on the dam's capability of retaining and controlling flow. The dam's vulnerability to rainfall and storm surge scenarios poses a significant risk of flooding for residents along the Elkcam canal. The 2023 SWMP listed Concha Dam Repairs as a Capital Improvement Project; if accepted, the project would provide much needed bulkhead improvements and channel regrading to control water levels.

Task 4 – Identify Focus Areas

Focus Areas Meeting

A meeting was held with the City of Sebastian on June 19, 2024, to discuss the findings of the exposure and sensitivity analyses and identify potential focus areas. Following the meeting, the City reviewed the focus areas and provided no further comments.

Focus Area meeting notes can be found in **APPENDIX J**.

Identified Focus Areas

Following the meeting, focus areas were confirmed and geographically defined using ArcGIS. Focus areas were delineated using the City boundary and Indian River County parcels shapefiles as guidance. The asset footprints and flood depth rasters generated within the exposure analysis task were also utilized to justify placement of focus areas. The focus areas shapefile can be found in the CoS_CriticalAssets.gdb folder.

A map showing all identified City of Sebastian focus areas can be found in **APPENDIX K**. The names, acreage, and number of assets within each focus area are shown in **TABLE 11**.

TABLE 11: FOCUS AREA CHARACTERISTICS

#	Focus Area Name	Acreage	# of Assets
1	US-1 and Indian River Drive	754	70
2	Airport and Golf Course	1155	4
3	Elkcam Waterway	207	8
4	Stonecrop Park	606	2
5	Schumann Lake	492	29

Focus Area 1 – US-1 and Indian River Drive

The US-1 and Indian River Drive focus area falls along the Indian River Lagoon. This area was selected as a focus area because it was found to be most vulnerable to flooding through the exposure and sensitivity analyses. The extents of Focus Area 1 and all included assets are shown in **FIGURE 6**.

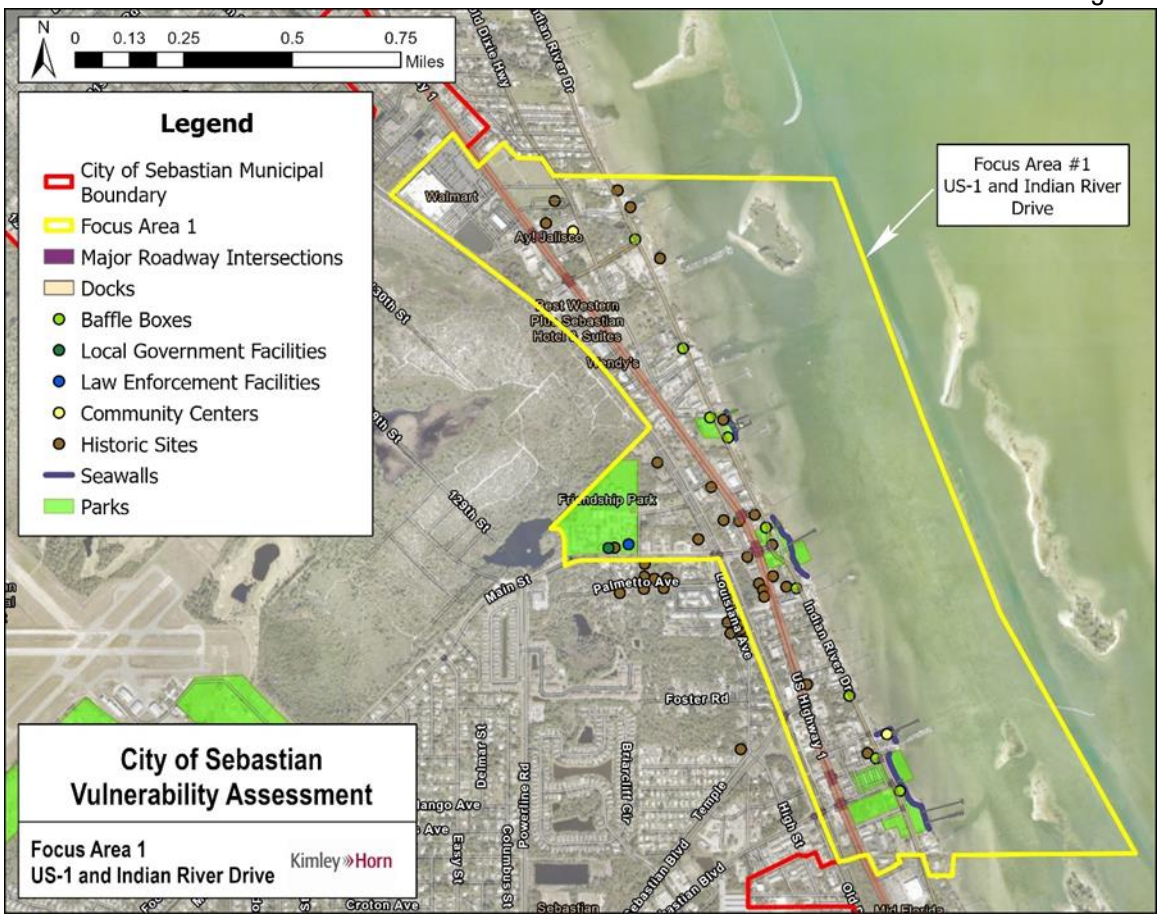


FIGURE 6: FOCUS AREA 1 LOCATION MAP

This region includes the largest number of assets (70) in comparison to other identified focus areas. The assets along the lagoon were sensitive to flooding in all of the modeled scenarios, particularly the compound storm surge + 2070 IH SLR scenario.

The assets within Focus Area 1 are also vulnerable under the tidal flooding scenarios due to their abutment with the Indian River Lagoon. The projected number of high-tide flooding days were collected under the exposure analysis, shown in **TABLE 7**. This number is expected to rapidly increase due to SLR, amplifying the risk of flooding for assets along the lagoon, particularly for the 2070 tidal flooding projection.

TABLE 12 lists all of the critical assets within the boundary of Focus Area 1.

TABLE 12: FOCUS AREA 1 CRITICAL ASSETS

Asset Name	Asset Type	Asset Class
Sebastian Community Center	Community Centers	Critical Community and Emergency Facilities
Sebastian Yacht Club	Community Centers	Critical Community and Emergency Facilities

Asset Name	Asset Type	Asset Class
Sebastian Police Department	Law Enforcement Facilities	Critical Community and Emergency Facilities
Sebastian City Hall	Local Government Facilities	Critical Community and Emergency Facilities
Coolidge Street Baffle Box	Stormwater Treatment Facilities	Critical Infrastructure
Washington Street Baffle Box	Stormwater Treatment Facilities	Critical Infrastructure
Cleveland Street Baffle Box	Stormwater Treatment Facilities	Critical Infrastructure
Davis Street Baffle Box	Stormwater Treatment Facilities	Critical Infrastructure
Fisherman's Landing Baffle Box	Stormwater Treatment Facilities	Critical Infrastructure
Indian River Drive Baffle Box (1)	Stormwater Treatment Facilities	Critical Infrastructure
Indian River Drive Baffle Box (2)	Stormwater Treatment Facilities	Critical Infrastructure
Indian River Drive Baffle Box (3)	Stormwater Treatment Facilities	Critical Infrastructure
Riverview Park Baffle Box	Stormwater Treatment Facilities	Critical Infrastructure
Hardee Oak Tree	Historic Sites	Natural, Cultural, and Historical Resources
Vickers Store	Historic Sites	Natural, Cultural, and Historical Resources
V. Braddock House	Historic Sites	Natural, Cultural, and Historical Resources
S. Vickers House	Historic Sites	Natural, Cultural, and Historical Resources
P. Lawson House	Historic Sites	Natural, Cultural, and Historical Resources
Old Town Hall	Historic Sites	Natural, Cultural, and Historical Resources
M. Braddock House	Historic Sites	Natural, Cultural, and Historical Resources
Woman's Club	Historic Sites	Natural, Cultural, and Historical Resources
P. Stevenson House	Historic Sites	Natural, Cultural, and Historical Resources
G. Braddock House	Historic Sites	Natural, Cultural, and Historical Resources
W. Baughman House	Historic Sites	Natural, Cultural, and Historical Resources

Asset Name	Asset Type	Asset Class
C. Hardee House	Historic Sites	Natural, Cultural, and Historical Resources
Harrison House	Historic Sites	Natural, Cultural, and Historical Resources
Carlile House	Historic Sites	Natural, Cultural, and Historical Resources
Mel Fisher's Treasure Museum	Historic Sites	Natural, Cultural, and Historical Resources
McCain Garage	Historic Sites	Natural, Cultural, and Historical Resources
Sembler and Sembler Inc.	Historic Sites	Natural, Cultural, and Historical Resources
May's Marina (Floodtide)	Historic Sites	Natural, Cultural, and Historical Resources
Archie Smith Wholesale Fish Co.	Historic Sites	Natural, Cultural, and Historical Resources
O. Bland House	Historic Sites	Natural, Cultural, and Historical Resources
Sebastian City Cemetary (Park Cemetary)	Historic Sites	Natural, Cultural, and Historical Resources
Friendship Park	Parks	Natural, Cultural, and Historical Resources
Riverview Park	Parks	Natural, Cultural, and Historical Resources
Main Street Boat Ramp	Parks	Natural, Cultural, and Historical Resources
Working Waterfront	Parks	Natural, Cultural, and Historical Resources
Fisherman's Landing Shoreline	Shorelines	Natural, Cultural, and Historical Resources
Main Street Boat Ramp Shoreline	Shorelines	Natural, Cultural, and Historical Resources
Yacht Club Seawall	Shorelines	Natural, Cultural, and Historical Resources
Riverview Park Shoreline	Shorelines	Natural, Cultural, and Historical Resources
Main Street Railroad Intersection	Major Roadways	Transportation Assets and Evacuation Routes
Main Street and Louisiana Avenue Intersection	Major Roadways	Transportation Assets and Evacuation Routes
Main Street and US Highway 1 Intersection	Major Roadways	Transportation Assets and Evacuation Routes
Main Street and Indian River Drive Intersection	Major Roadways	Transportation Assets and Evacuation Routes

Asset Name	Asset Type	Asset Class
Main Street and Gibson Street Intersection	Major Roadways	Transportation Assets and Evacuation Routes
Sebastian Boulevard and Railroad Intersection (1)	Major Roadways	Transportation Assets and Evacuation Routes
Sebastian Boulevard and US Hwy 1 Intersection (1)	Major Roadways	Transportation Assets and Evacuation Routes
Sebastian Boulevard and Railroad Intersection (2)	Major Roadways	Transportation Assets and Evacuation Routes
Sebastian Boulevard and US Hwy 1 Intersection (2)	Major Roadways	Transportation Assets and Evacuation Routes
US Hwy 1 and Coolidge Street Intersection	Major Roadways	Transportation Assets and Evacuation Routes
Indian River Drive and Washington Street Intersection	Major Roadways	Transportation Assets and Evacuation Routes
Indian River Drive and Martin Avenue Intersection	Major Roadways	Transportation Assets and Evacuation Routes
Indian River Drive and Cleveland Street Intersection	Major Roadways	Transportation Assets and Evacuation Routes
Indian River Drive and Coolidge Street Intersection	Major Roadways	Transportation Assets and Evacuation Routes
Sebastian Boulevard and Indian River Drive Intersection	Major Roadways	Transportation Assets and Evacuation Routes
Indian River Drive and Harrison Street Intersection	Major Roadways	Transportation Assets and Evacuation Routes
US Hwy 1 and Jefferson Street Intersection	Major Roadways	Transportation Assets and Evacuation Routes
US Hwy 1 and Davis Street Intersection	Major Roadways	Transportation Assets and Evacuation Routes
US Hwy 1 and Jackson Street Intersection	Major Roadways	Transportation Assets and Evacuation Routes
Working Waterfront North Dock	Marinas	Transportation Assets and Evacuation Routes
Working Waterfront Dock	Marinas	Transportation Assets and Evacuation Routes
Sebastian Rotary Club Boardwalk	Marinas	Transportation Assets and Evacuation Routes
Main Street and Indian River Drive Dock	Marinas	Transportation Assets and Evacuation Routes
Sebastian Yacht Club Dock	Marinas	Transportation Assets and Evacuation Routes
Sebastian Boulevard E and Indian River Drive Dock	Marinas	Transportation Assets and Evacuation Routes
Twin Piers North Dock	Marinas	Transportation Assets and Evacuation Routes

Asset Name	Asset Type	Asset Class
Twin Piers South Dock	Marinas	Transportation Assets and Evacuation Routes
Fisherman's Landing Shoreline and Indian River Drive	Major Roadways	Transportations Assets and Evacuation Routes

Focus Area 2 – Airport and Golf Course

The second focus area defined in this study includes the property of the Sebastian Municipal Airport as well as the City-owned golf course, located on the same parcel. This focus area was identified as the airport is a significant critical asset for the City and is particularly vulnerable to flooding during the rainfall (100-year and 500-year) and compound 100-year rainfall + SLR scenarios.

The extents of Focus Area 2 and all included assets are shown in **FIGURE 7**.

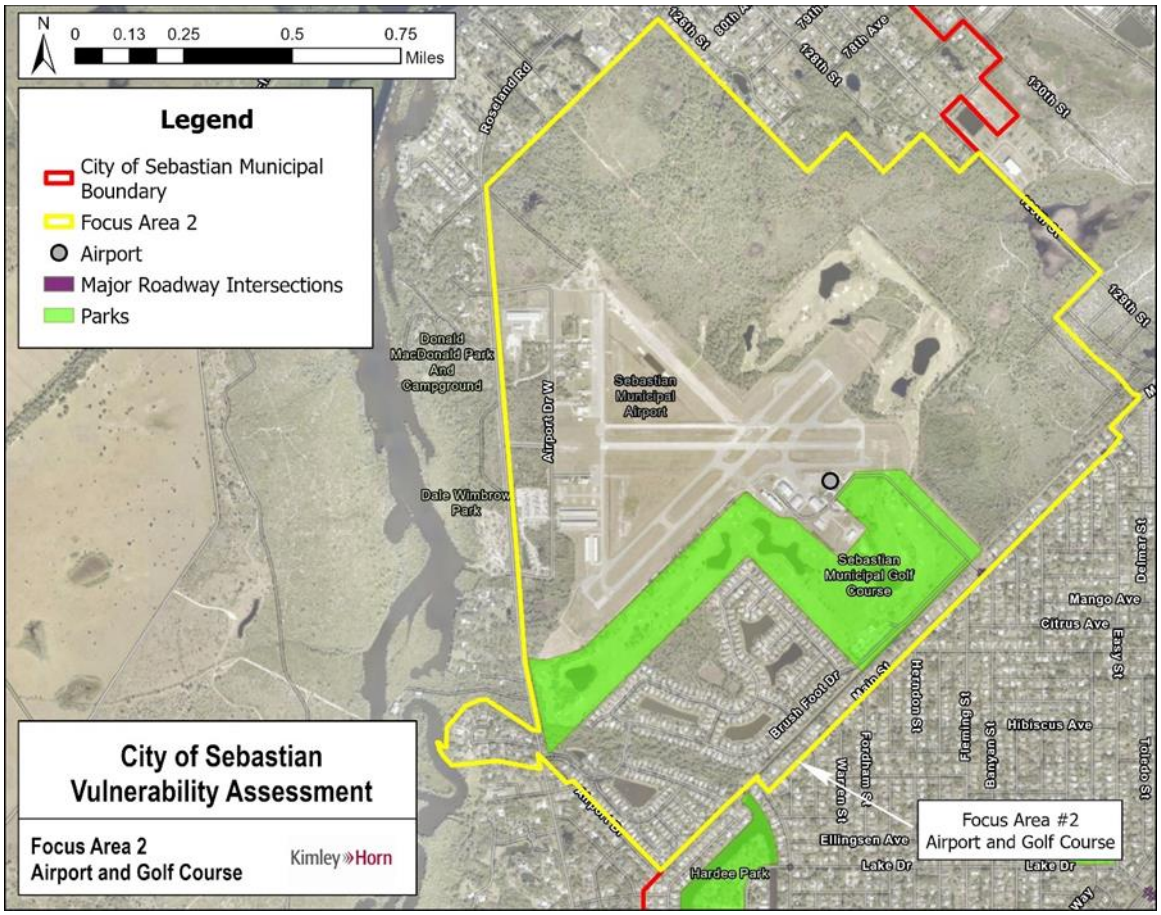


FIGURE 7: FOCUS AREA 2 LOCATION MAP

TABLE 13 lists all of the critical assets within the boundary of Focus Area 2.

TABLE 13: FOCUS AREA 2 CRITICAL ASSETS

Asset Name	Asset Type	Asset Class
Sebastian Municipal Golf Course	Parks	Natural, Cultural, and Historical Resources
Sebastian-Roseland Municipal Airport	Airports	Transportation Assets and Evacuation Routes
Main Street and Easy Street Intersection	Major Roadways	Transportation Assets and Evacuation Routes
Main Street and Airport Drive E Intersection	Major Roadways	Transportation Assets and Evacuation Routes

Focus Area 3 – Elkcam Waterway

Focus Area 3 encompasses the southernmost portion of the Elkcam waterway between the Elkcam and Joy Haven Waterway canals. This focus area was identified as the assets contained within were found to be vulnerable to the rainfall (100-year and 500-year) and all compound 100-year rainfall + SLR events.

The extents of Focus Area 3 and all included assets are shown in **FIGURE 8**.

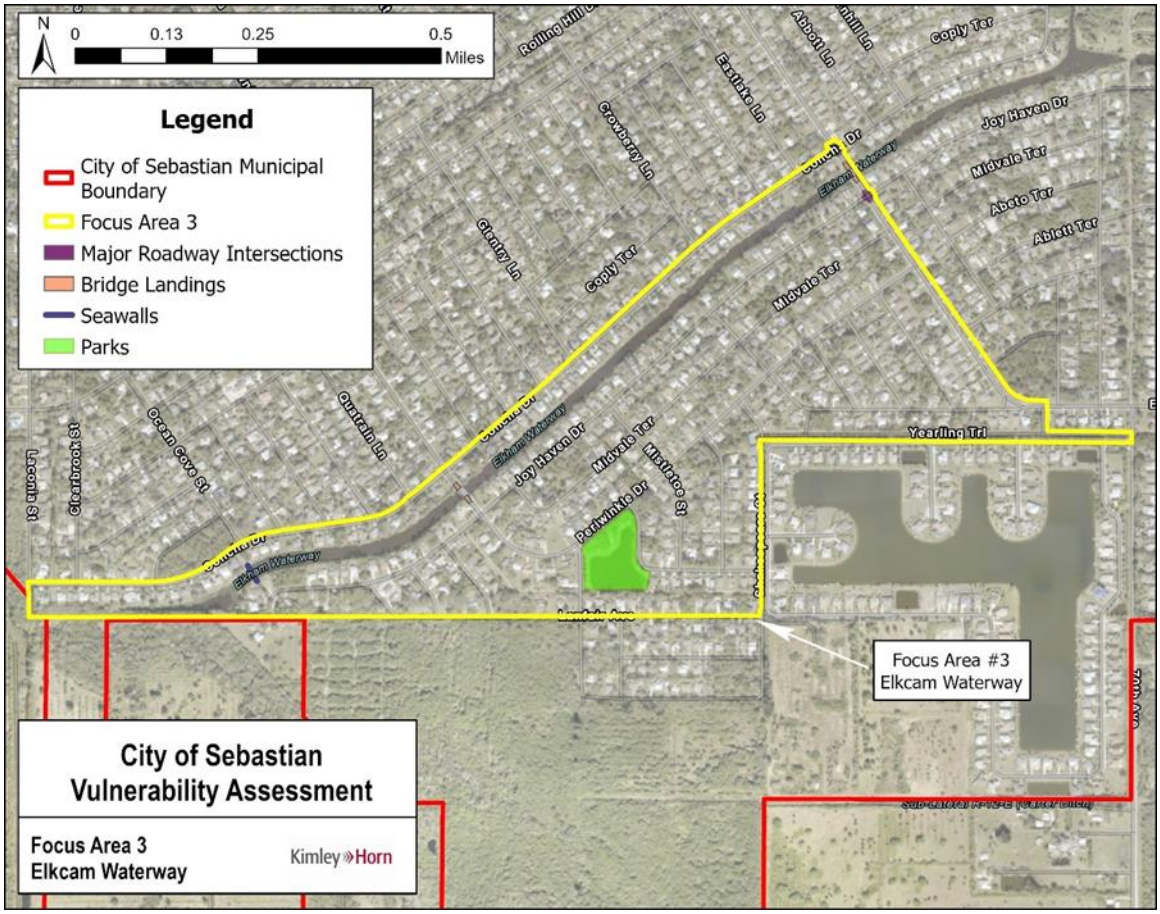


FIGURE 8: FOCUS AREA 3 LOCATION MAP

TABLE 14 lists all of the critical assets within the boundary of Focus Area 3.

TABLE 14: FOCUS AREA 3 CRITICAL ASSETS

Asset Name	Asset Type	Asset Class
Periwinkle Park	Parks	Natural, Cultural, and Historical Resources
Concha/Elkcam Dam	Shorelines	Natural, Cultural, and Historical Resources
Barber Street and Joy Haven Drive Intersection	Major Roadways	Transportation Assets and Evacuation Routes
Barber Street and Concha Drive Intersection	Major Roadways	Transportation Assets and Evacuation Routes
Barber Street Bridge Northwest	Bridges	Transportation Assets and Evacuation Routes
Barber Street Bridge Southeast	Bridges	Transportation Assets and Evacuation Routes
Periwinkle Drive Bridge Northwest	Bridges	Transportation Assets and Evacuation Routes
Periwinkle Drive Bridge Southeast	Bridges	Transportation Assets and Evacuation Routes

Focus Area 3 includes the Concha Dam, which controls flow to the St. Sebastian River on the southernmost stretch of the Elkcam waterway. The current Indian River County LMS project prioritization list includes the Elkcam Canal Dredging and Seawalls project, which provides necessary dredging and aims to repair and/or replace seawalls along the canal to mitigate flooding in residential areas. The Concha Dam repair project is also listed in the City's 2023 SWMP as a current CIP. This project will replace the existing metal bulkhead and concrete weir system. The dam is also scheduled to undergo civil, structural, and underwater inspection. These projects will provide necessary canal and weir improvements to convey and control flow within the Elkcam canal.

Focus Area 4 – Stonecrop Park

Focus Area 4 encompasses the western most region of the municipal boundary along the St. Sebastian River. This region was selected as a focus area due to vulnerability of Stonecrop Park in all modeled scenarios; particularly the rainfall (100-year and 500-year), all compound 100-year rainfall + SLR, and all storm surge (100-year storm surge and compound 100-year storm surge + SLR) scenarios. Stonecrop Park is most inundated in the compound storm surge + 2070 IH SLR event, as determined through sensitivity analysis. The Barber Street Sports complex was also impacted under the rainfall (100-year and 500-year) and all compound 100-year rainfall + SLR scenarios.

The extents of Focus Area 4 and all included assets are shown in **FIGURE 9**.

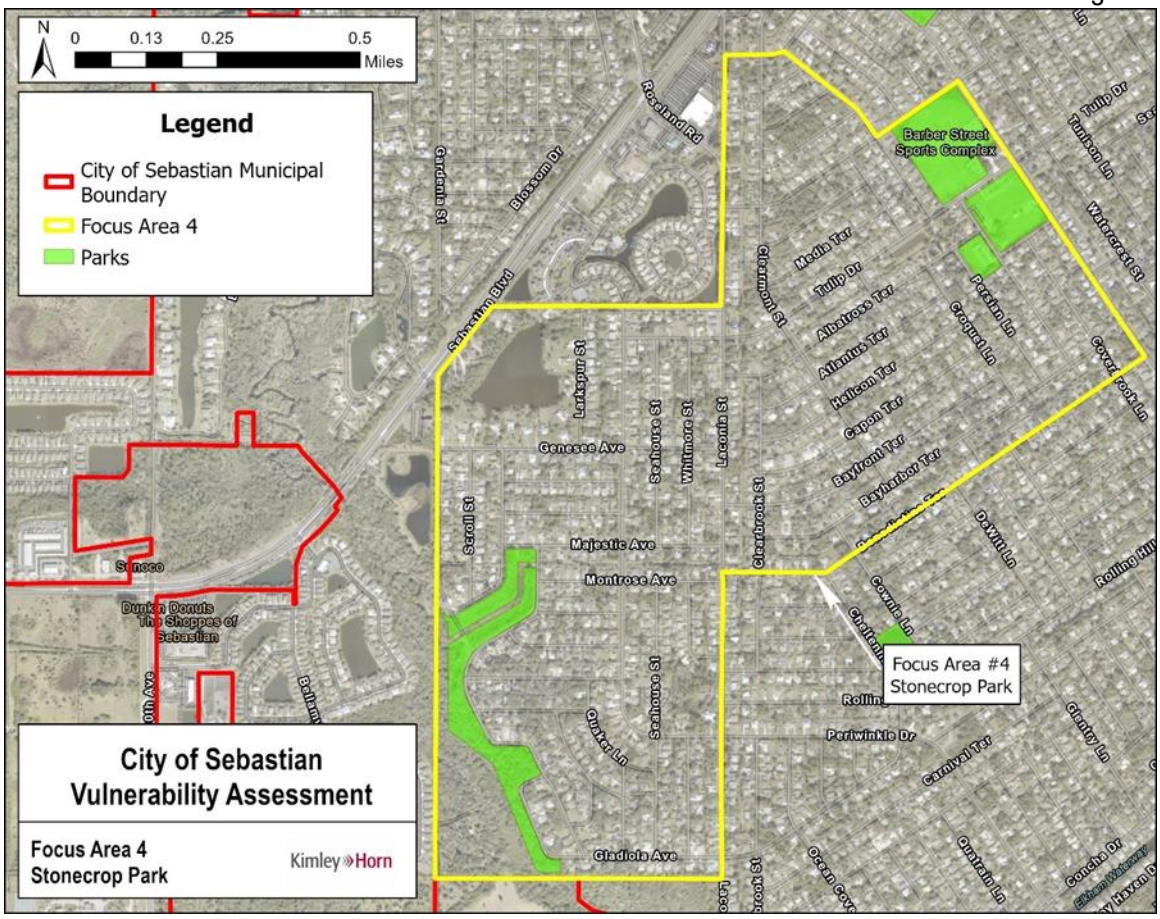


FIGURE 9: FOCUS AREA 4 LOCATION MAP

TABLE 15 lists all of the critical assets within the boundary of Focus Area 4.

TABLE 15: FOCUS AREA 4 CRITICAL ASSETS

Asset Name	Asset Type	Asset Class
Barber Street Sports Complex	Parks	Natural, Cultural, and Historical Resources
Stonecrop Park	Parks	Natural, Cultural, and Historical Resources

The current LMS project list includes two projects that would provide benefits to the Stonecrop Park area that would improve conditions along the ditch running through the park. The first project reduces flooding via the installation of culverts in the downstream portion of the ditch. The second project, to be completed after the downstream culvert improvements, involves replacing and upsizing culverts and armoring the banks of the ditch upstream. This region is vulnerable in the rainfall (100-year and 500-year) events and requires additional adaptation strategies, as is evident through the City's ongoing efforts to address flooding and flow conveyance within the Stonecrop ditch.

Focus Area 5 – Schumann Lake

Focus Area 5 is located within the central portion of the municipal boundary, incorporating Schumann Lake as well as the Schumann and Joy Haven Canals. This focus area contains the park assets associated with Schumann Lake and multiple City-owned concrete seawalls along the canal system. This focus area was selected as all seawalls, Schumann Park and Schumann Lake Park were vulnerable in the rainfall (100-year and 500-year) and all compound 100-year rainfall + SLR events. All seawalls and Schumann Lake Park were classified as highly vulnerable for all rainfall and all compound rainfall events. The seawalls are located along the Schumann and Joy Haven Waterways along City-owned parcels. Note that privately-owned seawalls were not assessed in this study.

The Schumann Lake bridge and Schumann Drive bridge had low sensitivity to flooding for all rainfall and all compound rainfall scenarios. This indicated that the water level at these assets was above the shoulder of the roadway connecting to the bridge footprint. The same criteria were applied to roadway intersections along Schumann Drive, in which water levels also surpassed the shoulder of the roadway under the rainfall and all compound rainfall events.

The extents of Focus Area 5 and all included assets are shown in **FIGURE 10**.

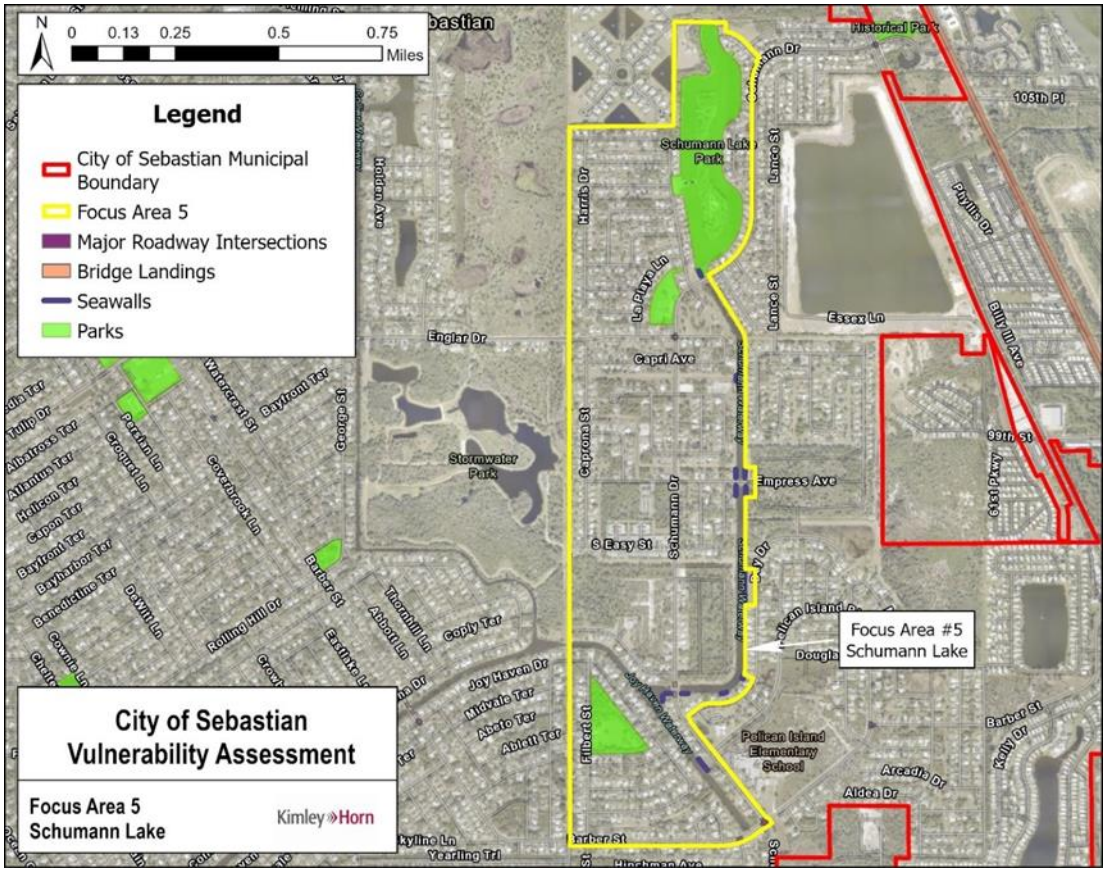


FIGURE 10: FOCUS AREA 5 LOCATION MAP

TABLE 16 lists all of the critical assets within Focus Area 5.

TABLE 16: FOCUS AREA 5 CRITICAL ASSETS

Asset Name	Asset Type	Asset Class
Filbert Street Park	Parks	Natural, Cultural, and Historical Resources
Schumann Lake Park	Parks	Natural, Cultural, and Historical Resources
Schumann Park	Parks	Natural, Cultural, and Historical Resources
1342 Schumann Drive	Shorelines	Natural, Cultural, and Historical Resources
1346 Schumann Drive	Shorelines	Natural, Cultural, and Historical Resources
Schumann Drive (1)	Shorelines	Natural, Cultural, and Historical Resources
Schumann Drive (2)	Shorelines	Natural, Cultural, and Historical Resources
Schumann Drive (3)	Shorelines	Natural, Cultural, and Historical Resources
Schumann Drive (4)	Shorelines	Natural, Cultural, and Historical Resources
143 Day Drive	Shorelines	Natural, Cultural, and Historical Resources
145 Day Drive	Shorelines	Natural, Cultural, and Historical Resources
147 Day Drive	Shorelines	Natural, Cultural, and Historical Resources
149 Day Drive	Shorelines	Natural, Cultural, and Historical Resources
151 Day Drive	Shorelines	Natural, Cultural, and Historical Resources
183 Day Drive	Shorelines	Natural, Cultural, and Historical Resources
Empress Avenue (1)	Shorelines	Natural, Cultural, and Historical Resources
Empress Avenue (2)	Shorelines	Natural, Cultural, and Historical Resources
Empress Avenue (3)	Shorelines	Natural, Cultural, and Historical Resources
Empress Avenue (4)	Shorelines	Natural, Cultural, and Historical Resources
Day Drive Easement	Shorelines	Natural, Cultural, and Historical Resources
Schumann Drive and Barber Street Intersection	Major Roadways	Transportation Assets and Evacuation Routes

Asset Name	Asset Type	Asset Class
Barber Street and Nebraska Circle Intersection	Major Roadways	Transportation Assets and Evacuation Routes
Schumann Drive and Englar Drive Intersection	Major Roadways	Transportation Assets and Evacuation Routes
Schumann Drive and Empress Avenue Intersection	Major Roadways	Transportation Assets and Evacuation Routes
Schumann Drive and Easy Street Intersection	Major Roadways	Transportation Assets and Evacuation Routes
Schumann Lake Bridge (W)	Bridges	Transportation Assets and Evacuation Routes
Schumann Lake Bridge (E)	Bridges	Transportation Assets and Evacuation Routes
Schumann Drive Bridge North	Bridges	Transportation Assets and Evacuation Routes
Schumann Drive Bridge South	Bridges	Transportation Assets and Evacuation Routes

Conclusion

A final exhibit of all five focus areas identified in the City of Sebastian Vulnerability Assessment project has been included in **APPENDIX K**. Additionally, a shapefile of the City's identified focus areas (FocusAreas.shp) has been included with this deliverable in the CoS_CriticalAssets.gdb folder.

Task 5 - Final Vulnerability Report, Maps, and Tables

This report contains summaries of all tasks completed for this Vulnerability Assessment. Maps and tables for the assessment are contained herein.

The final submittal for this task includes all GIS files and associated metadata compliant with the Resilient Florida Program's GIS Data Standards (**APPENDIX L**).

Task 6 – Public Presentation

A presentation of the final Vulnerability Assessment project was given to Sebastian City Council on Wednesday, October 16, 2024. The presentation addressed the following topics:

- Reviewed purpose, approach, and results of the study
- Identified Focus Areas
- Discussed potential next steps including addition of an adaptation plan and possible funding strategies

The slides and agenda from this presentation can be found in **APPENDIX M**.

Task 7 – Local Mitigation Strategy

The LMSWG is a committee devised at the County level to identify risks associated with natural disasters and SLR for implementation into the next LMS plan update as required by the FDEM. LMS plan updates occur every 5-years, with the most recent update completed at the time of this study published in 2020. This report is to be included as reference material in the 2025 Indian River County LMS plan update. The LMS plan update ultimately serves as a means of acquiring hazard mitigation grant funding through FDEM for projects collectively identified by LMS representatives from each City in the County.

Kimley-Horn participated in two (2) meetings in coordination with the Indian River County LMSWG, occurring on April 11, 2024 and July 30, 2024, in which the following topics were discussed:

- The working County project prioritization list
- Overview of hazard mitigation funding
- Preparation for the 2025 LMS Plan Update
    - Climate-based studied conducted in the City since the 2020 update
    - Discussion of projects identified since the 2020 update
    - Probable funding sources
    - Integration and compatibility of County-wide data into the 2025 update

Official LMS meeting agendas are provided in **APPENDIX N**.

Kimley-Horn assisted in the review of City projects included in the working project prioritization list. The results of the exposure and sensitivity analyses were examined within areas with confirmed, funded LMS projects. Funded projects were concentrated in areas such as Stonecrop Park, Elkcam Canal, Schumann Drive, and Indian River Drive – all of which have been incorporated into the focus areas defined in this study.

APPENDIX A

DATA COLLECTION TECHNICAL MEMORANDUM

City of Sebastian – Vulnerability Assessment

Task 1: Data Collection, Review and Data Gap Analysis Technical Memorandum

Prepared for:

City of Sebastian
1225 Main Street
Sebastian, FL 32958

Prepared by:

Kimley-Horn and Associates, Inc.
200 Central Avenue, Suite 600
St. Petersburg, FL 33701

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St. Petersburg, Florida
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Kimley»Horn

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LIST OF ACRONYMS

DEM	Digital Elevation Model
GIS	Geographic Information System
FDEP	Florida Department of Environmental Protection
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
F.S.	Florida Statute
NOAA	National Oceanic and Atmospheric Administration
SJRWMD	Saint John's River Water Management District
SLR	Sea Level Rise
TNM	The National Map
USGS	United States Geological Survey

1. INTRODUCTION

The City of Sebastian (the City) received funding through the FDEP Resilient Florida Grant Program (DEP No. 23PLN17) to conduct a Citywide Vulnerability Assessment. The City contracted Kimley-Horn and Associates Inc. (Kimley-Horn) on August 22, 2023 through Purchase Order 00010426-00 to conduct work on the Vulnerability Assessment pursuant to F.S. 380.093. This Technical Memorandum serves as the first deliverable under Project Task 1 – Acquire Background Data.

This memorandum details the employed methods of data collection and review of datasets pertinent for analysis. The data collected will provide Kimley-Horn the information necessary to conduct the exposure and sensitivity analyses required for the Vulnerability Assessment workflow.

2. OBJECTIVE

The objective of the City of Sebastian Vulnerability Assessment is to identify flooding risks within the City and define a list of critical and regionally significant assets and vulnerable regions within the City based on the flooding scenarios impacting each asset.

3. BACKGROUND

The City of Sebastian is a coastal municipality located in the northeastern portion of Indian River County, just north of Vero Beach. The City is approximately 18.2 square miles in area and is located east of the intersection of I-95 and County Road 512, which runs through the City to US-1. A location map outlining the municipal boundary of the City is provided in **FIGURE 1**. For the purposes of the vulnerability assessment, only City-owned or maintained assets lying within the boundary shown will be considered when modelling flooding scenarios.

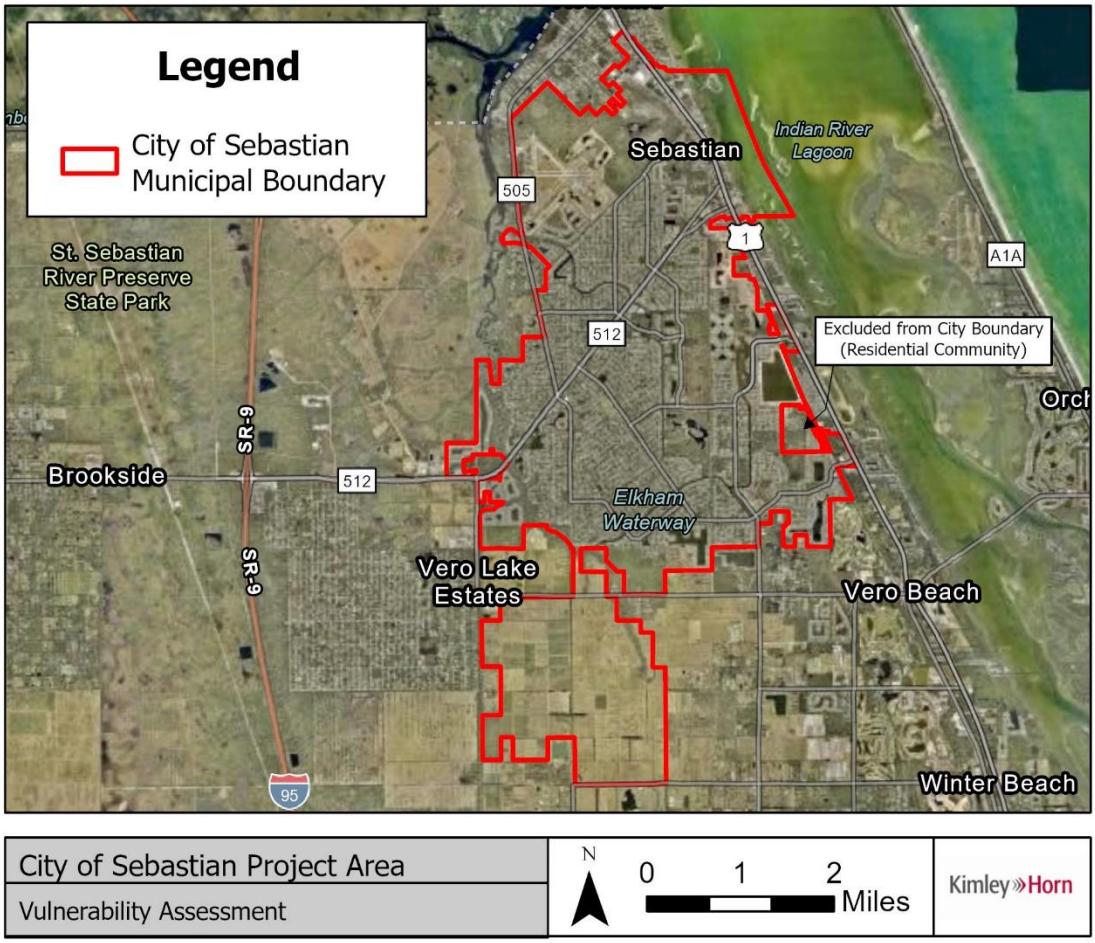


FIGURE 1: CITY OF SEBASTIAN VULNERABILITY ASSESSMENT PROJECT AREA

4. DATA COLLECTION

4.1. PROJECT KICKOFF

Kimley-Horn met with the City of Sebastian virtually on September 18, 2023. During this kick-off meeting, the project scope and schedule was reviewed as well as the data collected to date of the meeting. Requested datasets, data gaps, and other concerns were also identified through City and stakeholder engagement. Kickoff meeting notes have been provided in **APPENDIX A**.

4.2. DATA COLLECTION

To begin the vulnerability analysis, Kimley-Horn requested and reviewed available information such as existing City asset inventories, hydrologic data, topography, and other information provided including:

- 2019 DEM for Indian River County (2.5-ft)
- NOAA Atlas 14 Rainfall Depths (100-year/24-hour and 500-year/24-hour)
- NOAA 2017 SLR Projections for 2040 and 2070 Int-Low and Int-High
- Tidal Datums (NOAA Tides and Currents)
- FEMA FIRMs
- 100-year Storm Surge (FEMA FIS)
- Evacuation Routes and Transportation Assets (USGS TNM)
- City Inventory of Critical Infrastructure (Wastewater, Water, Stormwater)
- City Inventory of Community and Emergency Facilities
- Municipal Boundary
- City-Maintained Streets
- City Buildings
- City-Maintained Parks

Kimley-Horn developed a dataset register to summarize all data collected. The dataset register is included in **APPENDIX B**.

FIGURE 2 shows the City-owned critical assets reviewed and identified within this study.

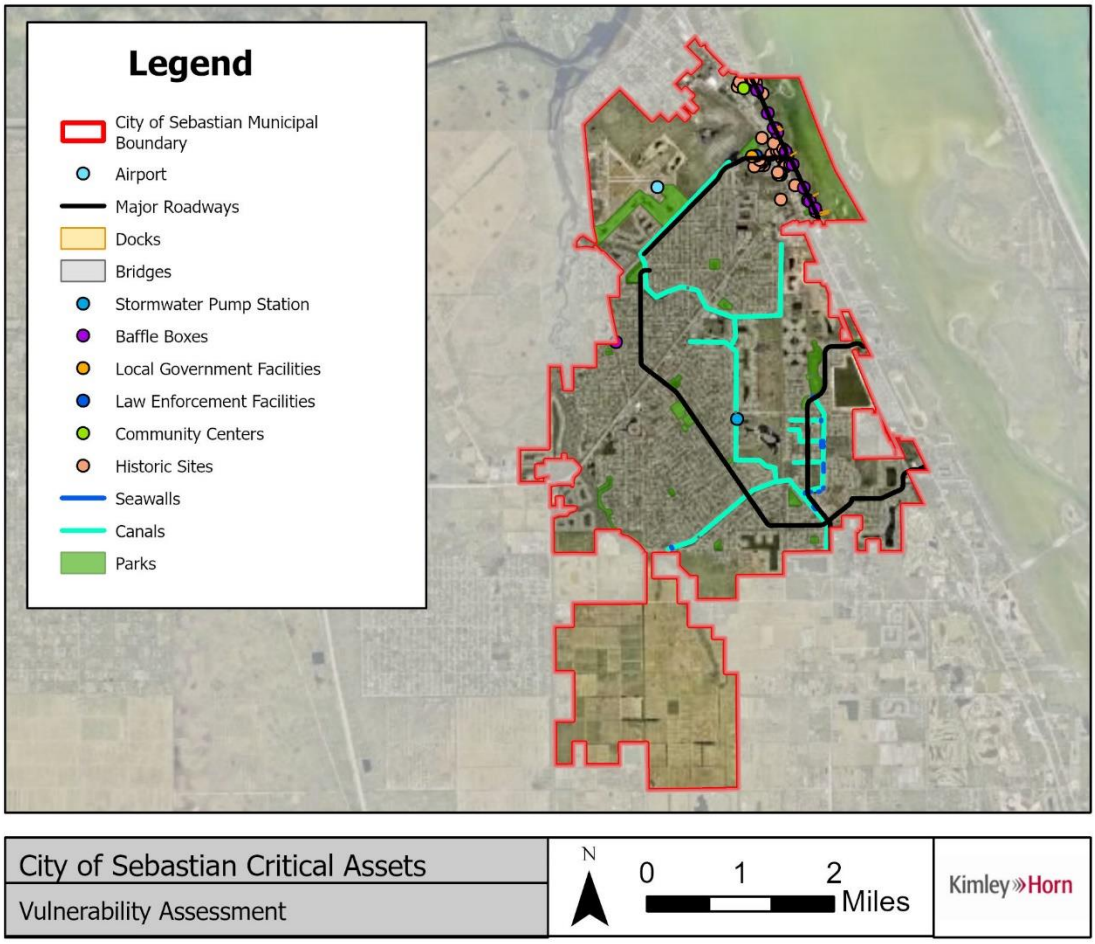


FIGURE 2: CITY-OWNED CRITICAL ASSETS

4.3. DATA GAP ANALYSIS

Kimley-Horn conducted a data gap analysis of the provided information to check for completeness and applicability of the data. Under s. 380.093 F.S., "critical assets" are defined based on four main categories: Transportation Assets and Evacuation Routes, Critical Infrastructure, Critical Community and Emergency Facilities, and Natural, Cultural and Historical Resources. Data obtained was reviewed to determine relevancy and completeness based on statute guidelines. Assets lying outside of the municipal boundary or not owned/maintained by the City were disregarded.

