



FLORIDA STATEWIDE REGIONAL EVACUATION STUDY PROGRAM



**DIRECTIONAL
ATLAS**

BROWARD COUNTY

VOLUME 10-11

BOOK 1C

W-NW DIRECTIONAL STORMS

**FLORIDA DIVISION OF
EMERGENCY MANAGEMENT**

**SOUTH FLORIDA
REGIONAL COUNCIL**



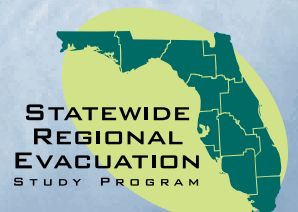
SOUTH FLORIDA REGION



INCLUDES HURRICANE EVACUATION STUDY



2015



**STATEWIDE
REGIONAL
EVACUATION
STUDY PROGRAM**



SOUTH FLORIDA STORM TIDE DIRECTIONAL ATLAS

Volume 10-11 Book 1C - Broward County *W-NW Direction*

This Atlas is part of Volume 10 of the *Statewide Regional Evacuation Study Program* (SRESP), and one of three sets of county books in the *South Florida Storm Tide Directional Atlas* series. Book 1 covers Broward County; Book 2 covers Miami-Dade County; and Book 3 covers Monroe County. In each county, the primary volume presents an overview of the study and the methodology, while the Appendices, numbered from A to E, include the surge inundation maps for each of five directional storm clusters. The Atlas maps identify those areas subject to potential storm tide flooding from the five categories of hurricane on the Saffir-Simpson Hurricane Wind Scale, as determined by the National Oceanic and Atmospheric Administration (NOAA) numerical storm surge model, Sea, Lake and Overland Surges from Hurricanes (SLOSH). Volume 10 is unique in that it is based on the direction the storm is heading and depicts the resulting surge of storms approaching from that specific directional angle.

The *Storm Tide Directional Atlas* series supplements the original hazards analysis for storm tides (Volume 7-11) and depth (Volume 9-11), and enhances a key component of the SRESP. The *Technical Data Report* (Volume 1-11) was built upon the original storm tide analysis and includes the evacuation zones and population estimates, results of the evacuation behavioral data, shelter analysis and evacuation transportation analysis. The study, which provides vital information to state and local emergency management, forms the basis for county evacuation plans. The final study documents are available on the Internet at <http://www.sfregionalcouncil.org/sresp.htm>.

This Atlas series was produced by the South Florida Regional Council with funding from the Federal Emergency Management Agency, through the Florida Division of Emergency Management.



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The Council acknowledges and extends its appreciation to the following agencies and people for their cooperation and assistance in the development of this Atlas:

National Oceanic and Atmospheric Administration (NOAA/TPC-NHC) for the SLOSH numerical storm surge model developed by the late Chester L. Jelesnianski, the development of the 2009 Biscayne Bay and Florida Bay Basins under the management of Jamie Rhome, and for the storm tide computation and interpretation provided by the NOAA Storm Surge Modeling team.

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 Management Department



A. Storm Tide Directional Atlas

The surge inundation limits (directional maximum surge heights minus the ground elevations) are provided as GIS shape files and graphically displayed on maps in the *Directional Storm Tide Atlas for the South Florida Region*. The *Atlas* was prepared by the South Florida Regional Council under contract to the State of Florida, Division of Emergency Management, as part of this study effort. The maps prepared for the *Atlas* consist of base maps (1:24000) including topographic, hydrographic and highway files (updated using 2008 county and state highway data). Detailed shoreline and storm tide limits for each category of storm were determined using the region's geographic information system (GIS).

The purpose of the maps contained in this Atlas is to reflect a worst probable scenario of the hurricane storm tide inundation for a given cluster of compass directions that a storm would be heading and to provide a basis for the hurricane evacuation zones and study analyses. While the storm tide delineations include the addition of an astronomical mean high tide and tidal anomaly, it should be noted that the data reflects only stillwater saltwater flooding. **Local processes such as waves, rainfall and flooding from overflowing rivers, are usually included in observations of storm tide height, but are not surge and are not calculated by the SLOSH model. It is incumbent upon local emergency management officials and planners to estimate the degree and extent of freshwater flooding as well as to determine the magnitude of the waves that will accompany the surge.**

Although the methodology used for surge determination in this Atlas does the most to reduce inconsistencies and human subjectivity, factors remain in the data itself that could show variations from previous efforts and results. Whenever a SLOSH basin is changed in any way, results can vary. Using MEOW (Maximum Envelope of Water) data as we do in this directional atlas, instead of the MOM (Maximum of Maximums) data, and choosing directional subsets of the maximums (MOMs) will indeed produce different results than other atlases – and this was expected. Other factors can include different elevation model data, as well as number and scope of selected SLOSH basin grid cells. Also, any data that is beyond the original extent or boundary of the basin is interpolation influenced by the modeling trend up to that location, and hand adaptation of basin extensions.

Figure 1 shows the projected surge inundation for each category of storm for storms moving in a W-NW direction. Figure 2 provides an index of the W-NW directional map series for Broward County.

B. Points of Reference

County emergency management agencies selected reference points, which include key facilities or locations critical for emergency operations. The Table 1 includes the map identification number, descriptions of the selected points, and the elevation of the site. The elevation is based on the digital elevation data provided by LiDAR. It should be noted that if the site is large, elevations may vary significantly. Table 1 also provides the storm tide value from the SLOSH value and the depth of inundation (storm tide value minus the ground elevation) at the site.