Data was not available for the critical elevations for all the assets reviewed in this study. A method of determining critical elevations through terrain analysis will be employed for future phases of this project.

Transportation Assets and Evacuation Routes

Under s. 380.093 F.S., airports, bridges, bus terminals, ports, major roadways, marinas, rail facilities, and railroad bridges are classified as "Transportation Assets and Evacuation Routes". Kimley-Horn obtained GIS files or maps showing asset locations for City-owned major roadways, docks (marinas), railroad crossings with major roads, evacuation routes, bridges, and airports. The following list defines the asset types that either do not exist within City limits or are not owned/maintained by the City:

- Bus Terminals
- Ports
- Rail Facilities
- Railroad Bridges

Critical Infrastructure

s. 380.093 F.S. defines the following items as "Critical Infrastructure": wastewater treatment facilities, lift stations, stormwater treatment facilities, pump stations, drinking water facilities, water conveyance systems, electric production and supply facilities, solid and hazardous waste facilities, military installations, communications facilities, and disaster debris management sites.

Kimley-Horn received data for the following critical infrastructure assets from the City:

- Stormwater
    - Pump Stations
    - July 2023 Stormwater Masterplan
    - Baffle Boxes

Adherent to the statute, baffle boxes are classified as Stormwater Treatment Facilities in the Critical Assets geodatabase.

Wastewater assets (Lift Stations) for the City were obtained. However, all are owned by the County and were omitted from this study. The following list defines the Critical Infrastructure assets that were not obtained and are not owned/maintained by the City:

- Wastewater Treatment Facilities

- Drinking Water Facilities
- Water Utility Conveyance Systems
- Electric Production and Supply Facilities
- Solid and Hazardous Waste Facilities
- Military Installations
- Communications Facilities
- Disaster Debris Management Sites

Critical Community and Emergency Facilities

The statute defines the following assets as "Critical Community and Emergency Facilities": schools, colleges, universities, community centers, correctional facilities, disaster recovery centers, emergency medical service facilities, emergency operation centers, fire stations, health care facilities, hospitals, law enforcement facilities, local government facilities, logistical staging areas, affordable public housing, risk shelters, and state government facilities.

Kimley-Horn obtained an inventory of the schools, community centers, fire stations, law enforcement facilities, local government facilities, and shelters within the City. However, fire stations, schools, and shelters will not be included in analysis, as these assets are owned by the County. The remaining asset types outlined in the statute were disregarded, as they either do not exist within City limit or are not owned/maintained by the City.

Natural, Cultural, and Historical Resources

Under the statute, "Natural, Cultural, and Historical Resources" refers to conservation lands, parks, shorelines, surface waters, wetlands, and historical and cultural assets owned/maintained by the City.

Shapefiles and/or locations of conservation lands, seawalls (shorelines), canals (surface waters), parks, and historical and cultural assets were obtained from the City. The canal system that discharges to the St. Sebastian River is part of the City's stormwater management system and is maintained by the City, as are 18 seawalls along the canal system. The City also maintains the stormwater pump station within Stormwater Park. A natural wetland system also exists within the Stormwater Park. However, the park itself is owned by the SJRWMD, therefore, wetlands were disregarded from this study.

A total of 37 historic sites were identified within the City boundary. The majority of sites are not owned by the City but are inventoried through the efforts of the City's historical society and thus will be included in analysis. Conservation lands lying within City bounds are owned and maintained by Indian River County and will not be included in analysis.

City of Sebastian Vulnerability Assessment

Kick-Off Meeting Agenda

September 18, 2023

1.0 Introductions

City of Sebastian Project Manager – Karen Miller, P.E.

Kimley-Horn Project Manager – Chris Niforatos, P.E.

2.0 Project Objectives

3.0 Project Scope – Shelby Rocha

4.0 Project Schedule – Shelby Rocha

5.0 Questions

6.0 Adjourn

City of Sebastian Vulnerability Assessment

Kick-Off Meeting Attendance

September 18, 2023

Team/Committee Members:	Attended
Karen Miller: KMiller@cityofsebastian.org	Highlighted
Ross Kelley: RKelley@cityofsebastian.org	
Brian Benton: BBenton@cityofsebastian.org	
Shelby Rocha: shelby.rocha@kimley-horn.com	
Chris Niforatos: chris.niforatos@kimley-horn.com	
Alycia Ciresi: alycia.ciresi@kimley-horn.com	

Meeting Summary/Key Points

- Meeting commenced at approximately 14:10
- Task 1 – Acquire background data
    - Data collected: 2018 DEM, Flood scenario data, select assets
        - Acquired and missing assets to be sent in comprehensive list according to statute requirements
    - Missing data – City-owned infrastructure, natural/cultural resources
        - City to compile historical information and provide either a map of resources or addresses to be put into GIS
    - City infrastructure
        - Natural wetland + weir system with pump station – City to provide as-builts
        - City maintains 8 baffle box systems
        - Stormwater – only crossings and catch basins (not needed for VA)
        - 2015 City assessment contains seawall information along stormwater canal system
        - Marina – docks along Indian River Lagoon. Only existing conditions will be modeled, but any dock expansion plans can be sent
    - Task 2 & 3 – Exposure and Sensitivity Analyses
        - Model inundation caused by rainfall, storm surge, tidal effects, and sea level rise; includes compound events
        - Obtain depth of flooding at assets
        - Overlay inundation extents over assets, determine areas vulnerable, assign risk levels based on criteria to assets
        - Use analyses to back up mapping of focus areas
    - Discussion/Questions
        - City recently completed a stormwater masterplan and have SWMM model
        - Floodplains generated in recent masterplan
        - "Up to" 12 LMSWG meetings – may occur less frequently. Expect to pick up more meetings as result of recent Hurricanes
            - Karen serves as LMSWG chair for the City
        - Further City involvement after draft VA is completed, prior to City Council meeting
        - Task 6 (Public meeting to City Council) – occurs after final VA and comments completed for exposure and sensitivity analyses.
        - City Council meets every 2nd and 4th Wednesday of the month – to plan out public meeting after completing draft (expect sometime in May 2024)

- Meeting adjourned at approximately 14:42

Action Items:

- Kimley-Horn
  - Send list of missing assets according to statute requirements
  - Data Acquisition Technical Memorandum, dataset register, and GIS package (wrap up Task 1)
- City of Sebastian
  - Inventory (or address) of assets
    - Any related as-builts shapefiles (includes treatment wetlands, outfall, and pump)
  - Recent Stormwater Masterplan
  - Marina plans
  - As-built information on baffle boxes

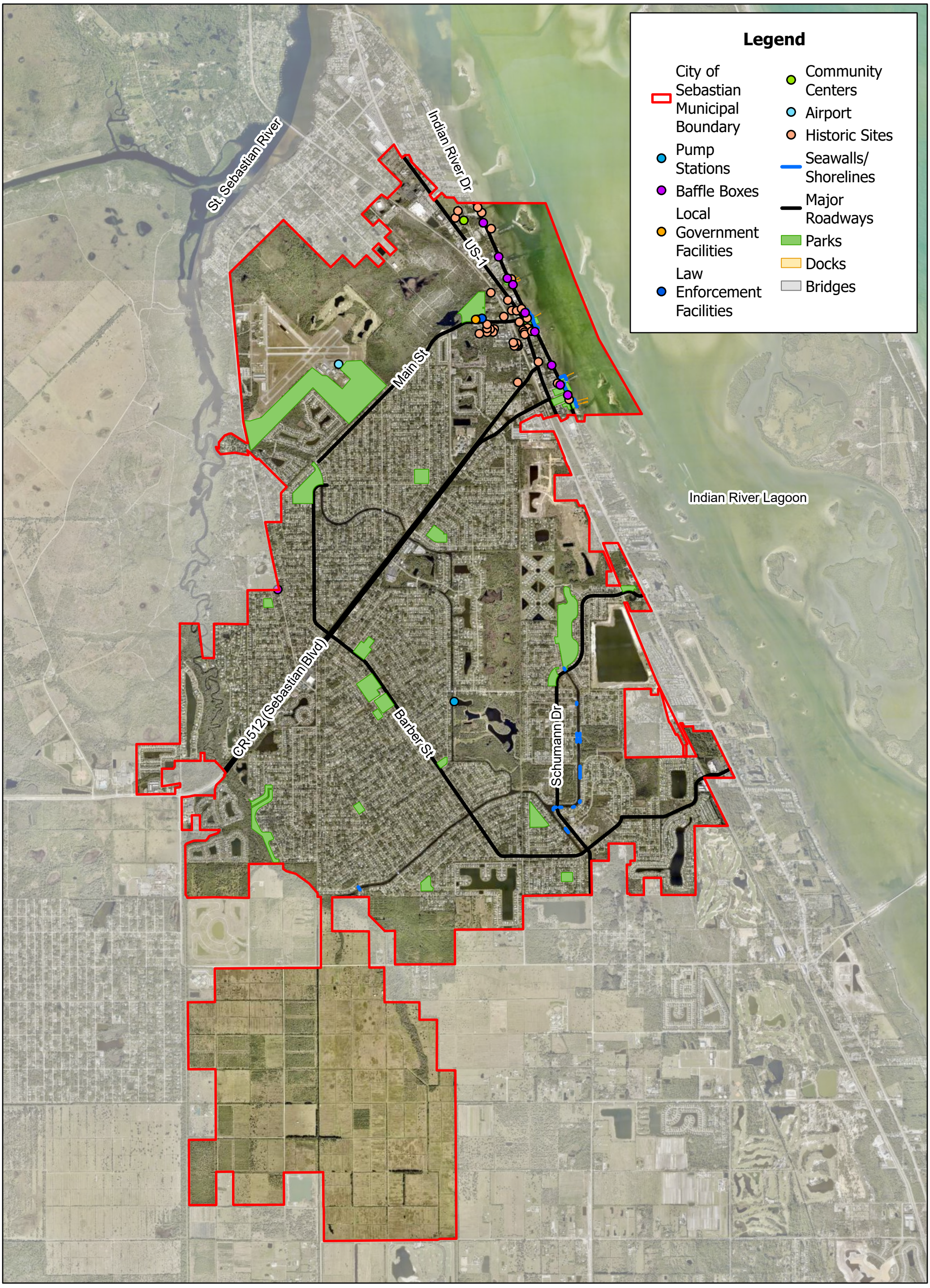
Ref No.	File Type	Description	From	Date Downloaded	File Name	File Location
1	TIF	DEM (2019 LIDAR) clipped to surrounding areas of City of Sebastian limits	Florida Geographic Information Office (USGS)	7/31/2023	SebastianDEM	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\1 - DEM
2	PNG	Snip showing the location at which rainfall depths were downloaded for the City	NOAA Atlas 14	9/1/2023	Location	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\2 - NOAA Rainfall
2	PNG	Snip showing the output table from NOAA for rainfall depth for the 100-year/24hr and 500-year/24hr events	NOAA Atlas 14	9/1/2023	RainfallDepths	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\2 - NOAA Rainfall
3	JPG	Snip showing the NOAA 2017 SLR Scenario curves for the Trident Pier gauge	USACE Sea-Level Change Curve Calculator	9/1/2023	SLRProjections_curve	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\3 - NOAA SLR
3	JPG	Snip showing the NOAA 2017 SLR Projection table for the Trident Pier gauge	USACE Sea-Level Change Curve Calculator	9/1/2023	SLRProjections_table	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\3 - NOAA SLR
4	JPG	Snip showing the illustration of NOAA tidal datums for the Trident Pier gauge	NOAA Tides and Currents	9/1/2023	TidalDatums_image	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\4 - NOAA Tidal
4	JPG	Snip showing the table of tidal datums and conversion values from NAVD88 for the Trident Pier gauge	NOAA Tides and Currents	9/1/2023	TidalDatums_table	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\4 - NOAA Tidal
5.1	PNG	FEMA Firm Panels for Indian River County	FEMA Flood Map Service Center	8/23/2023	12061C0085J, 12061C0094J, 12061C0095J, 12061C0103J, 12061C0104J, 12061C0111H, 12061C0112J, 12061C0113J, 12061C0114J, 12061C0226J, 12061CIND0B	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\5 - FEMA Flood Maps\5.1 - FIRM Panels
5.2	PDF	FEMA FIS for the City of Sebastian, Volume 1 of 6	FEMA Flood Map Service Center	8/23/2023	12061CV001B	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\5 - FEMA Flood Maps\5.2 - FIS Reports
5.2	PDF	FEMA FIS for the City of Sebastian, Volume 2 of 6	FEMA Flood Map Service Center	8/23/2023	12061CV002B	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\5 - FEMA Flood Maps\5.2 - FIS Reports
5.2	PDF	FEMA FIS for the City of Sebastian, Volume 3 of 6	FEMA Flood Map Service Center	8/23/2023	12061CV003B	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\5 - FEMA Flood Maps\5.2 - FIS Reports
5.2	PDF	FEMA FIS for the City of Sebastian, Volume 4 of 6	FEMA Flood Map Service Center	8/23/2023	12061CV004B	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\5 - FEMA Flood Maps\5.2 - FIS Reports
5.2	PDF	FEMA FIS for the City of Sebastian, Volume 5 of 6	FEMA Flood Map Service Center	8/23/2023	12061CV005B	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\5 - FEMA Flood Maps\5.2 - FIS Reports
5.2	PDF	FEMA FIS for the City of Sebastian, Volume 6 of 6	FEMA Flood Map Service Center	8/23/2023	12061CV006B	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\5 - FEMA Flood Maps\5.2 - FIS Reports
5.3	SHP	National Flood Hazard Layer GIS files	FEMA Flood Map Service Center	8/23/2023	NFHL Data	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\5 - FEMA Flood Maps\5.3 - NFHL Data
6.1	SHP	Evacuation routes within the City	City of Sebastian	1/28/2019	EvacRoutes	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\6 - Evacuation Routes and Transportation Assets\6.1 - Evac Routes
6.2	SHP	Shapefile showing location of FDOT Outfalls	City of Sebastian	2/25/2019	FDOTOutfalls	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\6 - Evacuation Routes and Transportation Assets\6.2 - FDOT Outfalls
6.3	PDF	Satellite imagery of the City of Sebastian Municipal Airport	City of Sebastian	9/28/2023	Airport Overview Jan 2023	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\6 - Evacuation Routes and Transportation Assets\6.3 - Airports
6.4	PDF	Satellite imagery showing the locations of City owned docks and surrounding parks	City of Sebastian	9/28/2023	City Owned Docks	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\6 - Evacuation Routes and Transportation Assets\6.4 - Docks

6.4	PDF	Plans outlining the dock expansion planned at Fishermans landing	City of Sebastian	9/28/2023	Conceptual Dock	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\6 - Evacuation Routes and Transportation Assets\6.4 - Docks (Marinas)
6.5	SHP	Polygon shapefile outlining City-owned bridges	City of Sebastian	10/4/2023	COS_Bridges	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\6 - Evacuation Routes and Transportation Assets\6.5 - Bridges
7.1	PDF	As-built drawings for stormwater pump system at Englar Dr	City of Sebastian	9/28/2023	SW Pump Control Drawings	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\7 - Critical Infrastructure\7.1 - Stormwater
7.1	PDF	City of Sebastian Stormwater Masterplan (July 2023)	City of Sebastian	9/28/2023	Stormwater Master Plan_final_07_03_2023-Reduced Size	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\7 - Critical Infrastructure\7.1 - Stormwater
7.1	PDF	Map detailing the modelling extents of stormwater infrastructure within the City for the Stormwater Masterplan	City of Sebastian	9/28/2023	Model Extent Map	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\7 - Critical Infrastructure\7.1 - Stormwater\SWMP Maps and Watersheds
7.1	PDF	Map detailing the modelling extents of the watershed boundaries, canals, and outfalls within the City for the Stormwater Masterplan	City of Sebastian	9/28/2023	City of Sebastian Watershed without Storm Infrastructure	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\7 - Critical Infrastructure\7.1 - Stormwater\SWMP Maps and Watersheds
7.1	PDF	Watershed map of the City including stormwater infrastructure for the Stormwater Masterplan	City of Sebastian	9/28/2023	City of Sebastian Watershed with Storm Infrastructure	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\7 - Critical Infrastructure\7.1 - Stormwater\SWMP Maps and Watersheds
7.1	PDF	Map detailing the watershed boundaries and acreage within the City	City of Sebastian	9/28/2023	City of Sebastian Lagoon Watersheds without Storm Infrastructure	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\7 - Critical Infrastructure\7.1 - Stormwater\SWMP Maps and Watersheds
7.1	PDF	Map detailing the watershed boundaries and acreage within the City, with stormwater infrastructure shown	City of Sebastian	9/28/2023	City of Sebastian Lagoon Watersheds with Storm Infrastructure	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\7 - Critical Infrastructure\7.1 - Stormwater\SWMP Maps and Watersheds
7.1	PCZ	PCSWMM model files for 10yr, 25yr, and 100yr scenarios	City of Sebastian	9/28/2023	Sebastian_FL_Existing_03-15-2023_10yr, Sebastian_FL_Existing_03-15-2023_10yr_wResults, Sebastian_FL_Existing_03-15-2023_25yr, Sebastian_FL_Existing_03-15-2023_25yr_wResults,	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\7 - Critical Infrastructure\7.1 - Stormwater\PCSWMM Model
7.1	SHP	Shapefile of locations of City-owned baffle boxes	City of Sebastian	10/4/2023	COS_BaffleBox	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\7 - Critical Infrastructure\7.1 - Stormwater\Baffle Boxes
7.2	SHP	Shapefile showing location of lift stations within the City (County or privately-owned)	City of Sebastian	2/25/2019	LiftStations	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\7 - Critical Infrastructure\7.2 - Wastewater\Lift Stations
7.2	TIF & XLSX	Multiple tif files and excel spreadsheet tracking as-built information for lift stations within the city. Spreadsheet includes inverts	City of Sebastian	1/14/2019	Lift Station As Builts	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\7 - Critical Infrastructure\7.2 - Wastewater\Lift Stations\Lift Station As Builts
8.1	SHP	Shapefile showing location and name of emergency shelters	City of Sebastian	2/25/2019	Shelters	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\8 - Community and Emergency Facilities\8.1 - Shelters
8.2	SHP	Shapefile showing location and name of government and community facilities	City of Sebastian	2/25/2019	GovtFacilities	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\8 - Community and Emergency Facilities\8.2 - Community Facilities

9.1	PDF	City of Sebastian Seawall Assessment dated August 2015	City of Sebastian	9/28/2023	2015 Seawall Assessment Final Report	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\9 - Natural, Cultural, Historical\9.1 - Shorelines
9.2	SHP	Shapefile showing location of City-maintained canal system	City of Sebastian	2/27/2019	Canals	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\9 - Natural, Cultural, Historical\9.2 - Surface Waters\Canals
9.3	PDF	Map showing locations of historical/cultural sites inventoried by the City	City of Sebastian	9/28/2023	Sebastian Historic Sites Map_Optimized	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\9 - Natural, Cultural, Historical\9.3 - Historic Sites
9.4	SHP	Shapefile of the Conservation Lands within Indian River County (not City-owned nor maintained)	City of Sebastian	12/16/2020	IRC_ConservationLands	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\9 - Natural, Cultural, Historical\9.4 - Conservation Areas
9.5	SHP	Shapefile of parks within the City boundary	City of Sebastian	11/13/2018	Parks	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\9 - Natural, Cultural, Historical\9.5 - Parks
10.1	SHP	Shapefile of building footprints	City of Sebastian	1/28/2019	BuildingFootprints	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\10 - From City\10.1 - Buildings
10.2	SHP	Municipal Boundary for the City of Sebastian	City of Sebastian	10/26/2023	COS_Boundary_Oct2023_911	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\10 - From City\10.2 - City Boundary
10.3	SHP	Shapefile of streets within the City	City of Sebastian	1/28/2019	Streets	K:\STP_Civil\148882 - City of Sebastian\001 - Vulnerability Assessment\Documents\Data Collection\10 - From City\10.3 - Streets

APPENDIX B

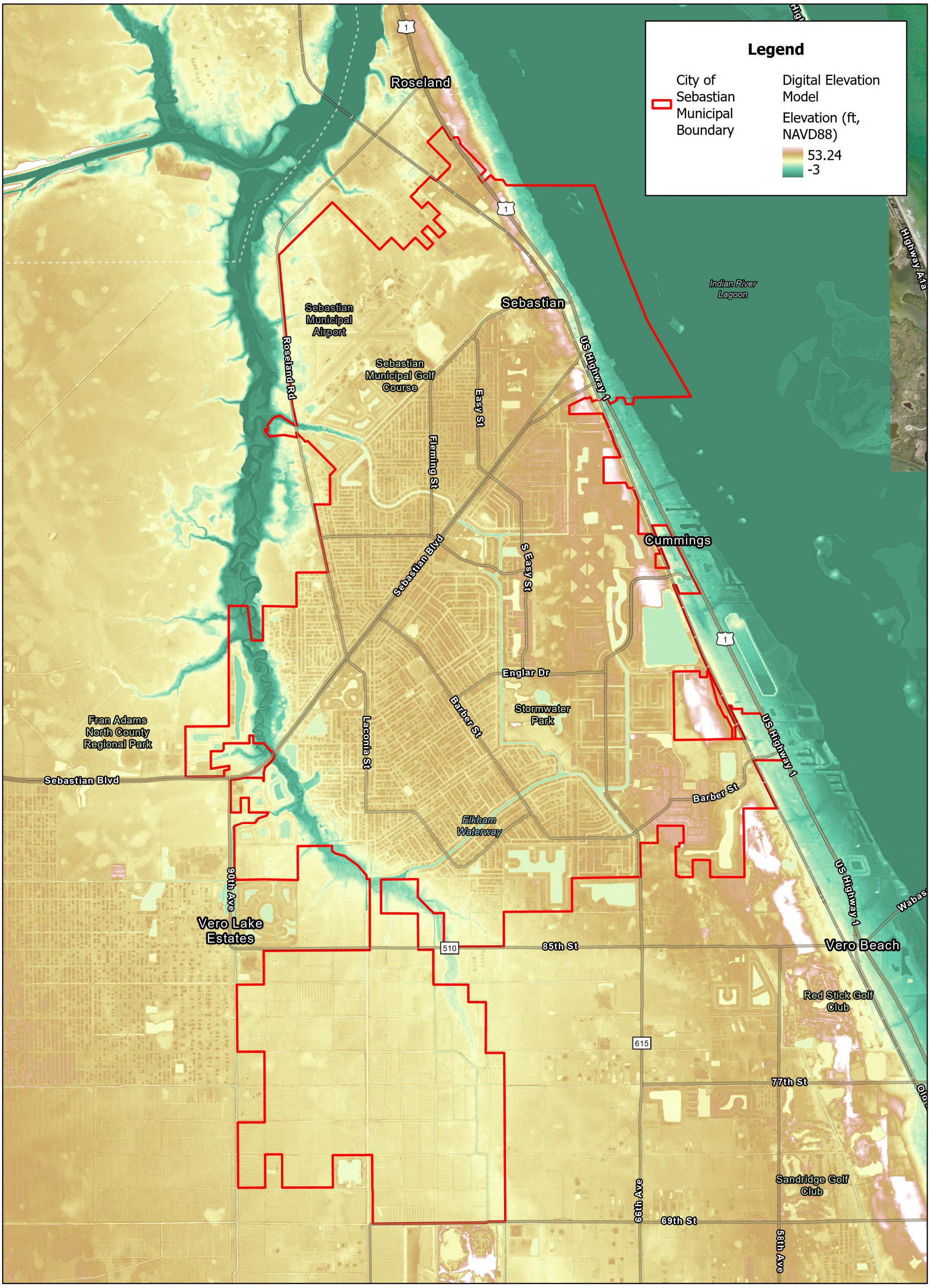
CRITICAL ASSETS



City of Sebastian Critical Assets	N 0 0.38 0.75 1.5 Miles	Kimley»Horn
Vulnerability Assessment		

APPENDIX C

DIGITAL ELEVATION MODEL



City of Sebastian
2019 Digital Elevation Model

Vulnerability Assessment

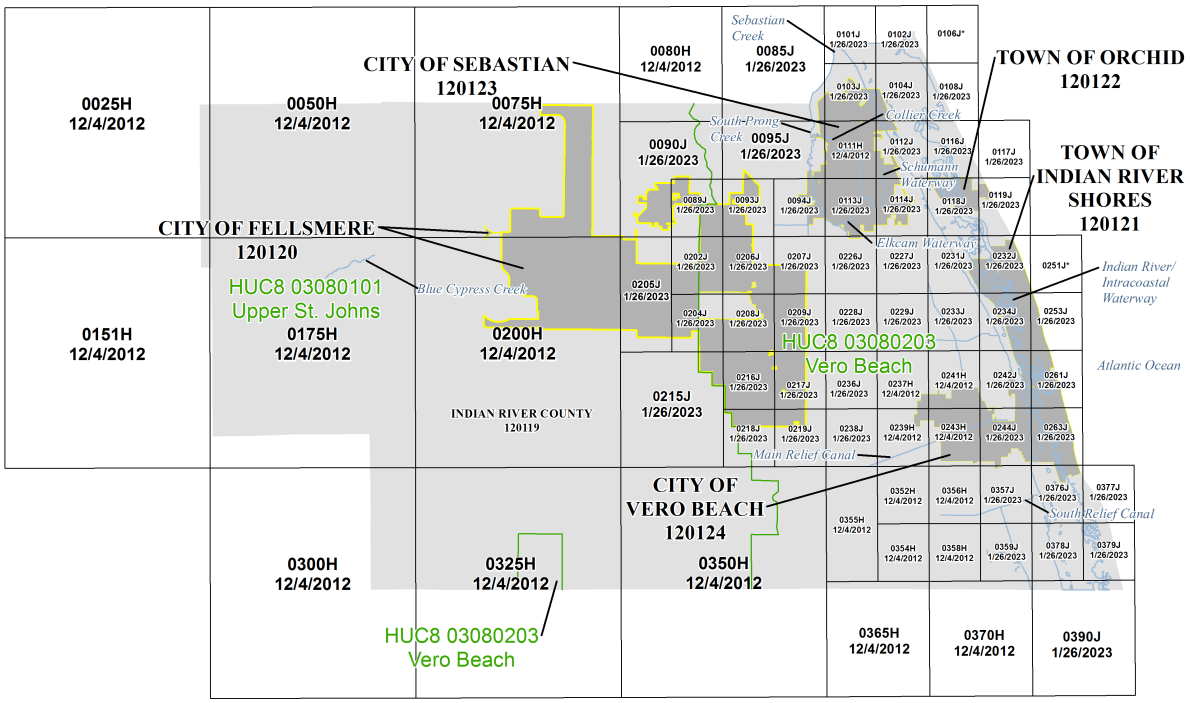
N

0 0.38 0.75 1.5 Miles

Kimley»Horn

APPENDIX D

FEMA FIRMS



ATTENTION: The corporate limits shown on this FIRM Index are based on the best information available at the time of publication. As such, they may be more current than those shown on FIRM panels issued before JANUARY 26, 2023.

N

1 inch = 24,515 feet 1:294,186

feet
0 6,500 13,000 26,000 39,000 52,000

Map Projection:
HARN State Plane Transverse Mercator, Florida East
FIPS 0901; North American Datum 1983

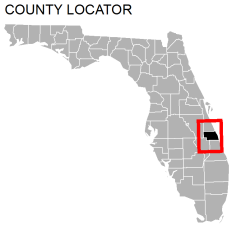
THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT

HTTPS://MSC.FEMA.GOV

SEE FLOOD INSURANCE STUDY FOR ADDITIONAL INFORMATION

* PANEL NOT PRINTED - AREA ALL WITHIN ZONE VE (EL 10)

COUNTY LOCATOR



NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP INDEX

INDIAN RIVER COUNTY, FLORIDA and Incorporated Areas

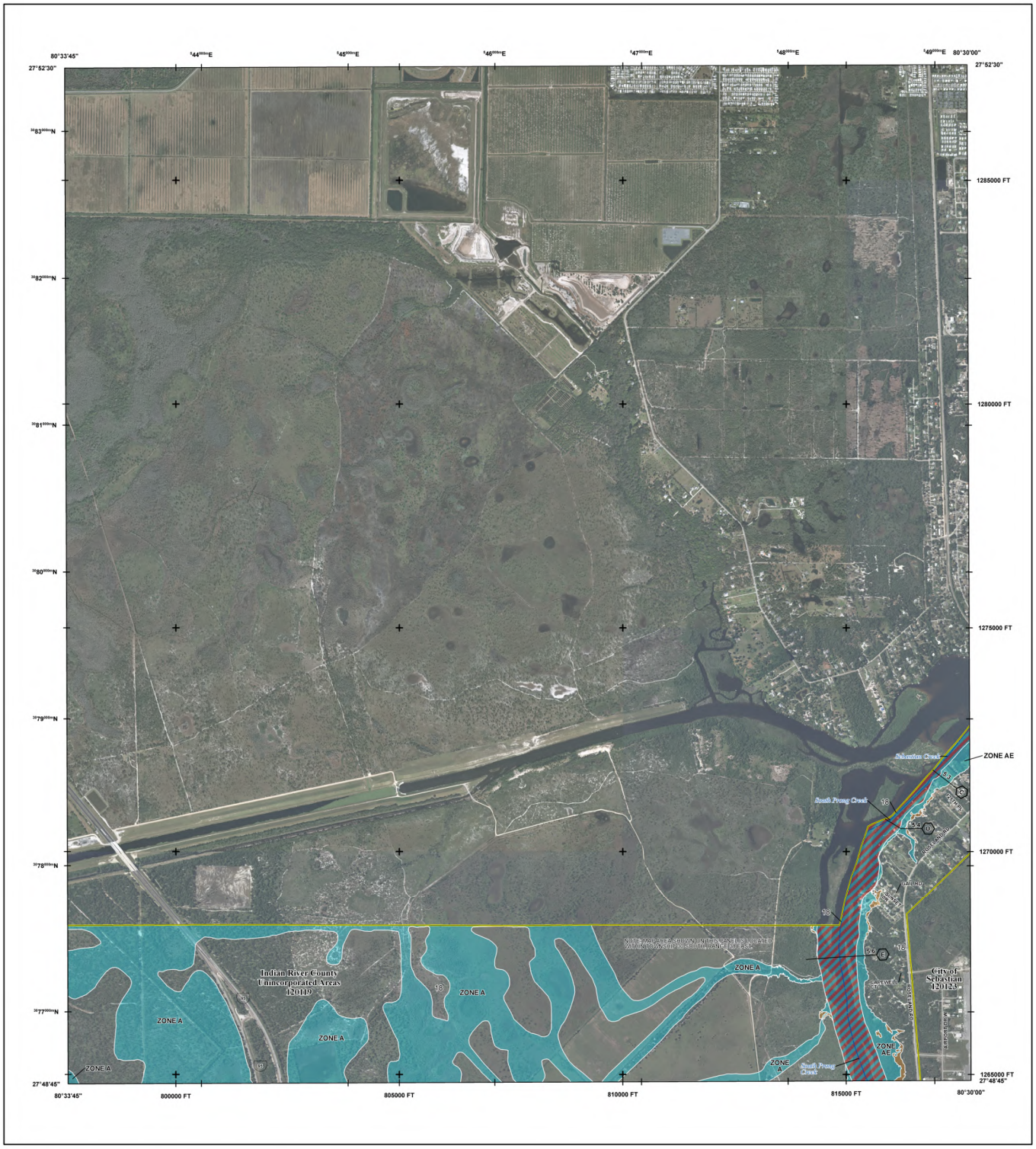
PANELS PRINTED:

0025, 0050, 0075, 0080, 0085, 0089, 0090, 0093, 0094, 0095, 0101, 0102, 0103, 0104, 0108, 0111, 0112, 0113, 0114, 0116, 0117, 0118, 0119, 0151, 0175, 0200, 0202, 0204, 0205, 0206, 0207, 0208, 0209, 0215, 0216, 0217, 0218, 0219, 0226, 0227, 0228, 0229, 0231, 0232, 0233, 0234, 0236, 0237, 0238, 0239, 0241, 0242, 0243, 0244, 0253, 0261, 0263, 0300, 0325, 0350, 0352, 0354, 0355, 0356, 0357, 0358, 0359, 0365, 0370, 0376, 0377, 0378, 0379, 0390

FEMA

MAP NUMBER
12061CIND0B

MAP REVISED
JANUARY 26, 2023



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT

HTTPS://MSC.FEMA.GOV

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS

- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- 18.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at https://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

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To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on the FIRM was provided in digital format by Indian River County, 2016; the Florida Department of Transportation, 2015; and the U.S. Department of Agriculture, 2015.

SCALE

N

Map Projection:
HARN State Plane Transverse Mercator, Florida East Zone FIPS 0901; North American Datum 1983; Western Hemisphere; Vertical Datum: NAVD 88

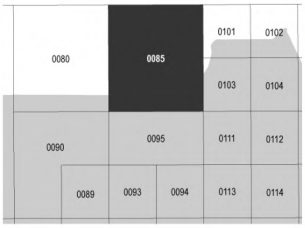
1 inch = 1,000 feet 1:12,000

0 1,000 2,000 4,000 feet

0 250 500 1,000 meters

PANEL LOCATOR





FEMA

National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

INDIAN RIVER COUNTY, FLORIDA
and Incorporated Areas

PANEL 85 OF 390

FEMA

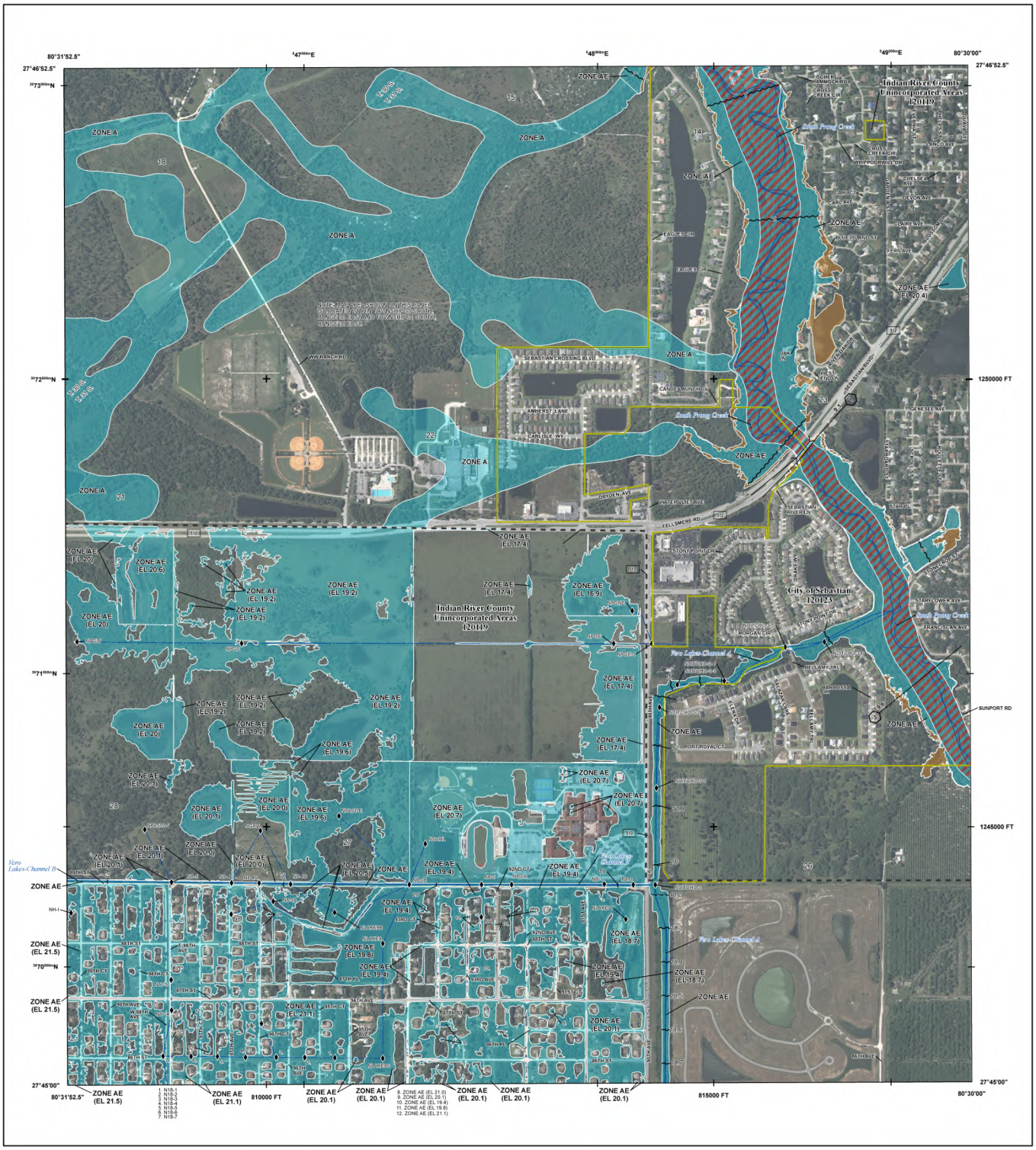
Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
INDIAN RIVER COUNTY	120119	0085	J
SEBASTIAN, CITY OF	120123	0085	J

VERSION NUMBER
2.3.3.2

MAP NUMBER
12061C0085J

MAP REVISED
JANUARY 26, 2023



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT

HTTPS://MSC.FEMA.GOV

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) *Zone A,V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS

- NO SCREEN — Area of Minimal Flood Hazard *Zone X*
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall
- E — 18.2 / 17.5 — Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 — Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 513 — Base Flood Elevation Line (BFE)

OTHER FEATURES

- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

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Base map information shown on the FIRM was provided in digital format by Indian River County, 2016; the Florida Department of Transportation, 2015; and the U.S. Department of Agriculture, 2015.

Basin Boundary

SCALE

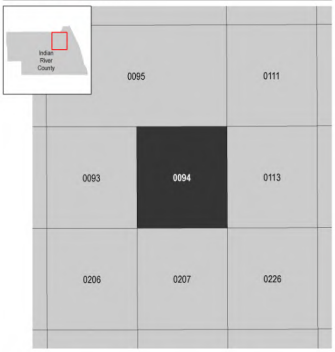
Map Projection: HARN State Plane Transverse Mercator, Florida East Zone FIPS 0901; North American Datum 1983; Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet 1:6,000

0 250 500 750 1,000 2,000 feet

0 125 250 500 meters

PANEL LOCATOR



FEMA National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

INDIAN RIVER COUNTY, FLORIDA
and Incorporated Areas

PANEL 94 OF 390

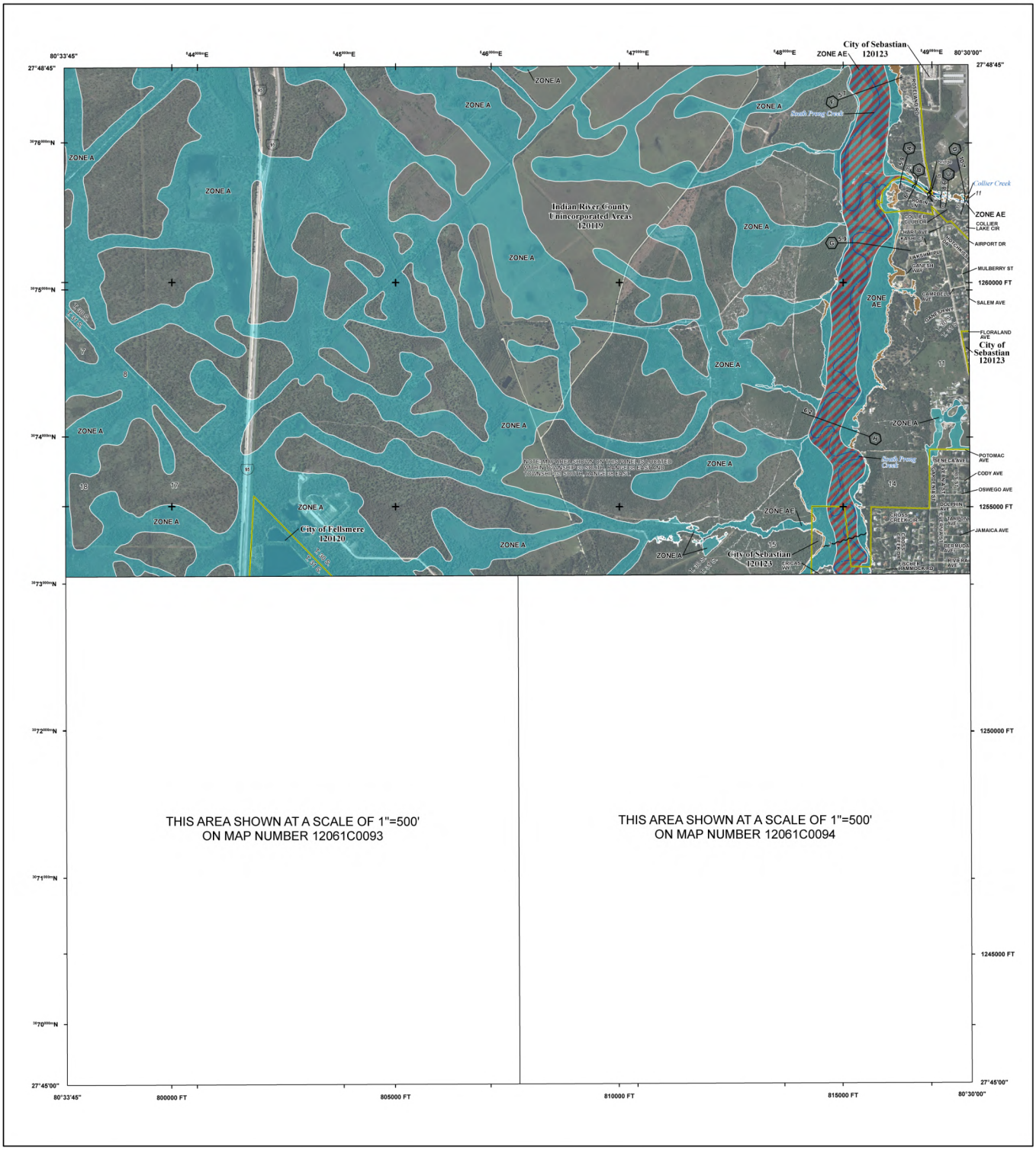
Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
INDIAN RIVER COUNTY	120139	0094	J
SEBASTIAN, CITY OF	120123	0094	J

VERSION NUMBER
2.3.3.2

MAP NUMBER
12061C0094J

MAP REVISED
JANUARY 26, 2023



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT

HTTPS://MSC.FEMA.GOV

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A,V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall
- E 18.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 513 Base Flood Elevation Line (BFE)

OTHER FEATURES
- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

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Base map information shown on the FIRM was provided in digital format by Indian River County, 2016; the Florida Department of Transportation, 2015; and the U.S. Department of Agriculture, 2015.

SCALE

Map Projection:
HARN State Plane Transverse Mercator, Florida East Zone FIPS 0901; North American Datum 1983; Western Hemisphere; Vertical Datum: NAVD 88

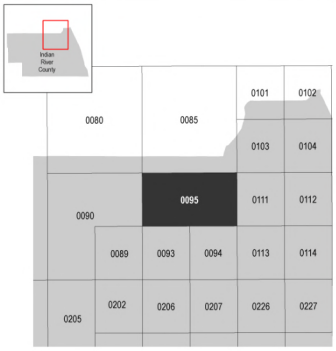
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1 inch = 1,000 feet 1:12,000

0 1,000 2,000 4,000 feet

0 250 500 1,000 meters

PANEL LOCATOR



FEMA

National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

INDIAN RIVER COUNTY, FLORIDA
and Incorporated Areas

PANEL 95 OF 390

FEMA

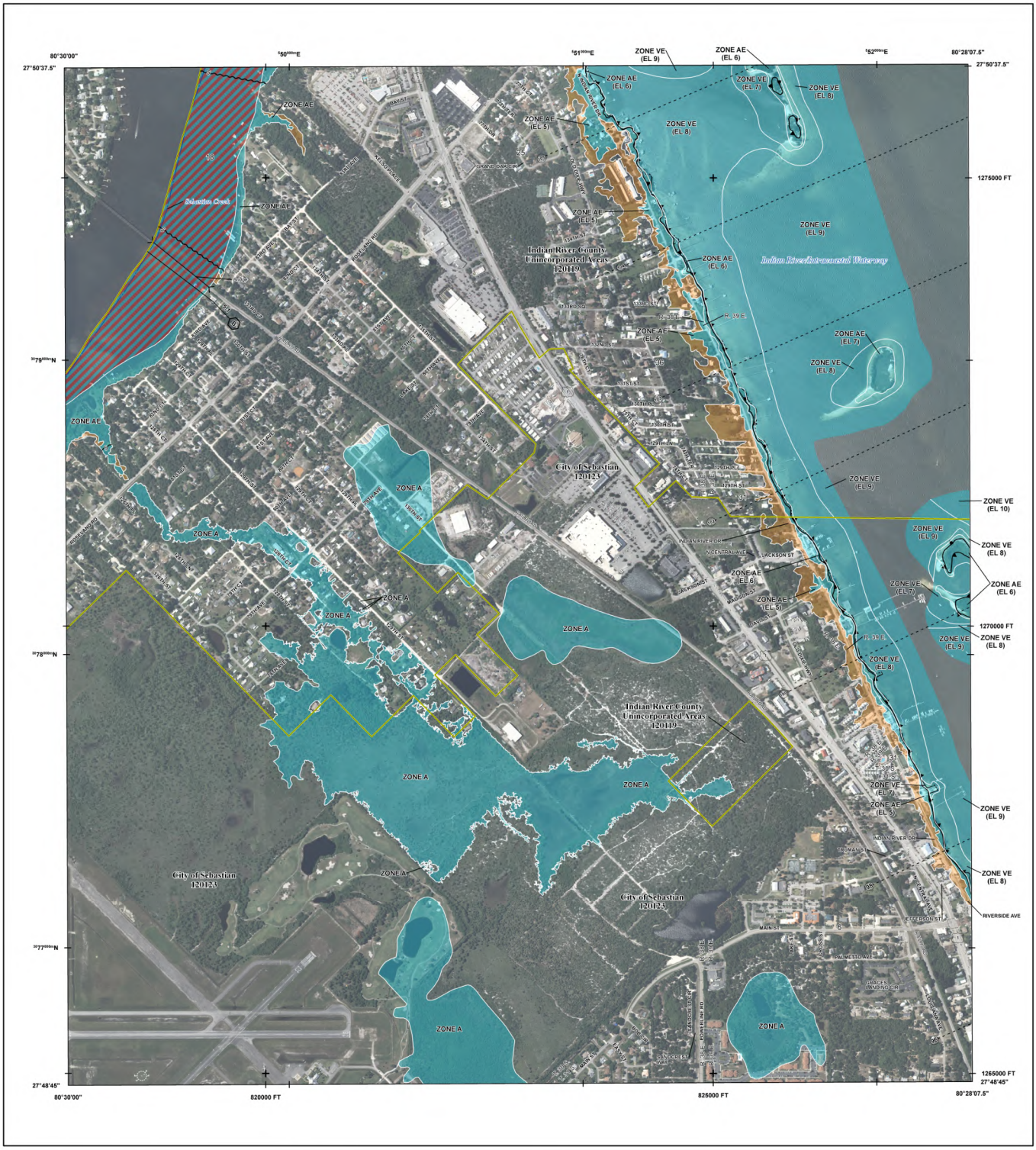
Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
FELLSMERE, CITY OF	120120	0095	J
INDIAN RIVER COUNTY	120119	0095	J
SEBASTIAN, CITY OF	120123	0095	J

VERSION NUMBER
2.3.3.2

MAP NUMBER
12061C0095J

MAP REVISED
JANUARY 26, 2023



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

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SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) *Zone A, V, A99* With BFE or Depth *Zone AE, AO, AH, VE, AR* Regulatory Floodway
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OTHER AREAS	NO SCREEN Area of Minimal Flood Hazard *Zone X* Area of Undetermined Flood Hazard *Zone D*
GENERAL STRUCTURES	Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
	E 18.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation 8 Coastal Transect Coastal Transect Baseline Profile Baseline Hydrographic Feature 513 Base Flood Elevation Line (BFE)
OTHER FEATURES	Limit of Study Jurisdiction Boundary

NOTES TO USERS

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LIMIT OF MODERATE WAVE ACTION: Zone AE has been divided by a Limit of Moderate Wave Action (LiMWA). The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between Zone VE and the LiMWA (or between the shoreline and the LiMWA for areas where Zone VE is not identified) will be similar to, but less severe than, those in the Zone VE.

Limit of Moderate Wave Action (LiMWA)

Coastal Barrier Resources System (CBRS) areas and "otherwise protected areas" (OPAs) are no longer shown on this map panel, but still may be present in this community. Current information on these areas is provided by the U.S. Fish & Wildlife Service (FWS). NFIP flood insurance is not available within CBRS areas for structures that are built or substantially improved on or after the dates indicated by FWS. Users should reference the most up-to-date information provided by FWS to determine NFIP insurance eligibility. The official maps and additional information regarding CBRS areas are provided on the FWS website at: www.fws.gov/cbra. FEMA also includes the official boundaries from FWS on our interactive and dynamic flood maps available through the FEMA Map Service Center.

SCALE

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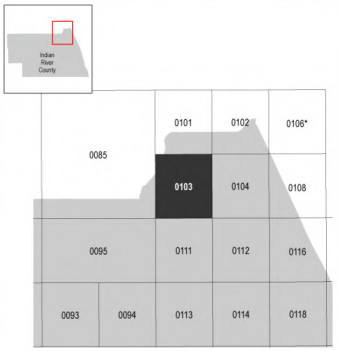
Map Projection:
HARN State Plane Transverse Mercator, Florida East Zone FIPS 0901; North American Datum 1983; Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet 1:6,000

0 250 500 750 1,000 2,000 feet

0 125 250 500 meters

PANEL LOCATOR



*PANEL NOT PRINTED

National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

INDIAN RIVER COUNTY, FLORIDA
and Incorporated Areas

PANEL 103 OF 390

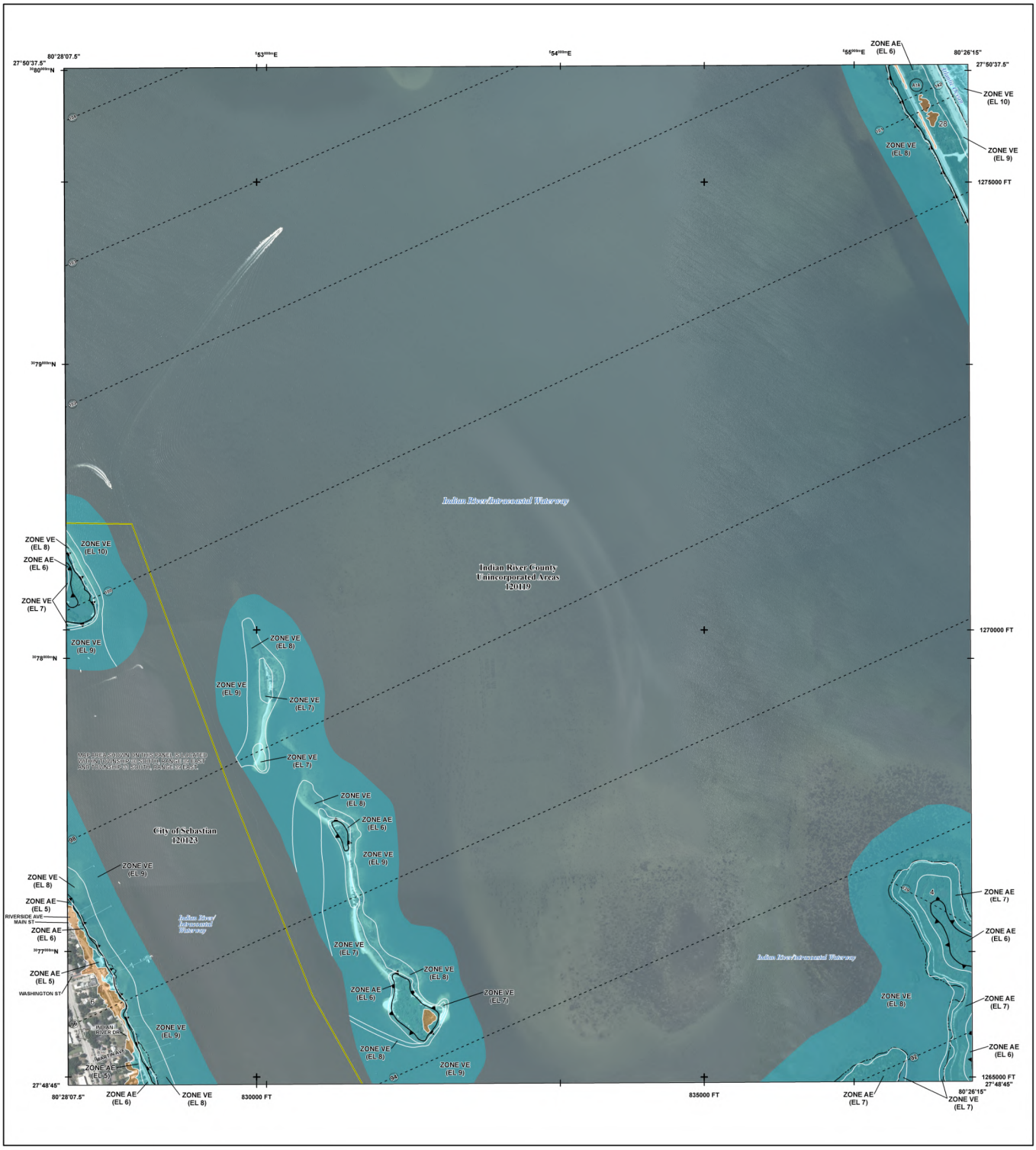
Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
INDIAN RIVER COUNTY	120119	0103	J
SEBASTIAN, CITY OF	120123	0103	J

VERSION NUMBER
2.3.3.2

MAP NUMBER
12061C0103J

MAP REVISED
JANUARY 26, 2023



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

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SPECIAL FLOOD HAZARD AREAS
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- Regulatory Floodway

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GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall
- E 18.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 513 Base Flood Elevation Line (BFE)

OTHER FEATURES
- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

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SCALE

N

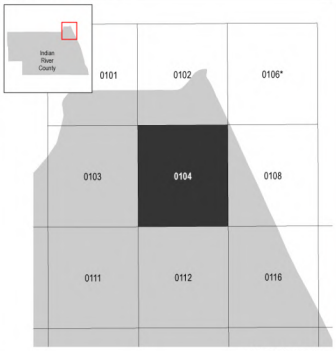
Map Projection:
HARN State Plane Transverse Mercator, Florida East Zone FIPS 0901; North American Datum 1983; Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet 1:6,000

0 250 500 750 1,000 2,000 feet

0 125 250 500 meters

PANEL LOCATOR



*PANEL NOT PRINTED

FEMA

National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

INDIAN RIVER COUNTY, FLORIDA
and Incorporated Areas

PANEL 104 OF 390

FEMA

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
INDIAN RIVER COUNTY	120119	0104	J
SEBASTIAN, CITY OF	120123	0104	J

VERSION NUMBER
2.3.3.2

MAP NUMBER
12061C0104J

MAP REVISED
JANUARY 26, 2023

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations (BFEs) shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Transverse Mercator State Plane Florida East FIPS 0901. The **horizontal datum** was NAD83 HARN, GRS1980 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242** or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on this FIRM was provided in digital format by Indian River County and the Florida Geographic Data Library.

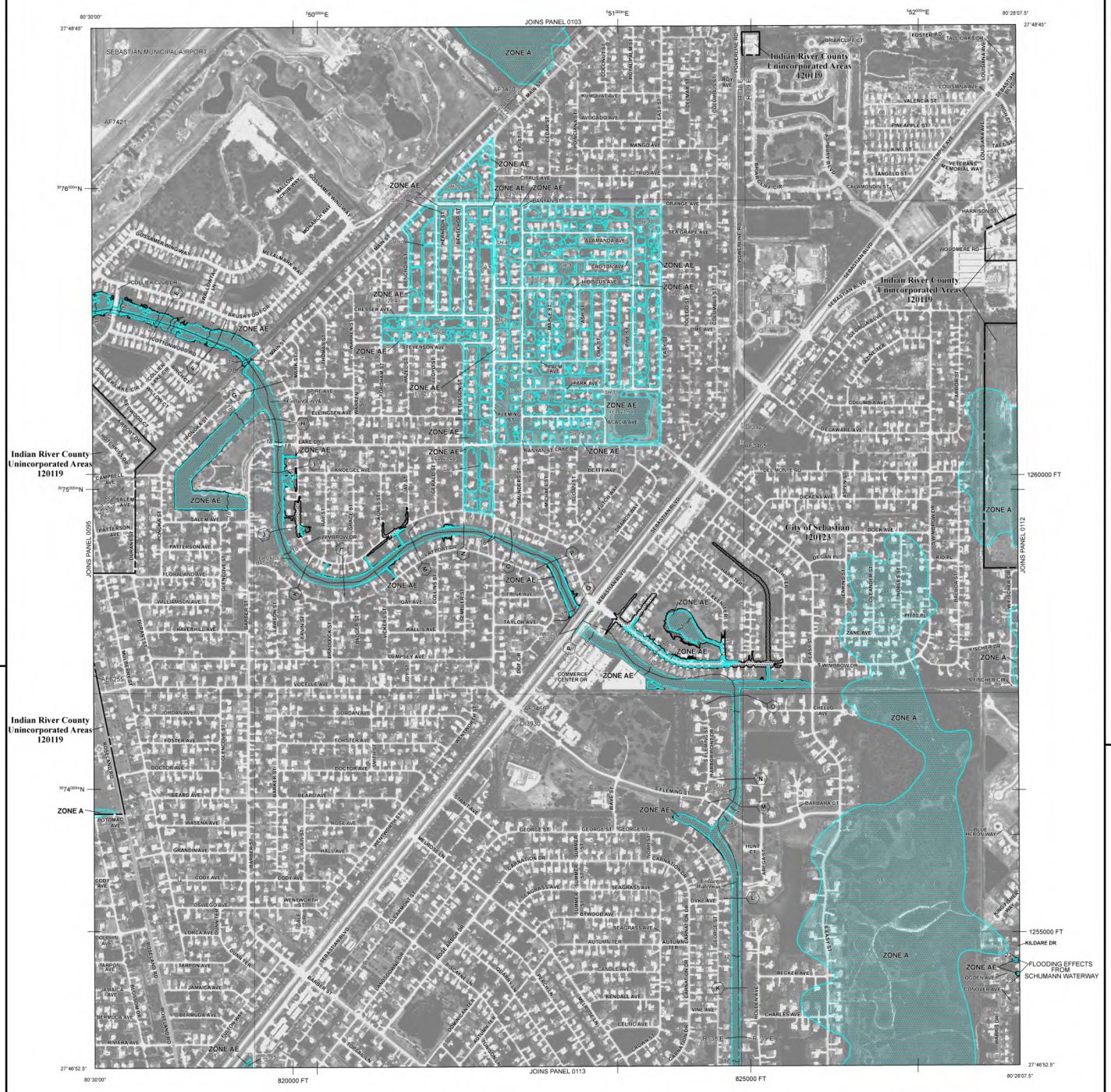
This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Map Service Center website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website. Users may determine the current map date for each FIRM panel by visiting the FEMA Map Service Center website or by calling the FEMA Map Information eXchange.

The **"profile base lines"** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the "profile base line", in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Areas to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary
0.2% annual chance floodplain boundary
Floodway boundary
Zone D boundary
CBRS and OPA boundary
Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities
513 (EL 987) Base Flood Elevation line and value; elevation in feet* / Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988

A–A Cross section line
23–23 Transect line
97°07'30", 32°22'30" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
4275000mE 1000-meter Universal Transverse Mercator grid ticks, zone 17
6000000 FT 5000-foot grid values: Florida State Plane coordinate system, East Zone (FIPSZONE = 901), Transverse Mercator projection
DX5510 Bench mark (see explanation in Notes to Users section of this FIRM panel)
M1.5 River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
May 4, 1989

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
July 2, 1992 - to add Coastal Barrier Resources Areas and Otherwise Protected Areas

May 3, 1993 - to change zone designations

June 30, 1999 - to reduce Coastal Barrier Resources System units

December 4, 2012 - to add Base Flood Elevations, floodway, and Special Flood Hazard Areas; to change zone designations and Special Flood Hazard Areas; to update map format; and to reflect updated topographic information.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'

250 0 250 500 750 1,000 FEET
100 0 100 300 METERS

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0111H

FIRM

FLOOD INSURANCE RATE MAP

INDIAN RIVER COUNTY, FLORIDA AND INCORPORATED AREAS

PANEL 111 OF 390

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

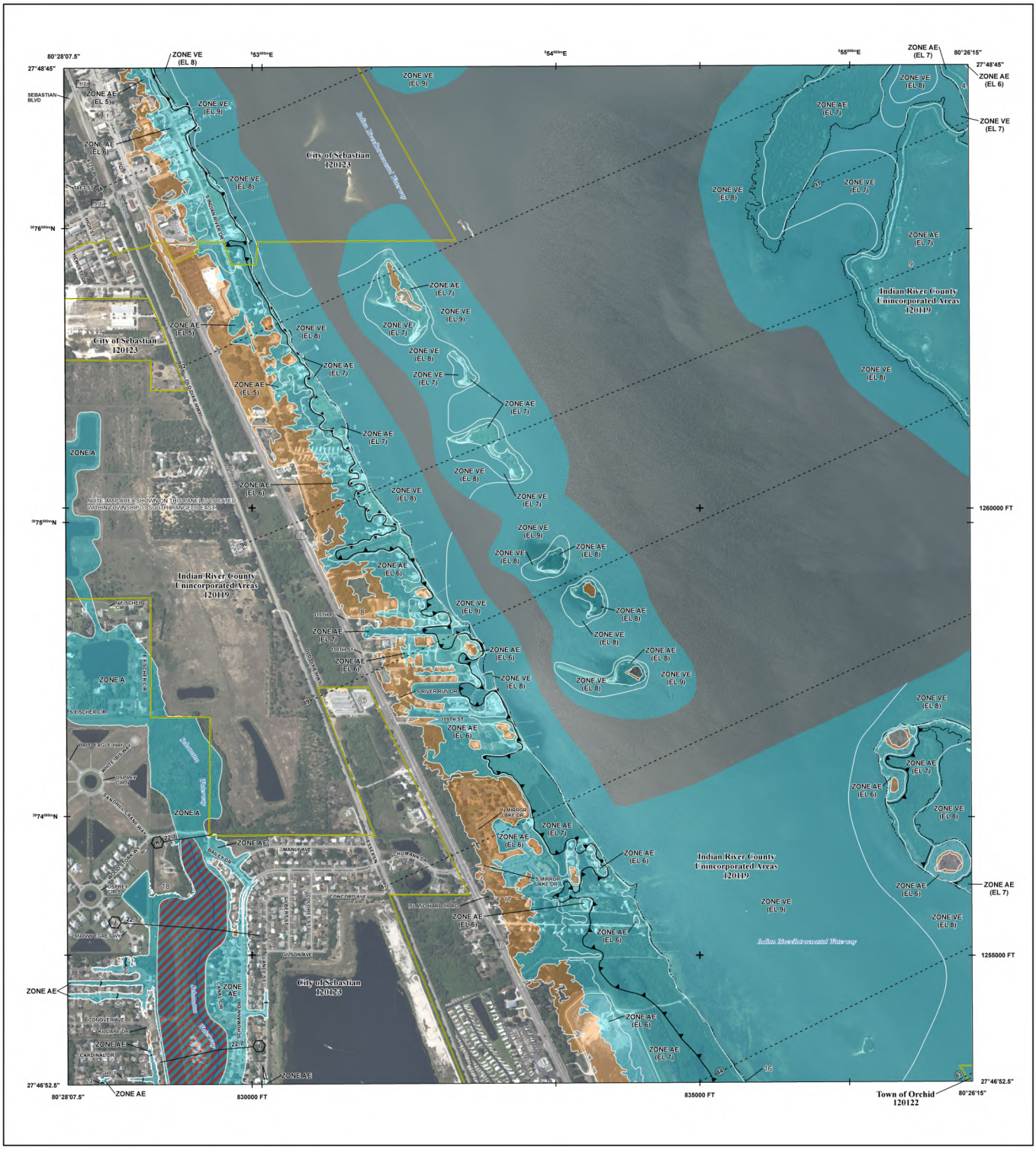
COMMUNITY	NUMBER	PANEL	SUFFIX
INDIAN RIVER COUNTY	120119	0111	H
SEBASTIAN, CITY OF	120123	0111	H

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
12061C0111H

MAP REVISED
DECEMBER 4, 2012

Federal Emergency Management Agency



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT HTTPS://MSC.FEMA.GOV

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall
- E 18.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 513 Base Flood Elevation Line (BFE)

OTHER FEATURES
- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

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For community and countywide map dates refer to the Flood Insurance Study Report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on the FIRM was provided in digital format by Indian River County, 2016; the Florida Department of Transportation, 2015; and the U.S. Department of Agriculture, 2015.

LIMIT OF MODERATE WAVE ACTION: Zone AE has been divided by a Limit of Moderate Wave Action (LiMWA). The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between Zone VE and the LiMWA (or between the shoreline and the LiMWA for areas where Zone VE is not identified) will be similar to, but less severe than, those in the Zone VE.

Limit of Moderate Wave Action (LiMWA)

Coastal Barrier Resources System (CBRS) areas and "otherwise protected areas" (OPAs) are no longer shown on this map panel, but still may be present in this community. Current information on these areas is provided by the U.S. Fish & Wildlife Service (FWS). NFIP flood insurance is not available within CBRS areas for structures that are built or substantially improved on or after the dates indicated by FWS. Users should reference the most up-to-date information provided by FWS to determine NFIP insurance eligibility. The official maps and additional information regarding CBRS areas are provided on the FWS website at: www.fws.gov/cbra. FEMA also includes the official boundaries from FWS on our interactive and dynamic flood maps available through the FEMA Map Service Center.

SCALE

N

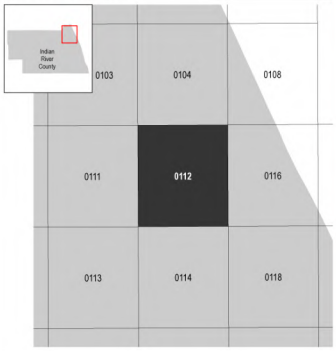
Map Projection: HARN State Plane Transverse Mercator, Florida East Zone FIPS 0901; North American Datum 1983; Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet 1:6,000

0 250 500 750 1,000 2,000 feet

0 125 250 500 meters

PANEL LOCATOR



FEMA

National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

INDIAN RIVER COUNTY, FLORIDA
and Incorporated Areas

PANEL 112 OF 390

FEMA

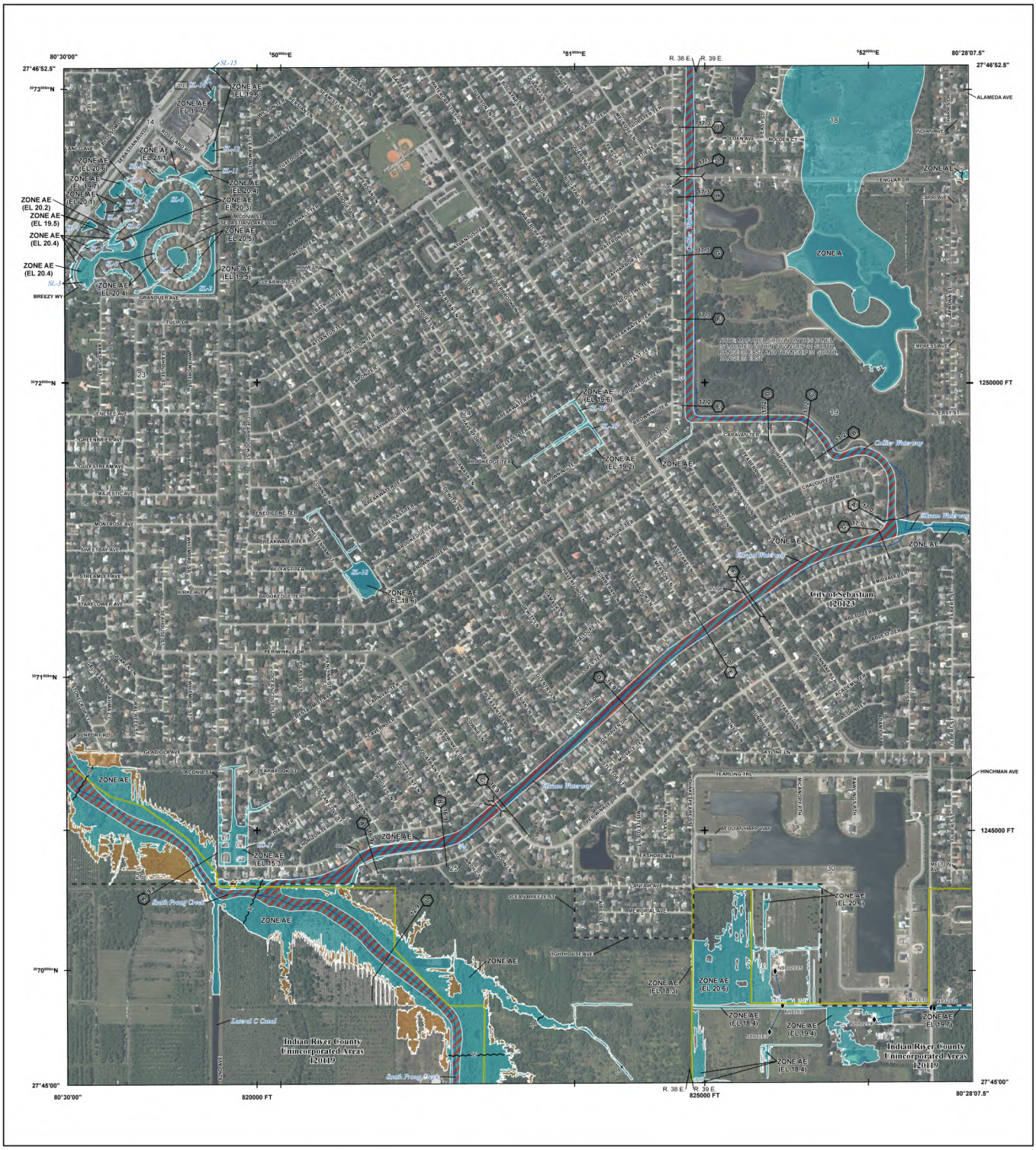
Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
INDIAN RIVER COUNTY	120119	0112	J
ORCHID, TOWN OF	120122	0112	J
SEBASTIAN, CITY OF	120123	0112	J

VERSION NUMBER
2.3.3.2

MAP NUMBER
12061C0112J

MAP REVISED
JANUARY 26, 2023



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT

HTTPS://MSC.FEMA.GOV

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS

- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- E 18.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

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Base map information shown on the FIRM was provided in digital format by Indian River County, 2016; the Florida Department of Transportation, 2015; and the U.S. Department of Agriculture, 2015.

Basin Boundary

SCALE

N

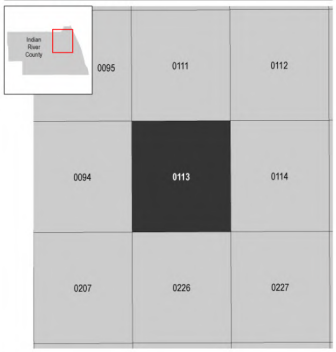
Map Projection:
HARN State Plane Transverse Mercator, Florida East Zone FIPS 0901; North American Datum 1983; Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet 1:6,000

0 250 500 750 1,000 2,000 feet

0 125 250 500 meters

PANEL LOCATOR



FEMA

National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

INDIAN RIVER COUNTY, FLORIDA

and Incorporated Areas

PANEL 113 OF 390

FEMA

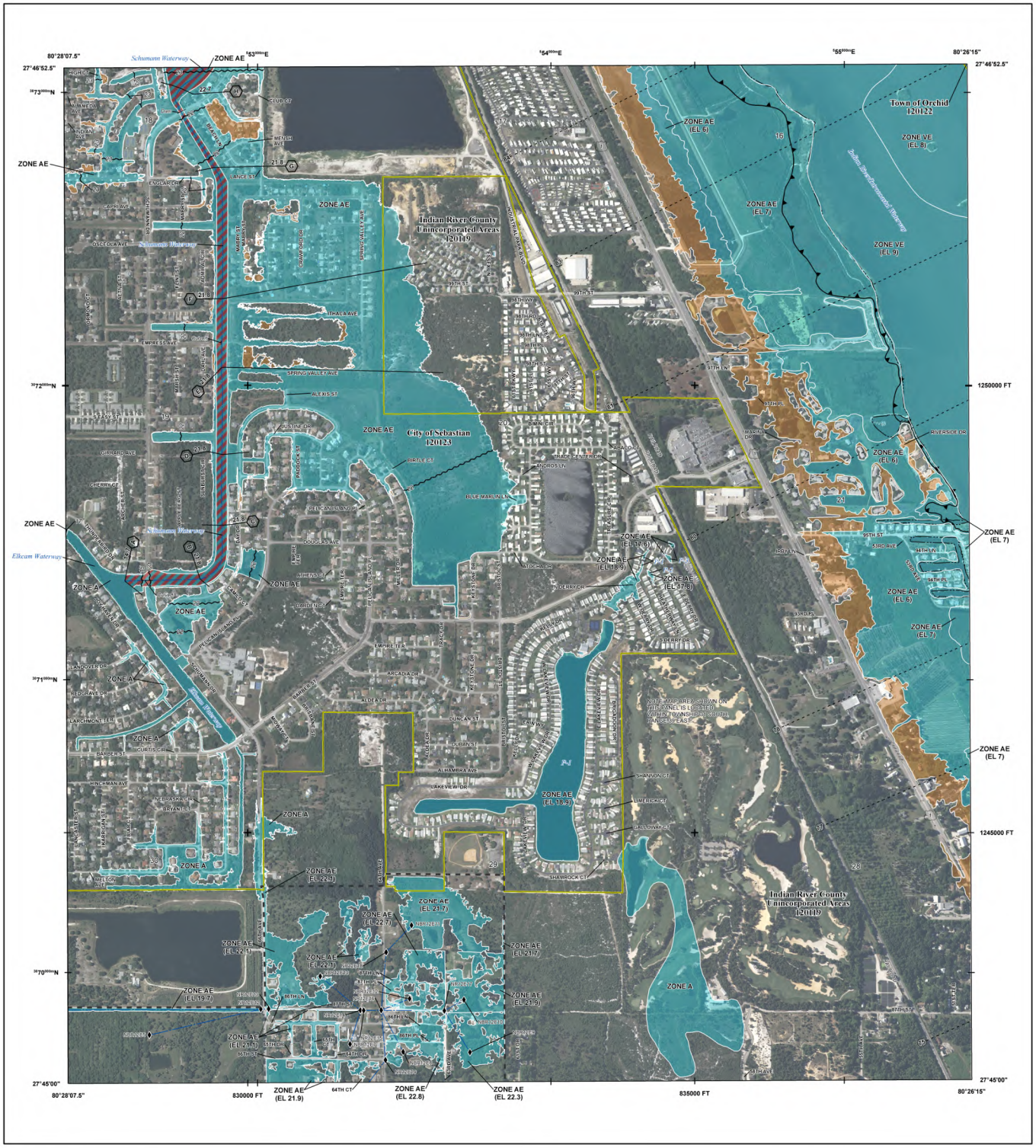
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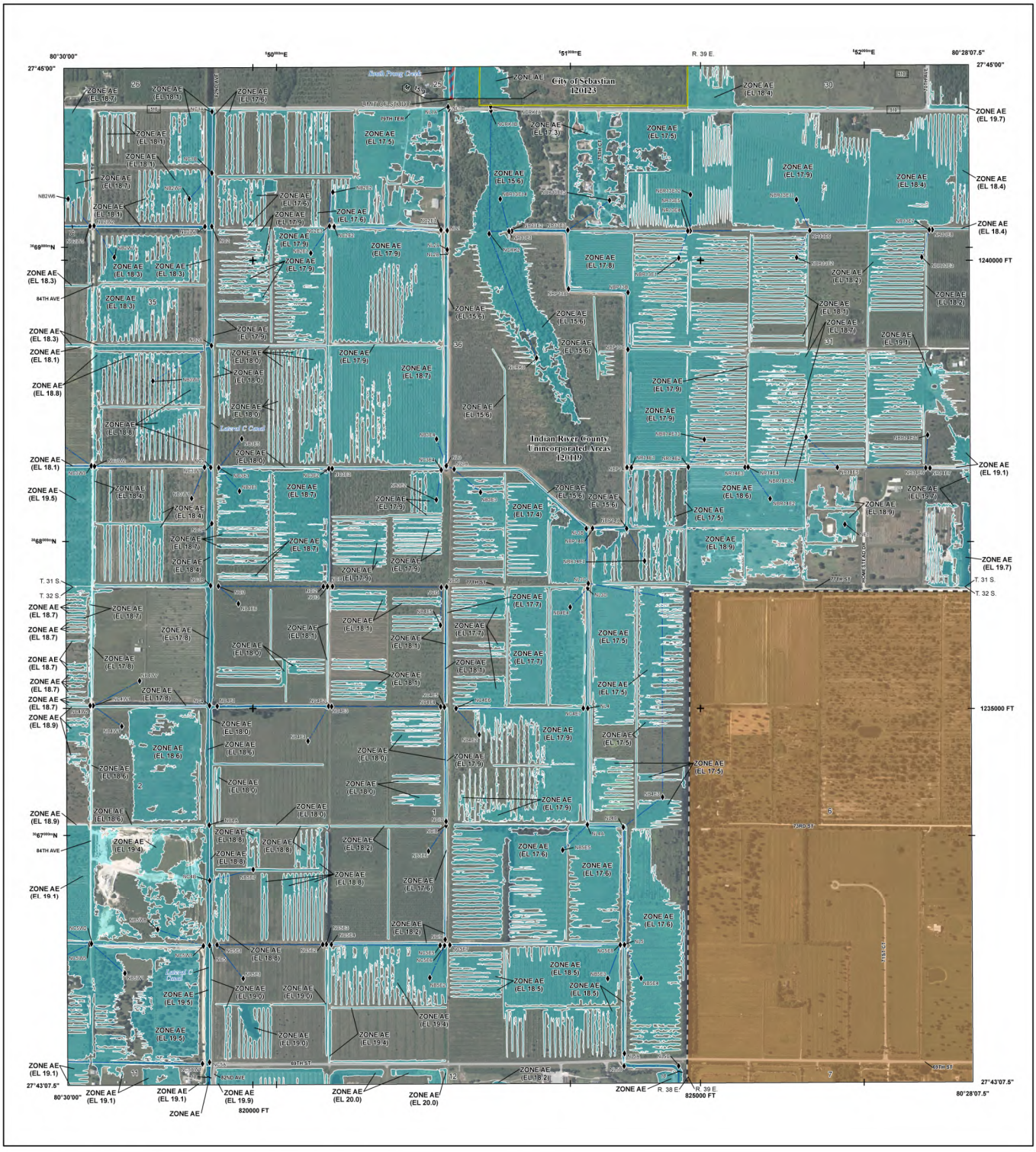
COMMUNITY	NUMBER	PANEL	SUFFIX
INDIAN RIVER COUNTY	120119	0113	J
SEBASTIAN, CITY OF	120123	0113	J

VERSION NUMBER
2.3.3.2

MAP NUMBER
12061C0113J

MAP REVISED
JANUARY 26, 2023


80°28'07.5"
27°46'52.5"
553000mE
554000mE
555000mE
80°26'15"
3073000mN
3072000mN
3071000mN
3070000mN
27°45'00"
830000 FT
835000 FT
1250000 FT
1245000 FT
Schumann Waterway
Elkcam Waterway
Indian River Lagoon
John Brooks Memorial Highway
Indian River County Unincorporated Areas 120119
City of Sebastian 120123
Town of Orchid 120122
ZONE AE
ZONE A
ZONE VE (EL 8)
ZONE VE (EL 9)
ZONE AE (EL 6)
ZONE AE (EL 7)
ZONE AE (EL 17.8)
ZONE AE (EL 18.9)
ZONE AE (EL 21.7)
ZONE AE (EL 22.1)
ZONE AE (EL 22.7)
ZONE AE (EL 19.7)
ZONE AE (EL 21.1)
ZONE AE (EL 21.9)
ZONE AE (EL 22.8)
ZONE AE (EL 22.3)
64TH CT
SEBASTIAN BLVD
SPRING VALLEY AVE
ALEXIS ST
ROSELAND AVE
ROSELAND CREEK
ROSELAND CANAL
ROSELAND DR
ROSELAND TER
ROSELAND CT
ROSELAND PL
ROSELAND LN
ROSELAND CIR
ROSELAND TRL
ROSELAND WAY
ROSELAND PKWY
ROSELAND BLVD
ROSELAND CROSSING
ROSELAND CROSSING CIR
ROSELAND CROSSING DR
ROSELAND CROSSING PL
ROSELAND CROSSING TER
ROSELAND CROSSING WAY
ROSELAND CROSSING LN
ROSELAND CROSSING CT
ROSELAND CROSSING BLVD
ROSELAND CROSSING PKWY
ROSELAND CROSSING TRL



FLOOD HAZARD INFORMATION

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- 8 — Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 513 — Base Flood Elevation Line (BFE)

OTHER FEATURES

- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

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Basin Boundary

SCALE

N

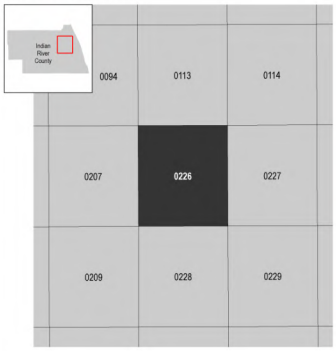
Map Projection:
HARN State Plane Transverse Mercator, Florida East Zone FIPS 0901; North American Datum 1983; Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet 1:6,000

0 250 500 750 1,000 2,000 feet

0 125 250 500 meters

PANEL LOCATOR



FEMA

National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

INDIAN RIVER COUNTY, FLORIDA

and Incorporated Areas

PANEL 226 OF 390

FEMA

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
INDIAN RIVER COUNTY	120119	0226	J
SEBASTIAN, CITY OF	120123	0226	J