Figure 1 Directional W-NW Storm Surge for Broward County

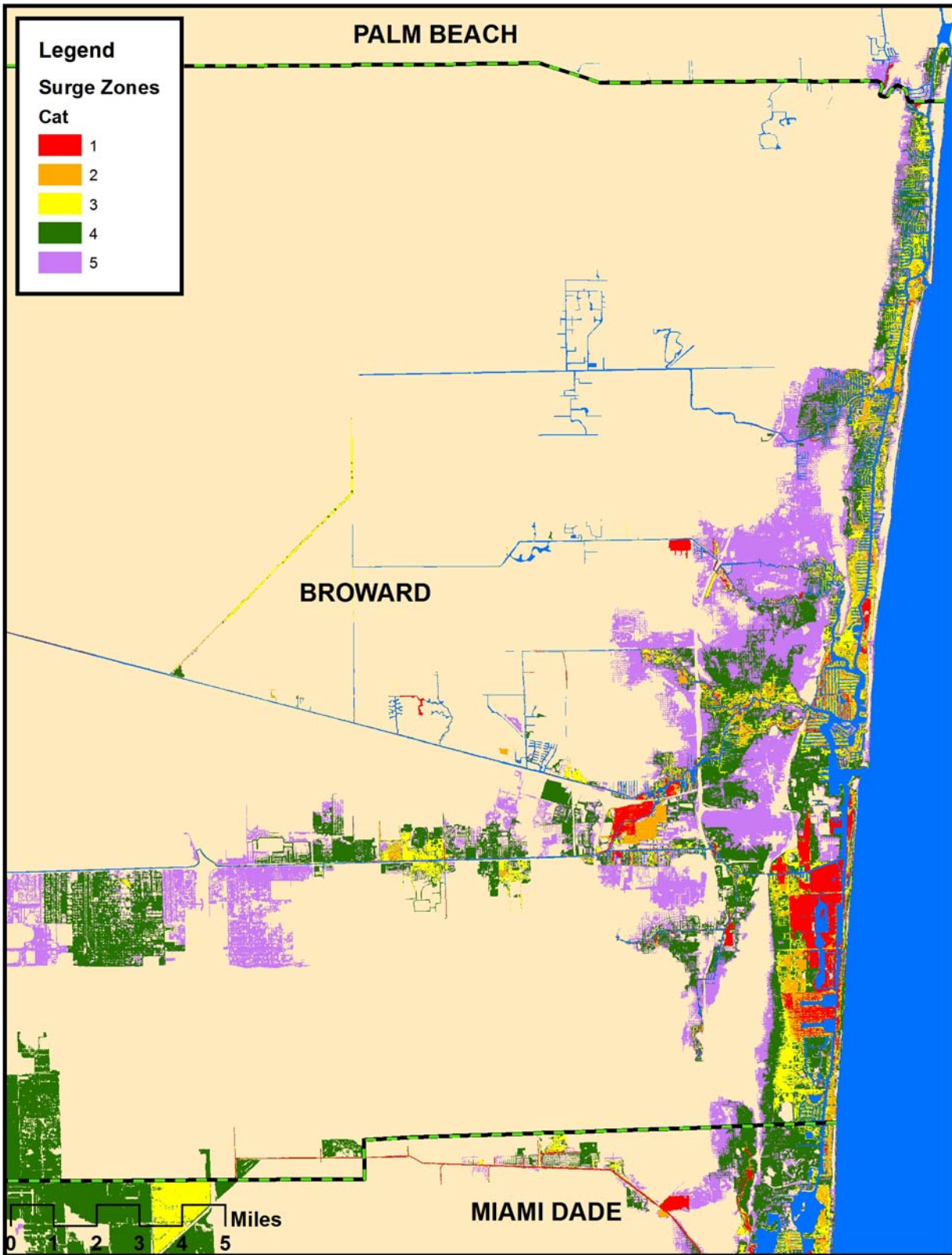


Table 1 Selected Points of Reference, W-NW Direction – Broward County

Map ID	Name	Elevation	C1 Depth ¹	C2 Depth	C3 Depth	C4 Depth	C5 Depth	C1 Surge ²	C2 Surge	C3 Surge	C4 Surge	C5 Surge
1	Hollywood Blvd & A1A	3.459	0.00	0.00	0.71	3.14	4.22	2.30	3.30	4.30	6.70	7.80
2	Young Circle	7.954	0.00	0.00	0.00	0.00	0.00	1.13	1.72	2.80	4.78	7.70
3	Hollywood Blvd & I-95	7.598	0.00	0.00	0.00	0.00	0.00	1.13	1.72	2.03	2.58	4.40
4	Johnson St & I-95	5.348	0.00	0.00	0.00	0.00	0.80	1.13	1.72	2.03	2.93	6.10
5	Johnson St & US 1	9.932	0.00	0.00	0.00	0.00	0.00	1.13	1.72	2.41	4.42	6.23
6	Johnson St & Intracoastal Waterway & Westlake	5.288	0.00	0.00	0.00	2.12	3.26	2.30	3.40	4.30	6.70	7.80
7	Sheridan St & Intracoastal Waterway	0.000	0.00	0.00	0.00	0.00	0.00	2.30	3.40	4.30	6.70	8.00
8	Sheridan St & US 1	10.064	0.00	0.00	0.00	0.00	0.00	1.13	1.72	2.03	3.55	5.13
9	Sheridan St & I-95	6.772	0.00	0.00	0.00	0.00	0.00	1.13	1.72	2.03	4.99	5.79
10	Stirling Rd & I-95	7.646	0.00	0.00	0.00	0.00	0.00	1.13	1.72	2.03	4.90	5.46
11	Stirling Rd & US 1	9.069	0.00	0.00	0.00	0.00	0.00	1.49	2.42	3.06	6.00	8.00
12	Westlake	0.000	0.00	0.00	0.00	0.00	0.00	2.30	3.40	4.30	6.80	8.00
13	Dania Cutoff & Intracoastal Waterway	0.000	0.00	0.00	0.00	0.00	0.00	2.30	3.40	4.60	6.80	8.00
14	Dania Cutoff & Griffin Rd & US 1	-0.830	3.18	3.82	4.82	7.70	8.43	2.30	3.00	4.00	6.70	7.20
15	Griffin & I-95	8.789	0.00	0.00	0.00	0.00	0.00	2.20	2.90	3.90	5.60	5.80
16	Fort Lauderdale Airport	6.315	0.00	0.00	0.00	0.00	1.18	1.83	2.59	3.38	4.83	7.40
17	South Andrews Ave & US 1	4.609	0.00	0.00	0.00	1.27	3.24	1.60	2.31	3.12	6.10	8.00
18	Port Expansion	9.788	0.00	0.00	0.00	0.00	0.00	1.99	3.06	4.03	6.90	8.00
19	Port & Stranahan River	0.000	0.00	0.00	0.00	0.00	0.00	2.30	3.70	4.90	8.30	9.50
20	Port & US 1 & SR 84	8.349	0.00	0.00	0.00	0.00	0.00	1.42	2.10	2.78	6.40	8.00
21	I-95 & New River	-0.350	2.11	3.09	3.58	5.42	7.74	1.80	2.80	3.30	5.20	7.50
22	US 441 & SR 84	25.312	0.00	0.00	0.00	0.00	0.00	1.60	2.60	3.40	4.20	4.80
23	Davie Blvd & US 1 (SE 3 Ave & 17 St)	7.306	0.00	0.00	0.00	0.00	0.35	1.43	2.13	2.80	5.64	7.80
24	Las Olas Blvd & New River	0.000	0.00	0.00	0.00	0.00	0.00	2.20	3.40	4.90	5.70	7.90
25	Victoria Park Rd	7.353	0.00	0.00	0.00	0.00	0.54	2.15	3.40	4.48	5.59	7.89
26	Broward Blvd & US 1	4.738	0.00	0.00	0.00	0.90	3.16	2.07	3.25	4.28	5.60	7.90
27	S Andrews Ave & New River Canal	0.269	2.04	3.34	4.13	5.30	7.53	2.30	3.60	4.50	5.60	7.80
28	Broward Blvd & I-95	7.760	0.00	0.00	0.00	0.00	0.00	2.50	3.80	4.10	5.50	7.60

¹ Depth refers to the depth of inundation at the site (storm surge value minus the ground elevation)

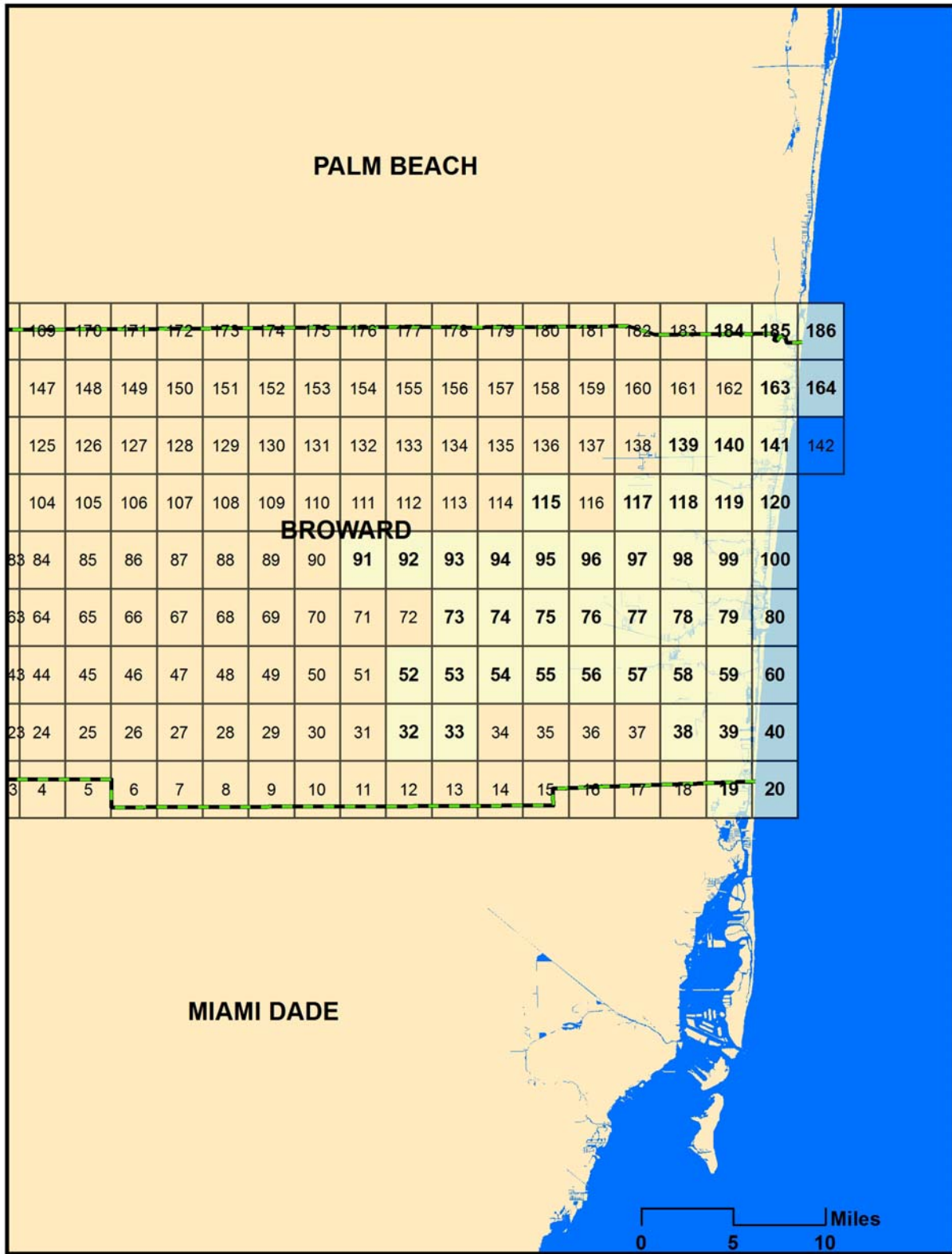
² Surge refers to the storm surge value from the SLOSH Model

Map ID	Name	Elevation	C1 Depth ¹	C2 Depth	C3 Depth	C4 Depth	C5 Depth	C1 Surge ²	C2 Surge	C3 Surge	C4 Surge	C5 Surge
29	Sunrise Blvd & Powerline Rd	5.873	0.00	0.00	0.00	0.00	1.66	1.79	2.86	3.73	5.00	7.50
30	Sunrise Blvd & Andrews Ave	6.120	0.00	0.00	0.00	0.00	1.40	1.76	2.82	3.71	5.00	7.50
31	Sunrise Blvd & Intracoastal Waterway	0.000	0.00	0.00	0.00	0.00	0.00	2.30	3.80	5.00	5.70	7.90
32	NE 19 th St & US 1	2.810	0.00	0.00	1.03	1.93	3.91	1.65	2.67	3.59	4.52	6.00
33	Middle River & Railroad Tracks	-1.046	2.53	3.43	4.15	5.25	6.85	1.54	2.47	3.30	4.56	6.00
34	Middle River & Powerline Rd	-1.256	2.70	3.54	4.13	4.77	7.15	1.33	2.09	2.63	3.21	6.00
35	Oakland Park Blvd & Powerline Rd	5.112	0.00	0.00	0.00	0.00	0.97	1.19	1.85	2.29	2.78	6.00
36	Oakland Park Blvd & Dixie Hwy Oakland Park Blvd & Intracoastal	7.245	0.00	0.00	0.00	0.00	0.00	1.20	1.89	2.40	3.01	6.00
37	Waterway Commercial Blvd & Intracoastal	0.000	0.00	0.00	0.00	0.00	0.00	2.40	3.90	5.00	5.40	7.00
38	Waterway	0.000	0.00	0.00	0.00	0.00	0.00	2.40	4.00	4.90	5.50	7.00
39	Floranada Rd & NE 45 th @ US 1	12.397	0.00	0.00	0.00	0.00	0.00	1.44	2.29	2.76	4.03	6.27
40	Dixie Hwy & NW 44 ST.	5.900	0.00	0.00	0.00	0.00	0.00	1.13	1.72	2.03	2.47	5.10
41	Dixie Hwy & NW 62ND ST.	7.346	0.00	0.00	0.00	0.00	0.00	1.13	1.72	2.03	3.09	6.30
42	Imperial Point & US 1	5.501	0.00	0.00	0.00	0.00	1.50	1.82	3.07	3.65	5.50	7.00
43	Cypress Rd & Atlantic Blvd	11.403	0.00	0.00	0.00	0.00	0.00	1.13	1.82	2.15	3.41	6.30
44	US 1 & Pompano Canal	-0.236	2.29	4.36	5.08	5.83	7.29	1.82	4.00	4.70	5.50	7.00
45	Intracoastal Waterway & Atlantic Blvd	0.000	0.00	0.00	0.00	0.00	0.00	2.30	3.80	5.10	6.80	8.80
46	Intracoastal Waterway & NE 14 th St	0.000	0.00	0.00	0.00	0.00	0.00	2.40	3.90	5.30	6.50	7.70
47	US 1 & Copans Rd	10.688	0.00	0.00	0.00	0.00	0.00	1.47	2.36	2.94	4.13	4.81
48	Hillsboro Bridge	0.000	0.00	0.00	0.00	0.00	0.00	2.40	3.80	5.20	6.50	7.80
49	Lighthouse Point @ US 1	10.734	0.00	0.00	0.00	0.00	0.00	1.46	2.32	3.28	4.75	5.50
50	Town of Hillsboro Beach @ A1A	5.454	0.00	0.00	0.00	1.01	2.21	2.30	3.70	5.10	6.60	7.80
51	A1A & Hillsboro	9.540	0.00	0.00	0.00	0.00	0.00	2.40	4.00	5.60	6.80	8.10
52	Hillsboro Canal & PB County Line	0.482	0.94	1.76	2.41	3.09	7.33	1.42	2.23	2.87	3.56	8.00
53	Gulfstream Park (Miami-Dade Line) Hallandale Beach Blvd & Intracoastal	1.943	0.00	0.00	0.99	3.86	5.21	1.13	1.72	3.29	6.00	7.20
54	Waterway	0.000	0.00	0.00	0.00	0.00	0.00	2.30	3.70	5.10	6.60	8.00
55	Hallandale Beach Blvd & US 1.	5.442	0.00	0.00	0.00	0.91	1.98	1.13	1.72	2.85	6.10	7.30
56	Hallandale Beach Blvd & I-95.	7.449	0.00	0.00	0.00	0.00	0.00	1.13	1.72	2.06	2.87	4.47
57	Pembroke Rd & I-95	9.156	0.00	0.00	0.00	0.00	0.00	1.13	1.72	2.03	2.74	3.39
58	Pembroke Rd & US 1	9.273	0.00	0.00	0.00	0.00	0.00	1.13	1.72	2.37	4.39	7.40
59	Griffin Rd & US 441	6.938	0.00	0.00	0.00	0.00	0.00	1.36	2.11	2.57	3.63	4.15
60	University Drive & SR 84	29.323	0.00	0.00	0.00	0.00	0.00	1.70	2.90	4.00	4.70	4.90