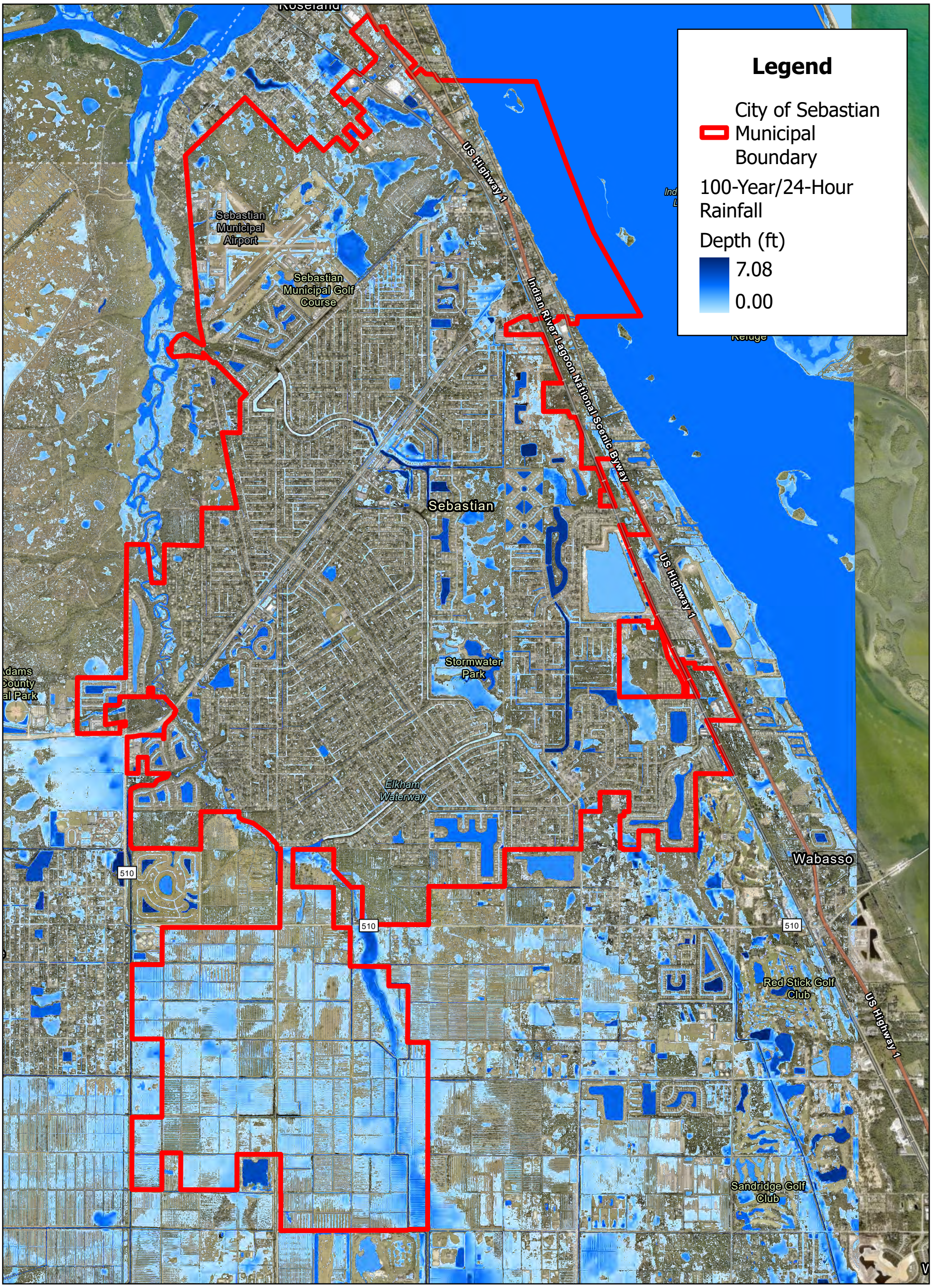
VERSION NUMBER
2.3.3.2

MAP NUMBER
12061C0226J

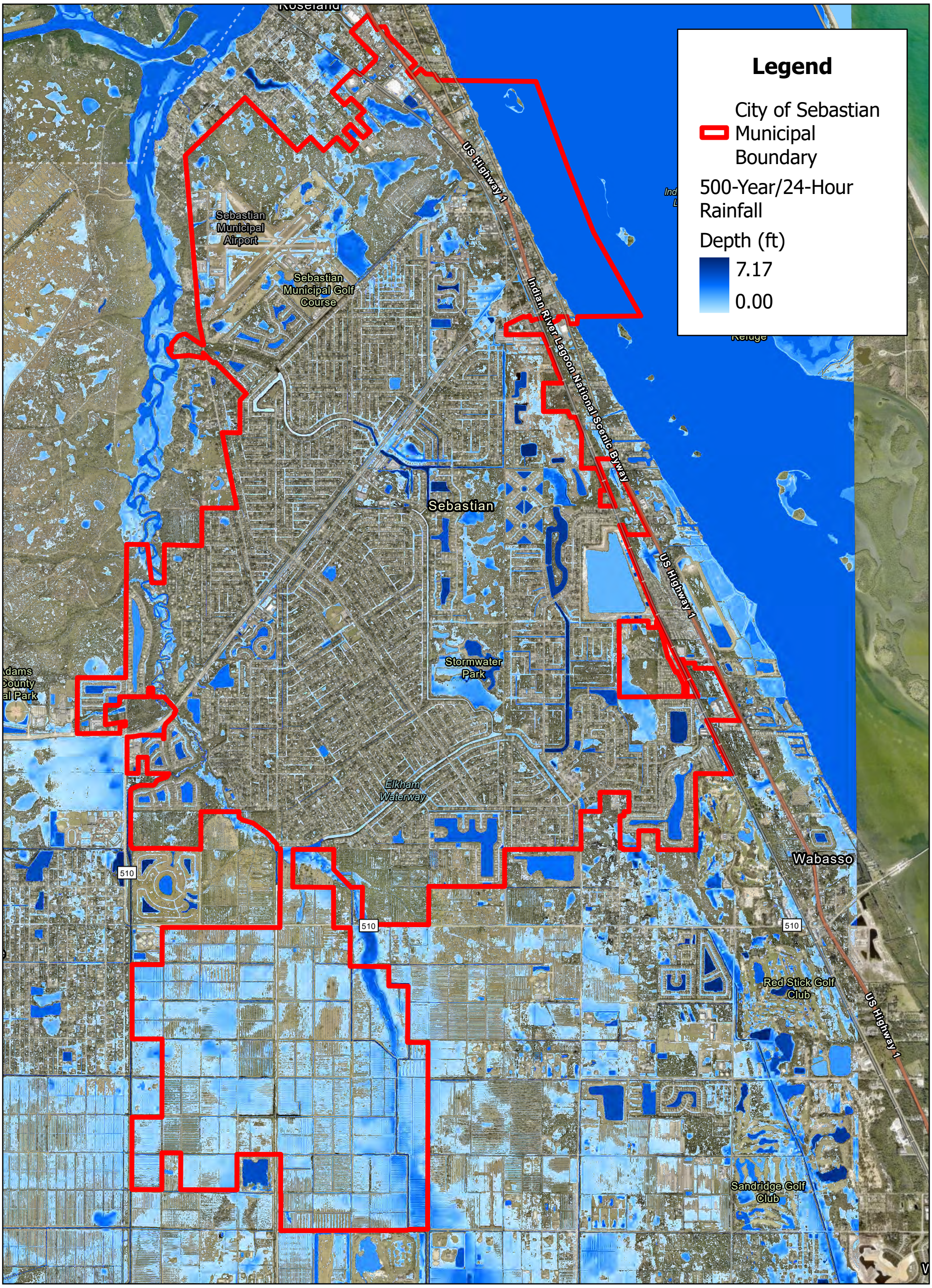
MAP REVISED
JANUARY 26, 2023

APPENDIX E

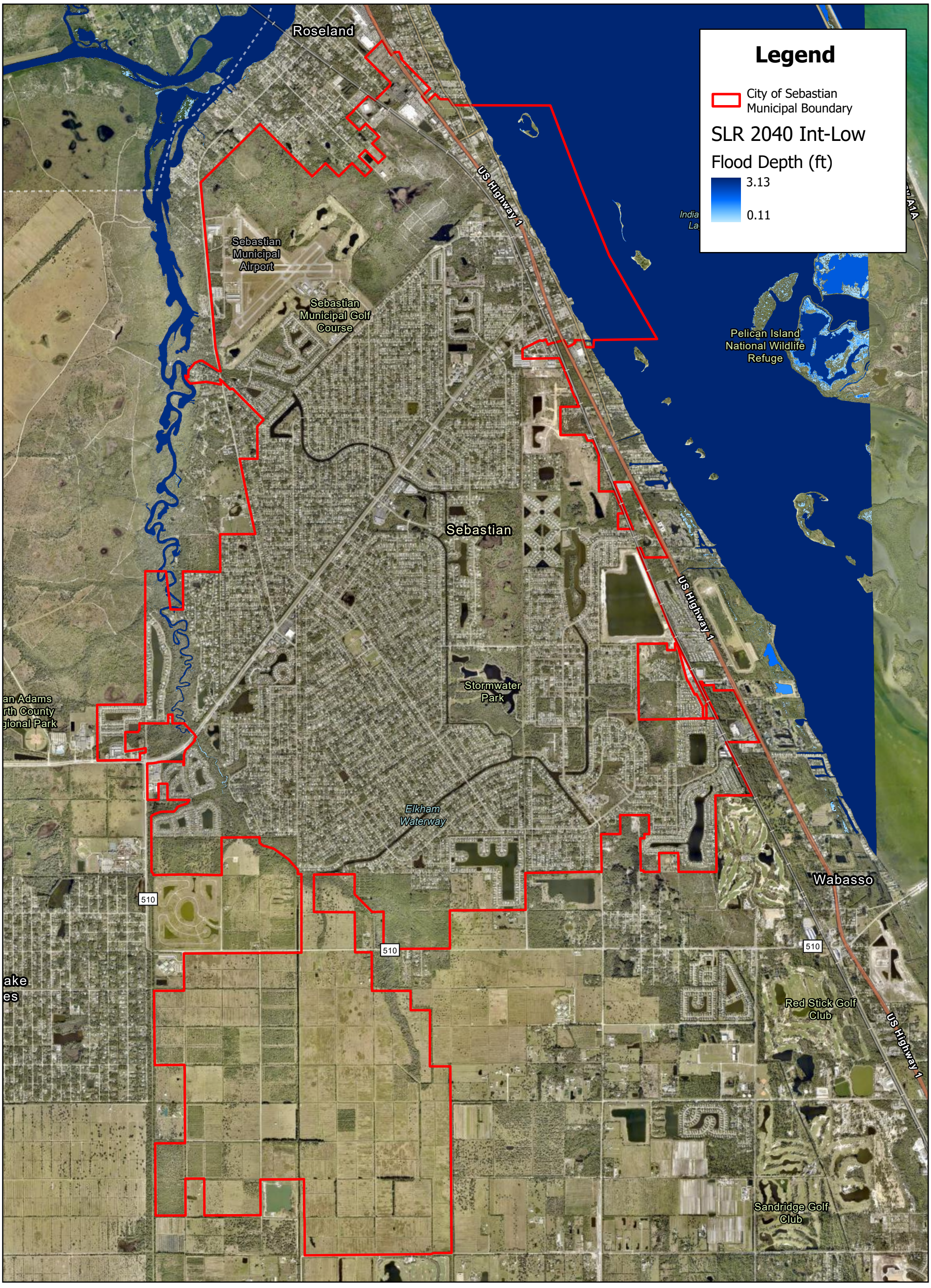
EXPOSURE MAPS



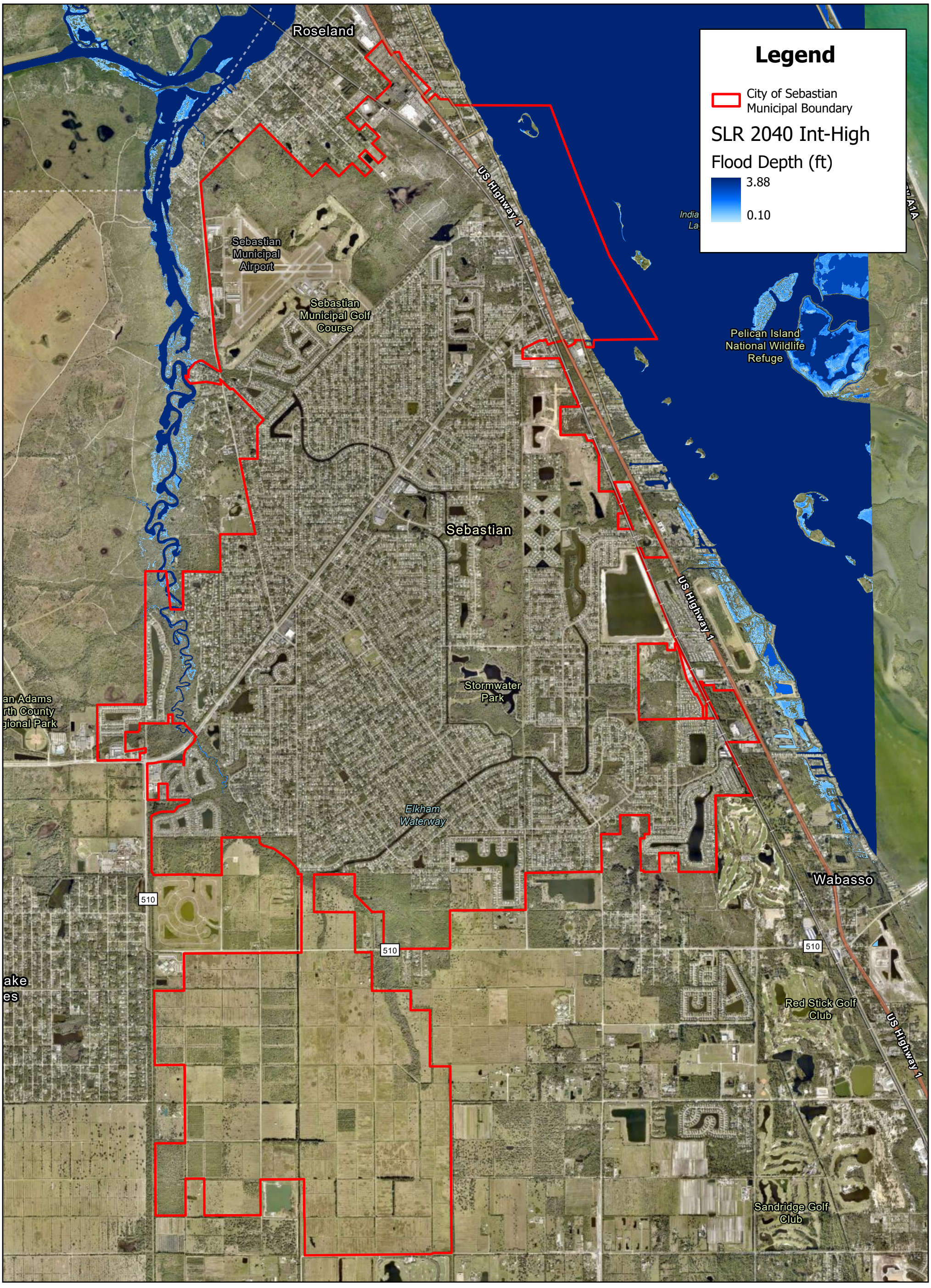
City of Sebastian 100-Year/24-Hour Rainfall	N 0 0.38 0.75 1.5 Miles	Kimley»Horn
Vulnerability Assessment		



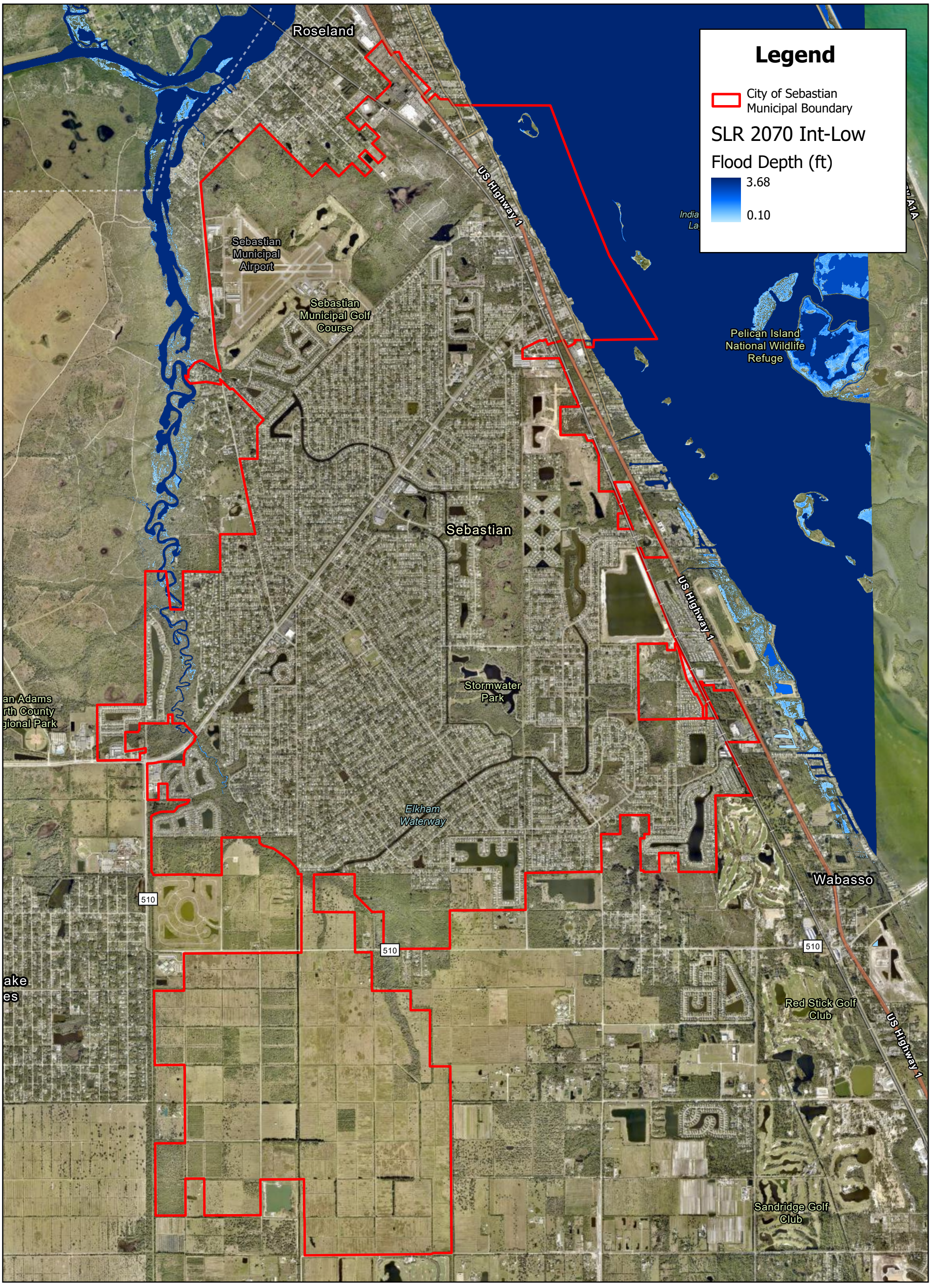
City of Sebastian 500-Year/24-Hour Rainfall	N 0 0.38 0.75 1.5 Miles	Kimley»Horn
Vulnerability Assessment		



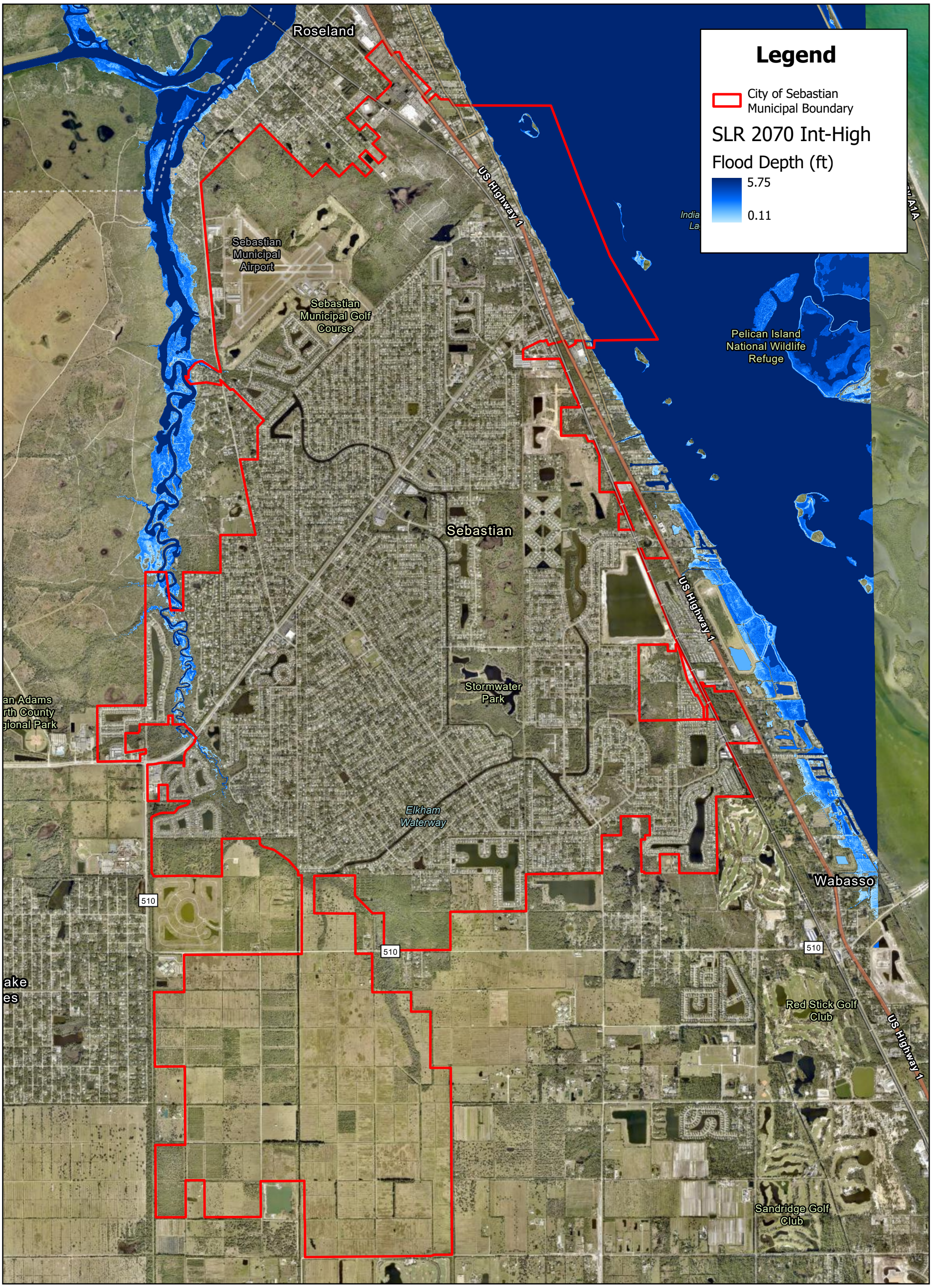
City of Sebastian SLR - 2040 Intermediate-Low	N 0 0.38 0.75 1.5 Miles	Kimley»Horn
Vulnerability Assessment		



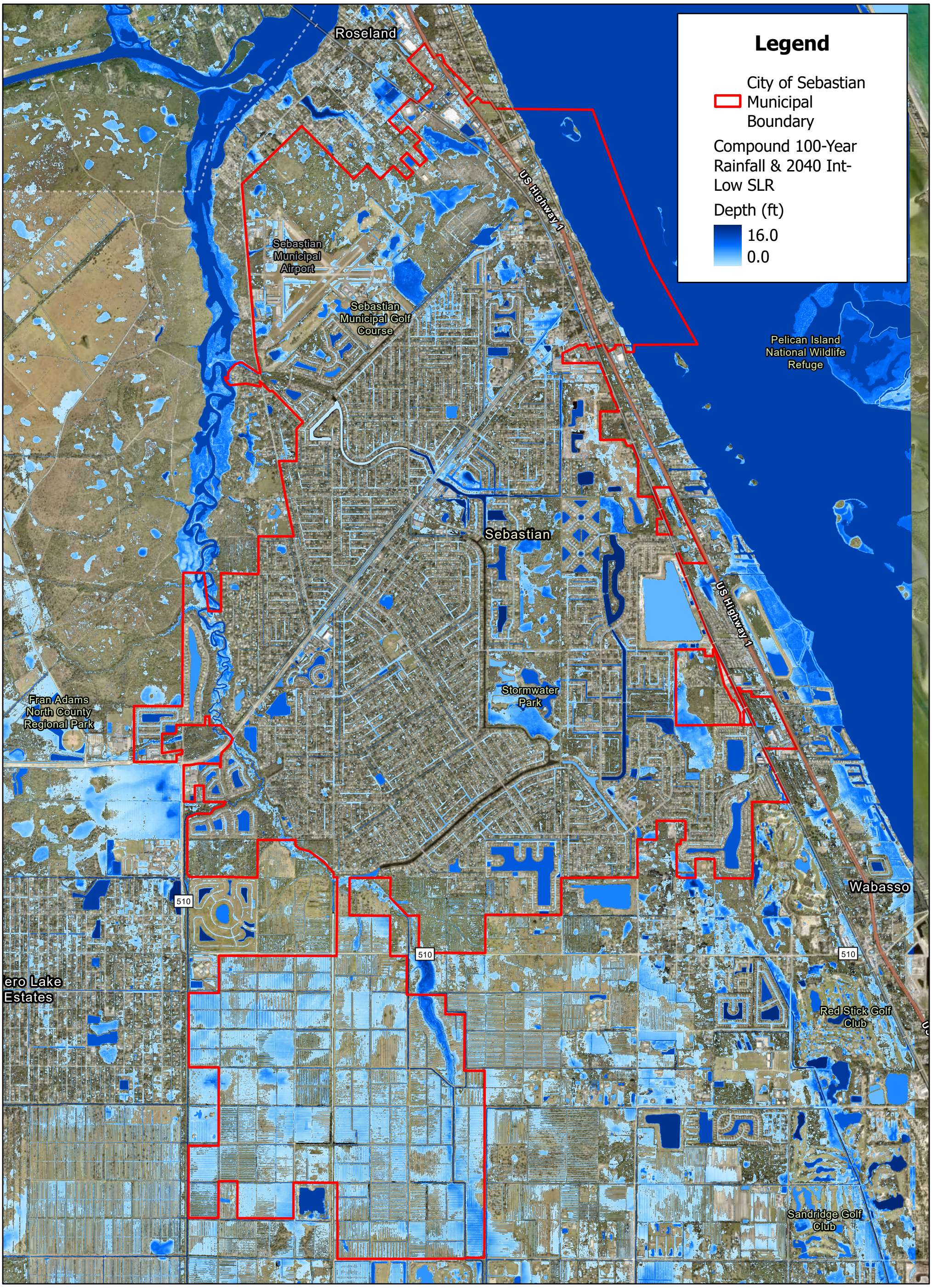
City of Sebastian SLR - 2040 Intermediate-High Vulnerability Assessment	N 0 0.38 0.75 1.5 Miles	Kimley»Horn



City of Sebastian SLR - 2070 Intermediate-Low	N 0 0.38 0.75 1.5 Miles	Kimley»Horn
Vulnerability Assessment		



City of Sebastian SLR - 2070 Intermediate-High	N 0 0.38 0.75 1.5 Miles	Kimley»Horn
Vulnerability Assessment		



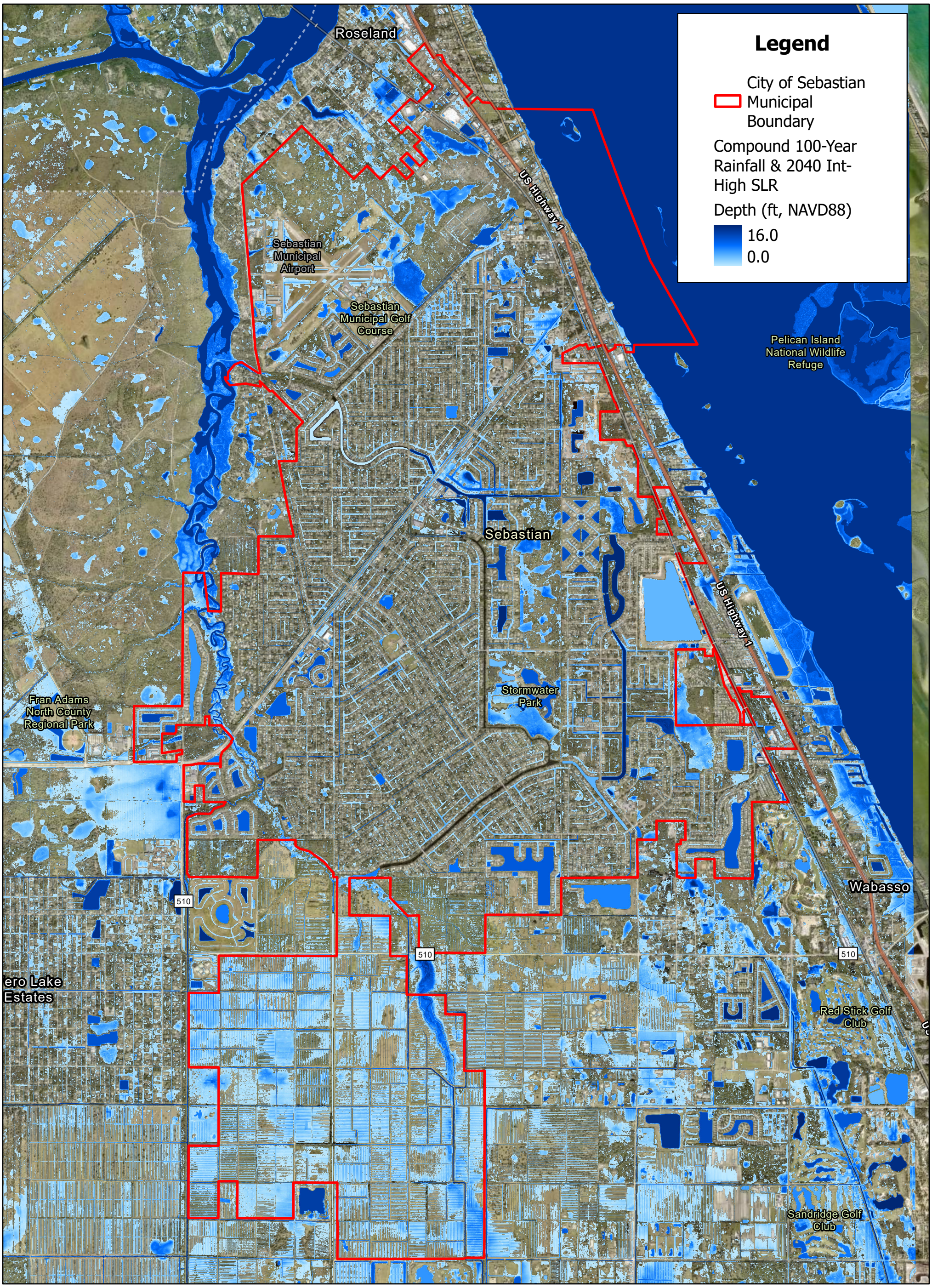
City of Sebastian
Compound 100-Year Rainfall & 2040 Intermediate-Low SLR

Vulnerability Assessment

N

0 0.38 0.75 1.5 Miles

Kimley»Horn



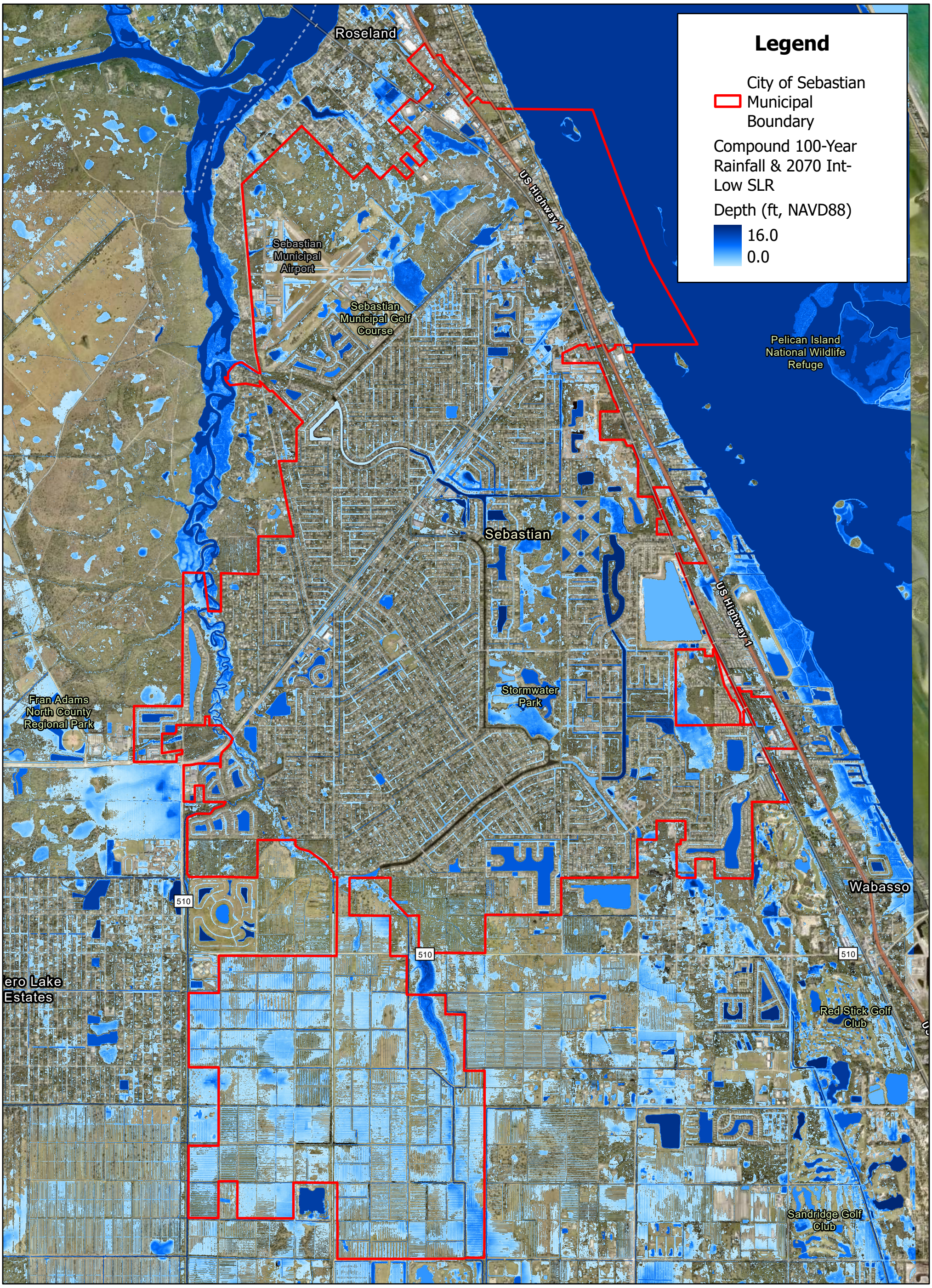
City of Sebastian
Compound 100-Year Rainfall & 2040 Intermediate-High SLR

Vulnerability Assessment

N

0 0.38 0.75 1.5 Miles

Kimley»Horn



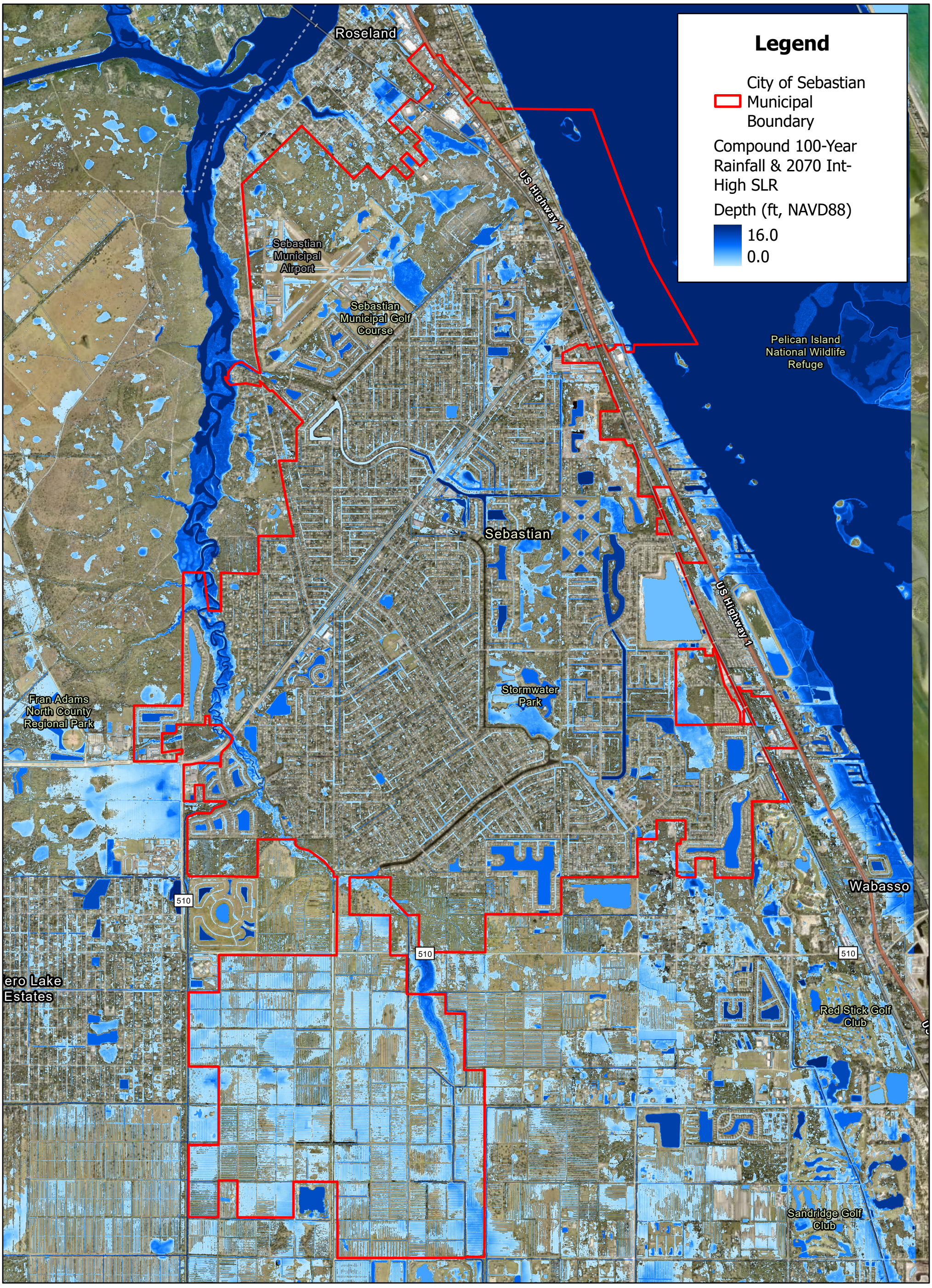
City of Sebastian
Compound 100-Year Rainfall & 2070 Intermediate-Low SLR

Vulnerability Assessment

N

0 0.38 0.75 1.5 Miles

Kimley»Horn



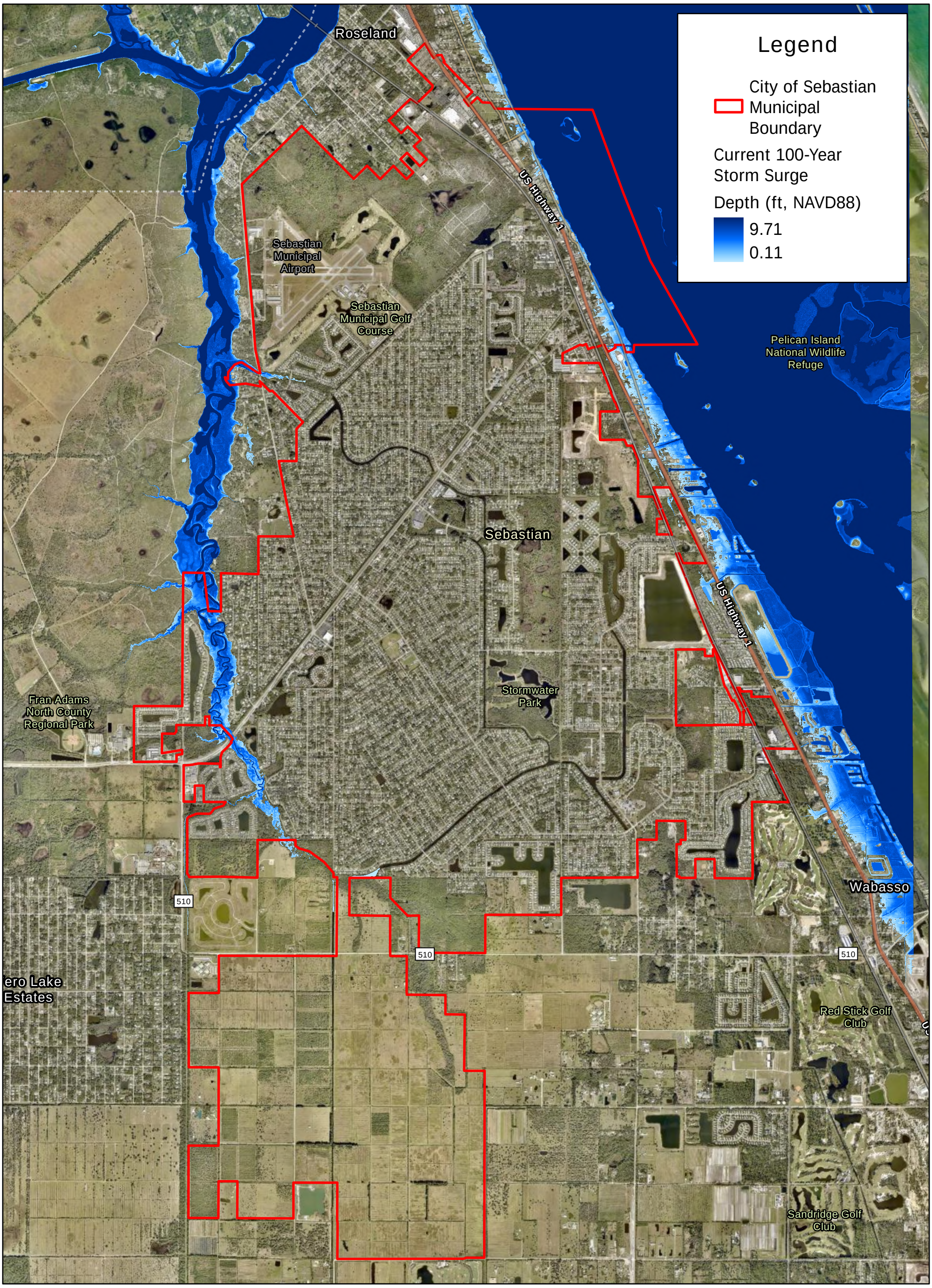
City of Sebastian
Compound 100-Year Rainfall & 2070 Intermediate-High SLR

Vulnerability Assessment

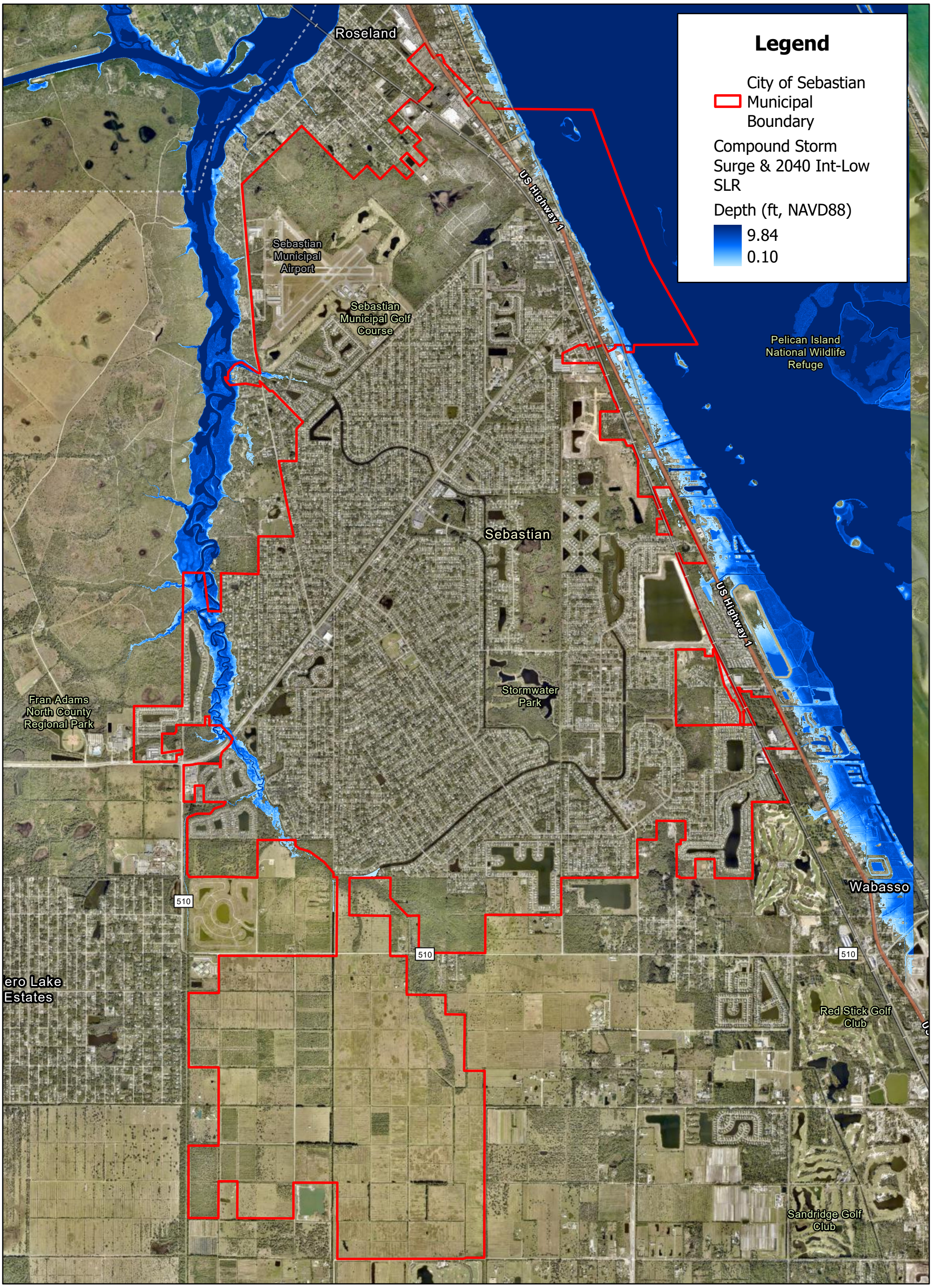
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0 0.38 0.75 1.5 Miles

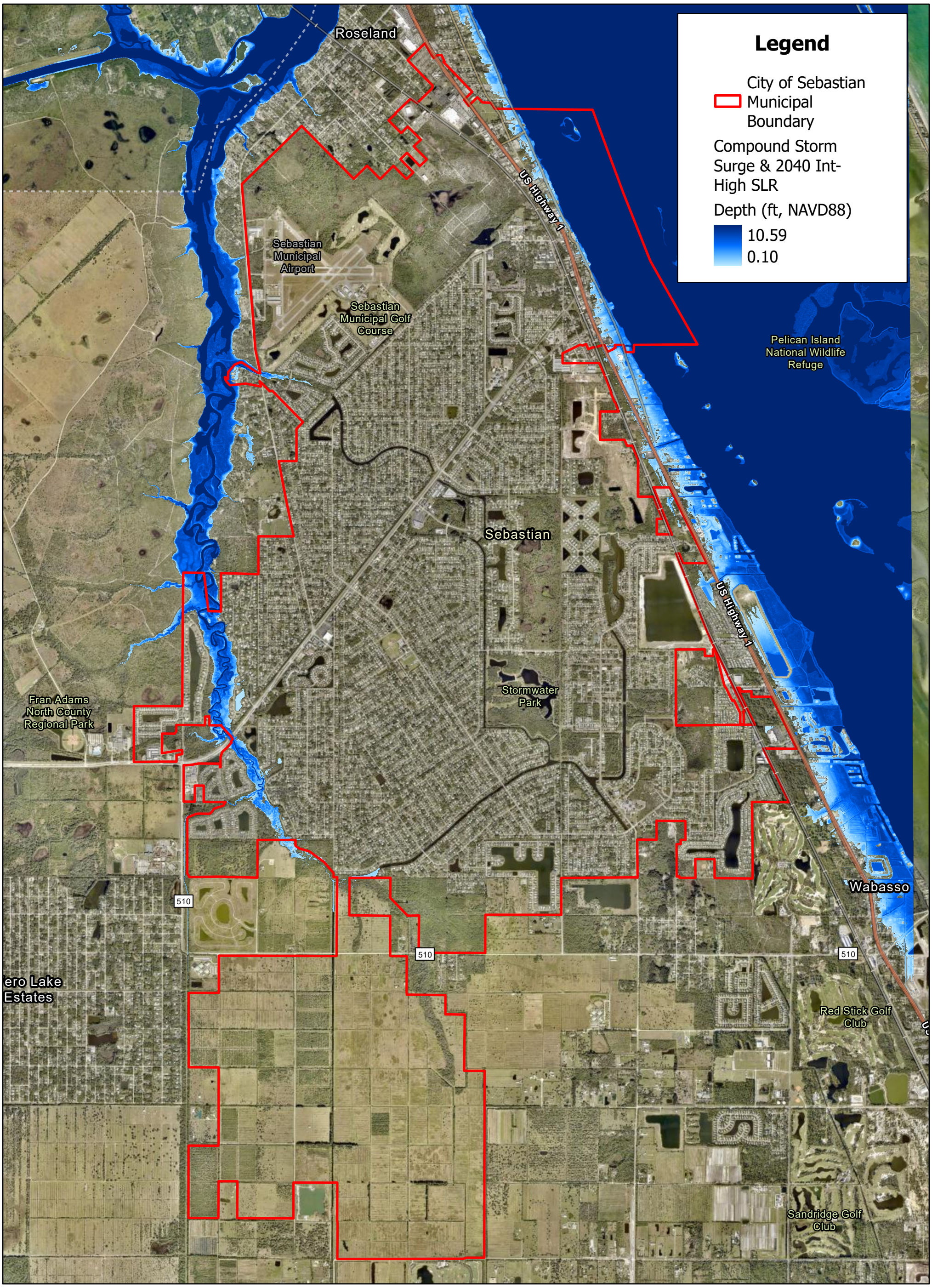
Kimley»Horn



City of Sebastian Current 100-Year Storm Surge	0 0.38 0.75 1.5 Miles	Kimley»Horn
Vulnerability Assessment		



City of Sebastian Compound Storm Surge & 2040 Intermediate-Low SLR Vulnerability Assessment	N 0 0.38 0.75 1.5 Miles	Kimley»Horn



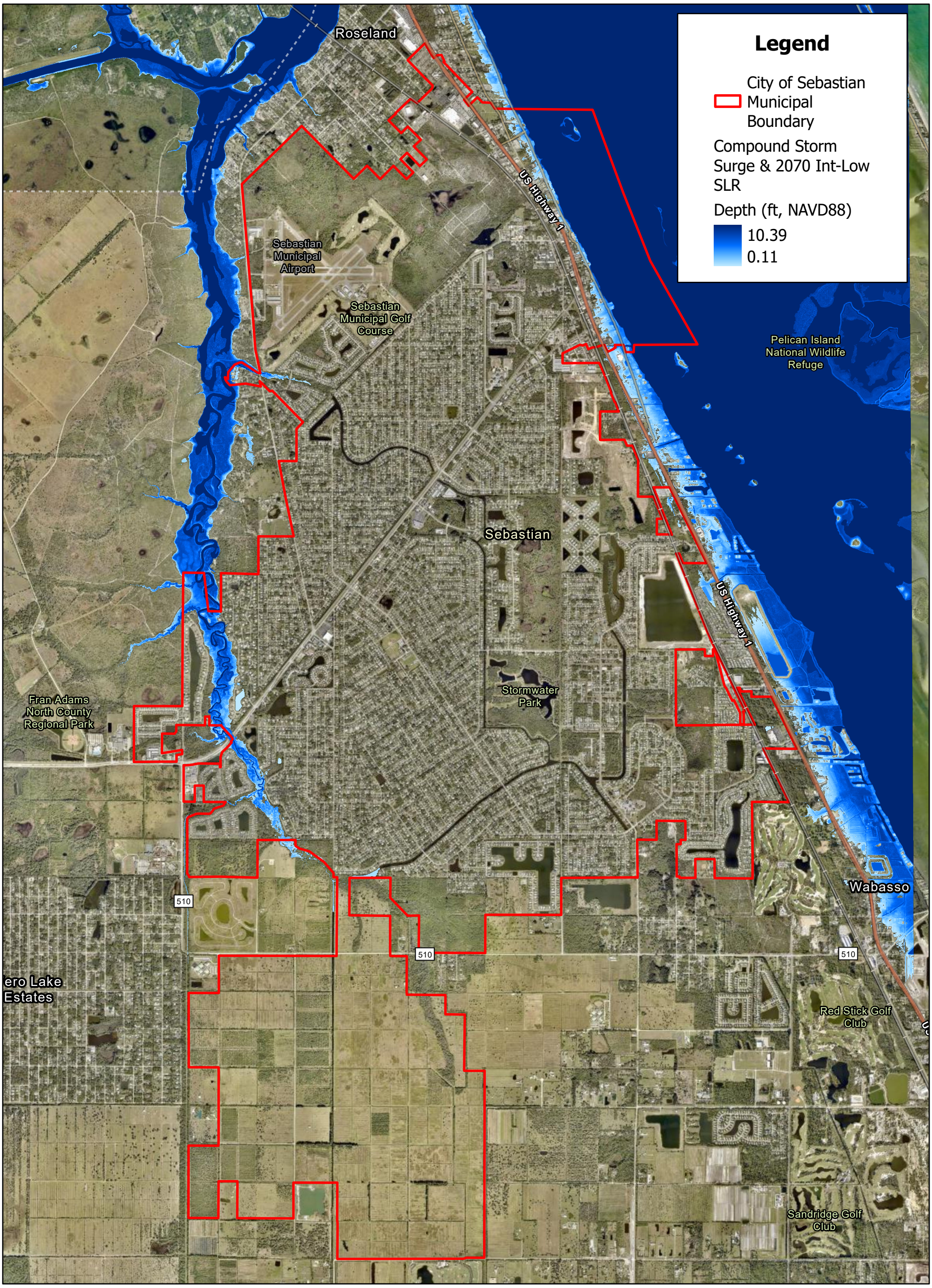
City of Sebastian
Compound Storm Surge & 2040 Intermediate-High SLR

Vulnerability Assessment

N

0 0.38 0.75 1.5 Miles

Kimley»Horn



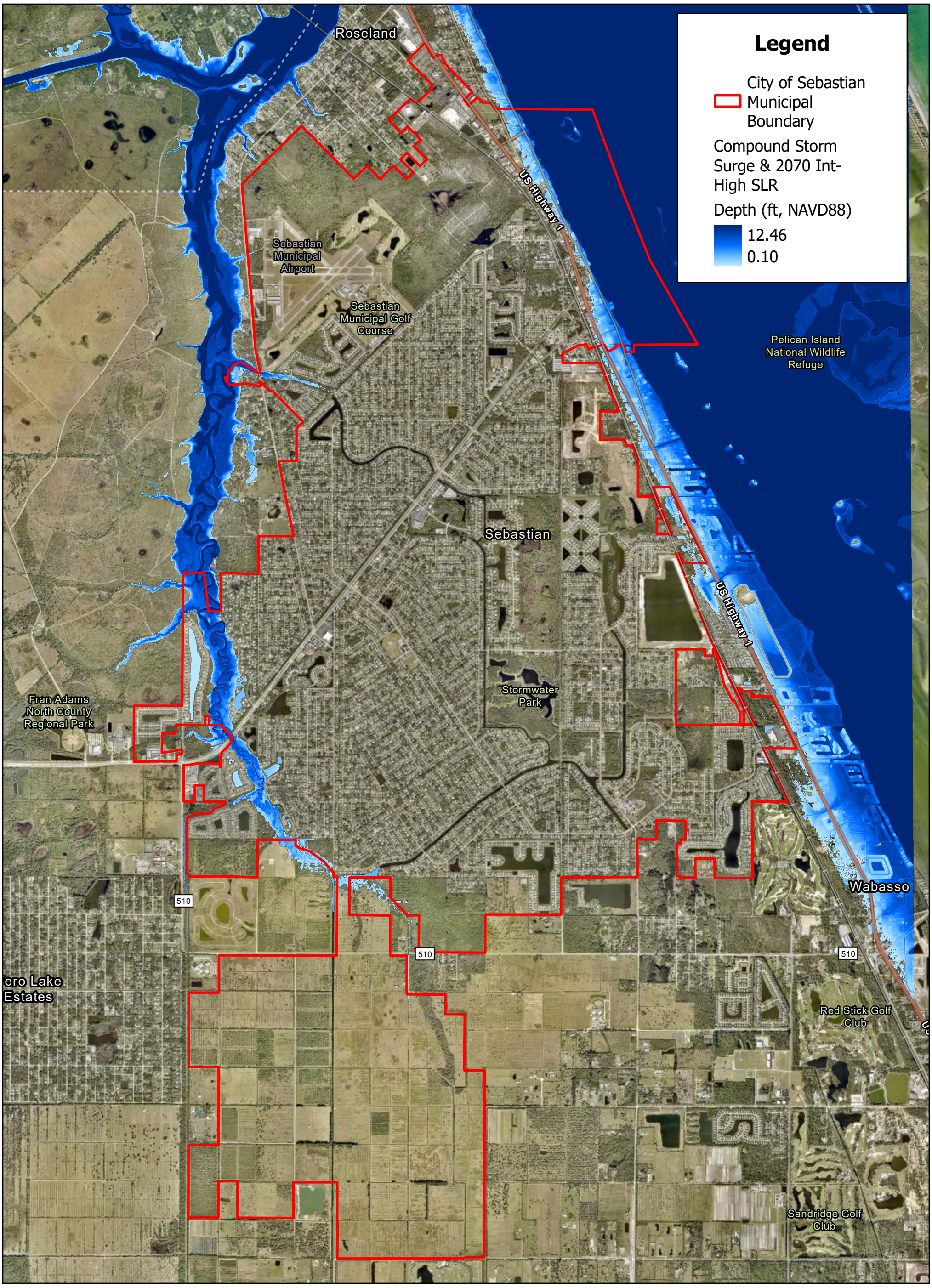
City of Sebastian
Compound Storm Surge & 2070 Intermediate-Low SLR

Vulnerability Assessment

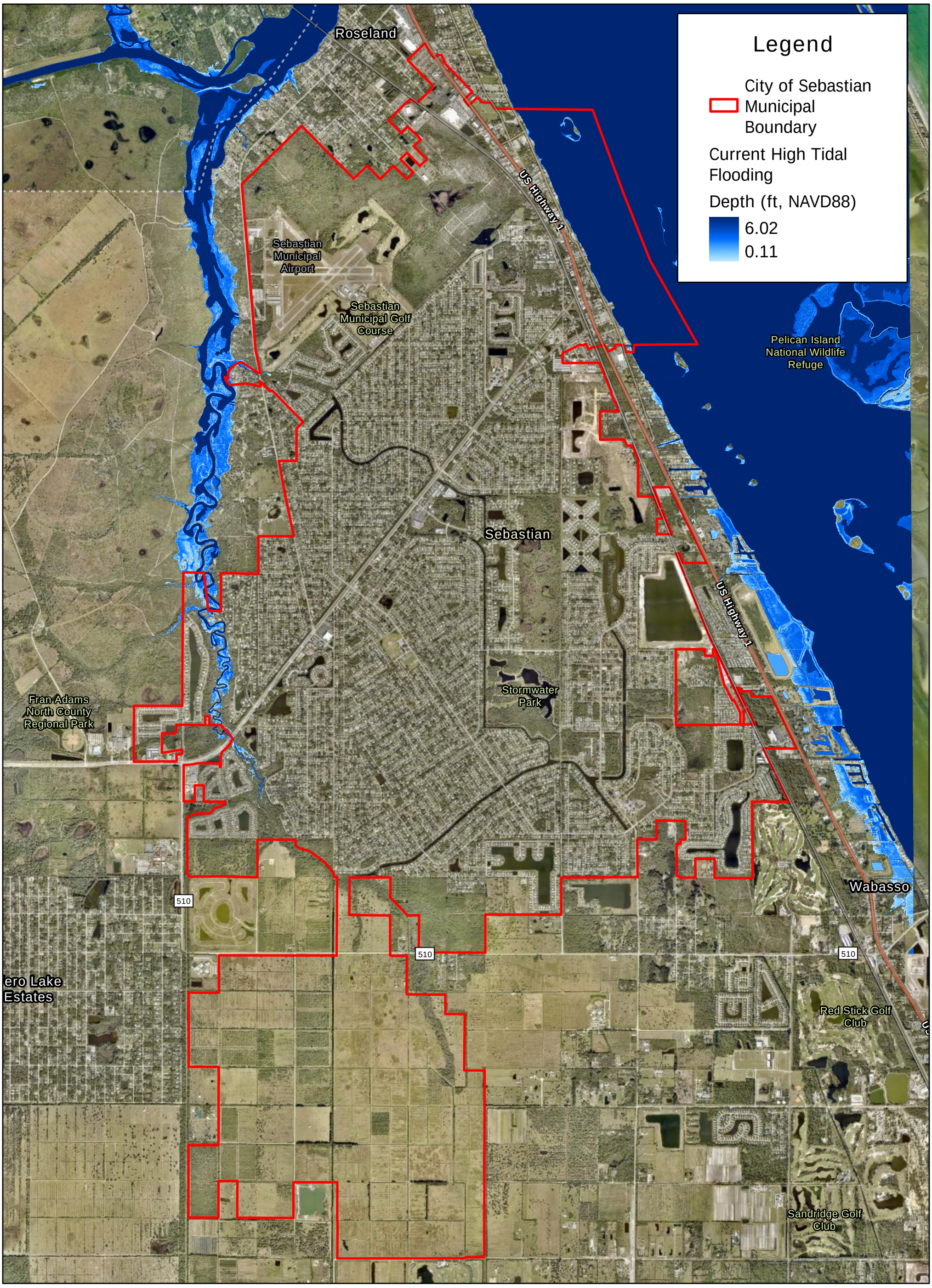
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0 0.38 0.75 1.5 Miles

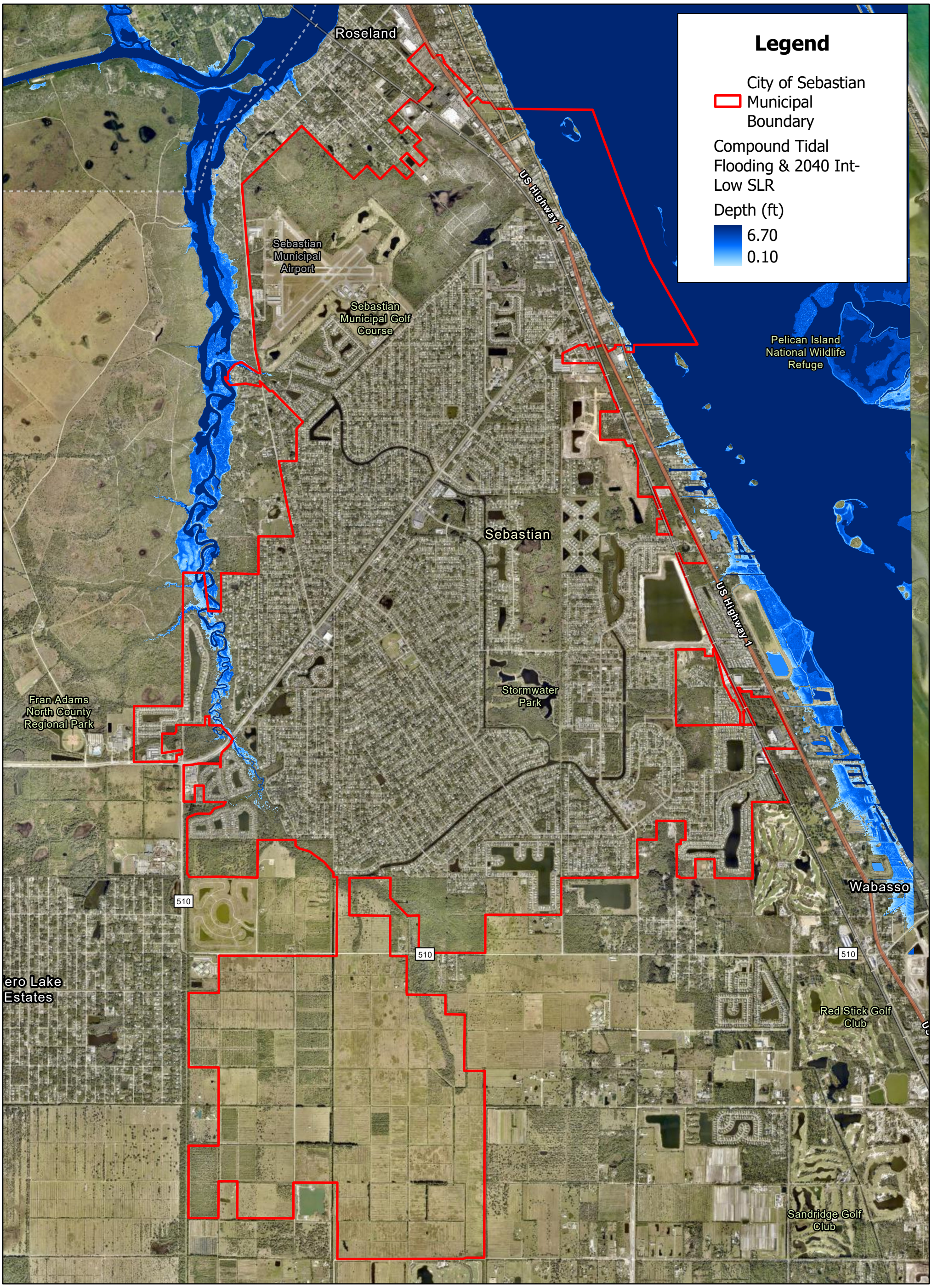
Kimley»Horn



City of Sebastian Compound Storm Surge & 2070 Intermediate-High SLR Vulnerability Assessment	N 0 0.38 0.75 1.5 Miles	Kimley»Horn



City of Sebastian Current High Tidal Flooding	0 0.38 0.75 1.5 Miles	Kimley»Horn
Vulnerability Assessment		



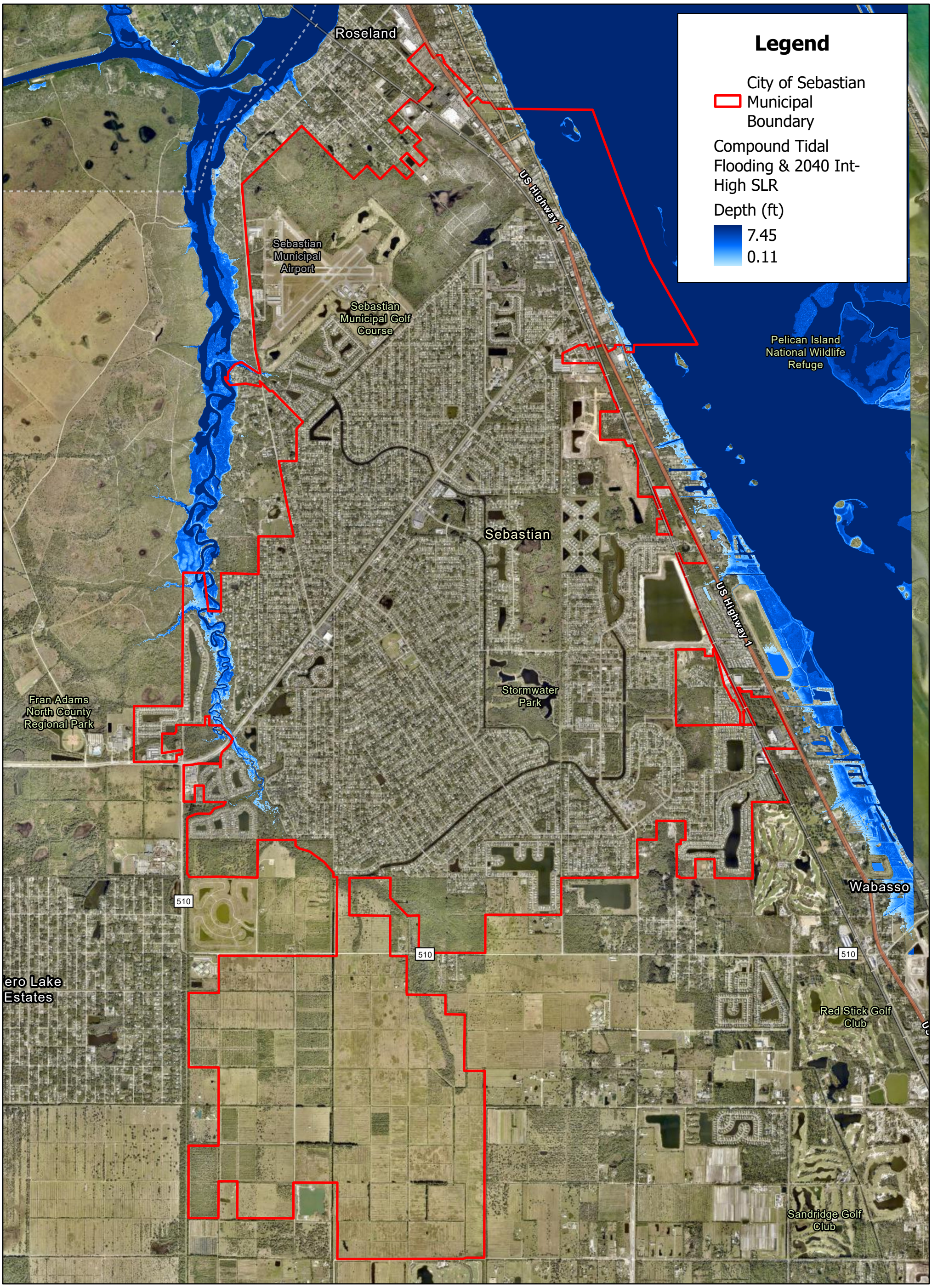
City of Sebastian
Compound Tidal Flooding & 2040 Intermediate-Low SLR

Vulnerability Assessment

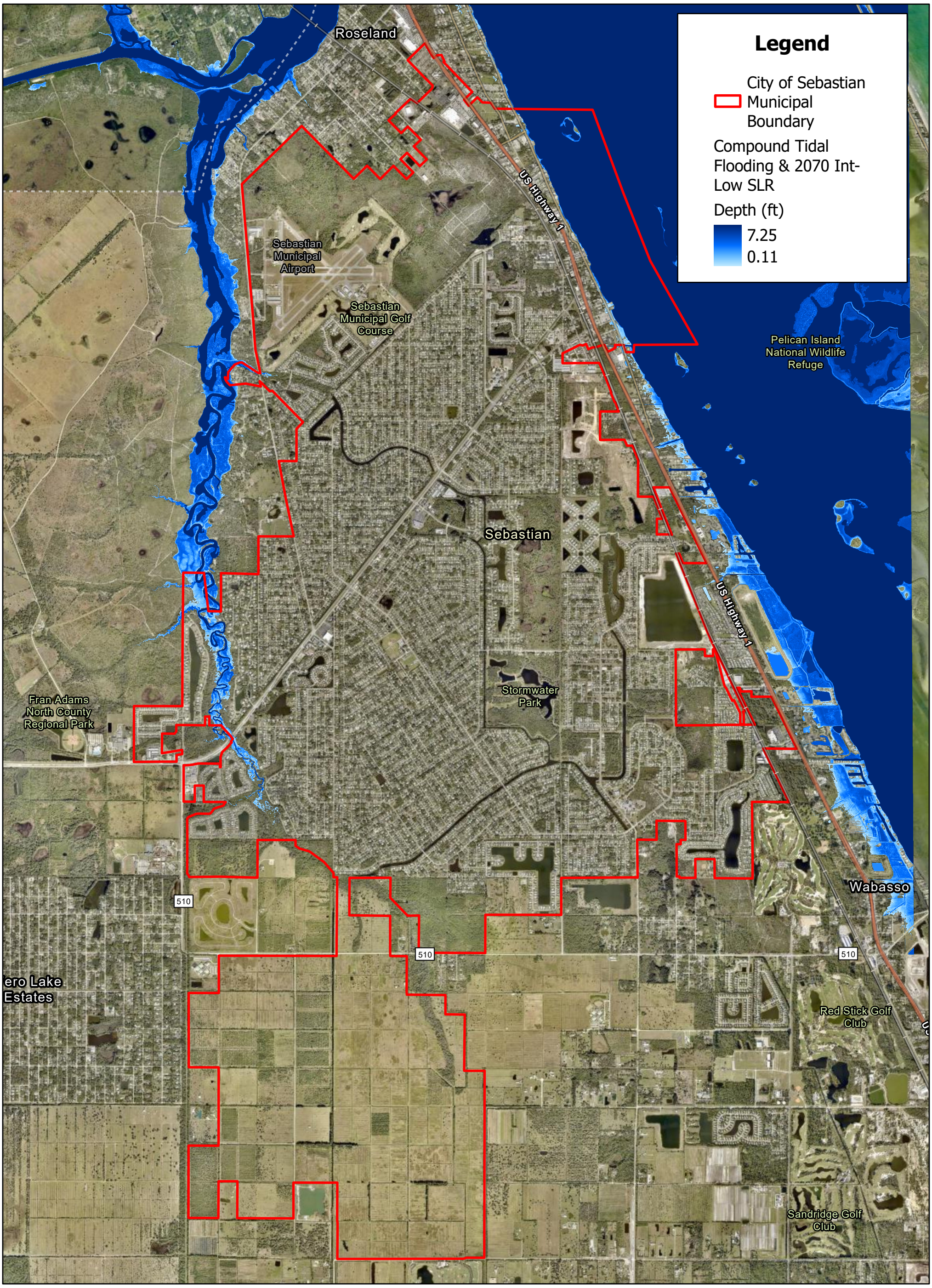
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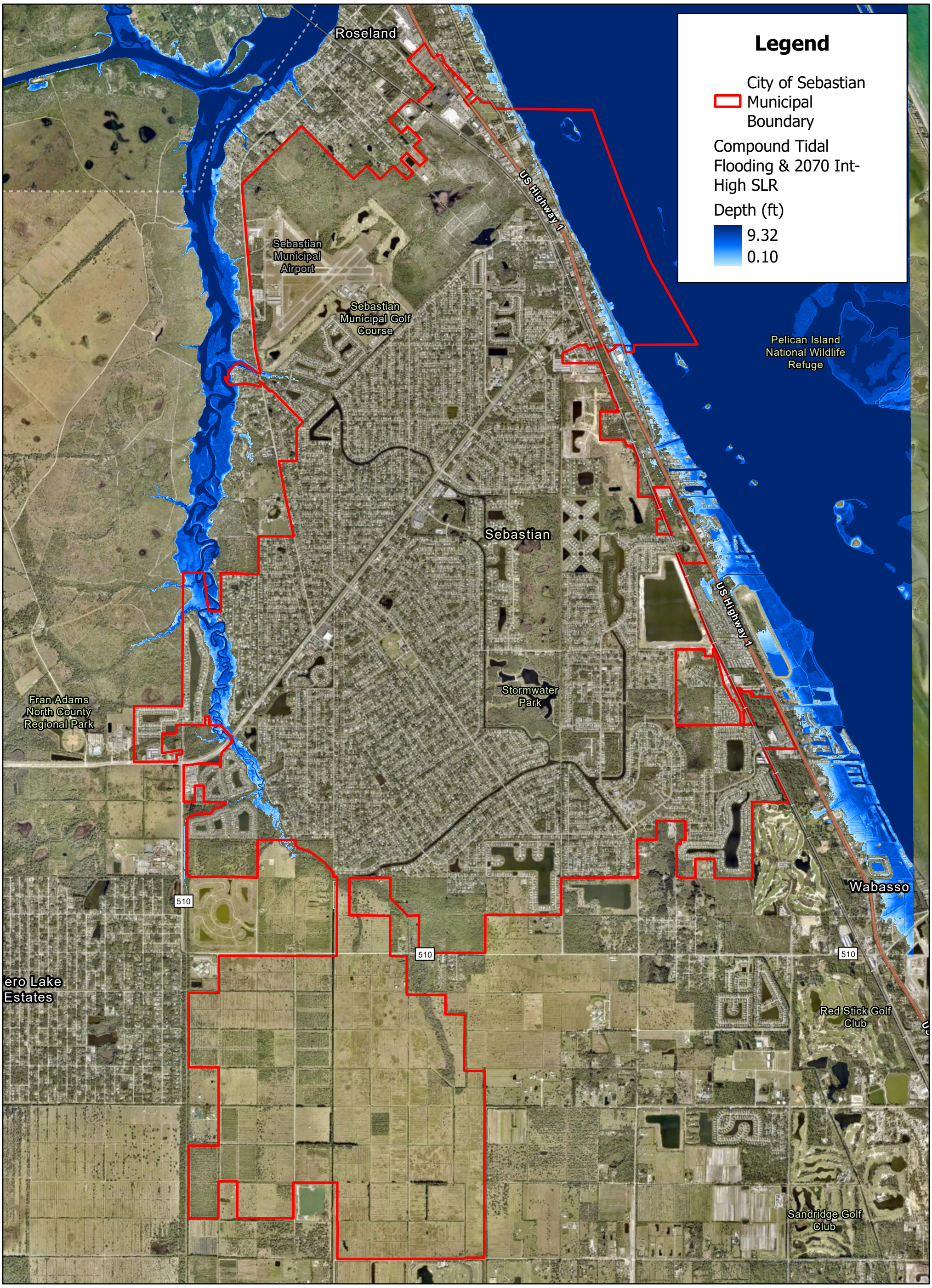
Kimley»Horn



City of Sebastian Compound Tidal Flooding & 2040 Intermediate-High SLR Vulnerability Assessment	N 0 0.38 0.75 1.5 Miles	Kimley»Horn



City of Sebastian Compound Tidal Flooding & 2070 Intermediate-Low SLR Vulnerability Assessment	N 0 0.38 0.75 1.5 Miles	Kimley»Horn



City of Sebastian Compound Tidal Flooding & 2070 Intermediate-High SLR Vulnerability Assessment	N 0 0.38 0.75 1.5 Miles	Kimley»Horn

APPENDIX F

EXPOSURE ANALYSIS TABLES

APPENDIX F – EXPOSURE ANALYSIS TABLES

TRANSPORTATION ASSETS AND EVACUATION ROUTES

Range of Flood Depths	
	No flooding identified in asset footprint
	Flood depths of 0.0' to 1.5'
	Flood depths of 1.5' to 3.0'
	Flood depths of 3.0' to 4.0'
	Flood depths greater than 4.0'

Table F1: Exposure Analysis of Transportation Assets and Evacuation Routes – Flood Depths

		Flood Scenarios - Flood Depths (ft)																		
		Rainfall						Sea Level Rise				Tidal					Storm Surge				
Asset Name	Asset Type	100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Sebastian-Roseland Municipal Airport	Airports	7.64	7.64	7.64	7.64	7.64	7.64	-	-	-	-	-	-	-	-	0.22	0.61	0.74	1.49	1.29	3.36
Schumann Lake Bridge (W)	Bridges	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Lake Bridge (E)	Bridges	1.37	1.37	1.37	1.37	1.37	1.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St Bridge Northwest	Bridges	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St Bridge Southeast	Bridges	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Periwinkle Dr Bridge Northwest	Bridges	0.23	0.62	0.23	0.23	0.23	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Periwinkle Dr Bridge Southeast	Bridges	0.23	0.62	0.23	0.23	0.23	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St Bridge West	Bridges	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St Bridge East	Bridges	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Englar Dr Bridge West	Bridges	-	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Englar Dr Bridge East	Bridges	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr Bridge North	Bridges	0.28	0.28	0.28	0.28	0.28	0.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr Bridge South	Bridges	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fleming St Bridge North	Bridges	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fleming St Bridge South	Bridges	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Main St Railroad	Major Roadways	0.84	0.84	0.84	0.84	0.84	0.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr Railroad	Major Roadways	0.15	0.16	0.15	0.15	0.15	0.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX F – EXPOSURE ANALYSIS TABLES

		Flood Scenarios - Flood Depths (ft)																		
		Rainfall						Sea Level Rise				Tidal					Storm Surge				
Asset Name	Asset Type	100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Barber St Railroad	Major Roadways	1.24	1.24	1.24	1.24	1.24	1.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Main St and Louisiana Ave	Major Roadways	1.3	1.3	1.3	1.3	1.3	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Main St and US Highway 1	Major Roadways	0.23	0.23	0.23	0.23	0.23	0.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr and Barber St	Major Roadways	0.57	0.57	0.57	0.57	0.57	0.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St and Sebastian Blvd	Major Roadways	0.64	0.64	0.64	0.64	0.64	0.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Main St and Indian River Dr	Major Roadways	0.02	0.02	0.02	0.02	0.02	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	0.41
Main St and Gibson St	Major Roadways	1.23	1.24	1.23	1.23	1.23	1.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Main St and Easy St	Major Roadways	0.36	0.36	0.36	0.36	0.36	0.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Main St and Airport Dr E	Major Roadways	0.38	0.38	0.38	0.38	0.38	0.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St and Pelican Island Pl	Major Roadways	0.88	0.88	0.88	0.88	0.88	0.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St and Nebraska Cir	Major Roadways	0.51	0.51	0.51	0.51	0.51	0.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St and Joy Haven Dr	Major Roadways	0.22	0.22	0.22	0.22	0.22	0.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St and Concha Dr	Major Roadways	0.11	0.11	0.11	0.11	0.11	0.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St and Englar Dr	Major Roadways	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St and Wimbrow Dr	Major Roadways	0.29	0.29	0.29	0.29	0.29	0.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr and Englar Dr	Major Roadways	0.05	0.05	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr and Empress Ave	Major Roadways	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr and S Easy St	Major Roadways	0.5	0.5	0.5	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and Roseland Rd	Major Roadways	0.64	0.64	0.64	0.64	0.64	0.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and S Fleming St	Major Roadways	0.45	0.45	0.45	0.45	0.45	0.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and S Wimbrow Dr	Major Roadways	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX F – EXPOSURE ANALYSIS TABLES

		Flood Scenarios - Flood Depths (ft)																		
		Rainfall						Sea Level Rise				Tidal					Storm Surge				
Asset Name	Asset Type	100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Sebastian Blvd and Easy St	Major Roadways	0.19	0.19	0.19	0.19	0.19	0.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and Delaware Ave	Major Roadways	0.36	0.36	0.36	0.36	0.36	0.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and S Wimbrow Dr	Major Roadways	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and Old Dixie Hwy	Major Roadways	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and Railroad (1)	Major Roadways	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and US Hwy 1 (1)	Major Roadways	0.27	0.27	0.27	0.27	0.27	0.27	-	-	-	-	-	-	-	-	-	-	-	0.28	-	2.15
Sebastian Blvd and Ashbury Blvd	Major Roadways	2.49	2.49	2.49	2.49	2.49	2.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and Railroad (2)	Major Roadways	0.28	0.28	0.28	0.27	0.28	0.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and US Hwy 1 (2)	Major Roadways	0.28	0.28	0.28	0.28	0.28	0.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
US Hwy 1 and Coolidge St	Major Roadways	1.37	1.37	1.37	1.37	1.37	1.37	-	-	-	-	-	-	-	-	-	0.44	0.57	1.32	1.12	3.19
Indian River Dr and Washington St	Major Roadways	0.41	0.41	0.41	0.41	0.41	0.41	-	-	-	-	-	-	-	-	0.71	1.1	1.23	1.98	1.78	3.85
Indian River Dr and Martin Ave	Major Roadways	0.05	0.05	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	0.92	1.31	1.44	2.19	1.99	4.06
Indian River Dr and Cleveland St	Major Roadways	0.38	0.38	0.38	0.38	0.38	1.79	-	-	-	-	-	0.11	0.86	0.66	2.73	3.12	3.25	4	3.8	5.87
Indian River Dr and Coolidge St	Major Roadways	0.35	0.35	0.35	0.35	0.35	1.78	-	-	-	-	-	0.22	0.97	0.77	2.84	3.23	3.36	4.11	3.91	5.98
Sebastian Blvd and Indian River Dr	Major Roadways	0.55	0.55	0.55	0.56	0.55	2.04	-	-	-	-	-	0.37	1.12	0.92	2.99	3.38	3.51	4.26	4.06	6.13
Indian River Dr and Harrison St	Major Roadways	0.61	0.61	0.62	0.61	0.61	2.09	-	-	-	-	-	0.48	1.23	1.03	3.1	3.49	3.62	4.37	4.17	6.24
US Hwy 1 and Jefferson St	Major Roadways	1.42	1.42	1.42	1.42	1.42	1.42	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7
US Hwy 1 and Davis St	Major Roadways	0.04	0.04	0.04	0.04	0.04	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-
US Hwy 1 and Jackson St	Major Roadways	0.4	0.4	0.4	0.4	0.4	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Working Waterfront North Dock	Marinas	3.58	4.3	4.87	5.53	5.34	7.01	1.73	2.48	2.28	4.35	4.62	5.3	6.05	5.85	7.92	8.31	8.44	9.19	8.99	11.06
Working Waterfront Dock	Marinas	3.58	4.3	4.87	5.53	5.34	7.01	1.73	2.48	2.28	4.35	4.62	5.3	6.05	5.85	7.92	8.31	8.44	9.19	8.99	11.06

APPENDIX F – EXPOSURE ANALYSIS TABLES

		Flood Scenarios - Flood Depths (ft)																		
		Rainfall						Sea Level Rise				Tidal					Storm Surge				
Asset Name	Asset Type	100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Sebastian Rotary Club Boardwalk	Marinas	3.58	4.3	4.87	5.53	5.34	7.01	1.73	2.48	2.28	4.35	4.62	5.3	6.05	5.85	7.92	8.31	8.44	9.19	8.99	11.06
Main St and Indian River Dr Dock	Marinas	3.58	4.3	4.87	5.53	5.34	7.01	1.73	2.48	2.28	4.35	4.62	5.3	6.05	5.85	7.92	8.31	8.44	9.19	8.99	11.06
Sebastian Yacht Club Dock	Marinas	3.58	4.3	4.87	5.53	5.34	7.01	1.73	2.48	2.28	4.35	4.62	5.3	6.05	5.85	7.92	8.31	8.44	9.19	8.99	11.06
Sebastian Blvd E and Indian River Dr Dock	Marinas	3.58	4.3	4.87	5.53	5.34	7.01	1.73	2.48	2.28	4.35	4.62	5.3	6.05	5.85	7.92	8.31	8.44	9.19	8.99	11.06
Twin Piers North Dock	Marinas	3.58	4.3	4.87	5.53	5.34	7.01	1.73	2.48	2.28	4.35	4.62	5.3	6.05	5.85	7.92	8.31	8.44	9.19	8.99	11.06
Twin Piers South Dock	Marinas	3.58	4.3	4.87	5.53	5.34	7.01	1.73	2.48	2.28	4.35	4.62	5.3	6.05	5.85	7.92	8.31	8.44	9.19	8.99	11.06

APPENDIX F – EXPOSURE ANALYSIS TABLES

CRITICAL INFRASTRUCTURE

Range of Flood Depths	
	No flooding identified in asset footprint
	Flood depths of 0.0' to 1.5'
	Flood depths of 1.5' to 3.0'
	Flood depths of 3.0' to 4.0'
	Flood depths greater than 4.0'

Table F2: Exposure Analysis of Critical Infrastructure – Flood Depths

		Flood Scenarios - Flood Depths (ft)																		
		Rainfall						Sea Level Rise				Tidal					Storm Surge				
Asset Name	Asset Type	100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Stormwater Park Pump Station	Pump Station	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coolidge St Baffle Box	Stormwater Treatment Facilities	0.23	0.23	0.23	0.23	0.23	1.66	-	-	-	-	-	-	0.68	0.48	2.55	2.94	3.07	3.82	3.62	5.69
Martin Ave Baffle Box	Stormwater Treatment Facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Washington St Baffle Box	Stormwater Treatment Facilities	0.35	0.35	0.35	0.35	0.35	0.35	-	-	-	-	-	-	-	-	0.33	0.72	0.85	1.6	1.4	3.47
Cleveland St Baffle Box	Stormwater Treatment Facilities	0.09	0.09	0.09	0.09	0.09	0.09	-	-	-	-	-	-	-	-	0.17	0.56	0.69	1.44	1.24	3.31
Davis St Baffle Box	Stormwater Treatment Facilities	-	-	-	-	-	0.01	-	-	-	-	-	-	-	-	1.96	2.35	2.48	3.23	3.03	5.1
Fisherman's Landing Baffle Box	Stormwater Treatment Facilities	0.82	0.82	0.82	0.82	0.82	2.16	-	-	-	-	-	0.56	1.31	1.11	3.18	3.57	3.7	4.45	4.25	6.32
Indian River Dr Baffle Box (1)	Stormwater Treatment Facilities	1.54	1.54	1.54	1.54	1.54	1.54	-	-	-	-	-	-	-	-	1.88	2.27	2.4	3.15	2.95	5.02
Indian River Dr Baffle Box (2)	Stormwater Treatment Facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	-	2.06
Indian River Dr Baffle Box (3)	Stormwater Treatment Facilities	1.39	1.39	1.39	1.39	1.39	1.39	-	-	-	-	-	-	-	-	-	-	-	0.82	0.62	2.69

APPENDIX F – EXPOSURE ANALYSIS TABLES

		Flood Scenarios - Flood Depths (ft)																		
		Rainfall						Sea Level Rise				Tidal					Storm Surge			
Asset Name	Asset Type	100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Riverview Park Baffle Box	Stormwater Treatment Facilities	0.54	0.54	0.54	0.69	0.54	2.18	-	-	-	-	-	0.68	1.43	1.23	3.3	3.69	3.82	4.57	4.37	6.44

APPENDIX F – EXPOSURE ANALYSIS TABLES

CRITICAL COMMUNITY AND EMERGENCY FACILITIES

Range of Flood Depths	
	No flooding identified in asset footprint
	Flood depths of 0.0' to 1.5'
	Flood depths of 1.5' to 3.0'
	Flood depths of 3.0' to 4.0'
	Flood depths greater than 4.0'

Table F3: Exposure Analysis of Critical Community and Emergency Facilities – Flood Depths

		Flood Scenarios - Flood Depths (ft)																			
		Rainfall						Sea Level Rise				Tidal					Storm Surge				
Asset Name	Asset Type	100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Sebastian Community Center	Community Centers	0.21	0.21	0.21	0.21	0.21	0.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian City Hall	Local Government Facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Police Department	Law Enforcement Facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Yacht Club	Community Centers	-	-	-	-	-	0.97	-	-	-	-	-	-	0.18	-	2.05	2.44	2.57	3.32	3.12	5.19

APPENDIX F – EXPOSURE ANALYSIS TABLES

NATURAL, CULTURAL, AND HISTORICAL RESOURCES

Range of Flood Depths	
	No flooding identified in asset footprint
	Flood depths of 0.0' to 1.5'
	Flood depths of 1.5' to 3.0'
	Flood depths of 3.0' to 4.0'
	Flood depths greater than 4.0'

Table F4: Exposure Analysis of Natural, Cultural, and Historical Resources – Flood Depths

		Flood Scenarios - Flood Depths (ft)																		
		Rainfall						Sea Level Rise				Tidal					Storm Surge				
Asset Name	Asset Type	100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Hardee Oak Tree	Historic Sites	0.69	0.69	0.69	0.69	0.69	0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	1.16
Vickers Store	Historic Sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Walter's Garage (same as Vickers Store)	Historic Sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian School (same as Sebastian City Hall)	Historic Sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V. Braddock House	Historic Sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S. Vickers House	Historic Sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P. Lawson House	Historic Sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Old Town Hall	Historic Sites	0.17	0.17	0.17	0.17	0.17	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M. Braddock House	Historic Sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7
Woman's Club	Historic Sites	0.26	0.25	0.25	0.25	0.26	0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P. Stevenson House	Historic Sites	0.02	0.02	0.02	0.02	0.02	1.45	-	-	-	-	-	-	0.62	0.42	2.49	2.88	3.01	3.76	3.56	5.63
C. Taylor House	Historic Sites	0.26	0.26	0.26	0.26	0.26	0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A. Hancock House	Historic Sites	0.85	0.85	0.85	0.85	0.85	0.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX F – EXPOSURE ANALYSIS TABLES

		Flood Scenarios - Flood Depths (ft)																			
		Rainfall						Sea Level Rise				Tidal					Storm Surge				
Asset Name	Asset Type	100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
J. Gray House	Historic Sites	0.67	0.67	0.67	0.67	0.67	0.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Day House	Historic Sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E. Suddard House	Historic Sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E. Sembler House	Historic Sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F. Carpenter House	Historic Sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O. Carpenter House	Historic Sites	0.02	0.02	0.02	0.02	0.02	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
H. Field House	Historic Sites	0.22	0.22	0.22	0.22	0.22	0.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Ryall House	Historic Sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C. Gulledge House	Historic Sites	0.13	0.14	0.13	0.13	0.13	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F. Devane House	Historic Sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J. Beugnot House	Historic Sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G. Braddock House	Historic Sites	0.24	0.24	0.24	0.24	0.24	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W. Baughman House	Historic Sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C. Hardee House	Historic Sites	0.15	0.15	0.15	0.15	0.15	0.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Harrison House	Historic Sites	0.97	0.96	0.97	0.97	0.97	0.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carlile House	Historic Sites	0.07	0.07	0.07	0.07	0.07	0.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mel Fisher's Treasure Museum	Historic Sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67	0.47	2.54	
McCain Garage	Historic Sites	2.63	3.35	3.92	4.58	4.39	6.06	-	0.8	0.6	2.67	2.94	3.62	4.37	4.17	6.24	6.63	6.76	7.51	7.31	9.38
Sembler and Sembler Inc.	Historic Sites	3.58	4.3	4.87	5.53	5.34	7.01	1.73	2.48	2.28	4.35	4.62	5.3	6.05	5.85	7.92	8.31	8.44	9.19	8.99	11.06
May's Marina (Floodtide)	Historic Sites	0.89	1.61	2.18	2.84	2.65	4.32	-	-	-	-	-	0.68	1.43	1.23	3.3	3.69	3.82	4.57	4.37	6.44
Archie Smith Wholesale Fish Co.	Historic Sites	0.88	1.61	2.18	2.84	2.65	4.32	-	-	-	1.55	1.82	2.5	3.25	3.05	5.12	5.51	5.64	6.39	6.19	8.26

APPENDIX F – EXPOSURE ANALYSIS TABLES

		Flood Scenarios - Flood Depths (ft)																		
		Rainfall						Sea Level Rise				Tidal					Storm Surge				
Asset Name	Asset Type	100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
O. Bland House	Historic Sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian City Cemetary (Park Cemetary)	Historic Sites	0.28	0.28	0.28	0.28	0.28	0.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardee Park	Parks	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber Street Sports Complex	Parks	2.81	2.81	2.81	2.81	2.81	2.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Bark Park	Parks	6.15	6.15	6.15	6.15	6.15	6.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Blossom Street Park	Parks	3.16	3.16	3.16	3.16	3.16	3.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bryant Court Park	Parks	1.1	1.1	1.1	1.1	1.1	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cheltenham Lake Park	Parks	3.74	3.73	3.74	3.74	3.74	3.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Easy Street Park	Parks	2.84	2.84	2.84	2.84	2.84	2.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Filbert Street Park	Parks	2.28	2.28	2.28	2.28	2.28	2.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Friendship Park	Parks	4.69	4.69	4.69	4.69	4.69	4.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Garden Club Park	Parks	3.47	3.46	3.46	3.47	3.46	3.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-
George Street Park	Parks	1.69	1.69	1.69	1.69	1.69	1.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Historical Park	Parks	2.02	2.01	2.02	2.01	2.01	2.02	-	-	-	-	-	-	-	-	-	-	-	-	-	1.48
Schumann Lake Park	Parks	6.36	6.36	6.36	6.36	6.36	6.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Periwinkle Park	Parks	3.57	3.57	3.57	3.57	3.57	3.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Riverview Park	Parks	3.58	4.3	4.87	5.53	5.34	7.01	1.73	2.48	2.28	4.35	4.62	5.3	6.05	5.85	7.92	8.31	8.44	9.19	8.99	11.06
Schumann Park	Parks	4.7	4.7	4.7	4.7	4.7	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stonecrop Park	Parks	4.29	4.57	4.57	4.87	4.64	6.08	0.33	1.08	0.88	2.95	3.22	3.9	4.65	4.45	6.52	6.91	7.04	7.79	7.59	9.66
Sebastian Municipal Golf Course	Parks	6.11	6.12	6.11	6.11	6.11	6.11	0.11	0.86	0.66	2.73	3	3.68	4.43	4.23	6.3	6.69	6.82	7.57	7.37	9.44
Main Street Boat Ramp	Parks	3.58	4.3	4.87	5.53	5.34	7.01	1.73	2.48	2.28	4.35	4.62	5.3	6.05	5.85	7.92	8.31	8.44	9.19	8.99	11.06
Working Waterfront	Parks	3.58	4.3	4.87	5.53	5.34	7.01	1.73	2.48	2.28	4.35	4.62	5.3	6.05	5.85	7.92	8.31	8.44	9.19	8.99	11.06
1342 Schumann Dr	Shorelines	1.3	1.3	1.3	1.3	1.3	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1346 Schumann Dr	Shorelines	1.57	1.57	1.57	1.57	1.57	1.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr (1)	Shorelines	1.49	1.49	1.49	1.49	1.49	1.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr (2)	Shorelines	4.15	4.15	4.15	4.15	4.15	4.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX F – EXPOSURE ANALYSIS TABLES