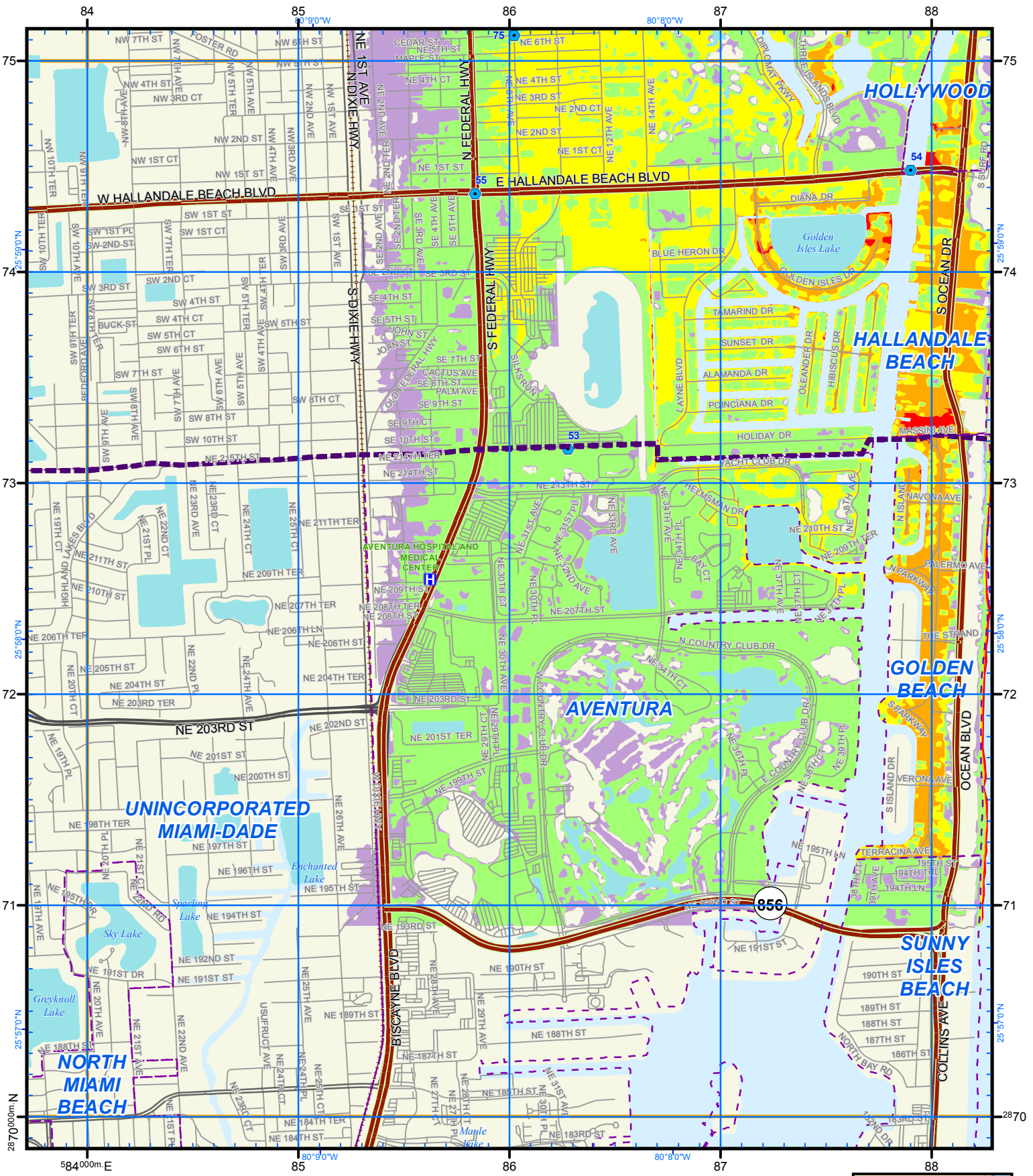
Map ID	Name	Elevation	C1 Depth ¹	C2 Depth	C3 Depth	C4 Depth	C5 Depth	C1 Surge ²	C2 Surge	C3 Surge	C4 Surge	C5 Surge
61	US 1 & Green Rd (NE 48 St), Pompano Beach	8.300	0.00	0.00	0.00	0.00	0.00	1.43	2.26	2.96	4.09	5.40
62	US 1 & NE 10 St, Pompano Beach	8.667	0.00	0.00	0.00	0.00	0.00	2.40	3.90	4.90	7.60	8.20
63	N Dixie Hwy & Atlantic Blvd, Pompano Beach	12.318	0.00	0.00	0.00	0.00	0.00	1.13	1.82	2.15	3.41	6.30
64	N Dixie Hwy & McNab Rd, Pompano Beach	5.995	0.00	0.00	0.00	0.00	0.90	1.13	1.72	2.03	5.00	6.90
65	Andrews Ave & Prospect Rd, Oakland Park	5.921	0.00	0.00	0.00	0.00	0.00	1.13	1.72	2.03	2.47	4.76
66	NE 6 Ave & 56 St, Oakland Park	4.712	0.00	0.00	0.00	0.00	0.07	1.13	1.72	2.03	2.47	4.92
67	Broward Blvd & SW 4 Av, Fort Lauderdale	4.996	0.00	0.00	0.00	0.90	3.14	2.10	3.30	4.10	5.50	7.70
68	NE 15 Ave & 13 St, Fort Lauderdale	8.544	0.00	0.00	0.00	0.00	0.00	1.72	2.77	3.90	5.20	7.90
69	Oakland Park Blvd & NW 27 Av, Oakland Park	4.075	0.00	0.00	0.00	0.00	0.00	1.13	1.72	2.06	2.51	3.92
70	NW 27 Ave & 6 St, Fort Lauderdale	5.813	0.00	0.00	0.00	0.00	1.49	1.83	2.95	3.97	4.75	7.10
71	SW 17 St & 9 Ave, Fort Lauderdale	4.121	0.00	0.00	0.00	1.34	3.50	1.70	2.58	3.21	5.40	7.60
72	NW 1 St & Bryan Rd, Dania Beach	3.514	0.00	0.00	0.00	2.35	2.40	1.25	1.85	2.23	5.70	6.00
73	Tyler St & 9 Ave, Hollywood	0.576	1.63	2.69	3.62	6.03	7.12	2.30	3.40	4.30	6.70	7.80
74	Moffett St & NE 14 Ave, Hallandale Beach	1.113	0.46	1.22	3.18	5.66	6.48	1.62	2.39	4.30	6.70	7.60
75	NE 6 St & 8 Ave, Hallandale Beach	3.579	0.00	0.00	0.44	2.94	3.90	1.13	1.72	4.10	6.70	7.50