		Flood Scenarios - Flood Depths (ft)																		
		Rainfall						Sea Level Rise				Tidal					Storm Surge				
Asset Name	Asset Type	100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
143 Day Dr	Shorelines	4.66	4.66	4.66	4.66	4.66	4.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
145 Day Dr	Shorelines	6.07	6.07	6.07	6.07	6.07	6.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-
147 Day Dr	Shorelines	6.28	6.28	6.28	6.28	6.28	6.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
149 Day Dr	Shorelines	5.85	5.85	5.85	5.85	5.85	5.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-
151 Day Dr	Shorelines	5.85	5.85	5.85	5.85	5.85	5.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-
183 Day Dr	Shorelines	8.19	8.19	8.19	8.19	8.19	8.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Empress Ave (1)	Shorelines	6.9	6.9	6.9	6.9	6.9	6.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Empress Ave (2)	Shorelines	7.57	7.57	7.57	7.57	7.57	7.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Empress Ave (3)	Shorelines	6.41	6.41	6.41	6.41	6.41	6.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Empress Ave (4)	Shorelines	6.67	6.67	6.67	6.67	6.67	6.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Concha/Elkcam Dam	Shorelines	4.37	6.9	4.37	4.37	4.37	4.39	-	-	-	-	-	-	-	-	-	0.2	0.33	1.08	0.88	2.95
Schumann Dr (3)	Shorelines	6.3	6.3	6.3	6.3	6.3	6.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr (4)	Shorelines	4.59	4.59	4.59	4.59	4.59	4.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Day Dr Easement	Shorelines	8.25	8.25	8.25	8.25	8.25	8.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fisherman's Landing Shoreline	Shorelines	3.58	4.3	4.87	5.53	5.34	7.01	1.73	2.48	2.28	4.35	4.62	5.3	6.05	5.85	7.92	8.31	8.44	9.19	8.99	11.06
Main Street Boat Ramp Shoreline	Shorelines	3.58	4.3	4.87	5.53	5.34	7.01	1.73	2.48	2.28	4.35	4.62	5.3	6.05	5.85	7.92	8.31	8.44	9.19	8.99	11.06
Yacht Club Seawall	Shorelines	2.14	2.86	3.44	4.09	3.91	5.58	1.73	2.48	2.28	4.35	4.62	5.3	6.05	5.85	7.92	8.31	8.44	9.19	8.99	11.06
Riverview Park Shoreline	Shorelines	3.58	4.3	4.87	5.53	5.34	7.01	1.73	2.48	2.28	4.35	4.62	5.3	6.05	5.85	7.92	8.31	8.44	9.19	8.99	11.06

APPENDIX G

PAIRED ASSET-THREAT MATRICES

APPENDIX G – PAIRED ASSET-THREAT MATRICES

TRANSPORTATION ASSETS AND EVACUATION ROUTES

Sensitivity Criteria	
Low	Airport is inundated up to 25% by area
Medium	Airport is inundated between 26 - 75% by area
High	Airport is inundated more than 75% by area

Table G1: Percent Inundation – Airports

Asset Name	Area (Acres)	Flood Scenarios - Percent Inundated (%)																		
		100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Sebastian-Roseland Municipal Airport	463.93	38.3%	38.3%	38.3%	38.28%	38.3%	38.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%

Table G2: Paired Asset-Threat Matrix – Airports

Asset Name	Area (Acres)	Flood Scenarios - Criticality																			
		100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Sebastian-Roseland Municipal Airport	463.93	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	-	-	L

Sensitivity Criteria	
Low	Water level above the shoulder of the roadway or bridge
Medium	Water level 0.01-in to 2-in above the centerline (crown) of the roadway or bridge
High	Water level more than 2-in above centerline of the roadway or bridge

Table G3: Paired Asset-Threat Matrix – Bridges

Asset Name	Critical Elevations (ft)		Flood Scenarios - Criticality																		
	Shoulder Elevation (ft)	Centerline Elevation (ft)	100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Schumann Lake Bridge (W)	21.44	22.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Lake Bridge (E)	19.23	22.31	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St Bridge Northwest	15.48	23.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St Bridge Southeast	13.05	23.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Periwinkle Dr Bridge Northwest	10.65	23.30	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Periwinkle Dr Bridge Southeast	10.65	22.94	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St Bridge West	14.33	24.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St Bridge East	14.33	24.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX G – PAIRED ASSET-THREAT MATRICES

Asset Name	Critical Elevations (ft)		Flood Scenarios - Criticality																		
	Shoulder Elevation (ft)	Centerline Elevation (ft)	100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Englar Dr Bridge West	11.03	22.46	-	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Englar Dr Bridge East	10.76	22.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr Bridge North	20.70	21.39	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr Bridge South	20.76	21.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fleming St Bridge North	21.72	24.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fleming St Bridge South	18.96	24.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sensitivity Criteria	
Low	Water level above the shoulder of the roadway or bridge
Medium	Water level 0.01-in to 2-in above the centerline (crown) of the roadway or bridge
High	Water level more than 2-in above centerline of the roadway or bridge

Table G4: Paired Asset-Threat Matrix - Major Roadways

Asset Name	Critical Elevation		Flood Scenarios - Criticality																		
	Shoulder Elevation (ft)	Centerline Elevation (ft)	100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Main St Railroad	18.33	20.29	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr Railroad	17.27	19.57	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St Railroad	17.91	20.12	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Main St and Louisiana Ave	17.79	19.04	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Main St and US Highway 1	12.27	15.49	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr and Barber St	19.09	20.44	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St and Sebastian Blvd	20.33	22.05	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Main St and Indian River Dr	9.00	11.03	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	L
Main St and Gibson St	19.13	19.69	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Main St and Easy St	20.82	21.42	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Main St and Airport Dr E	20.75	22.03	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St and Pelican Island Pl	23.34	24.63	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St and Nebraska Cir	19.08	19.75	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX G – PAIRED ASSET-THREAT MATRICES

Asset Name	Critical Elevation		Flood Scenarios - Criticality																	
	Shoulder Elevation (ft)	Centerline Elevation (ft)	100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Barber St and Joy Haven Dr	19.12	21.44	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St and Concha Dr	19.92	21.35	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St and Englar Dr	20.60	22.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber St and Wimbrow Dr	19.21	20.76	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr and Englar Dr	22.42	23.42	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr and Empress Ave	21.86	22.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr and S Easy St	20.58	21.39	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and Roseland Rd	19.55	21.79	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and S Fleming St	20.95	22.77	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and S Wimbrow Dr	20.16	21.57	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and Easy St	21.75	22.96	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and Delaware Ave	21.42	22.89	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and S Wimbrow Dr	18.14	21.17	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and Old Dixie Hwy	17.86	19.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and Railroad (1)	16.24	18.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and US Hwy 1 (1)	7.28	9.95	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	L	-	L	
Sebastian Blvd and Ashbury Blvd	19.39	21.15	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and Railroad (2)	18.27	19.90	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Blvd and US Hwy 1 (2)	11.67	13.90	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
US Hwy 1 and Coolidge St	6.22	9.31	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	L	L	L	L	M
Indian River Dr and Washington St	5.61	6.49	L	L	L	L	L	L	-	-	-	-	-	-	-	-	L	H	H	H	H	H
Indian River Dr and Martin Ave	5.38	6.33	L	L	L	L	L	L	-	-	-	-	-	-	-	-	L	H	H	H	H	H
Indian River Dr and Cleveland St	3.54	4.11	L	L	L	L	L	H	-	-	-	-	-	L	H	M	H	H	H	H	H	H

APPENDIX G – PAIRED ASSET-THREAT MATRICES

Asset Name	Critical Elevation		Flood Scenarios - Criticality																	
	Shoulder Elevation (ft)	Centerline Elevation (ft)	100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Indian River Dr and Coolidge St	3.57	4.37	L	L	L	L	L	H	-	-	-	-	-	L	H	L	H	H	H	H	H	H
Sebastian Blvd and Indian River Dr	3.41	4.08	L	L	L	L	L	H	-	-	-	-	-	L	H	H	H	H	H	H	H	H
Indian River Dr and Harrison St	3.33	4.12	L	L	L	L	L	H	-	-	-	-	-	L	H	H	H	H	H	H	H	H
US Hwy 1 and Jefferson St	8.71	11.99	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	L
US Hwy 1 and Davis St	24.80	30.54	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
US Hwy 1 and Jackson St	26.28	29.49	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sensitivity Criteria	
High	Water level exceeds the critical elevation + 1-ft

Table G5: Paired Asset-Threat Matrix – Marinas (Docks)

Asset Name	Critical Elevation (ft)	Flood Scenarios - Criticality																		
		100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Working Waterfront North Dock	5.42	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
Working Waterfront Dock	3.89	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
Sebastian Rotary Club Boardwalk	5.97	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
Main St and Indian River Dr Dock	4.19	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
Sebastian Yacht Club Dock	2.30	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
Sebastian Blvd E and Indian River Dr Dock	3.95	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
Twin Piers North Dock	2.67	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
Twin Piers South Dock	2.50	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H

APPENDIX G – PAIRED ASSET-THREAT MATRICES

CRITICAL INFRASTRUCTURE

Sensitivity Criteria	
Low	Water level at or above the wet well (rim) elevation
Medium	Water level 8-in to 0.01-in from station electrical control panel
High	Water level reaches station electrical control panel

Table G6: Paired Asset-Threat Matrix - Pump Stations

Asset Name	Critical Elevations (ft)		Flood Scenarios - Criticality																		
	Rim Elevation (ft)	Electrical Control Panel Elevation (ft)	100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Stormwater Park Pump Station	22.12	25.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sensitivity Criteria	
Low	Flood depths less than 6-in above the rim elevation
Medium	Flood depths between 6-in and 24-in above the rim elevation
High	Flood depths greater than 24-in above the rim elevation

Table G7: Paired Asset-Threat Matrix - Stormwater Treatment Facilities (Baffle Boxes)

Asset Name	Critical Elevation (ft)	Flood Scenarios - Criticality																		
		100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Coolidge St Baffle Box	3.72	L	L	L	L	L	M	L	L	L	L	L	L	M	L	H	H	H	H	H	H
Martin Ave Baffle Box	19.46	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
Washington St Baffle Box	5.90	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	M	M	M	M	H
Cleveland St Baffle Box	6.24	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	M	M	M	M	H
Davis St Baffle Box	5.51	L	L	L	L	L	L	L	L	L	L	L	L	L	L	M	H	H	H	H	H
Fisherman's Landing Baffle Box	3.12	M	M	M	M	M	H	L	L	L	L	L	M	M	M	H	H	H	H	H	H
Indian River Dr Baffle Box (1)	4.34	M	M	M	M	M	M	L	L	L	L	L	L	L	L	M	H	H	H	H	H

APPENDIX G – PAIRED ASSET-THREAT MATRICES

		Flood Scenarios - Criticality																		
Asset Name	**Critical Elevation (ft)**	**100Y24H**	**500Y24H**	**100Y24H & IL2040 SLR**	**100Y24H & IH2040 SLR**	**100Y24H & IL2070 SLR**	**100Y24H & IH2070 SLR**	**SLR IL2040**	**SLR IH2040**	**SLR IL2070**	**SLR IH2070**	**CURRENT TIDAL**	**TIDAL & IL2040 SLR**	**TIDAL & IH2040 SLR**	**TIDAL & IL2070 SLR**	**TIDAL & IH2070 SLR**	**CURRENT STORM SURGE**	**STORM SURGE & IL2040 SLR**	**STORM SURGE & IH2040 SLR**	**STORM SURGE & IL2070 SLR**	**STORM SURGE & IH2070 SLR**
Indian River Dr Baffle Box (2)	7.31	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H
Indian River Dr Baffle Box (3)	7.11	M	M	M	M	M	M	L	L	L	L	L	L	L	L	L	L	L	M	M	H
Riverview Park Baffle Box	2.94	M	M	M	M	M	H	L	L	L	L	L	M	M	M	H	H	H	H	H	H

APPENDIX G – PAIRED ASSET-THREAT MATRICES

CRITICAL COMMUNITY AND EMERGENCY FACILITIES

Sensitivity Criteria	
Low	Water level is 6-in to 12-in from FFE
Medium	Water level is 6-in or less from the FFE
High	Water level exceeds the FFE

Table G8: Paired Asset-Threat Matrix - Community Centers

Asset Name	Critical Elevation (ft)	Flood Scenarios - Criticality																		
		100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Sebastian Community Center	15.36	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Yacht Club	5.54	-	-	-	-	-	M	-	-	-	-	-	-	L	-	H	H	H	H	H	H

Table G9: Paired Asset-Threat Matrix - Local Government Facilities

Asset Name	Critical Elevation (ft)	Flood Scenarios - Criticality																		
		100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Sebastian City Hall	23.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table G10: Paired Asset-Threat Matrix - Law Enforcement Facilities

Asset Name	Critical Elevation (ft)	Flood Scenarios - Criticality																		
		100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Sebastian Police Department	22.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX G – PAIRED ASSET-THREAT MATRICES

NATURAL, CULTURAL, AND HISTORICAL ASSETS

Sensitivity Criteria	
Low	Water level is 6-in to 12-in from FFE
Medium	Water level is 6-in or less from the FFE
High	Water level exceeds the FFE

Table G11: Paired Asset-Threat Matrix - Historic Sites (Buildings)

Asset Name	Critical Elevation (ft)	Flood Scenarios - Criticality																		
		100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Vickers Store	15.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Walter's Garage (same as Vicker's Store)	15.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian School (Sebastian City Hall)	23.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V. Braddock House	14.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S. Vickers House	14.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P. Lawson House	13.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Old Town Hall	12.23	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M. Braddock House	9.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M
Woman's Club	10.98	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P. Stevenson House	4.83	L	L	L	L	L	H	-	-	-	-	-	-	M	L	H	H	H	H	H	H
C. Taylor House	22.86	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A. Hancock House	18.94	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J. Gray House	19.11	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX G – PAIRED ASSET-THREAT MATRICES

Asset Name	Critical Elevation (ft)	Flood Scenarios - Criticality																		
		100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
B. Day House	19.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E. Suddard House	26.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E. Sembler House	26.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F. Carpenter House	25.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O. Carpenter House	26.68	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
H. Field House	25.52	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B. Ryall House	24.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C. Gulledge House	22.86	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F. Devane House	23.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J. Beugnot House	22.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G. Braddock House	21.89	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W. Baughman House	25.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C. Hardee House	13.26	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Harrison House	11.04	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carlile House	14.28	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mel Fisher's Treasure Museum	8.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	L	H
McCain Garage	1.04	H	H	H	H	H	H	-	M	M	H	H	H	H	H	H	H	H	H	H	H
Sembler and Sembler Inc.	-0.60	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H

APPENDIX G – PAIRED ASSET-THREAT MATRICES

Asset Name	Critical Elevation (ft)	Flood Scenarios - Criticality																		
		100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
May's Marina (Floodtide)	3.48	M	H	H	H	H	H	-	-	-	-	-	M	H	H	H	H	H	H	H	H
Archie Smith Wholesale Fish Co.	2.19	M	H	H	H	H	H	-	-	-	H	H	H	H	H	H	H	H	H	H	H
O. Bland House	31.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sensitivity Criteria	
Low	Footprint is inundated up to 25% by area
Medium	Footprint is inundated between 26 - 75% by area
High	Footprint is inundated more than 75% by area

Table G12: Percent Inundated - Historic Sites (Misc.)

Asset Name	Area (Acres)	Flood Scenarios - Percent Inundation (%)																		
		100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Hardee Oak Tree	0.03	47.4%	47.4%	47.4%	47.4%	47.4%	47.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	64.2%
Sebastian City Cemetary (Park Cemetary)	9.00	2.2%	2.2%	2.2%	2.2%	2.2%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Table G13: Paired Asset-Threat Matrix - Historic Sites (Misc.)

Asset Name	Area (Acres)	Flood Scenarios - Criticality																		
		100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Hardee Oak Tree	0.03	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	-	-	M
Sebastian City Cemetary (Park Cemetary)	9.00	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX G – PAIRED ASSET-THREAT MATRICES

Sensitivity Criteria	
Low	Footprint is inundated up to 25% by area
Medium	Footprint is inundated between 26 - 75% by area
High	Footprint is inundated more than 75% by area

Table G14: Percent Inundation – Parks

Asset Name	Total Area (Acres)	Flood Scenarios - Percent Inundation (%)																		
		100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Hardee Park	19.73	46.0%	46.0%	46.0%	46.0%	46.0%	46.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Barber Street Sports Complex	22.53	19.3%	19.3%	19.4%	19.3%	19.3%	19.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sebastian Bark Park	7.42	82.9%	82.9%	82.9%	82.9%	82.9%	82.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Blossom Street Park	2.68	74.5%	74.5%	74.5%	74.5%	74.5%	74.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bryant Court Park	3.54	35.6%	35.7%	35.7%	35.7%	35.7%	35.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Cheltenham Lake Park	2.51	91.5%	91.4%	91.5%	91.5%	91.5%	91.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Easy Street Park	6.94	64.0%	64.0%	64.0%	64.0%	64.0%	64.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Filbert Street Park	9.08	46.8%	46.7%	46.7%	46.8%	46.7%	46.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Friendship Park	18.81	33.6%	33.6%	33.6%	33.6%	33.6%	33.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Garden Club Park	8.01	66.4%	66.4%	66.3%	66.4%	66.4%	66.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
George Street Park	2.21	26.5%	26.5%	26.5%	26.5%	26.5%	26.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Historical Park	2.42	51.0%	51.0%	51.0%	51.0%	51.0%	51.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	43.7%
Schumann Lake Park	39.81	81.3%	81.3%	81.3%	81.3%	81.3%	81.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Periwinkle Park	4.42	67.5%	67.6%	67.5%	67.5%	67.5%	67.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Riverview Park	10.51	34.5%	35.7%	41.8%	48.2%	46.5%	63.4%	14.9%	15.8%	15.5%	19.3%	23.1%	35.5%	45.8%	42.7%	74.6%	81.0%	83.4%	94.1%	91.4%	100.0%

APPENDIX G – PAIRED ASSET-THREAT MATRICES

Asset Name	Total Area (Acres)	Flood Scenarios - Percent Inundation (%)																		
		100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Schumann Park	4.25	32.0%	32.0%	32.0%	32.0%	32.0%	32.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Stonecrop Park	18.00	35.2%	37.1%	35.8%	36.5%	35.9%	40.0%	1.5%	1.8%	1.7%	4.0%	4.7%	8.4%	14.1%	12.3%	28.8%	31.7%	32.8%	43.8%	40.5%	64.0%
Sebastian Municipal Golf Course	133.48	29.4%	29.6%	29.6%	29.7%	29.7%	29.9%	0.0%	0.0%	0.0%	0.2%	0.3%	0.4%	0.6%	0.5%	0.7%	0.7%	0.8%	0.8%	0.8%	1.0%
Main Street Boat Ramp	3.98	47.1%	48.7%	50.3%	52.0%	51.6%	56.6%	31.9%	33.4%	32.9%	38.9%	39.6%	41.7%	43.6%	43.0%	50.1%	51.0%	51.5%	56.5%	55.5%	75.7%
Working Waterfront	2.46	25.5%	26.8%	28.2%	29.8%	28.8%	39.5%	11.4%	13.0%	12.6%	16.8%	17.2%	18.4%	20.8%	20.2%	40.9%	53.4%	55.6%	71.6%	64.8%	98.9%

Table G15: Paired Asset-Threat Matrix – Parks

Asset Name	Total Area (Acres)	Flood Scenarios - Criticality																		
		100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Hardee Park	19.73	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barber Street Sports Complex	22.53	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Bark Park	7.42	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Blossom Street Park	2.68	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bryant Court Park	3.54	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cheltenham Lake Park	2.51	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Easy Street Park	6.94	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Filbert Street Park	9.08	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Friendship Park	18.81	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Garden Club Park	8.01	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-
George Street Park	2.21	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Historical Park	2.42	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	-	-	M

APPENDIX G – PAIRED ASSET-THREAT MATRICES

Asset Name	Total Area (Acres)	Flood Scenarios - Criticality																		
		100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
Schumann Lake Park	39.81	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Periwinkle Park	4.42	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Riverview Park	10.51	M	M	M	M	M	M	L	L	L	L	L	M	M	M	M	H	H	H	H	H
Schumann Park	4.25	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stonecrop Park	18.00	M	M	M	M	M	M	L	L	L	L	L	L	L	L	M	M	M	M	M	M
Sebastian Municipal Golf Course	133.48	M	M	M	M	M	M	-	-	-	L	L	L	L	L	L	L	L	L	L	L
Main Street Boat Ramp	3.98	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	H
Working Waterfront	2.46	M	M	M	M	M	M	L	L	L	L	L	L	L	L	M	M	M	M	M	H

Sensitivity Criteria	
Low	Water level is 6-in to 12-in from critical elevation
Medium	Water level is 6-in or less from critical elevation
High	Water level exceeds critical elevation

Table G16: Paired Asset-Threat Matrix – Seawalls

Asset Name	Critical Elevation (ft)	Flood Scenarios - Flood Elevation (NAVD88, ft)																		
		100Y24H	500Y24H	100Y24H & IL2040 SLR	100Y24H & IH2040 SLR	100Y24H & IL2070 SLR	100Y24H & IH2070 SLR	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	TIDAL & IL2040 SLR	TIDAL & IH2040 SLR	TIDAL & IL2070 SLR	TIDAL & IH2070 SLR	CURRENT STORM SURGE	STORM SURGE & IL2040 SLR	STORM SURGE & IH2040 SLR	STORM SURGE & IL2070 SLR	STORM SURGE & IH2070 SLR
1342 Schumann Dr	13.3	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1346 Schumann Dr	12.51	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr (1)	12.33	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr (2)	13.66	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
143 Day Dr	15.24	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
145 Day Dr	12.33	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX G – PAIRED ASSET-THREAT MATRICES

		Flood Scenarios - Flood Elevation (NAVD88, ft)																		
Asset Name	**Critical Elevation (ft)**	**100Y24H**	**500Y24H**	**100Y24H & IL2040 SLR**	**100Y24H & IH2040 SLR**	**100Y24H & IL2070 SLR**	**100Y24H & IH2070 SLR**	**SLR IL2040**	**SLR IH2040**	**SLR IL2070**	**SLR IH2070**	**CURRENT TIDAL**	**TIDAL & IL2040 SLR**	**TIDAL & IH2040 SLR**	**TIDAL & IL2070 SLR**	**TIDAL & IH2070 SLR**	**CURRENT STORM SURGE**	**STORM SURGE & IL2040 SLR**	**STORM SURGE & IH2040 SLR**	**STORM SURGE & IL2070 SLR**	**STORM SURGE & IH2070 SLR**
147 Day Dr	12.33	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
149 Day Dr	12.33	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
151 Day Dr	12.33	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
183 Day Dr	12.33	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Empress Ave (1)	12.87	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Empress Ave (2)	12.51	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Empress Ave (3)	14.03	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Empress Ave (4)	13.90	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr (3)	12.73	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Schumann Dr (4)	16.77	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Day Dr Easement	12.33	H	H	H	H	H	H	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yacht Club Seawall	2.1	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H

APPENDIX G – PAIRED ASSET-THREAT MATRICES

Sensitivity Criteria	
Low	Water level exceeds the dry season control elevation
Medium	Water level exceeds the weir crest elevation
High	Water level exceeds the top of weir elevation

Table G17: Paired Asset-Threat Matrix – Concha/Elkcam Dam

		Flood Scenarios - Flood Elevation (NAVD88, ft)																		
Asset Name	**Critical Elevation (ft)**	**100Y24H**	**500Y24H**	**100Y24H & IL2040 SLR**	**100Y24H & IH2040 SLR**	**100Y24H & IL2070 SLR**	**100Y24H & IH2070 SLR**	**SLR IL2040**	**SLR IH2040**	**SLR IL2070**	**SLR IH2070**	**CURRENT TIDAL**	**TIDAL & IL2040 SLR**	**TIDAL & IH2040 SLR**	**TIDAL & IL2070 SLR**	**TIDAL & IH2070 SLR**	**CURRENT STORM SURGE**	**STORM SURGE & IL2040 SLR**	**STORM SURGE & IH2040 SLR**	**STORM SURGE & IL2070 SLR**	**STORM SURGE & IH2070 SLR**
Concha/Elkcam Dam	15.54	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sensitivity Criteria	
Low	Water level exceeds the minimum shoreline elevation
Medium	Water level is 6-in or less from the nearest roadway shoulder
High	Water level exceeds nearest roadway shoulder

Table G18: Paired Asset-Threat Matrix – Shorelines

			Flood Scenarios - Flood Elevation (NAVD88, ft)																		
Asset Name	**Minimum Shoreline Elevation (ft)**	**Roadway Shoulder (ft)**	**100Y24H**	**500Y24H**	**100Y24H & IL2040 SLR**	**100Y24H & IH2040 SLR**	**100Y24H & IL2070 SLR**	**100Y24H & IH2070 SLR**	**SLR IL2040**	**SLR IH2040**	**SLR IL2070**	**SLR IH2070**	**CURRENT TIDAL**	**TIDAL & IL2040 SLR**	**TIDAL & IH2040 SLR**	**TIDAL & IL2070 SLR**	**TIDAL & IH2070 SLR**	**CURRENT STORM SURGE**	**STORM SURGE & IL2040 SLR**	**STORM SURGE & IH2040 SLR**	**STORM SURGE & IL2070 SLR**	**STORM SURGE & IH2070 SLR**
Fisherman's Landing Shoreline	1.88	6.54	L	L	L	M	M	H	L	L	L	L	L	M	H	H	H	H	H	H	H	H
Main Street Boat Ramp Shoreline	3.09	9.00	L	L	L	L	L	M	L	L	L	L	L	L	L	L	H	H	H	H	H	H
Riverview Park Shoreline	1.84	3.33	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H

APPENDIX H

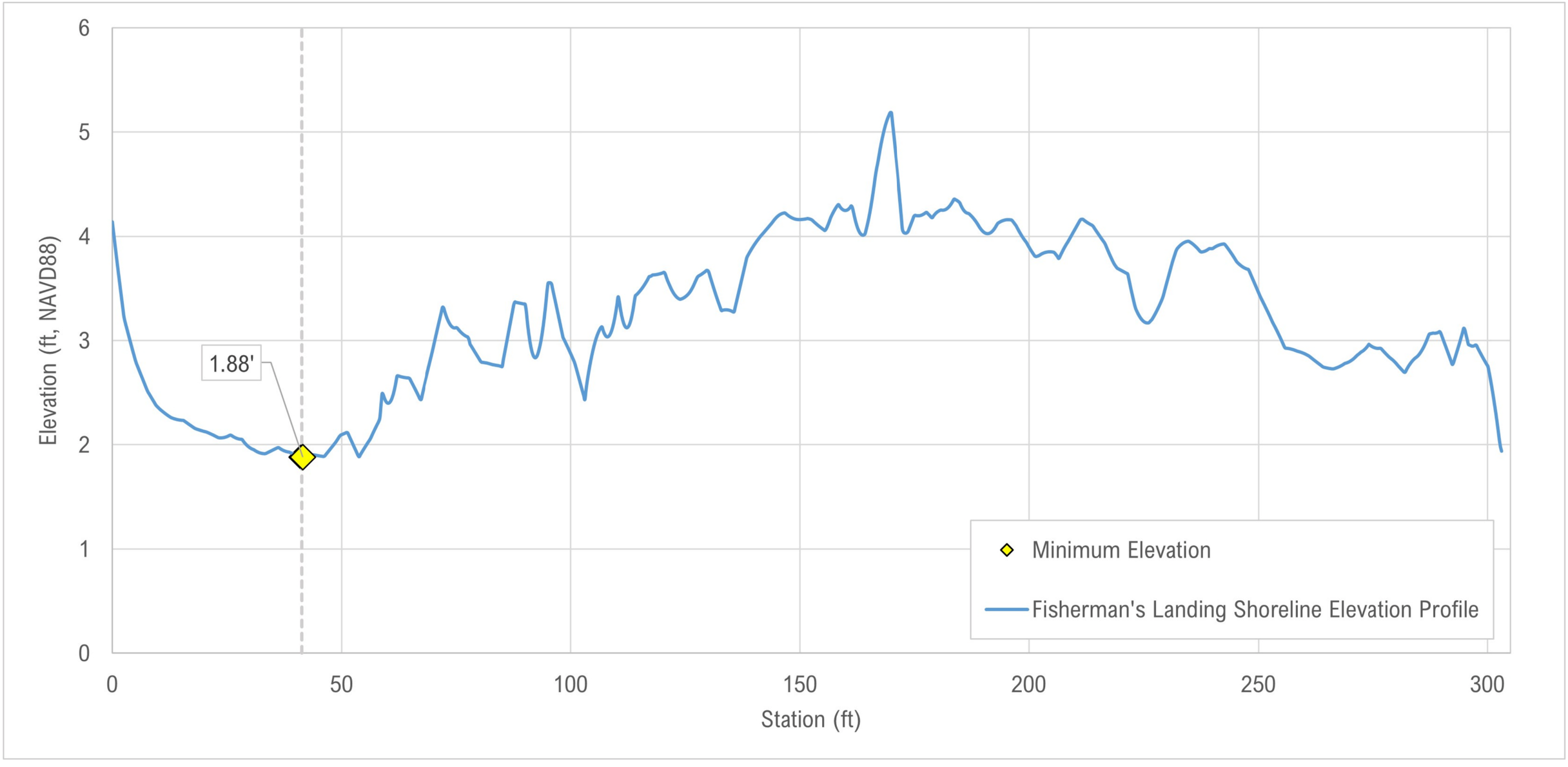
SHORELINES ELEVATION PROFILES



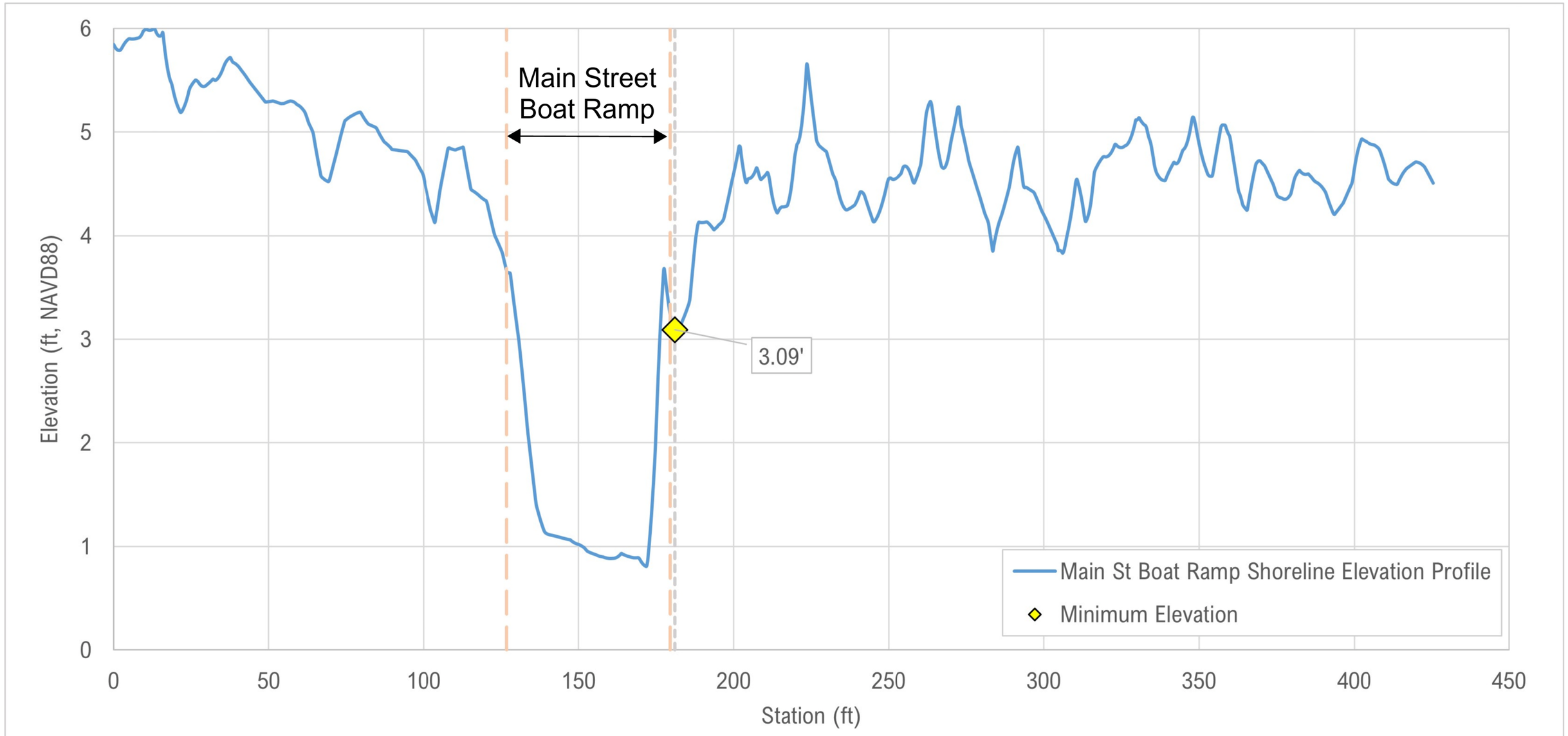
City of Sebastian
Vulnerability Assessment

Riprap Shorelines and Nearest Major Roadway Intersections

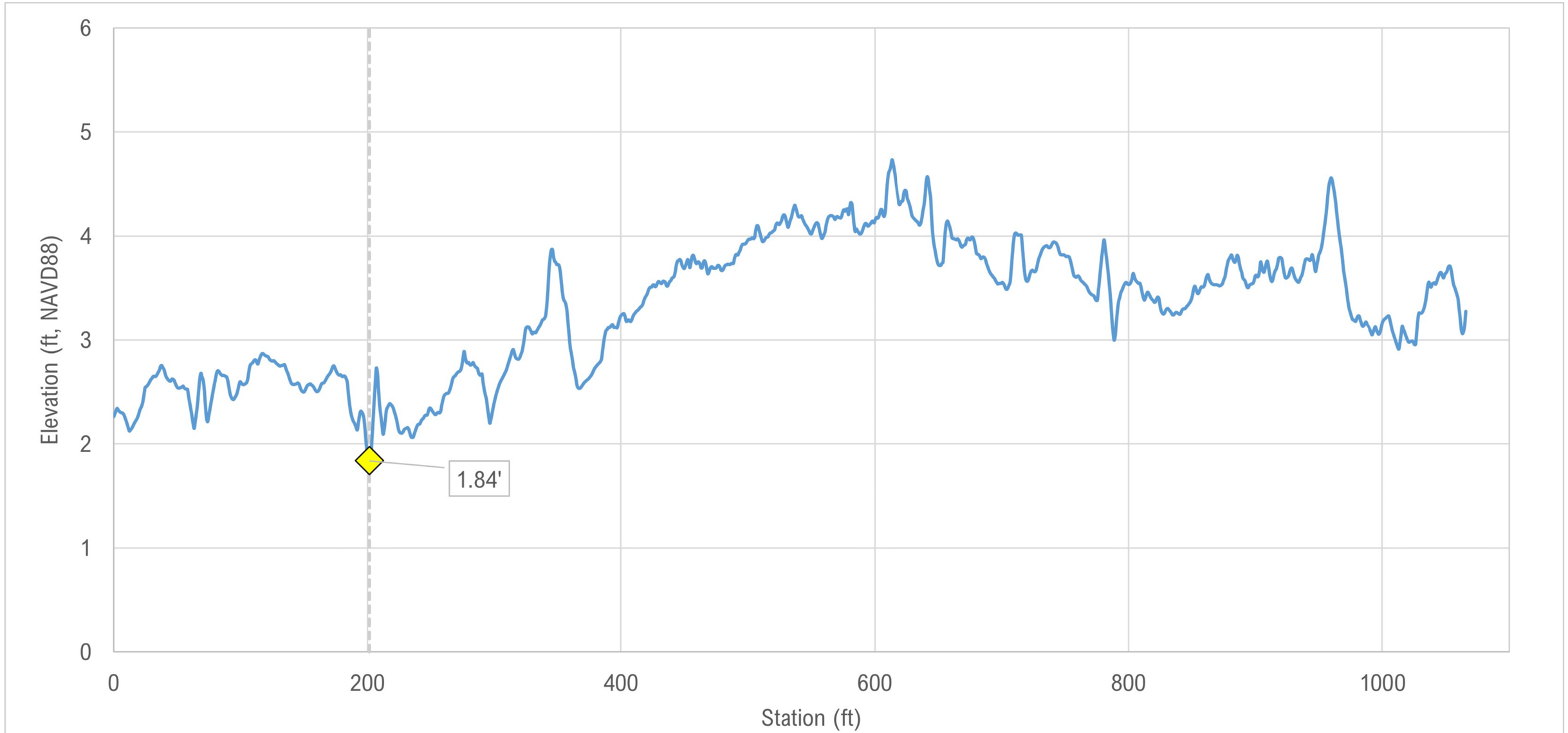
Kimley»Horn



City of Sebastian Vulnerability Assessment	Fisherman's Landing Shoreline	Kimley»Horn
Shoreline Elevation Profiles	Min: 1.88 ft Avg: 3.23 ft Max: 5.19 ft Gain: 10.53 ft Loss: -12.73 ft Length: 303.1 ft	



City of Sebastian Vulnerability Assessment	Main St Boat Ramp Shoreline	
Shoreline Elevation Profiles	Min: 0.81 ft Avg: 4.33 ft Max: 6.00 ft Gain: 16.42 ft Loss: -17.76 ft Length: 425.6 ft	Kimley»Horn



City of Sebastian Vulnerability Assessment	Riverview Park Shoreline	
Shoreline Elevation Profiles	Min: 1.84 ft Avg: 3.30 ft Max: 4.73 ft	Gain: 18.99 ft Loss: -17.98 ft Length: 1,066 ft

Kimley»Horn

APPENDIX I

SENSITIVITY MAPS

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Davis St Baffle Box
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Working Waterfront
Working Waterfront Dock
Cleveland St Baffle Box
Fisherman's Landing Shoreline
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Fleming St Bridge N
Fleming St Bridge S
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
C. Taylor House
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
US Hwy 1 & Coolidge St
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Sebastian Blvd and US Hwy 1 (1)
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks

Matchline 1

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

100-Year/24-Hour Rainfall
City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 1

Matchline 2

Matchline 2

Criticality

- Not Vulnerable
- Low
- Medium
- High

Sebastian Blvd & S Wimbrow Dr (1)

Sebastian Bark Park

Historical Park

Schumann Dr & Railroad

Sebastian Blvd & S Fleming St

Martin Ave Baffle Box

Blossom St Park

Barber St & Sebastian Blvd

Schumann Lake Park

Schumann Lake Bridge E

Garden Club Park

Schumann Lake Bridge W

Sebastian Blvd & Roseland Rd

Schumann Dr (4)

Schumann Park

Englar Dr Bridge E

Englar Dr Bridge W

Schumann Dr & Englar Dr

Barber St Sports Complex

Stormwater Park Pump Station

Schumann Dr (3)

Schumann Dr & Empress Ave

Stonecrop Park

Empress Ave (3)

Schumann Dr & S Easy St

Empress Ave (4)

Barber St & Englar Dr

Schumann Dr Bridge N

Empress Ave (2)

Schumann Dr Bridge S

Schumann Dr (2)

Empress Ave (1)

Cheltenham Lake Park

George Street Park

Barber St & Railroad

Schumann Dr (1)

143 Day Dr

145 Day Dr

Barber St and Concha Dr

147 Day Dr

149 Day Dr

Barber St Bridge NW

151 Day Dr

Barber St & Joy Haven Dr

Barber St & Pelican Island Pl

Periwinkle Dr Bridge NW

Day Dr Easement

1346 Schumann Dr

Barber St Bridge SE

183 Day Dr

Concha/Elkcam Dam

Periwinkle Dr Bridge SE

Periwinkle Park

Filbert Street Park

Bryant Court Park

Barber St & Nebraska Cir

Schumann Dr & Barber St

1342 Schumann Dr

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

100-Year, 24-Hour Rainfall

City Boundary (South)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Davis St Baffle Box
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Working Waterfront
Working Waterfront Dock
Cleveland St Baffle Box
Fisherman's Landing Shoreline
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Fleming St Bridge N
Fleming St Bridge S
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
C. Taylor House
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
US Hwy 1 & Coolidge St
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Sebastian Blvd and US Hwy 1 (1)
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks

Matchline 1

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

500-Year/24-Hour Rainfall
City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 1

Matchline 2

Matchline 2

Criticality

- Not Vulnerable
- Low
- Medium
- High

Sebastian Blvd & S Wimbrow Dr (1)

Sebastian Bark Park

Historical Park

Schumann Dr & Railroad

Sebastian Blvd & S Fleming St

Martin Ave Baffle Box

Blossom St Park

Barber St & Sebastian Blvd

Schumann Lake Park

Schumann Lake Bridge E

Garden Club Park

Schumann Lake Bridge W

Sebastian Blvd & Roseland Rd

Schumann Dr (4)

Schumann Park

Englar Dr Bridge E

Englar Dr Bridge W

Schumann Dr & Englar Dr

Barber St Sports Complex

Stormwater Park Pump Station

Schumann Dr (3)

Schumann Dr & Empress Ave

Stonecrop Park

Empress Ave (3)

Schumann Dr & S Easy St

Empress Ave (4)

Barber St & Englar Dr

Schumann Dr Bridge N

Empress Ave (2)

Schumann Dr Bridge S

Schumann Dr (2)

Empress Ave (1)

Cheltenham Lake Park

George Street Park

Barber St & Railroad

Schumann Dr (1)

143 Day Dr

145 Day Dr

Barber St and Concha Dr

147 Day Dr

149 Day Dr

Barber St Bridge NW

151 Day Dr

Barber St & Joy Haven Dr

Barber St & Pelican Island Pl

Periwinkle Dr Bridge NW

Day Dr Easement

1346 Schumann Dr

Barber St Bridge SE

183 Day Dr

Concha/Elkcam Dam

Periwinkle Dr Bridge SE

Periwinkle Park

Filbert Street Park

Bryant Court Park

Barber St & Nebraska Cir

Schumann Dr & Barber St

1342 Schumann Dr

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

500-Year, 24-Hour Rainfall

City Boundary (South)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Davis St Baffle Box
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Working Waterfront
Working Waterfront Dock
Cleveland St Baffle Box
Fisherman's Landing Shoreline
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Fleming St Bridge N
Fleming St Bridge S
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
C. Taylor House
US Hwy 1 & Coolidge St
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Sebastian Blvd and US Hwy 1 (1)
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks

Matchline 1

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

100-Year/24-Hour Rainfall + 2040 Int-Low SLR

City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 1

Matchline 2

Matchline 2

Criticality

- Not Vulnerable
- Low
- Medium
- High

Sebastian Blvd & S Wimbrow Dr (1)
Sebastian Bark Park
Historical Park
Schumann Dr & Railroad
Sebastian Blvd & S Fleming St
Martin Ave Baffle Box
Blossom St Park
Barber St & Sebastian Blvd
Schumann Lake Park
Schumann Lake Bridge E
Garden Club Park
Schumann Lake Bridge W
Sebastian Blvd & Roseland Rd
Schumann Dr (4)
Schumann Park
Englar Dr Bridge E
Englar Dr Bridge W
Schumann Dr & Englar Dr
Stormwater Park Pump Station
Barber St Sports Complex
Schumann Dr (3)
Schumann Dr & Empress Ave
Stonecrop Park
Empress Ave (3)
Empress Ave (4)
Schumann Dr & S Easy St
Barber St & Englar Dr
Schumann Dr Bridge N
Empress Ave (2)
Schumann Dr Bridge S
Schumann Dr (2)
Empress Ave (1)
Cheltenham Lake Park
George Street Park
Barber St & Railroad
Schumann Dr (1)
143 Day Dr
145 Day Dr
Barber St and Concha Dr
147 Day Dr
149 Day Dr
Barber St Bridge NW
151 Day Dr
Barber St & Joy Haven Dr
Barber St & Pelican Island Pl
Periwinkle Dr Bridge NW
Day Dr Easement
1346 Schumann Dr
183 Day Dr
Barber St Bridge SE
1342 Schumann Dr
Concha/Elkcam Dam
Periwinkle Dr Bridge SE
Periwinkle Park
Filbert Street Park
Bryant Court Park
Barber St & Nebraska Cir
Schumann Dr & Barber St

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

100-Year, 24-Hour Rainfall & 2040 Int-Low SLR

City Boundary (South)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Davis St Baffle Box
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Working Waterfront
Working Waterfront Dock
Cleveland St Baffle Box
Fisherman's Landing Shoreline
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Fleming St Bridge N
Fleming St Bridge S
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
C. Taylor House
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
US Hwy 1 & Coolidge St
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Sebastian Blvd and US Hwy 1 (1)
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks

Matchline 1

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

100-Year/24-Hour Rainfall + 2040 Int-High SLR

City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 1

Matchline 2

Matchline 2

Criticality

- Not Vulnerable
- Low
- Medium
- High

Sebastian Blvd & S Wimbrow Dr (1)

Sebastian Bark Park

Historical Park

Schumann Dr & Railroad

Sebastian Blvd & S Fleming St

Martin Ave Baffle Box

Blossom St Park

Barber St & Sebastian Blvd

Schumann Lake Park

Schumann Lake Bridge E

Garden Club Park

Schumann Lake Bridge W

Sebastian Blvd & Roseland Rd

Schumann Dr (4)

Schumann Park

Englar Dr Bridge E

Englar Dr Bridge W

Schumann Dr & Englar Dr

Barber St Sports Complex

Stormwater Park Pump Station

Schumann Dr (3)

Schumann Dr & Empress Ave

Stonecrop Park

Empress Ave (3)

Empress Ave (4)

Schumann Dr & S Easy St

Barber St & Englar Dr

Schumann Dr Bridge N

Empress Ave (2)

Schumann Dr Bridge S

Schumann Dr (2)

Empress Ave (1)

Cheltenham Lake Park

George Street Park

Barber St & Railroad

Schumann Dr (1)