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Figure 2 W-NW Atlas Map Index



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US National Grid
100,000-m Square ID
NJ
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG

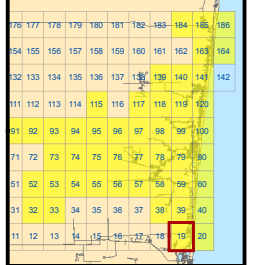


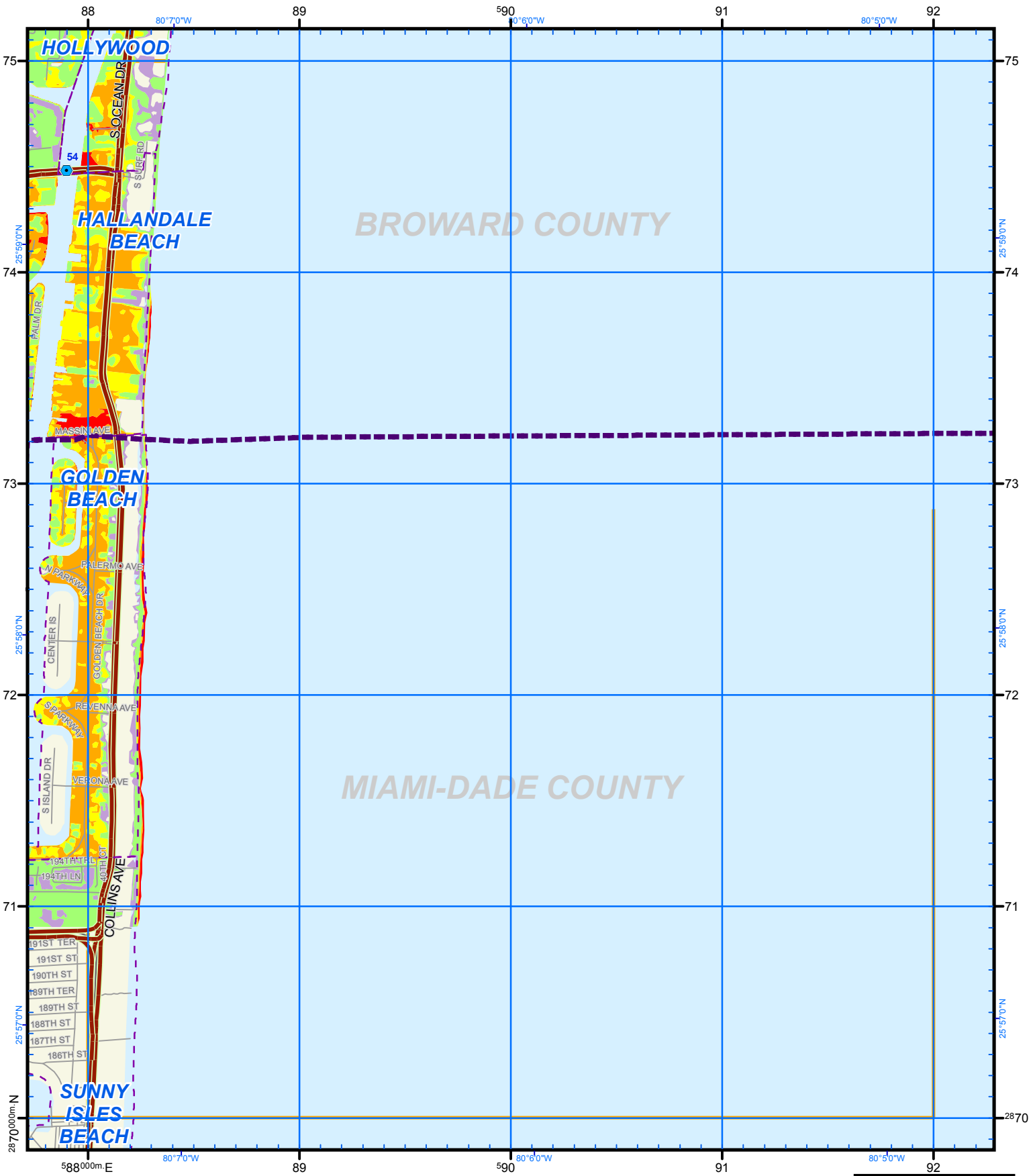
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

ATLAS LEGEND
 HOSPITAL
 Points of Reference
 City Limits
 Evacuation Route
 NHD Lakes

Storm Tide Category
 Level 1
 Level 2
 Level 3
 Level 4
 Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 19





US National Grid
100,000-m Square ID
NJ
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG



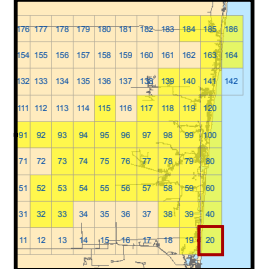
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ATLAS LEGEND
 HOSPITAL
 Points of Reference
 City Limits
 Evacuation Route
 NHD Lakes