143 Day Dr

145 Day Dr

Barber St and Concha Dr

147 Day Dr

149 Day Dr

Barber St Bridge NW

151 Day Dr

Barber St & Joy Haven Dr

Barber St & Pelican Island Pl

Periwinkle Dr Bridge NW

Day Dr Easement

1346 Schumann Dr

Barber St Bridge SE

183 Day Dr

Concha/Elkcam Dam

Periwinkle Dr Bridge SE

Periwinkle Park

Filbert Street Park

Bryant Court Park

Barber St & Nebraska Cir

Schumann Dr & Barber St

1342 Schumann Dr

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

100-Year, 24-Hour Rainfall & 2040 Int-High SLR

City Boundary (South)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Davis St Baffle Box
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Working Waterfront
Working Waterfront Dock
Cleveland St Baffle Box
Fisherman's Landing Shoreline
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Fleming St Bridge N
Fleming St Bridge S
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
C. Taylor House
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
US Hwy 1 & Coolidge St
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Sebastian Blvd and US Hwy 1 (1)
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks

Matchline 1

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

100-Year/24-Hour Rainfall + 2070 Int-Low SLR

City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 1

Matchline 2

Matchline 2

Criticality

- Not Vulnerable
- Low
- Medium
- High

Sebastian Blvd & S Wimbrow Dr (1)
Sebastian Bark Park
Historical Park
Schumann Dr & Railroad
Sebastian Blvd & S Fleming St
Martin Ave Baffle Box
Blossom St Park
Barber St & Sebastian Blvd
Schumann Lake Park
Schumann Lake Bridge E
Garden Club Park
Schumann Lake Bridge W
Sebastian Blvd & Roseland Rd
Schumann Dr (4)
Schumann Park
Englar Dr Bridge E
Englar Dr Bridge W
Schumann Dr & Englar Dr
Stormwater Park Pump Station
Barber St Sports Complex
Schumann Dr (3)
Schumann Dr & Empress Ave
Empress Ave (3)
Stonecrop Park
Schumann Dr & S Easy St
Empress Ave (4)
Barber St & Englar Dr
Schumann Dr Bridge N
Empress Ave (2)
Schumann Dr Bridge S
Schumann Dr (2)
Empress Ave (1)
Cheltenham Lake Park
George Street Park
Barber St & Railroad
Schumann Dr (1)
143 Day Dr
145 Day Dr
Barber St and Concha Dr
147 Day Dr
149 Day Dr
Barber St Bridge NW
151 Day Dr
Barber St & Joy Haven Dr
Barber St & Pelican Island Pl
Periwinkle Dr Bridge NW
Day Dr Easement
1346 Schumann Dr
183 Day Dr
Barber St Bridge SE
1342 Schumann Dr
Concha/Elkcam Dam
Periwinkle Dr Bridge SE
Periwinkle Park
Filbert Street Park
Bryant Court Park
Barber St & Nebraska Cir
Schumann Dr & Barber St

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

100-Year, 24-Hour Rainfall & 2070 Int-Low SLR

City Boundary (South)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

Not Vulnerable
Low
Medium
High

Davis St Baffle Box
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Working Waterfront
Working Waterfront Dock
Cleveland St Baffle Box
Fisherman's Landing Shoreline
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
C. Taylor House
US Hwy 1 & Coolidge St
Sebastian Blvd and US Hwy 1 (1)
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Fleming St Bridge N
Fleming St Bridge S

Matchline 1

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

100-Year/24-Hour Rainfall + 2070 Int-High SLR

City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 1

Matchline 2

Matchline 2

Criticality

- Not Vulnerable
- Low
- Medium
- High

Sebastian Blvd & S Wimbrow Dr (1)

Sebastian Bark Park

Historical Park

Schumann Dr & Railroad

Sebastian Blvd & S Fleming St

Martin Ave Baffle Box

Blossom St Park

Barber St & Sebastian Blvd

Schumann Lake Park

Schumann Lake Bridge E

Garden Club Park

Schumann Lake Bridge W

Sebastian Blvd & Roseland Rd

Schumann Dr (4)

Schumann Park

Englar Dr Bridge E

Englar Dr Bridge W

Schumann Dr & Englar Dr

Barber St Sports Complex

Stormwater Park Pump Station

Schumann Dr (3)

Schumann Dr & Empress Ave

Stonecrop Park

Empress Ave (3)

Schumann Dr & S Easy St

Empress Ave (4)

Barber St & Englar Dr

Schumann Dr Bridge N

Empress Ave (2)

Schumann Dr Bridge S

Schumann Dr (2)

Empress Ave (1)

Cheltenham Lake Park

George Street Park

Barber St & Railroad

Schumann Dr (1)

143 Day Dr

145 Day Dr

Barber St and Concha Dr

147 Day Dr

149 Day Dr

Barber St Bridge NW

151 Day Dr

Barber St & Joy Haven Dr

Barber St & Pelican Island Pl

Periwinkle Dr Bridge NW

Day Dr Easement

1346 Schumann Dr

Barber St Bridge SE

183 Day Dr

Concha/Elkcam Dam

Periwinkle Dr Bridge SE

Periwinkle Park

Filbert Street Park

Bryant Court Park

Barber St & Nebraska Cir

Schumann Dr & Barber St

1342 Schumann Dr

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

100-Year, 24-Hour Rainfall & 2070 Int-High SLR

City Boundary (South)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Davis St Baffle Box
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Working Waterfront
Working Waterfront Dock
Cleveland St Baffle Box
Fisherman's Landing Shoreline
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
C. Taylor House
US Hwy 1 & Coolidge St
Sebastian Blvd and US Hwy 1 (1)
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Fleming St Bridge N
Fleming St Bridge S

Matchline 1

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

2040 Int-Low SLR

City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 1

Matchline 2

Matchline 2

Criticality

Not Vulnerable
Low
Medium
High

Sebastian Blvd & S Wimbrow Dr (1)

Sebastian Bark Park

Historical Park

Schumann Dr & Railroad

Sebastian Blvd & S Fleming St

Martin Ave Baffle Box

Blossom St Park

Barber St & Sebastian Blvd

Schumann Lake Park

Schumann Lake Bridge E

Garden Club Park

Schumann Lake Bridge W

Sebastian Blvd & Roseland Rd

Schumann Dr (4)

Schumann Park

Englar Dr Bridge E

Englar Dr Bridge W

Schumann Dr & Englar Dr

Stormwater Park Pump Station

Barber St Sports Complex

Schumann Dr (3)

Schumann Dr & Empress Ave

Stonecrop Park

Empress Ave (3)

Empress Ave (4)

Schumann Dr & S Easy St

Schumann Dr Bridge N

Empress Ave (2)

Barber St & Englar Dr

Schumann Dr Bridge S

Schumann Dr (2)

Empress Ave (1)

Cheltenham Lake Park

George Street Park

Schumann Dr (1)

Barber St & Railroad

143 Day Dr

Barber St and Concha Dr

145 Day Dr

147 Day Dr

149 Day Dr

Barber St Bridge NW

151 Day Dr

Barber St & Joy Haven Dr

Barber St & Pelican Island Pl

Periwinkle Dr Bridge NW

Day Dr Easement

183 Day Dr

1346 Schumann Dr

Barber St Bridge SE

Concha/Elkcam Dam

Filbert Street Park

Bryant Court Park

Barber St & Nebraska Cir

Schumann Dr & Barber St

1342 Schumann Dr

Periwinkle Dr Bridge SE

Periwinkle Park

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

2040 Int-Low SLR

City Boundary (South)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Davis St Baffle Box
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Working Waterfront
Working Waterfront Dock
Cleveland St Baffle Box
Fisherman's Landing Shoreline
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
C. Taylor House
US Hwy 1 & Coolidge St
Sebastian Blvd and US Hwy 1 (1)
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Fleming St Bridge N
Fleming St Bridge S

Matchline 1

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

2040 Int-High SLR

City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 1

Matchline 2

Matchline 2

Criticality

Not Vulnerable
Low
Medium
High

Sebastian Blvd & S Wimbrow Dr (1)

Sebastian Bark Park

Historical Park

Schumann Dr & Railroad

Sebastian Blvd & S Fleming St

Martin Ave Baffle Box

Blossom St Park

Barber St & Sebastian Blvd

Schumann Lake Park

Schumann Lake Bridge E

Garden Club Park

Schumann Lake Bridge W

Sebastian Blvd & Roseland Rd

Schumann Dr (4)

Schumann Park

Englar Dr Bridge E

Englar Dr Bridge W

Schumann Dr & Englar Dr

Stormwater Park Pump Station

Barber St Sports Complex

Schumann Dr (3)

Schumann Dr & Empress Ave

Empress Ave (3)

Stonecrop Park

Schumann Dr & S Easy St

Empress Ave (4)

Schumann Dr Bridge N

Empress Ave (2)

Barber St & Englar Dr

Schumann Dr Bridge S

Schumann Dr (2)

Empress Ave (1)

Cheltenham Lake Park

George Street Park

Schumann Dr (1)

Barber St & Railroad

143 Day Dr

Barber St and Concha Dr

145 Day Dr

147 Day Dr

Barber St Bridge NW

149 Day Dr

151 Day Dr

Barber St & Joy Haven Dr

Barber St & Pelican Island Pl

Periwinkle Dr Bridge NW

Day Dr Easement

183 Day Dr

Barber St Bridge SE

1346 Schumann Dr

Concha/Elkcam Dam

Periwinkle Dr Bridge SE

Periwinkle Park

Filbert Street Park

Bryant Court Park

Barber St & Nebraska Cir

Schumann Dr & Barber St

1342 Schumann Dr

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

2040 Int-High SLR

City Boundary (South)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Davis St Baffle Box
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Working Waterfront
Working Waterfront Dock
Cleveland St Baffle Box
Fisherman's Landing Shoreline
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
C. Taylor House
US Hwy 1 & Coolidge St
Sebastian Blvd and US Hwy 1 (1)
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Fleming St Bridge N
Fleming St Bridge S

Matchline 1

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

2070 Int-Low SLR

City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 1

Matchline 2

Matchline 2

Criticality

Not Vulnerable
Low
Medium
High

Sebastian Blvd & S Wimbrow Dr (1)

Sebastian Bark Park

Historical Park

Schumann Dr & Railroad

Sebastian Blvd & S Fleming St

Martin Ave Baffle Box

Blossom St Park

Barber St & Sebastian Blvd

Schumann Lake Park

Schumann Lake Bridge E

Garden Club Park

Schumann Lake Bridge W

Sebastian Blvd & Roseland Rd

Schumann Dr (4)

Schumann Park

Englar Dr Bridge E

Englar Dr Bridge W

Schumann Dr & Englar Dr

Stormwater Park Pump Station

Barber St Sports Complex

Schumann Dr (3)

Schumann Dr & Empress Ave

Empress Ave (3)

Stonecrop Park

Schumann Dr & S Easy St

Empress Ave (4)

Schumann Dr Bridge N

Empress Ave (2)

Barber St & Englar Dr

Schumann Dr Bridge S

Schumann Dr (2)

Empress Ave (1)

Cheltenham Lake Park

George Street Park

Schumann Dr (1)

Barber St & Railroad

143 Day Dr

Barber St and Concha Dr

145 Day Dr

147 Day Dr

Barber St Bridge NW

149 Day Dr

151 Day Dr

Barber St & Joy Haven Dr

Barber St & Pelican Island Pl

Periwinkle Dr Bridge NW

Day Dr Easement

183 Day Dr

Barber St Bridge SE

1346 Schumann Dr

Concha/Elkcam Dam

Filbert Street Park

Bryant Court Park

Barber St & Nebraska Cir

Schumann Dr & Barber St

1342 Schumann Dr

Periwinkle Dr Bridge SE

Periwinkle Park

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

2070 Int-Low SLR

City Boundary (South)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Davis St Baffle Box
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Working Waterfront
Working Waterfront Dock
Cleveland St Baffle Box
Fisherman's Landing Shoreline
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
C. Taylor House
US Hwy 1 & Coolidge St
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Sebastian Blvd and US Hwy 1 (1)
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Fleming St Bridge N
Fleming St Bridge S

Matchline 1

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

2070 Int-High SLR

City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 1

Matchline 2

Matchline 2

Criticality

Not Vulnerable
Low
Medium
High

Sebastian Blvd & S Wimbrow Dr (1)

Sebastian Bark Park

Historical Park

Schumann Dr & Railroad

Sebastian Blvd & S Fleming St

Martin Ave Baffle Box

Blossom St Park

Barber St & Sebastian Blvd

Schumann Lake Park

Schumann Lake Bridge E

Garden Club Park

Schumann Lake Bridge W

Sebastian Blvd & Roseland Rd

Schumann Dr (4)

Schumann Park

Englar Dr Bridge E

Englar Dr Bridge W

Schumann Dr & Englar Dr

Stormwater Park Pump Station

Barber St Sports Complex

Schumann Dr (3)

Schumann Dr & Empress Ave

Empress Ave (3)

Stonecrop Park

Schumann Dr & S Easy St

Empress Ave (4)

Schumann Dr Bridge N

Empress Ave (2)

Barber St & Englar Dr

Schumann Dr Bridge S

Schumann Dr (2)

Empress Ave (1)

Cheltenham Lake Park

George Street Park

Schumann Dr (1)

Barber St & Railroad

143 Day Dr

Barber St and Concha Dr

145 Day Dr

147 Day Dr

Barber St Bridge NW

149 Day Dr

151 Day Dr

Barber St & Joy Haven Dr

Barber St & Pelican Island Pl

Periwinkle Dr Bridge NW

Day Dr Easement

183 Day Dr

Barber St Bridge SE

1346 Schumann Dr

Concha/Elkcam Dam

Periwinkle Dr Bridge SE

Periwinkle Park

Filbert Street Park

Bryant Court Park

Barber St & Nebraska Cir

Schumann Dr & Barber St

1342 Schumann Dr

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

2070 Int-High SLR

City Boundary (South)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Davis St Baffle Box
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Working Waterfront
Working Waterfront Dock
Cleveland St Baffle Box
Fisherman's Landing Shoreline
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
C. Taylor House
US Hwy 1 & Coolidge St
Sebastian Blvd and US Hwy 1 (1)
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Fleming St Bridge N
Fleming St Bridge S

Matchline 1

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Current Tidal

City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 1

Matchline 2

Matchline 2

Criticality

Not Vulnerable
Low
Medium
High

Sebastian Blvd & S Wimbrow Dr (1)

Sebastian Bark Park

Historical Park

Schumann Dr & Railroad

Sebastian Blvd & S Fleming St

Martin Ave Baffle Box

Blossom St Park

Barber St & Sebastian Blvd

Schumann Lake Park

Schumann Lake Bridge E

Garden Club Park

Schumann Lake Bridge W

Sebastian Blvd & Roseland Rd

Schumann Dr (4)

Schumann Park

Englar Dr Bridge E

Englar Dr Bridge W

Schumann Dr & Englar Dr

Stormwater Park Pump Station

Barber St Sports Complex

Schumann Dr (3)

Schumann Dr & Empress Ave

Empress Ave (3)

Stonecrop Park

Schumann Dr & S Easy St

Empress Ave (4)

Schumann Dr Bridge N

Empress Ave (2)

Barber St & Englar Dr

Schumann Dr Bridge S

Schumann Dr (2)

Empress Ave (1)

Cheltenham Lake Park

George Street Park

Schumann Dr (1)

Barber St & Railroad

143 Day Dr

Barber St and Concha Dr

145 Day Dr

147 Day Dr

Barber St Bridge NW

149 Day Dr

151 Day Dr

Barber St & Joy Haven Dr

Barber St & Pelican Island Pl

Periwinkle Dr Bridge NW

Day Dr Easement

183 Day Dr

Barber St Bridge SE

1346 Schumann Dr

Concha/Elkcam Dam

Filbert Street Park

Bryant Court Park

Barber St & Nebraska Cir

Schumann Dr & Barber St

1342 Schumann Dr

Periwinkle Dr Bridge SE

Periwinkle Park

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Current Tidal

City Boundary (South)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Davis St Baffle Box
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Working Waterfront
Working Waterfront Dock
Cleveland St Baffle Box
Fisherman's Landing Shoreline
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
C. Taylor House
US Hwy 1 & Coolidge St
Sebastian Blvd and US Hwy 1 (1)
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Fleming St Bridge N
Fleming St Bridge S

Matchline 1

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Compound Tidal & 2040 Int-Low SLR

City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 1

Matchline 2

Matchline 2

Criticality

Not Vulnerable
Low
Medium
High

Sebastian Blvd & S Wimbrow Dr (1)

Sebastian Bark Park

Historical Park

Schumann Dr & Railroad

Sebastian Blvd & S Fleming St

Martin Ave Baffle Box

Blossom St Park

Barber St & Sebastian Blvd

Schumann Lake Park

Schumann Lake Bridge E

Garden Club Park

Schumann Lake Bridge W

Sebastian Blvd & Roseland Rd

Schumann Dr (4)

Schumann Park

Englar Dr Bridge E

Englar Dr Bridge W

Schumann Dr & Englar Dr

Stormwater Park Pump Station

Barber St Sports Complex

Schumann Dr (3)

Schumann Dr & Empress Ave

Stonecrop Park

Empress Ave (3)

Empress Ave (4)

Schumann Dr & S Easy St

Schumann Dr Bridge N

Empress Ave (2)

Barber St & Englar Dr

Schumann Dr Bridge S

Schumann Dr (2)

Empress Ave (1)

Cheltenham Lake Park

George Street Park

Schumann Dr (1)

Barber St & Railroad

143 Day Dr

Barber St and Concha Dr

145 Day Dr

147 Day Dr

Barber St Bridge NW

149 Day Dr

151 Day Dr

Barber St & Joy Haven Dr

Barber St & Pelican Island Pl

Periwinkle Dr Bridge NW

Day Dr Easement

183 Day Dr

Barber St Bridge SE

1346 Schumann Dr

Concha/Elkcam Dam

Filbert Street Park

Bryant Court Park

Barber St & Nebraska Cir

Schumann Dr & Barber St

1342 Schumann Dr

Periwinkle Dr Bridge SE

Periwinkle Park

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Compound Tidal & 2040 Int-Low SLR

City Boundary (South)

Sensitivity Analysis

VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Davis St Baffle Box
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Working Waterfront
Working Waterfront Dock
Cleveland St Baffle Box
Fisherman's Landing Shoreline
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Fleming St Bridge N
Fleming St Bridge S
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
C. Taylor House
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
US Hwy 1 & Coolidge St
Sebastian Blvd and US Hwy 1 (1)
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks

Matchline 1

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Compound Tidal & 2040 Int-High SLR

City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 1

Matchline 2

Matchline 2

Criticality

Not Vulnerable
Low
Medium
High

Sebastian Blvd & S Wimbrow Dr (1)

Sebastian Bark Park

Historical Park

Schumann Dr & Railroad

Sebastian Blvd & S Fleming St

Martin Ave Baffle Box

Blossom St Park

Barber St & Sebastian Blvd

Schumann Lake Park

Schumann Lake Bridge E

Garden Club Park

Schumann Lake Bridge W

Sebastian Blvd & Roseland Rd

Schumann Dr (4)

Schumann Park

Englar Dr Bridge E

Englar Dr Bridge W

Schumann Dr & Englar Dr

Stormwater Park Pump Station

Barber St Sports Complex

Schumann Dr (3)

Schumann Dr & Empress Ave

Empress Ave (3)

Stonecrop Park

Schumann Dr & S Easy St

Empress Ave (4)

Schumann Dr Bridge N

Empress Ave (2)

Barber St & Englar Dr

Schumann Dr Bridge S

Schumann Dr (2)

Empress Ave (1)

George Street Park

Cheltenham Lake Park

Schumann Dr (1)

Barber St & Railroad

143 Day Dr

Barber St and Concha Dr

145 Day Dr

147 Day Dr

Barber St Bridge NW

149 Day Dr

151 Day Dr

Barber St & Joy Haven Dr

Barber St & Pelican Island Pl

Periwinkle Dr Bridge NW

Day Dr Easement

183 Day Dr

Barber St Bridge SE

1346 Schumann Dr

Concha/Elkcam Dam

Filbert Street Park

Bryant Court Park

Barber St & Nebraska Cir

Schumann Dr & Barber St

1342 Schumann Dr

Periwinkle Dr Bridge SE

Periwinkle Park

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Compound Tidal & 2040 Int-High SLR

City Boundary (South)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Davis St Baffle Box
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Working Waterfront
Working Waterfront Dock
Cleveland St Baffle Box
Fisherman's Landing Shoreline
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Fleming St Bridge N
Fleming St Bridge S
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
C. Taylor House
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
US Hwy 1 & Coolidge St
Sebastian Blvd and US Hwy 1 (1)
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks

Matchline 1

Matchline 1

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Kimley»Horn

Compound Tidal & 2070 Int-Low SLR

City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 2

Matchline 2

Criticality

Not Vulnerable
Low
Medium
High

Sebastian Blvd & S Wimbrow Dr (1)

Sebastian Bark Park

Historical Park

Schumann Dr & Railroad

Sebastian Blvd & S Fleming St

Martin Ave Baffle Box

Blossom St Park

Barber St & Sebastian Blvd

Schumann Lake Park

Schumann Lake Bridge E

Garden Club Park

Schumann Lake Bridge W

Sebastian Blvd & Roseland Rd

Schumann Dr (4)

Schumann Park

Englar Dr Bridge E

Englar Dr Bridge W

Schumann Dr & Englar Dr

Stormwater Park Pump Station

Barber St Sports Complex

Schumann Dr (3)

Schumann Dr & Empress Ave

Stonecrop Park

Empress Ave (3)

Empress Ave (4)

Schumann Dr & S Easy St

Schumann Dr Bridge N

Empress Ave (2)

Barber St & Englar Dr

Schumann Dr Bridge S

Schumann Dr (2)

Empress Ave (1)

Cheltenham Lake Park

George Street Park

Schumann Dr (1)

Barber St & Railroad

143 Day Dr

Barber St and Concha Dr

145 Day Dr

147 Day Dr

149 Day Dr

Barber St Bridge NW

151 Day Dr

Barber St & Joy Haven Dr

Barber St & Pelican Island Pl

Periwinkle Dr Bridge NW

Day Dr Easement

183 Day Dr

Barber St Bridge SE

1346 Schumann Dr

Concha/Elkcam Dam

Filbert Street Park

Bryant Court Park

Barber St & Nebraska Cir

Schumann Dr & Barber St

1342 Schumann Dr

Periwinkle Dr Bridge SE

Periwinkle Park

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Compound Tidal & 2070 Int-Low SLR

City Boundary (South)

Sensitivity Analysis

VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Davis St Baffle Box
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Working Waterfront
Working Waterfront Dock
Cleveland St Baffle Box
Fisherman's Landing Shoreline
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
C. Taylor House
US Hwy 1 & Coolidge St
Sebastian Blvd and US Hwy 1 (1)
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Fleming St Bridge N
Fleming St Bridge S

Matchline 1

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Compound Tidal & 2070 Int-High SLR

City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 1

Matchline 2

Matchline 2

Criticality

- Not Vulnerable
- Low
- Medium
- High

Sebastian Blvd & S Wimbrow Dr (1)
Sebastian Bark Park
Historical Park
Schumann Dr & Railroad
Sebastian Blvd & S Fleming St
Martin Ave Baffle Box
Blossom St Park
Barber St & Sebastian Blvd
Schumann Lake Park
Schumann Lake Bridge E
Garden Club Park
Schumann Lake Bridge W
Sebastian Blvd & Roseland Rd
Schumann Dr (4)
Schumann Park
Englar Dr Bridge E
Englar Dr Bridge W
Schumann Dr & Englar Dr
Stormwater Park Pump Station
Barber St Sports Complex
Schumann Dr (3)
Schumann Dr & Empress Ave
Empress Ave (3)
Stonecrop Park
Schumann Dr & S Easy St
Empress Ave (4)
Schumann Dr Bridge N
Empress Ave (2)
Barber St & Englar Dr
Schumann Dr Bridge S
Schumann Dr (2)
Empress Ave (1)
Cheltenham Lake Park
George Street Park
Barber St & Railroad
Schumann Dr (1)
143 Day Dr
Barber St and Concha Dr
145 Day Dr
147 Day Dr
149 Day Dr
Barber St Bridge NW
151 Day Dr
Barber St & Joy Haven Dr
Barber St & Pelican Island Pl
Periwinkle Dr Bridge NW
Day Dr Easement
183 Day Dr
Barber St Bridge SE
1346 Schumann Dr
Concha/Elkcam Dam
Filbert Street Park
Bryant Court Park
Barber St & Nebraska Cir
Schumann Dr & Barber St
1342 Schumann Dr
Periwinkle Dr Bridge SE
Periwinkle Park

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Compound Tidal & 2070 Int-High SLR

City Boundary (South)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Davis St Baffle Box
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Cleveland St Baffle Box
Working Waterfront
Working Waterfront Dock
Fisherman's Landing Shoreline
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
C. Taylor House
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
US Hwy 1 & Coolidge St
Sebastian Blvd and US Hwy 1 (1)
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
Fleming St Bridge N
Fleming St Bridge S

Matchline 1

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Current Storm Surge

City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 1

Matchline 2

Matchline 2

Criticality

- Not Vulnerable
- Low
- Medium
- High

Sebastian Blvd & S Wimbrow Dr (1)
Sebastian Bark Park
Historical Park
Schumann Dr & Railroad
Sebastian Blvd & S Fleming St
Martin Ave Baffle Box
Blossom St Park
Barber St & Sebastian Blvd
Schumann Lake Park
Schumann Lake Bridge E
Garden Club Park
Schumann Lake Bridge W
Sebastian Blvd & Roseland Rd
Schumann Dr (4)
Schumann Park
Englar Dr Bridge E
Englar Dr Bridge W
Schumann Dr & Englar Dr
Stormwater Park Pump Station
Barber St Sports Complex
Schumann Dr (3)
Schumann Dr & Empress Ave
Empress Ave (3)
Stonecrop Park
Schumann Dr & S Easy St
Empress Ave (4)
Schumann Dr Bridge N
Empress Ave (2)
Barber St & Englar Dr
Schumann Dr Bridge S
Schumann Dr (2)
Empress Ave (1)
Cheltenham Lake Park
George Street Park
Schumann Dr (1)
Barber St & Railroad
143 Day Dr
Barber St and Concha Dr
145 Day Dr
147 Day Dr
149 Day Dr
Barber St Bridge NW
151 Day Dr
Barber St & Joy Haven Dr
Barber St & Pelican Island Pl
Periwinkle Dr Bridge NW
Day Dr Easement
183 Day Dr
Barber St Bridge SE
1346 Schumann Dr
Concha/Elkcam Dam
Filbert Street Park
Bryant Court Park
Barber St & Nebraska Cir
Schumann Dr & Barber St
1342 Schumann Dr
Periwinkle Dr Bridge SE
Periwinkle Park

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Current Storm Surge

City Boundary (South)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Davis St Baffle Box
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Working Waterfront
Working Waterfront Dock
Cleveland St Baffle Box
Fisherman's Landing Shoreline
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
C. Taylor House
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
US Hwy 1 & Coolidge St
Sebastian Blvd and US Hwy 1 (1)
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
Fleming St Bridge N
Fleming St Bridge S

Matchline 1

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Compound Storm Surge & 2040 Int-Low SLR

City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 1

Matchline 2

Matchline 2

Criticality

- Not Vulnerable
- Low
- Medium
- High

Sebastian Blvd & S Wimbrow Dr (1)
Sebastian Bark Park
Historical Park
Schumann Dr & Railroad
Sebastian Blvd & S Fleming St
Martin Ave Baffle Box
Blossom St Park
Barber St & Sebastian Blvd
Schumann Lake Park
Schumann Lake Bridge E
Garden Club Park
Schumann Lake Bridge W
Sebastian Blvd & Roseland Rd
Schumann Dr (4)
Schumann Park
Englar Dr Bridge E
Englar Dr Bridge W
Schumann Dr & Englar Dr
Stormwater Park Pump Station
Barber St Sports Complex
Schumann Dr (3)
Schumann Dr & Empress Ave
Empress Ave (3)
Stonecrop Park
Schumann Dr & S Easy St
Empress Ave (4)
Schumann Dr Bridge N
Empress Ave (2)
Barber St & Englar Dr
Schumann Dr Bridge S
Schumann Dr (2)
Empress Ave (1)
Cheltenham Lake Park
George Street Park
Barber St & Railroad
Schumann Dr (1)
143 Day Dr
Barber St and Concha Dr
145 Day Dr
147 Day Dr
149 Day Dr
Barber St Bridge NW
151 Day Dr
Barber St & Joy Haven Dr
Barber St & Pelican Island Pl
Periwinkle Dr Bridge NW
Day Dr Easement
183 Day Dr
Barber St Bridge SE
1346 Schumann Dr
Concha/Elkcam Dam
Filbert Street Park
Bryant Court Park
Barber St & Nebraska Cir
Schumann Dr & Barber St
1342 Schumann Dr
Periwinkle Dr Bridge SE
Periwinkle Park

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Compound Storm Surge & 2040 Int-Low SLR

City Boundary (South)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Davis St Baffle Box
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Working Waterfront
Working Waterfront Dock
Cleveland St Baffle Box
Fisherman's Landing Shoreline
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Fleming St Bridge N
Fleming St Bridge S
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
C. Taylor House
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
US Hwy 1 & Coolidge St
Sebastian Blvd and US Hwy 1 (1)
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks

Matchline 1

Matchline 1

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Compound Storm Surge & 2040 Int-High SLR

City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 2

Matchline 2

Criticality

- Not Vulnerable
- Low
- Medium
- High

Sebastian Blvd & S Wimbrow Dr (1)
Sebastian Bark Park
Historical Park
Schumann Dr & Railroad
Sebastian Blvd & S Fleming St
Martin Ave Baffle Box
Blossom St Park
Barber St & Sebastian Blvd
Schumann Lake Park
Schumann Lake Bridge E
Garden Club Park
Schumann Lake Bridge W
Sebastian Blvd & Roseland Rd
Schumann Dr (4)
Schumann Park
Englar Dr Bridge E
Englar Dr Bridge W
Schumann Dr & Englar Dr
Stormwater Park Pump Station
Barber St Sports Complex
Schumann Dr (3)
Schumann Dr & Empress Ave
Empress Ave (3)
Stonecrop Park
Schumann Dr & S Easy St
Empress Ave (4)
Schumann Dr Bridge N
Empress Ave (2)
Barber St & Englar Dr
Schumann Dr Bridge S
Schumann Dr (2)
Empress Ave (1)
Cheltenham Lake Park
George Street Park
Barber St & Railroad
Schumann Dr (1)
143 Day Dr
Barber St and Concha Dr
145 Day Dr
147 Day Dr
149 Day Dr
Barber St Bridge NW
151 Day Dr
Barber St & Joy Haven Dr
Barber St & Pelican Island Pl
Periwinkle Dr Bridge NW
Day Dr Easement
183 Day Dr
Barber St Bridge SE
1346 Schumann Dr
Concha/Elkcam Dam
Filbert Street Park
Bryant Court Park
Barber St & Nebraska Cir
Schumann Dr & Barber St
1342 Schumann Dr
Periwinkle Dr Bridge SE
Periwinkle Park

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Compound Storm Surge & 2040 Int-High SLR

City Boundary (South)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Davis St Baffle Box
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Sembler and Sembler Inc.
McCain Garage
Working Waterfront North Dock
Working Waterfront
Working Waterfront Dock
Cleveland St Baffle Box
Fisherman's Landing Shoreline
Park Cemetery
Sebastian Community Center
O. Bland House
US Hwy 1 & Jackson St
US Hwy 1 & Davis St
Indian River Dr Baffle Box (1)
Indian River Dr Baffle Box (2)
W. Baughman House
G. Braddock House
Main St Railroad
Friendship Park
Main St & Louisiana Ave
Sebastian Police Department
Sebastian City Hall
Main St & Gibson St
J. Beugnot House
C. Gulledge House
F. Devane House
Carlile House
C. Hardee House
Harrison House
US Hwy 1 and Jefferson St
Mel Fisher's Treasure Museum
Indian River Dr Baffle Box (3)
Sebastian Rotary Club Boardwalk
Main St and US Hwy 1
Hardee Oak Tree
Main St and Indian River Dr
Main St and Indian River Dr Dock
Main St Boat Ramp
Main St Boat Ramp Shoreline
V. Braddock House
M. Braddock House
S. Vickers House
Washington St Baffle Box
Indian River Dr and Washington St
P. Lawson House
Old Town Hall
B. Day House
J. Gray House
Indian River Dr and Martin Ave
A. Hancock House
Fisherman's Landing Baffle Box
Sebastian Yacht Club Dock
Sebastian Yacht Club
Yacht Club Seawall
Indian River Dr and Cleveland St
Sebastian Blvd and Indian River Dr
Riverview Park Baffle Box
Indian River Dr & Coolidge St
Indian River Dr and Harrison St
H. Field House
B. Ryall House
F. Carpenter House
O. Carpenter House
Vicker's Store
E. Sembler House
E. Suddard House
Woman's Club
Sebastian Blvd & Ashbury Blvd
C. Taylor House
Sebastian Blvd and S Wimbrow Dr (2)
Sebastian Blvd & Railroad (2)
Sebastian Blvd & US Hwy 1 (2)
Sebastian Blvd & Old Dixie Hwy
Sebastian Blvd & Railroad (1)
US Hwy 1 & Coolidge St
Sebastian Blvd and US Hwy 1 (1)
Coolidge St Baffle Box
P. Stevenson House
Riverview Park
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks
Main St. and Easy St
Sebastian Municipal Airport
Main St. & Airport Dr E
Sebastian Municipal Golf Course
Barber St Bridge E
Barber St Bridge W
Barber St & Wimbrow Dr
Hardee Park
Sebastian Blvd & Delaware Ave
Easy St Park
Sebastian Blvd & Easy St
Fleming St Bridge N
Fleming St Bridge S

Matchline 1

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Compound Storm Surge & 2070 Int-Low SLR

City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Matchline 1

Matchline 2

Matchline 2

Criticality

- Not Vulnerable
- Low
- Medium
- High

Sebastian Blvd & S Wimbrow Dr (1)
Sebastian Bark Park
Historical Park
Schumann Dr & Railroad
Sebastian Blvd & S Fleming St
Martin Ave Baffle Box
Blossom St Park
Barber St & Sebastian Blvd
Schumann Lake Park
Schumann Lake Bridge E
Garden Club Park
Schumann Lake Bridge W
Sebastian Blvd & Roseland Rd
Schumann Dr (4)
Schumann Park
Englar Dr Bridge E
Englar Dr Bridge W
Schumann Dr & Englar Dr
Stormwater Park Pump Station
Barber St Sports Complex
Schumann Dr (3)
Schumann Dr & Empress Ave
Empress Ave (3)
Stonecrop Park
Schumann Dr & S Easy St
Empress Ave (4)
Schumann Dr Bridge N
Empress Ave (2)
Barber St & Englar Dr
Schumann Dr Bridge S
Schumann Dr (2)
Empress Ave (1)
Cheltenham Lake Park
George Street Park
Barber St & Railroad
Schumann Dr (1)
143 Day Dr
Barber St and Concha Dr
145 Day Dr
147 Day Dr
149 Day Dr
Barber St Bridge NW
151 Day Dr
Barber St & Joy Haven Dr
Barber St & Pelican Island Pl
Periwinkle Dr Bridge NW
Day Dr Easement
183 Day Dr
Barber St Bridge SE
1346 Schumann Dr
Concha/Elkcam Dam
Filbert Street Park
Bryant Court Park
Barber St & Nebraska Cir
Schumann Dr & Barber St
1342 Schumann Dr
Periwinkle Dr Bridge SE
Periwinkle Park

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Compound Storm Surge & 2070 Int-Low SLR

City Boundary (South)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Legend

- City of Sebastian Municipal Boundary
- Airport
- Roadway Intersections
- Marinas (Docks)
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/Shorelines
- Parks

Criticality

- Not Vulnerable
- Low
- Medium
- High

Carlile House
Archie Smith Wholesale Fish Co.
May's Marina (Floodtide)
Working Waterfront
Park Cemetary
Sebastian Community Center
Davis St Baffle Box
McCain Garage
O. Bland House
Sembler and Sembler Inc.
Working Waterfront North Dock
US Hwy 1 and Jackson St
Indian River Dr Baffle Box (1)
Working Waterfront Dock
US Hwy 1 and Davis St
Indian River Dr Baffle Box (2)
Cleveland St Baffle Box
US Hwy 1 and Jefferson St
Fisherman's Landing Shoreline
Mel Fisher's Treasure Museum
Sebastian Police Department
C. Hardee House
Main St Boat Ramp Shoreline
Harrison House
W. Baughman House
Main St and Louisiana Ave
Indian River Dr Baffle Box (3)
Friendship Park
Sebastian Rotary Club Boardwalk
G. Braddock House
Main St and Indian River Dr Dock
Sebastian City Hall
B. Day House
Main St and Indian River Dr
J. Beugnot House
Hardee Oak Tree
Main St Boat Ramp
C. Gulledge House
Main St and US Hwy 1
Main St. and Easy St
Vicker's Store
Main St and Gibson St
S. Vickers House
B. Ryall House
V. Braddock House
F. Devane House
P. Lawson House
Sebastian Municipal Airport
M. Braddock House
Washington St Baffle Box
Indian River Dr and Washington St
Sebastian Blvd and US Hwy 1 (1)
Main St Railroad
Old Town Hall
Fisherman's Landing Baffle Box
Sebastian Blvd and Railroad (1)
H. Field House
Sebastian Yacht Club Dock
F. Carpenter House
Yacht Club Seawall
Sebastian Municipal Golf Course
Indian River Dr and Martin Ave
Sebastian Yacht Club
O. Carpenter House
Indian River Dr and Cleveland St
E. Sembler House
Coolidge St Baffle Box
P. Stevenson House
E. Suddard House
Woman's Club
Indian River Dr and Coolidge St
US Hwy 1 and Coolidge St
Sebastian Blvd and Indian River Dr
J. Gray House
C. Taylor House
Riverview Park Baffle Box
Riverview Park
Indian River Dr and Harrison St
A. Hancock House
Sebastian Blvd and S Wimbrow Dr
Sebastian Blvd and Ashbury Blvd
Sebastian Blvd and Old Dixie Hwy
Sebastian Blvd and US Hwy 1 (2)
Sebastian Blvd and Railroad (2)
Riverview Park Shoreline
Sebastian Blvd E and Indian River Dr, Twin Piers North, and Twin Piers South Docks
Main St. and Airport Dr E

Matchline

Matchline

Kimley»Horn

N

0 0.13 0.25 0.5 0.75 1 Miles

Compound Storm Surge & 2070 Int-High Sea Level Rise

City Boundary (North)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

Kimley»Horn

Matchline 2

Matchline 2

Criticality

- Not Vulnerable
- Low
- Medium
- High

Sebastian Blvd & S Wimbrow Dr (1)
Sebastian Bark Park
Historical Park
Schumann Dr & Railroad
Sebastian Blvd & S Fleming St
Martin Ave Baffle Box
Blossom St Park
Barber St & Sebastian Blvd
Schumann Lake Park
Schumann Lake Bridge E
Garden Club Park
Schumann Lake Bridge W
Sebastian Blvd & Roseland Rd
Schumann Dr (4)
Schumann Park
Englar Dr Bridge E
Englar Dr Bridge W
Schumann Dr & Englar Dr
Stormwater Park Pump Station
Barber St Sports Complex
Schumann Dr (3)
Schumann Dr & Empress Ave
Empress Ave (3)
Stonecrop Park
Schumann Dr & S Easy St
Empress Ave (4)
Schumann Dr Bridge N
Empress Ave (2)
Barber St & Englar Dr
Schumann Dr Bridge S
Schumann Dr (2)
Empress Ave (1)
Cheltenham Lake Park
George Street Park
Barber St & Railroad
Schumann Dr (1)
143 Day Dr
Barber St and Concha Dr
145 Day Dr
147 Day Dr
149 Day Dr
Barber St Bridge NW
151 Day Dr
Barber St & Joy Haven Dr
Barber St & Pelican Island Pl
Periwinkle Dr Bridge NW
Day Dr Easement
1346 Schumann Dr
Barber St Bridge SE
183 Day Dr
Concha/Elkcam Dam
Filbert Street Park
Bryant Court Park
Barber St & Nebraska Cir
Schumann Dr & Barber St
1342 Schumann Dr
Periwinkle Dr Bridge SE
Periwinkle Park

Legend

- City of Sebastian Municipal Boundary
- Roadway Intersections
- Bridge Landings
- Pump Station
- Baffle Boxes
- Seawalls/Shorelines
- Parks

Kimley»Horn

N

0 0.17 0.35 0.7 1.05 1.4 Miles

Compound Storm Surge & 2070 Int-High SLR

City Boundary (South)
Sensitivity Analysis
VULNERABILITY ASSESSMENT

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

APPENDIX J

FOCUS AREAS MEETING AGENDA

City of Sebastian Vulnerability Assessment

Focus Areas Meeting Agenda

June 19, 2024

1.0 Introductions

City of Sebastian Project Manager – Karen Miller, P.E.

Kimley-Horn Project Manager – Chris Niforatos, P.E.

2.0 Focus Area Overview

3.0 Discussion/Questions

4.0 Adjourn

City of Sebastian Vulnerability Assessment

Focus Areas Meeting Attendance

June 19, 2024

Team/Committee Members:

Karen Miller, P.E. – Public Works Director	KMiller@cityofsebastian.org
Richard Blankenship – Parks Recreation and Facilities Director	rblankenship@cityofsebastian.org
Alix Bernard – Community Development Director	abernard@cityofsebastian.org
Brian Benton – City Manager	bbenton@cityofsebastian.org
Shelby Rocha, E.I. - Kimley-Horn, Project Engineer	shelby.rocha@kimley-horn.com
Chris Niforatos, P.E. - Kimley-Horn, Project Manager	chris.niforatos@kimley-horn.com
Shepard Smith, E.I. – Kimley-Horn, Intern	shepard.smith@kimley-horn.com

Meeting Summary/Key Points

- Meeting commenced at approximately 10:00 AM with introductions
- SR began by outlining project objectives and analysis locations
    - Task review included:
        - Exposure analysis – Determination of the depth of flooding at each City asset
        - Sensitivity analysis – Discussion of assets that were found to be particularly vulnerable in various storm scenarios
- Focus Areas overview
    - Purpose - to gain feedback and comments on Focus Areas to aid potential adaptation strategies or future planning
    - Focus Area 1 – US Highway 1 / Indian River Dr
        - SR outlined the results of the Sensitivity Analysis in which critical assets along the Indian River Lagoon were found to be highly vulnerable to storm surge and tidal events
        - SR reviewed storm scenario elevations which included the current 100-Year storm surge (just below 7-ft), the compound SLR 2040 High and storm surge (8-ft), and the compound SLR 2070 High and storm surge (9-ft). SR explained the criteria for determining if critical assets were vulnerable
            - Buildings received a “High” ranking if flooding exceeded the finished floor
            - Roads received a "High" ranking if flood depth exceeded the crown of the road
            - Building finished floor elevation was determined by the average building footprint elevation plus an additional foot
        - AB questioned the true extent of flooding at Friendship Park with what was shown in the model
            - CN clarified floodplains did not account for stormwater infrastructure. Modeled inundation extents are conservative and might not perfectly match historically observed flooding.
        - KM indicated that the results of the exposure analysis floodplains flanged up with anecdotal flooding in the City at Riverview Park and Main St
        - SR specified that Historical Sites adjacent to, but outside of Focus Area 1 were omitted from the focus area due to the low sensitivity level
    - Focus Area 2 – Airport and Golf Course
        - SR stated that both the airport and golf course assets ranked “Medium” sensitivity with between 25-75% flooding inundation by area.
        - RB asked a question regarding retention ponds overtopping and that being the cause of flooding
            - CN answered that it appears the ponds are breaching resulting in flooding around the ponds

- SR indicated that the road shoulder along Main St near the airport was flooded, resulting in vulnerability rankings of “High”. The City confirmed that historical observations of flooding agree with the model results

- Focus Area 3 – Elkcam Waterway
  - SR described how Focus Area 3 was vulnerable to rainfall and compound rainfall due to its proximity to the canal
  - SR described the results of the analysis of the Concha Dam relative to its weir elevations. Analysis showed that flooding only reached the lowest weir elevation, resulting in a "Low" vulnerability ranking
    - The control elevations used in analyses were derived from the original dam plans. These do not account for changes due to sedimentation
  - The City recalls Hurricane Ian flooding and confirmed the Concha Dam was overtopped. However, the 500-year storm event displayed no overtopping
    - KM indicated a desire to analyze the storage area of the canal to determine if that may be the cause of flooding
    - CN asked about the privately-owned bulkheads of the bridges and how he has witnessed sand piling up, the ability to dredge the canal to increase capacity could be investigated but needs to consider potential impacts to private bulkheads
  - Periwinkle Park and Joy Haven Dr bridge were also included in Focus Area 3
  - KM requested to address Skyline Ln and Yearling Trl which are large historical flooding locations not within Focus Area 3. KM requested that Kimley-Horn include those assets in Focus Area 3
- Focus Area 4 –Stone Crop Park
  - SR indicated that Barber Street Complex received a "Low" vulnerability ranking, meaning it was flooded up to 25% by area
  - SR stated that Stonecrop Park experiences overflow flooding from the river as well as ditch overtopping
  - RB mentioned that the road adjacent to the Barber Street Sports Complex, Tulip Dr, experiences flooding regularly
  - CN described how storm drains and structures can be surcharged quickly when low lying impervious areas experience intense rainfall
- Focus Area 5 – Schumann Lake Park
  - The majority of City owned sea walls are located in and along canals. They received vulnerability ratings of “High”, as they were all overtopped in all rainfall scenarios
  - Schumann Lake Park experienced flooding from overtopping of the river. KM suggested drainage leading to Schumann Lake Park might back up and flood streets further away when the lake overtops
  - KM raised more concern about the seawalls and discussed if non-City owned seawalls were overtopped
    - SR stated that the non-City owned seawalls were not evaluated

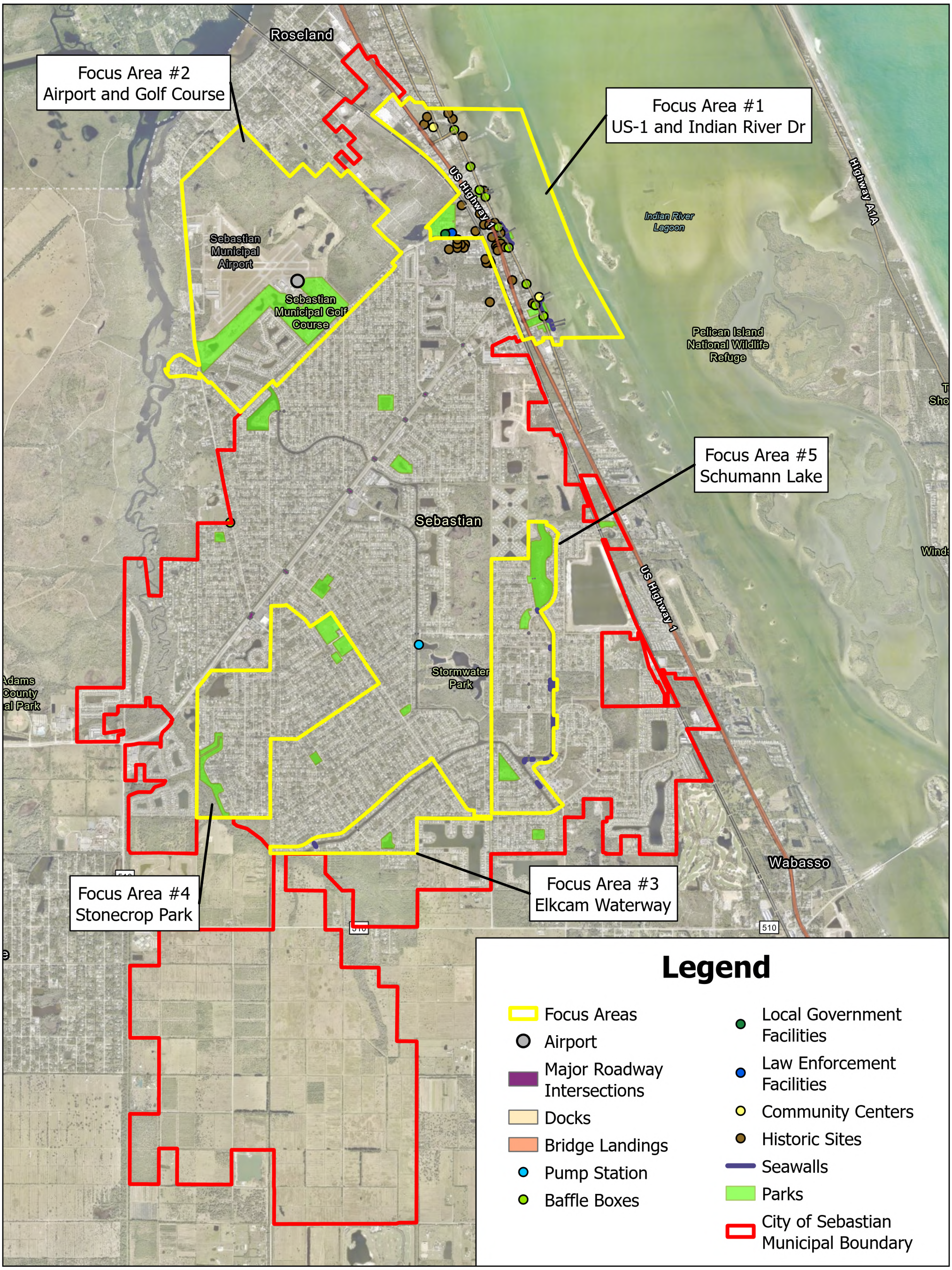
- AB asked the development of adaptation/intervention responses to vulnerabilities, SR explained that the adaptation plan task is not included in the scope
    - CN indicated that an adaptation plan can be prepared for an additional fee.
- Meeting adjourned at approximately 10:50 AM.