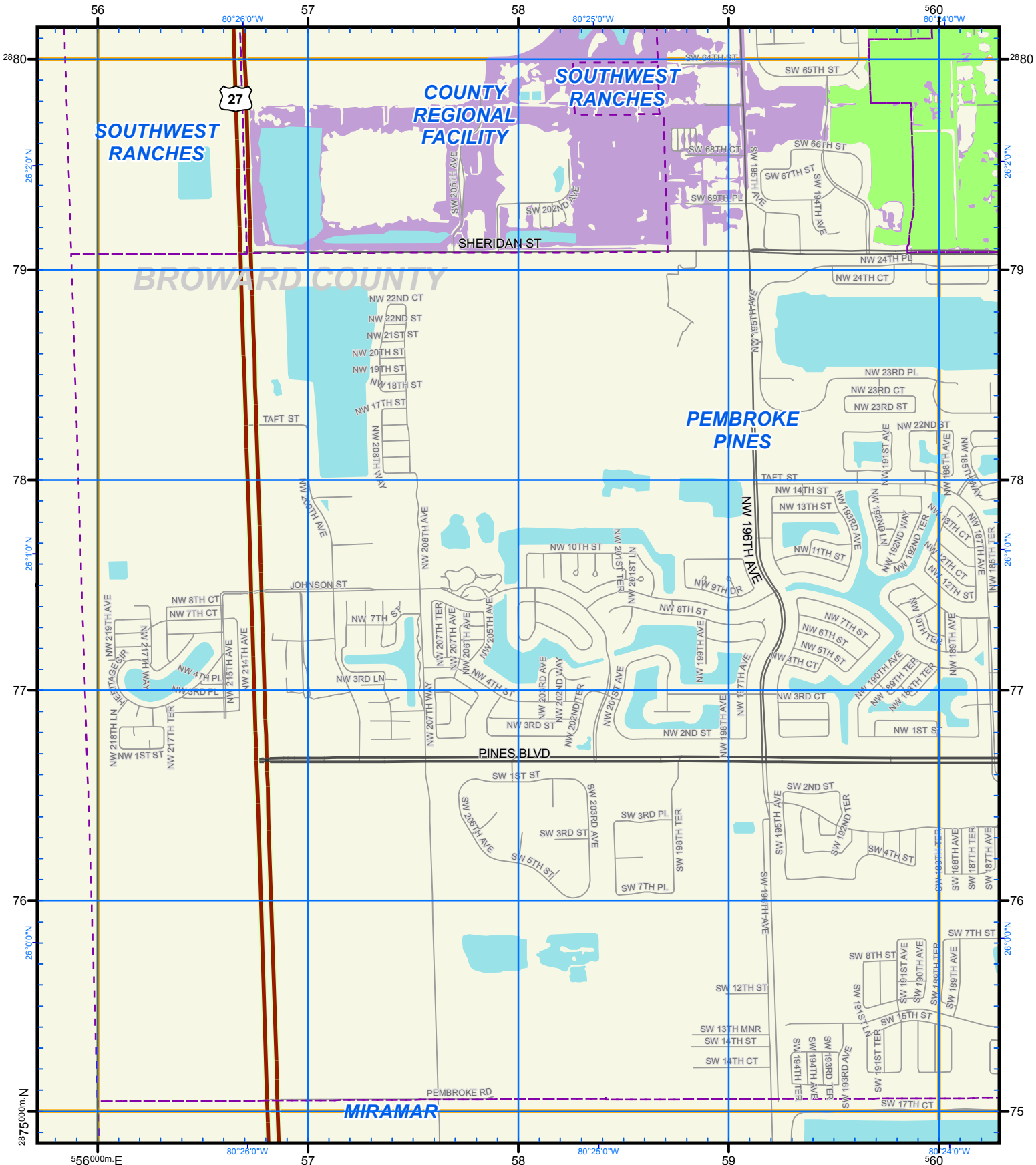
Storm Tide Category
 Level 1
 Level 2
 Level 3
 Level 4
 Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000

Map Plate 20



This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.



US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



Notes:
 1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
 2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
 3. The Points of Reference are locations determined to be relevant to emergency management officials.

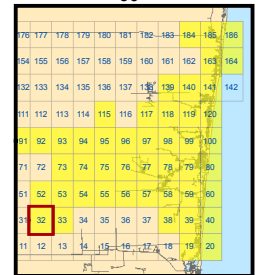
ATLAS LEGEND

- HOSPITAL
- Points of Reference
- City Limits
- Evacuation Route
- NHD Lakes

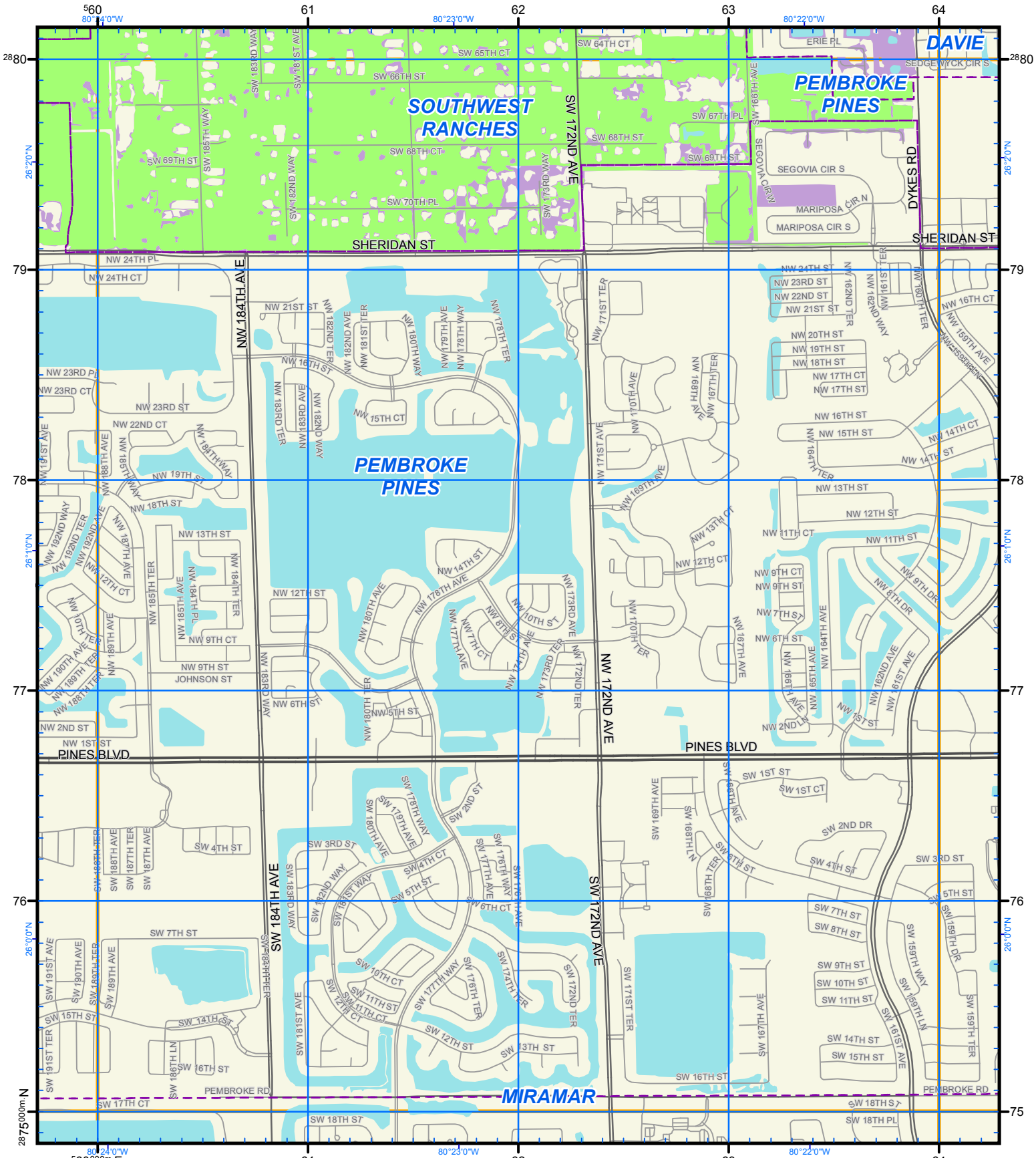
Storm Tide Category

- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 32



This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.



US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



Notes:
 1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
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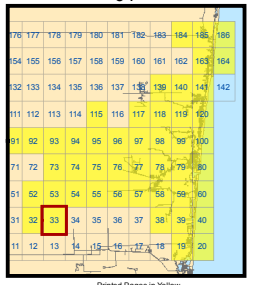
ATLAS LEGEND

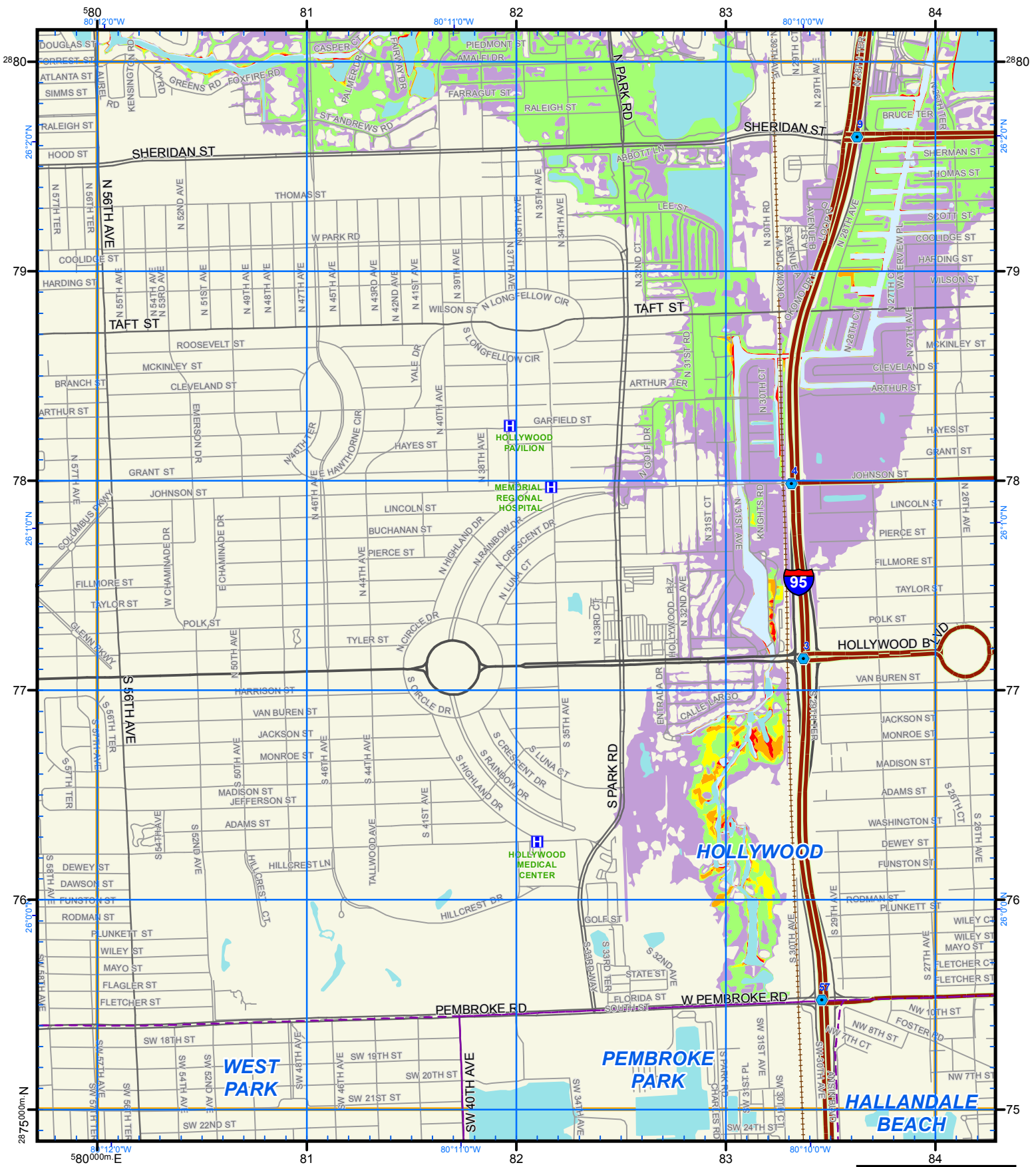
- HOSPITAL
- Points of Reference
- City Limits
- Evacuation Route
- NHD Lakes

Storm Tide Category

- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 33





US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



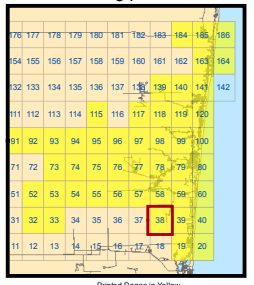
Notes:
 1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
 2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
 3. The Points of Reference are locations determined to be relevant to emergency management officials.