Action Items:

- Kimley-Horn will make changes to Focus Area 3 to include Skyline Ln and Yearling Trl
- Kimley-Horn will send GIS project package to the City
- City will turn-around any comments/edits within approximately 2 weeks
- Kimley-Horn to provide a scope/fee to deliver an Adaptation Plan

APPENDIX K

FOCUS AREAS MAP



City of Sebastian
Focus Areas Location Map

N

Kimley»Horn

Vulnerability Assessment

0 0.5 1 2 Miles

APPENDIX L

RESILIENT FLORIDA PROGRAM GIS DATA STANDARDS

Resilient Florida Planning Grants

GIS Data Standards

Pursuant to section 380.093 (3)(c), Florida Statutes, grantees who receive funding to complete a vulnerability assessment shall submit to the Florida Department of Environmental Protection (DEP) all electronic mapping data used to illustrate the flooding and sea level rise impacts identified in the assessment. The grantees shall also submit the associated metadata for each geospatial item. These items must be compatible with DEP's Geographic Information System (GIS) infrastructure and tools and mapping coordinate reference systems. To aid in the compliance with this requirement, the following list has been compiled of acceptable digital data formats, metadata standards and required mapping datums.

Digital File Formats:

- Vector Data Formats:
  - File Geodatabase Feature Class – Feature classes are homogeneous collections of common features, each having the same spatial representation, and containing both the geometric shape of each feature as well as descriptive attributes. Feature classes can only be stored inside a geodatabase. This is an Esri proprietary format.
  - Shapefile – A shapefile is a vector data storage format that stores the location, shape, and attributes of geographic features with the same geometry type and the same spatial reference. This is an Esri proprietary format.
  - KML – is an XML notation for expressing geographic annotation and visualization within two-dimensional maps and three-dimensional Earth browsers, initially developed for use with Google Earth. This in an open standard format.
  - GeoJSON – GeoJSON is a geospatial data interchange format designed to represent simple geographic features and their nonspatial attributes, based on JavaScript Object Notation (JSON). This in an open standard format.
- Raster Data Formats:
  - File Geodatabase Raster – Native data model for storing raster datasets inside a geodatabase. This is an Esri proprietary format.
  - TIFF/GeoTIFF – A TIFF is an image file format for storing raster graphic images. GeoTIFF is a is a metadata standard which allows georeferencing information to be embedded within a TIFF raster file. These are open standard formats.
  - Other – For a more detailed list of acceptable raster formats, please see *Supported Raster Formats* reference link.
- Data Package Formats:
  - Esri Project Package – A project package is a file that contains all maps and the data referenced by its layers, as well as folder connections, toolboxes, geoprocessing history, and attachments. This is an Esri proprietary format.

- OGC GeoPackage – A GeoPackage is a platform-independent and standards-based data format for transferring geospatial information, implemented as an SQLite database container. This in an open standard format.

Datums and Coordinate Reference Systems:

- Geospatial data shall be delivered projected into the appropriate Florida State Plane Coordinate System.
- Horizontal Datum: North American Datum of 1983 with 1990 Adjustments (NAD83/90), or later.
- Vertical Datum: North American Vertical Datum of 1988 (NAVD88).

Metadata Standards:

- Metadata shall be compliant with the *Content Standard for Digital Geospatial Metadata* (CSDGM) developed by the Federal Geographic Data Committee (FGDC). Acceptable formats are:
  - File Geodatabase FGDC-CSDGM Metadata – format for creating and editing the metadata of Esri items. The metadata is embedded in the item it describes. This is an Esri proprietary format.
  - XML – Extensible Markup Language (XML) is a markup language and file format for storing, transmitting, and reconstructing arbitrary data. This in an open standard format.
- The Department encourages metadata to include the following information, as applicable:
  - Title – Name for the dataset.
  - Summary – Short summary of what the dataset represents.
  - Description – Basic information about the dataset and its purpose.
  - Process Summary – Steps in creating the dataset or layer.
  - Dates of Data Collection – Collection date of the dataset.
  - Date of Publication – Date of publishing or last update of the dataset.
  - Contact Person – Person responsible of the maintenance of the dataset.
  - Credits – Person or entity responsible for the compiling the dataset.
  - Use Limitation – Restrictions or legal prerequisites to using the dataset.

Critical Assets Attributes

- To standardize information for all the critical assets across the state, delivered critical asset datasets should have following attributes, as applicable:
  - Entity Name – Name of entity (i.e., County, city, local government, etc).
  - Asset Name – Asset label or description (i.e., hydrant, stormwater pipe, cell tower, etc).
  - Asset Type – Statutory asset type (i.e., airports, bridges, roadways, marinas, etc).
  - Asset Class – Statutory asset group (i.e., transportation and evacuation route, critical infrastructure, critical community and emergency facilities, etc).
  - Asset Owner/Operator – The owner or maintainer of the asset.

- Asset Elevation – Elevation of the asset.
- Asset Size/Capacity Data (i.e., capacity for wastewater facilities, acres, etc.)
- Asset Unique ID – Unique identifier of the asset.

- Pursuant to 380.093(2) Definitions, **Asset Type** refers to the individual asset, and **Asset Class** refers to the broader asset category. See classification table below:

Asset Type	**Asset Class**
Airports	Transportation and Evacuation Routes
Bridges	Transportation and Evacuation Routes
Bus Terminals	Transportation and Evacuation Routes
Ports	Transportation and Evacuation Routes
Major Roadways	Transportation and Evacuation Routes
Marinas	Transportation and Evacuation Routes
Rail Facilities	Transportation and Evacuation Routes
Railroad Bridges	Transportation and Evacuation Routes
Wastewater Treatment Facilities and Lift Stations	Critical Infrastructure
Stormwater Treatment Facilities and Pump Stations	Critical Infrastructure
Drinking Water Facilities	Critical Infrastructure
Water Utility Conveyance Systems	Critical Infrastructure
Electric Production and Supply Facilities	Critical Infrastructure
Solid and Hazardous Waste Facilities	Critical Infrastructure
Military Installations	Critical Infrastructure
Communications Facilities	Critical Infrastructure
Disaster Debris Management Sites	Critical Infrastructure
Schools	Critical Community and Emergency Facilities
Colleges and Universities	Critical Community and Emergency Facilities
Community Centers	Critical Community and Emergency Facilities
Correctional Facilities	Critical Community and Emergency Facilities
Disaster Recovery Centers	Critical Community and Emergency Facilities
Emergency Medical Service Facilities	Critical Community and Emergency Facilities
Emergency Operation Centers	Critical Community and Emergency Facilities
Fire Stations	Critical Community and Emergency Facilities
Health Care Facilities	Critical Community and Emergency Facilities
Hospitals	Critical Community and Emergency Facilities
Law Enforcement Facilities	Critical Community and Emergency Facilities
Local Government Facilities	Critical Community and Emergency Facilities
Logistical Staging Areas	Critical Community and Emergency Facilities
Affordable Public Housing	Critical Community and Emergency Facilities
Risk Shelter Inventory	Critical Community and Emergency Facilities
State Government Facilities	Critical Community and Emergency Facilities
Conservation Lands	Natural, Cultural, and Historical Resource
Parks	Natural, Cultural, and Historical Resource

Shorelines	Natural, Cultural, and Historical Resource
Surface Waters	Natural, Cultural, and Historical Resource
Wetlands	Natural, Cultural, and Historical Resource
Historical and Cultural Assets	Natural, Cultural, and Historical Resource

References:

- Esri, *File Geodatabases*:
  - https://pro.arcgis.com/en/pro-app/latest/help/data/geodatabases/manage-file-gdb/file-geodatabases.htm.
- Esri, *Feature Classes*:
  - https://pro.arcgis.com/en/pro-app/latest/help/data/feature-classes/feature-classes.htm.
- Esri, *Shapefiles in ArcGIS Pro*:
  - https://pro.arcgis.com/en/pro-app/latest/help/data/shapefiles/working-with-shapefiles-in-arcgis-pro.htm.
- Open Geospatial Consortium, *OGC KML Standard*:
  - https://www.ogc.org/standards/kml
- GeoJSON, *GeoJSON*:
  - https://geojson.org/.
- Esri, *Supported Raster Formats*:
  - https://pro.arcgis.com/en/pro-app/latest/help/data/imagery/supported-raster-dataset-file-formats.htm.
- Open Geospatial Consortium, *OGC GeoTIFF Standard*:
  - https://www.ogc.org/standards/geotiff.
- Esri, *Share a Project Package*:
  - https://pro.arcgis.com/en/pro-app/latest/help/sharing/overview/project-package.htm.
- Open Geospatial Consortium, *OGC GeoPackage Encoding Standard*:
  - https://www.ogc.org/standards/geopackage.
- Federal Geographic Data Committee, *Content Standard for Digital Geospatial Metadata*:
  - https://www.fgdc.gov/metadata/csdgm-standard.
- Esri, *Create FGDC CSDGM Metadata*:
  - https://pro.arcgis.com/en/pro-app/latest/help/metadata/create-fgdc-csdgm-metadata.htm.

For questions regarding this information, please email: Resilience@FloridaDEP.gov

APPENDIX M

PUBLIC PRESENTATION AGENDA AND SLIDES

CITY COUNCIL
REGULAR MEETING & COMMUNITY REDEVELOPMENT AGENCY (CRA)
AGENDA
WEDNESDAY, OCTOBER 16, 2024 - 6:00 PM
CITY COUNCIL CHAMBERS
1225 MAIN STREET, SEBASTIAN, FLORIDA

ALL AGENDA ITEMS MAY BE INSPECTED IN THE OFFICE OF THE CITY CLERK OR ON THE CITY'S WEBSITE

1. **CALL TO ORDER**

2. **PLEDGE OF ALLEGIANCE - Led by Council Member Nunn**

3. **INVOCATION - Pastor Grant Foster, Riverside Church**

4. **ROLL CALL**

5. **AGENDA MODIFICATIONS**
   Modifications for additions require a unanimous vote of City Council

6. **PROCLAMATIONS, AWARDS, BRIEF ANNOUNCEMENTS**
   Thursday, October 17 - Sebastian Police Department Community Night Out - 5pm to 8pm

   Friday, October 18 - Halloween Celebration at Riverview Park
   Contest Registration Begins at 5:30pm
   Trunk or Treat Begins at 5:30pm
   Costume Contest Begins at 6:15pm
   Sebastian Police Department's Movie Night Out - Coco - 7:15pm

   Friday, October 18 - Chamber of Commerce Finally Friday on Cleveland Street - 5:30pm to 8pm

   October 21 to November 2 - Early Voting in Council Chambers - 8am to 4pm

   Saturday, October 26 - United Way Days of Caring at Easy Street Park - The Project is the Born Learning Trail - 8am to 12pm

   Presentations of proclamations, certificates and awards, and brief timely announcements by Council and Staff. No public input or actions under this heading.

A. Proclamation - Community Planning Month - October 2024
Alix Bernard, Community Development Director

B. Vulnerability Assessment Draft Update (formerly known as Coastal Resiliency Plan) Presentation
Vulnerability Assessment Public Presentation
Staff Report
Task 1 - Data Collection Tech Memo
Task 2 - Draft Vulnerability Report
Task 3 - Sensitivity Analysis
Task 4 - Focus Areas Report
Continuing Services Agreement #21
2019 Coastal Resiliency Plan

7. PUBLIC INPUT

The heading on Regular Meeting agendas "Public Input" provides and opportunity for individuals to bring NEW INFORMATION OR REQUESTS TO CITY COUNCIL NOT OTHERWISE ON THE PREPARED AGENDA. Individuals are asked to resolve matters with staff prior to meetings. Individuals are asked to provide copies of materials for Council one week prior to the meeting if they intend to refer to specific material. City Council will not debate an issue during Public Input but may by consensus direct a Charter Officer in regard to the item if necessary or place a requested item on a future agenda.

8. CONSENT AGENDA

All items on the consent agenda are considered routine and will be enacted by one motion. There will be no separate discussion of consent agenda items unless a member of City Council so requests; in which event, the item will be removed and acted upon separately. If a member of the public wishes to provide input on a consent agenda item, he/she should request a Council Member to remove the item for discussion prior to start of the meeting or by raising his/her hand to be recognized.

A. Draft August 28, 2024 City Council Minutes
Staff Report
August 28, 2024 City Council Minutes

B. Draft August 29, 2024 City Council Minutes
Staff Report
August 29, 2024 City Council Minutes

C. Draft September 11, 2024 City Council Minutes
Staff Report
September 11, 2024 City Council Minutes

D. Draft September 16, 2024 City Council Minutes
Staff Report
September 16, 2024 City Council Minutes

E. Acceptance of Additional Funds and Amended Total on FDOT Grant 454020-1 "Upgrade/Replace AWOS"
Staff Report

Resolution R-24-62
Amendment #1 for FM454020-1
FDOT Grant PTGA FM454020-1

F. Consideration of a purchase order for $17,437.00 for Rileighs Outdoor, LLC, to provide holiday decorations along US 1.
Staff Report
Extraordinary Procurement Form
Rileighs Outdoor LLC dba Holiday Outdoor Decor Quote

G. Consideration of a purchase order for Idemia Identity & Security USA, LLC for $25,884 for a Live Scan System for the Sebastian Police Department.
Staff Report
Procurement Justification
Idemia Quote

H. Consideration of the issuance of a purchase order to Underwater Engineering Services, Inc., in the amount of $49,546 for Stonecrop drainage project additional tree removals, for additional scope of work.
Staff Report
Extraordinary Procurement Certificate
UESI Tree Removal Proposal
Tree Risk Assessment Part 1
Tree Risk Assessment Part 2

I. Consideration of a purchase order in the amount of $17,504.75 to Duncan-Parnell, Inc. to purchase a WISPR SkyScout drone for Public Works and authorize the City Manager to execute the appropriate documentation.
Staff Report
Procurement Justification
Duncan & Parnell Quote
Florida Drone Supply Quote
Bradâ€™s Drones Quote

J. Consideration of issuance of a purchase order for Palm Bay Concrete not to exceed $18,706.78 to contract concrete services for retaining wall and sidewalk repair/replacement on Indian River Dr.
Staff Report
Procurement Justification
Palm Bay Concrete Quote

9. COMMITTEE REPORTS & APPOINTMENT

City committee reports and Council Member regional committee reports. No public input or action except City committee member nominations and appointments under this heading.

A. Natural Resources Board - Fill One Vacant, Regular Member Position
Staff Report
Applications
Board Member List
Advertisement

B. Construction Board - Fill One Expired, Regular Member Plumber Position and One Expired, Regular Member Contractor Position
Staff Report
Applications
Board Member List
Advertisement

C. Annual report for the Planning and Zoning Board

10. COMMUNITY REDEVELOPMENT AGENCY
Recess the City Council Meeting and Convene the Community Redevelopment Agency

A. Consideration of a sign and landscape CRA grant for commercial dumpster improvements at Davis House Inn.
Staff Report
Grant Application

B. Consideration of issuance of a purchase order in the amount of $22,236.42 to Jordan Power Equipment for the purchase of Scag zero turn stand on mowers for the Parks and Recreation Department to handle CRA Landscaping
Staff Report
Procurement Justification
Jordan Power Equipment Quote
Causeway Mowers Quote
Rockledge Mower & Service Quote

11. PUBLIC HEARINGS

A. Consideration of Ordinance O-24-18 Rescinding Ordinance O-97-42 vacating public roads in a portion of Sebastian Highlands Unit 17 Second Reading and Adoption Hearing.
Staff Report
Unit 17 Overview Map
Resolution R-24-46
Ordinance O-24-18

12. UNIFINISHED BUSINESS

13. NEW BUSINESS

A. Presentation from the Ocean Research and Conservation Association regarding activities in the City of Sebastian
Staff Report
ORCA Presentation for Riverview Park

B. Consideration of the transfer of real property from the City of Sebastian to Indian River County Habitat for Humanity for the construction of affordable homes and authorize the Mayor to execute all appropriate documentation.
Staff Report
Habitat Purchase Contract Barber St.
Habitat Purchase Contract Tuxedo Terr.
Habitat Purchase Contract Concha Dr.

C. Adoption of Resolution R-24-60 Amending Resolution R-23-20 Building Permit Fee Schedule
Staff Report
Resolution R-24-60

D. Consideration of Resolution No. R- 24-61 and consideration of the future direction of the Parking-in-Lieu program.
Staff Report
Resolution R-24-61

E. Consideration of Adoption of Resolution No. R-24-64 establishing engineering permit fees for dewatering inspections.
Staff Report
Resolution R-24-64
Dewatering Permit Application

F. Selection of DBT Transportation Services, LLC for RFP 24-16 for Sebastian Municipal Airport Automated Weather Observing System (AWOS) Upgrade and Maintenance in the amount of $128,550
Staff Report
Procurement Justification
Intent to Award
Proposal Tabulation

G. Consideration of a purchase order not to exceed $1,435,726.20 for Asphalt Pavement Systems Inc, for pavement maintenance and rehabilitation services for the Public Works Roads Division.
Staff Report
Procurement Justification
APS FDR Quote
APS Micro Quote

H. Consideration of issuance of purchase order in the amount of $485,000 to Environmental Products Group to purchase a Vactor Combination Sewer Cleaner for the City's Public Works Department.
Staff Report
Procurement Justification
Environmental Products Group Quote
Environmental Products Group Sole Distributor
Vactor Manufacturing, Inc. Contract
Southern Sewer Quote

I. Consideration of issuance of a purchase order for $141,100 for Dobbs Equipment. to provide a John Deere 310P Backhoe for Public Works.
Staff Report
Procurement Justification
Dobbs Equipment Quote
Kelly Tractor Quote

14. CITY ATTORNEY MATTERS

15. **CITY MANAGER MATTERS**

16. **CITY CLERK MATTERS**

17. **<u>CITY COUNCIL MATTERS</u>**
    Vice Mayor Dixon
    Mayor Dodd
    Council Member Jones
    Council Member McPartlan
    Council Member Nunn

18. **ADJOURN** ***(All meetings shall adjourn by 9:30 pm unless extended for up to one half hour by a majority vote of City Council).***

    NO STENOGRAPHIC RECORD BY A CERTIFIED COURT REPORTER WILL BE MADE OF THE FOREGOING MEETING. ANY PERSON WHO DECIDES TO APPEAL ANY DECISION MADE BY THE CITY COUNCIL, BOARD OR AGENCY WITH RESPECT TO ANY MATTER CONSIDERED AT THIS MEETING OR HEARING WILL NEED TO ENSURE THAT A VERBATIM RECORD OF THE PROCEEDINGS IS MADE, WHICH RECORD INCLUDES THE TESTIMONY AND EVIDENCE UPON WHICH THE APPEAL IS TO BE HEARD. (F.S.286.0105)

    IN COMPLIANCE WITH THE AMERICAN WITH DISABILITIES ACT (ADA) OF 1990, ANYONE WHO NEEDS A SPECIAL ACCOMMODATION FOR THIS MEETING SHOULD CONTACT THE CITY'S ADA COORDINATOR AT 388-8226 – ADA@CITYOFSEBASTIAN.ORG AT LEAST 48 HOURS IN ADVANCE OF THIS MEETING

Regular City Council Meetings

Public input is *ALLOWED* under the headings:

- Consent Agenda
- Public Hearings
- Unfinished Business
- New Business
- Public Input

Public input is *NOT ALLOWED* under the headings:

- Proclamations, Awards, Brief Announcements (except for individuals giving or accepting proclamations or awards)
- Committee Reports and Appointments (except for committee members giving reports and applicants being interviewed for committee appointments)
- City Council Matters
- Charter Officer Matters
- Council may, by majority vote, call upon an individual to provide input if desired.

Workshops and Special Meetings

Public input is limited to the item on the agenda

Time Limit

Input on agenda items where public input is permitted on agendas is FIVE MINUTES; however, City Council may extend or terminate an individual's time by majority vote of Council members present.

Input Directed to Chair

Speakers shall address the City Council IMMEDIATELY PRIOR TO CITY COUNCIL DELIBERATION of the agenda item and ALL INPUT SHALL BE DIRECTED TO THE CHAIR, unless answering a question of a member of City Council or City staff. Individuals shall not address City Council after commencement of City Council deliberation on an agenda item after public input has concluded, providing, however, the Mayor and members of City Council may recall an individual to provide additional information or to answer questions.

Certain Remarks Prohibited

Personal, impertinent, and slanderous remarks, political campaigning, and applauding are not permitted and may result in expulsion from the meeting. The Chair shall make determinations on such remarks, subject to the repeal provisions below.

Appealing Decisions of Chair

Any member of Council may appeal the decision of the Chair to the entire Council. A majority vote of City Council shall overrule any decision of the Chair.

Public Input Heading on Agenda

The heading on Regular Meeting agendas "Public Input" provides an opportunity for individuals to bring NEW INFORMATION OR REQUESTS TO CITY COUNCIL NOT OTHERWISE ON THE PREPARED AGENDA. Individuals are asked to attempt to resolve matters with staff prior to meetings. Individuals are asked to provide copies of material for Council one week prior to the meeting if they intend to refer to specific material. City Council will not debate an issue during Public Input but may by consensus direct a Charter Officer in regard to the item if necessary or place a requested item on a future agenda.

APPENDIX N

LMS MEETING AGENDAS

AGENDA

Indian River County
Local Mitigation Strategy Working Group

Indian River County Emergency Operations Center
4225 43rd Avenue
Vero Beach, FL 32967

April 11, 2024
10:00 AM – 11:30 AM

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1. **Call to Order/Role Call/Welcome and Introductions:**

   Ryan Lloyd, LMS Vice-Chairperson
   Indian River County Emergency Services

2. **Approval of Today's Agenda:**

3. **Approval of Draft Meeting Minutes from 10/10/23:**

4. **2024 University of Colorado Hurricane Forecast**

5. **Review of Current Project Prioritization List**:

   LMS Group: Review of existing projects to stay or be removed from the current PPL.

6. **Ideas for Regional Projects:**

7. **Update LMS Contact List**:

   LMS Group: Contacts added or deleted.

8. **Hurricane Idalia HMGP**

PLEASE NOTE: *Anyone who needs a special accommodation for this meeting may contact the County's Americans with Disabilities Act (ADA) Coordinator at (772) 226-1223 at least 48 hours in advance of meeting.*

9. **New Mitigation and Recovery Personnel:**

10. **LMS Plan Update:**

    Updates will begin March/April 2024. Due to FDEM February 13, 2025.

11. **Mitigation Training Suggestions:**

12. **Public Comments:**

13. **Questions/Open-Discussion:**

14. **Future Meetings:**

    October 10, 2024: 10:00 AM - 11:30 AM

15. **Adjournment**

PLEASE NOTE: *Anyone who needs a special accommodation for this meeting may contact the County's Americans with Disabilities Act (ADA) Coordinator at (772) 226-1223 at least 48 hours in advance of meeting.*

AGENDA

Indian River County
LMS Working Group (Planning Committee Meeting)

Indian River County Emergency Operations Center
4225 43rd Avenue
Vero Beach, FL 32967

July 30, 2024
10:00 AM – 12:00 PM

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1. **Call to Order/Role Call/Welcome and Introductions:**

   Ryan Lloyd, LMS Vice-Chairperson
   Indian River County Emergency Services
   Michael Smilovich Introduction

2. **Approval of Today's Agenda:**

3. **Overview of the LMS Plan Update Process:**

4. **Goal Provisions and Current Crosswalk Requirements**

Who shall represent your organization and how will they participate in the LMS during this plan update?

Our multi-jurisdictional LMS Plan was last updated in 2020. How have your mitigation goals changed since then?

What threat, hazard, or climate change analysis (vulnerability-based studies) has your organization conducted since 2020?

What changes to hazard analysis have been identified in your organization since the last LMS Plan update?

What mitigation projects have you started since 2020?

What mitigation projects have been completed since 2020?

What challenges have you experienced with mitigation initiatives?

What community feedback, requests, or suggestions have you received regarding mitigation?

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What are your organization's short, mid-term, and long-range mitigation goals?

How can the LMS Working Group better assist you in facilitating mitigation goals?

How do your current building codes, land use-development, polices, and programs support the LMS process?

What ideas does your organization have to improve resiliency?

Does your organization participate in the National Flood Protection Program (NFIP)?

How long has your organization been an NFIP participant?

Why does your community not participate in the NFIP (if applicable)?

How do you prioritize your mitigation projects-what is the process?

What is your process in assigning mitigation tasks?

What are your most likely funding sources for completing mitigation projects?

What are your estimated timelines for completing your current mitigation projects?

Does your organization have projects on the IRC LMS Project Prioritization List (PPL) that are complete or are no longer viable? If yes, does the project(s) need to be removed?

5. **Review of Current Project Prioritization List**:

   LMS Group: Review of existing projects to stay or be removed from the current PPL.

6. **Upcoming Public Meetings/Review of Survey Questionnaire:**

7. **Public Comments:**

8. **Questions/Open-Discussion:**

9. **Future Meetings:**

   Regular Meeting: October 10, 2024: 10:00 AM - 11:30 AM
   LMS Planning Meetings – TBD

10. **Adjournment**

PLEASE NOTE: *Anyone who needs a special accommodation for this meeting may contact the County's Americans with Disabilities Act (ADA) Coordinator at (772) 226-1223 at least 48 hours in advance of meeting.*

City of Sebastian Vulnerability Assessment Update

Task 6 - Public Presentation

October 16, 2024

Kimley»Horn

CITY OF SEBASTIAN
HOME OF PELICAN ISLAND

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION





Project Introduction

This project was funded, in part, through a grant agreement from the Florida Department of Environmental Protection, Florida Resilient Coastlines Program, by a grant provided by the Florida Coastal Office. The views, statements, findings, conclusions, and recommendations expressed herein are those of the author(s) and do not necessarily reflect the views of the State of Florida or any of its sub agencies.

Project Objective

To conduct a Vulnerability Assessment compliant with s. 380.093, F.S. identifying risks associated with flooding and Sea Level Rise in the City of Sebastian.

Achieved by:

- Determining flood depths per various flooding scenarios
- Assigning risk levels for each scenario
- Identifying focus areas for particularly vulnerable areas



Project Scope

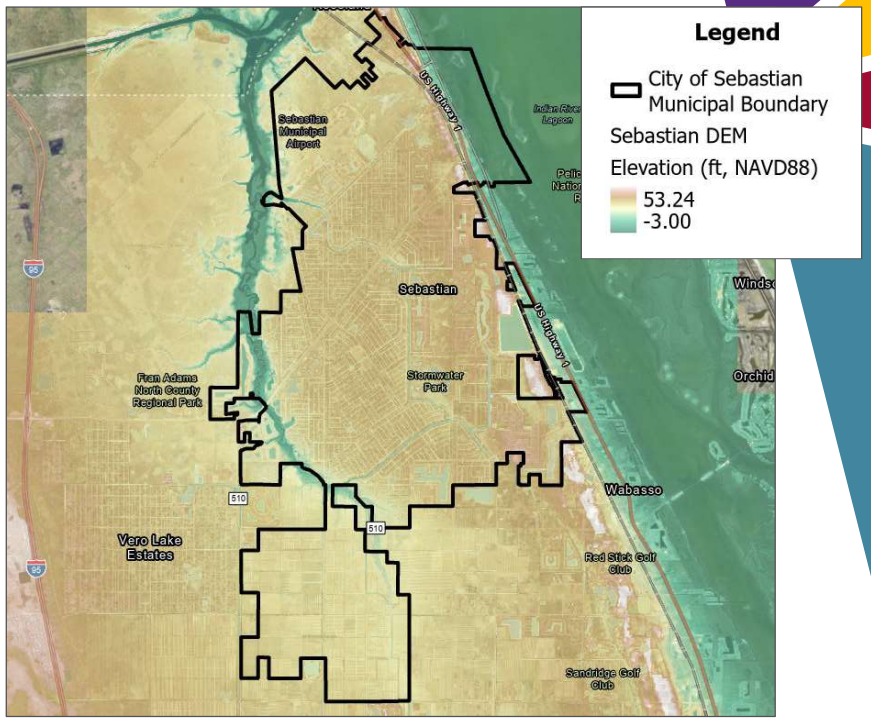
- Task 1 – Acquire Background Data
- Task 2 – Exposure Analysis
- Task 3 – Sensitivity Analysis
- Task 4 – Identify Focus Areas
- Task 5 – Final Vulnerability Assessment Report
- **Task 6 – Public Presentation**
- Task 7 – Local Mitigation Strategy



Data Acquisition

Data Required:

- Topographic Data
  - USGS LiDAR
- Flood Scenario Data
- Inventory of Assets and Infrastructure Owned or Maintained by the City

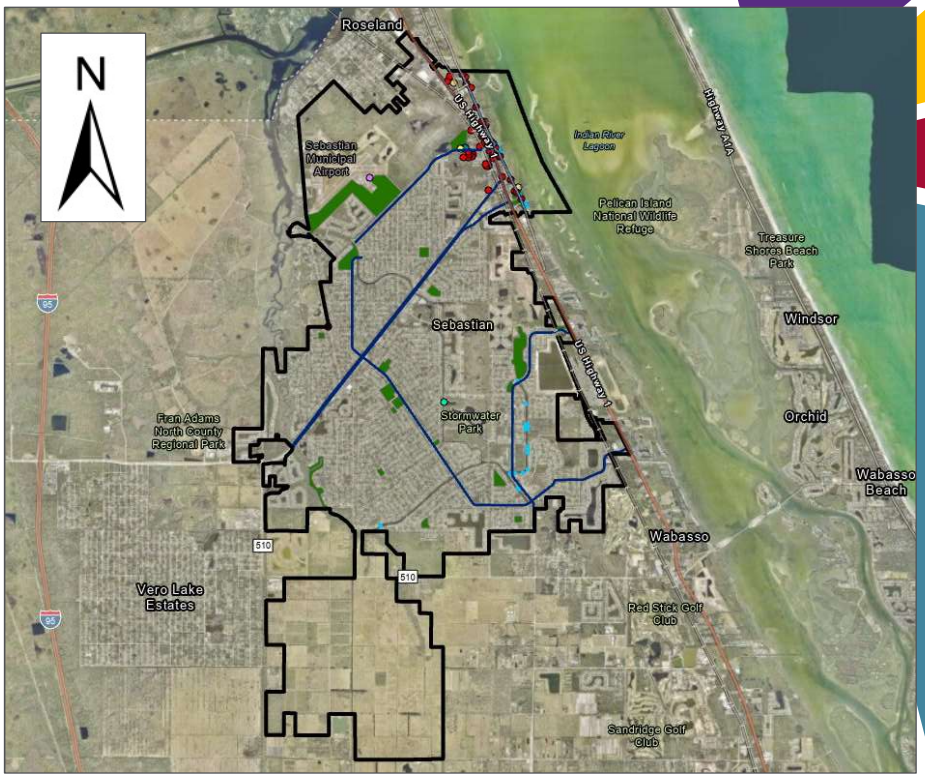


5

Critical Asset Inventory

Legend

- City of Sebastian Municipal Boundary
- Airport
- Major Roadways
- Marinas (Docks)
- Bridge Landings
- Pump Station
- Baffle Boxes
- Local Government Facilities
- Law Enforcement Facilities
- Community Centers
- Historic Sites
- Seawalls/ Shorelines
- Parks



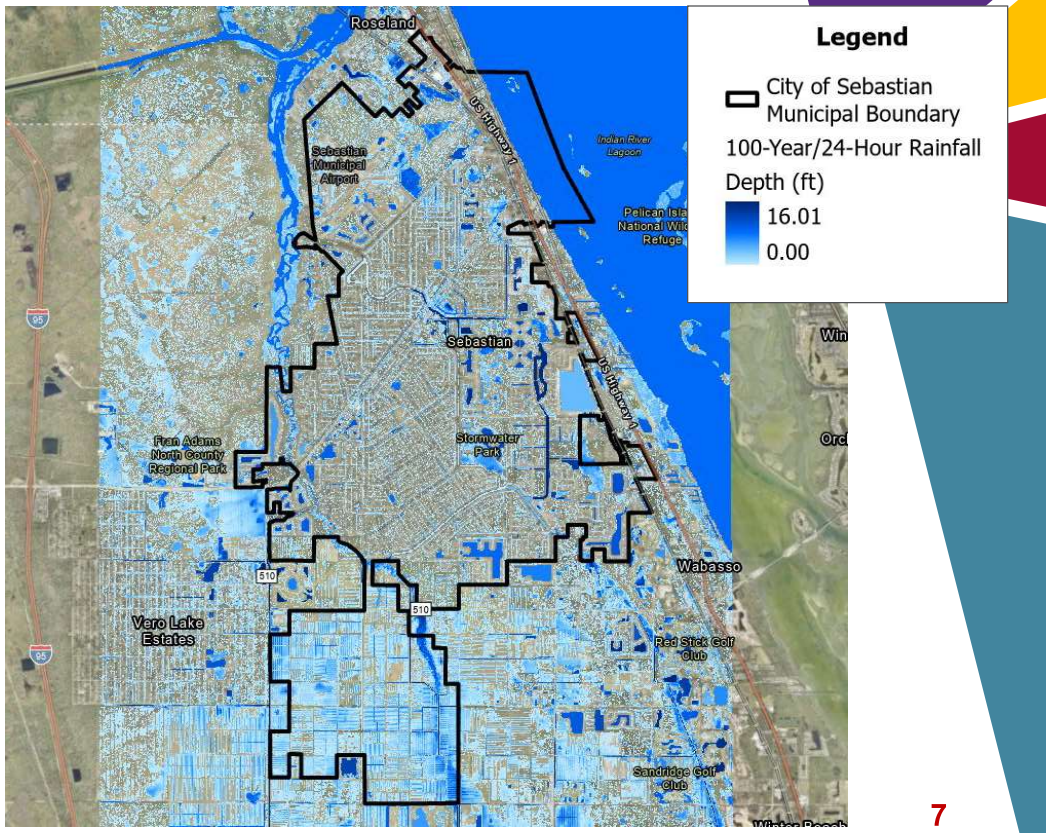
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Exposure Analysis

Objective:

To identify the depth of flooding caused by:

- Rainfall (100-Year, 500-Year)
- Sea Level Rise (2040 and 2070 Intermediate-Low & Intermediate-High)
- Compound Rainfall + SLR
- 100-Year Storm Surge
- Compound Rainfall + Storm Surge
- Current Tidal Flooding
- Compound Rainfall + Tidal



7

Sensitivity Analysis

Objective:

To measure the impact of flooding on assets by assigning a risk level (Low, Med., High) by asset type and flood scenario.

Criticality Level	Criteria
Low	Water level is 6-in to 12-in from FFE
Medium	Water level is 6-in or less from the FFE
High	Water level exceeds the FFE

Paired Asset-Threat Matrix – Community Centers

Asset Name	Critical Elevation (ft)	100Y24H	500Y24H	100Y24H IL2040	100Y24H IH2040	100Y24H IL2070	100Y24H IH2070	SLR IL2040	SLR IH2040	SLR IL2070	SLR IH2070	CURRENT TIDAL	FUTURE TIDAL IL2040	FUTURE TIDAL IH2040	FUTURE TIDAL IL2070	FUTURE TIDAL IH2070	CURRENT STORM SURGE	STORM SURGE IL2040	STORM SURGE IH2040	STORM SURGE IL2070	STORM SURGE IH2070
Sebastian Community Center	15.36	L	L	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sebastian Yacht Club	5.54	-	-	-	-	-	M	-	-	-	-	-	-	L	-	H	H	H	H	H	H

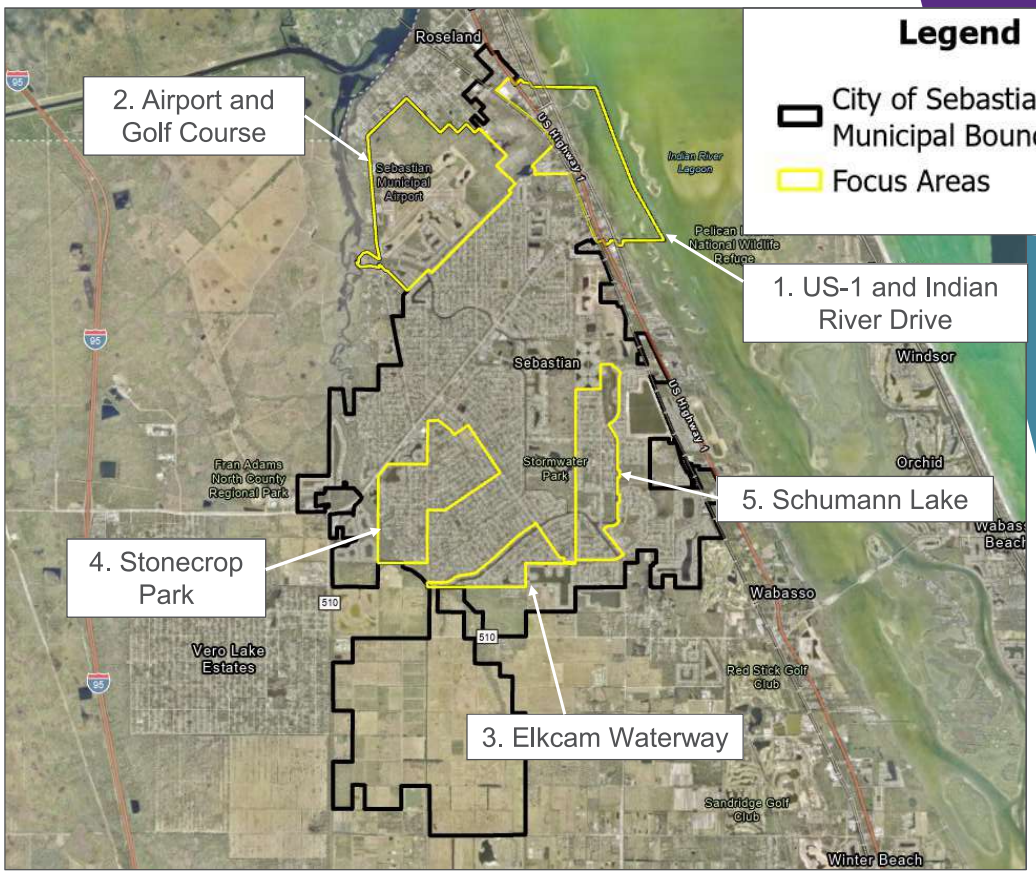
Focus Areas

Objective:

To define focus areas for regions that are particularly vulnerable to flooding.

Results:

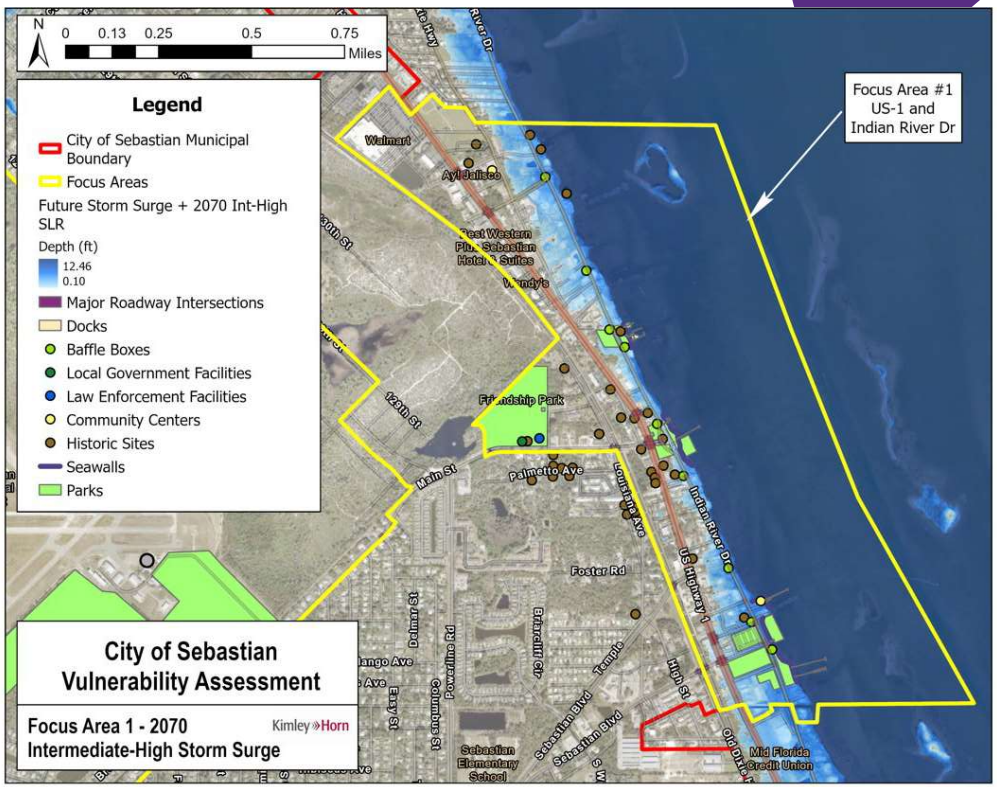
- Identified 5 focus areas
- Focus areas are not ranked by priority



9

Vulnerable Critical Assets

- Transportation Assets and Evacuation Routes
  - Docks and Major Roadway Intersections along Indian River Dr
  - Most vulnerable under the 2070 Intermediate-High Storm Surge Scenario
- Critical Infrastructure
  - Stormwater treatment systems (baffle boxes) along Indian River Dr highly impacted in all Compound Storm Surge events



10

Local Mitigation Strategy

Objective:

To advise the development of a Local Mitigation Strategy per the Florida Division of Emergency Management to address the risks of natural disasters.

- Participation in Local Mitigation Strategy Working Group Meetings
- Provides input based on Vulnerability Assessment Results
- Vulnerability Assessment Report referenced in next LMS Plan



Next Steps

- Submit Final Vulnerability Assessment Report
- Obtain Letter of Acceptance/Completion from FDEP
- Devise Adaptation Plan
- Consider Funding Mechanisms

Questions