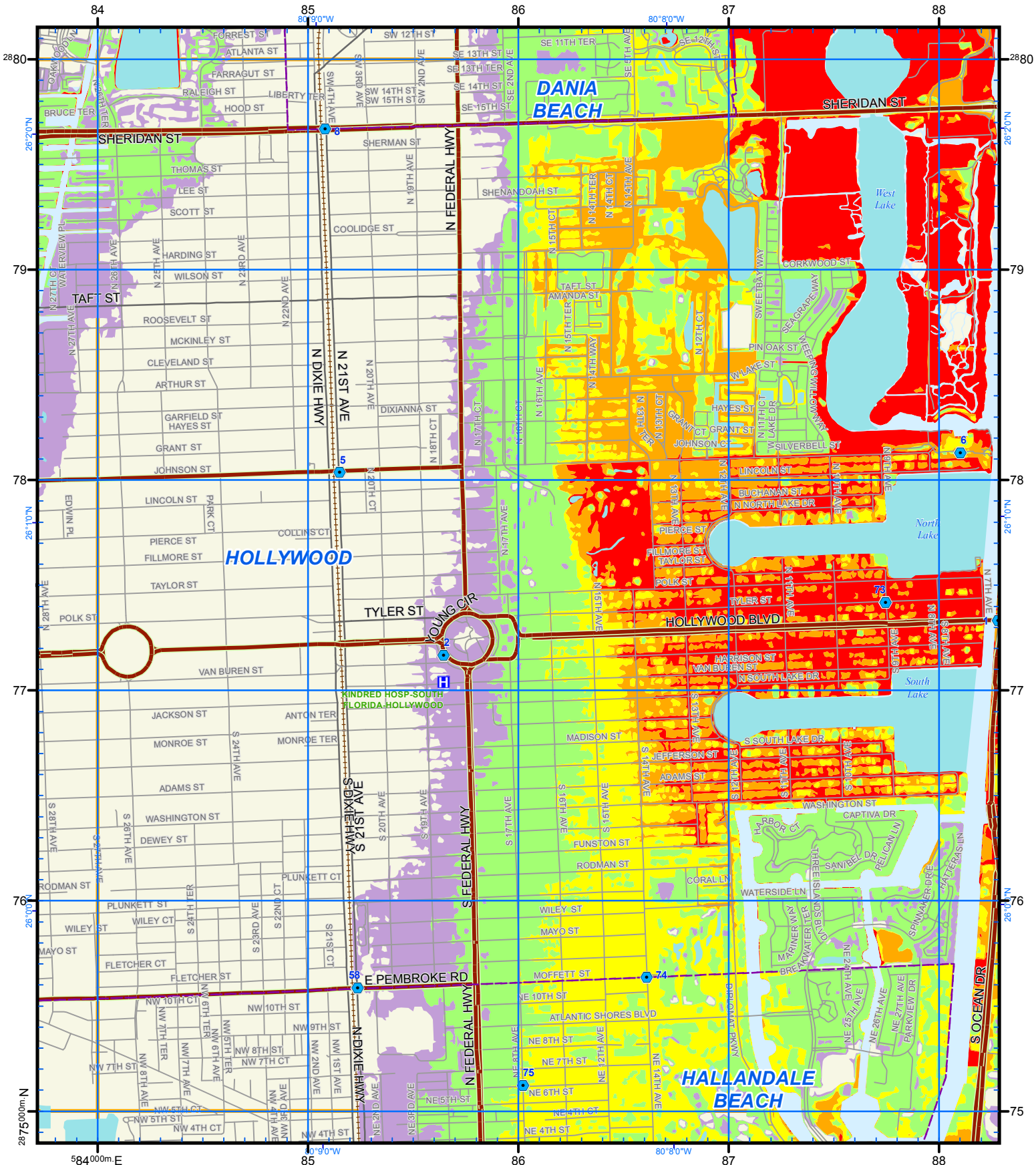
ATLAS LEGEND
HOSPITAL
Points of Reference
City Limits
Evacuation Route
NHD Lakes

Storm Tide Category
Level 1
Level 2
Level 3
Level 4
Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000

Map Plate 38





US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



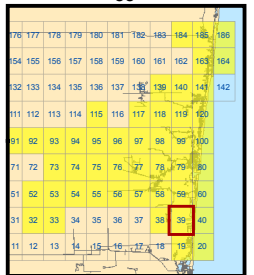
Notes:
 1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
 2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
 3. The Points of Reference are locations determined to be relevant to emergency management officials.

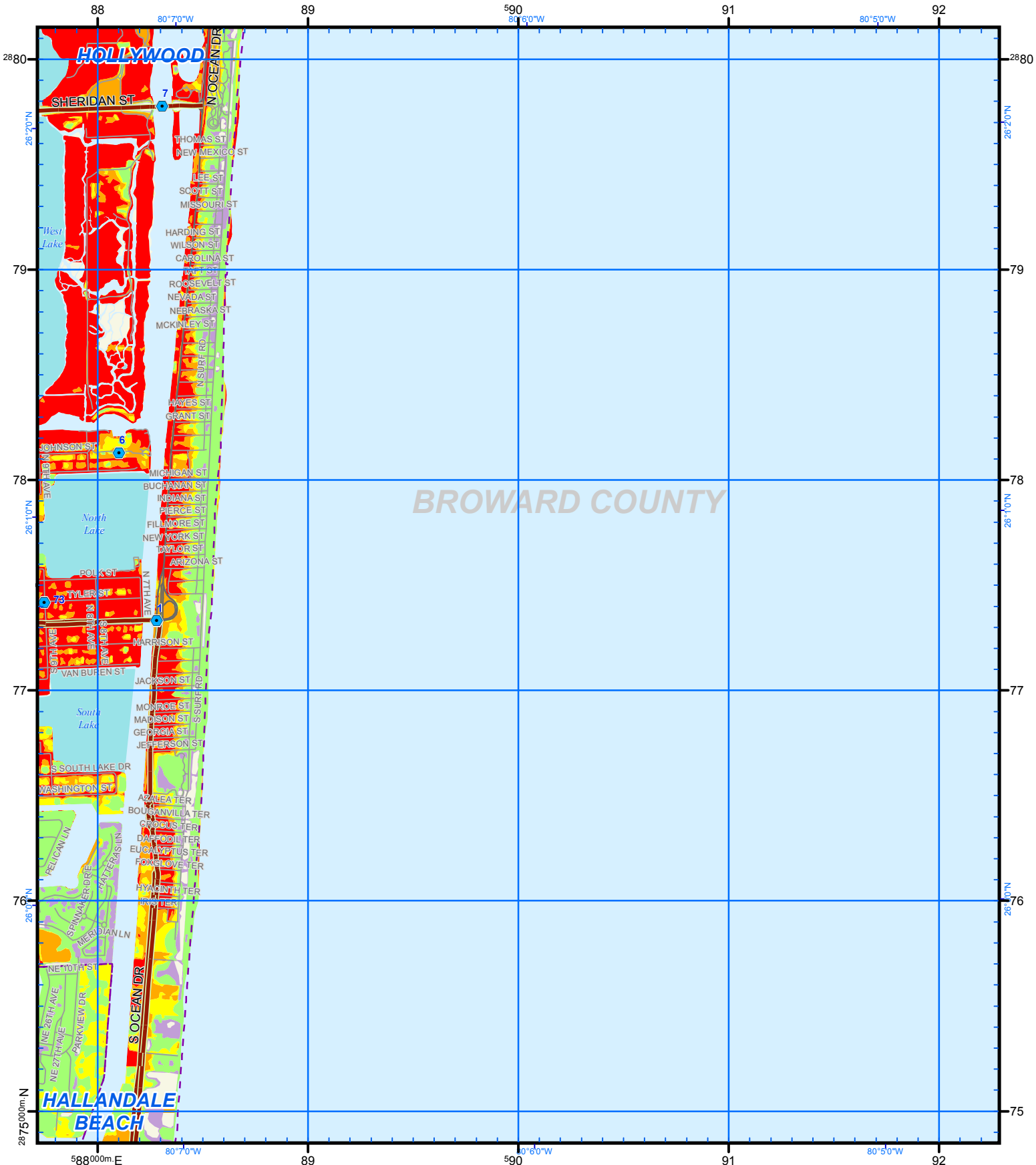
ATLAS LEGEND
HOSPITAL
Points of Reference
City Limits
Evacuation Route
NHD Lakes

Storm Tide Category
Level 1
Level 2
Level 3
Level 4
Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000

Map Plate 39





US National Grid
100,000-m Square ID
NJ
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG



Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

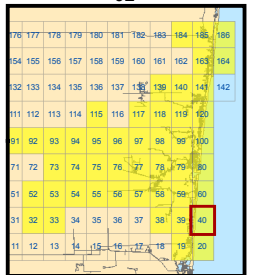
ATLAS LEGEND

- HOSPITAL
- Points of Reference
- City Limits
- Evacuation Route
- NHD Lakes

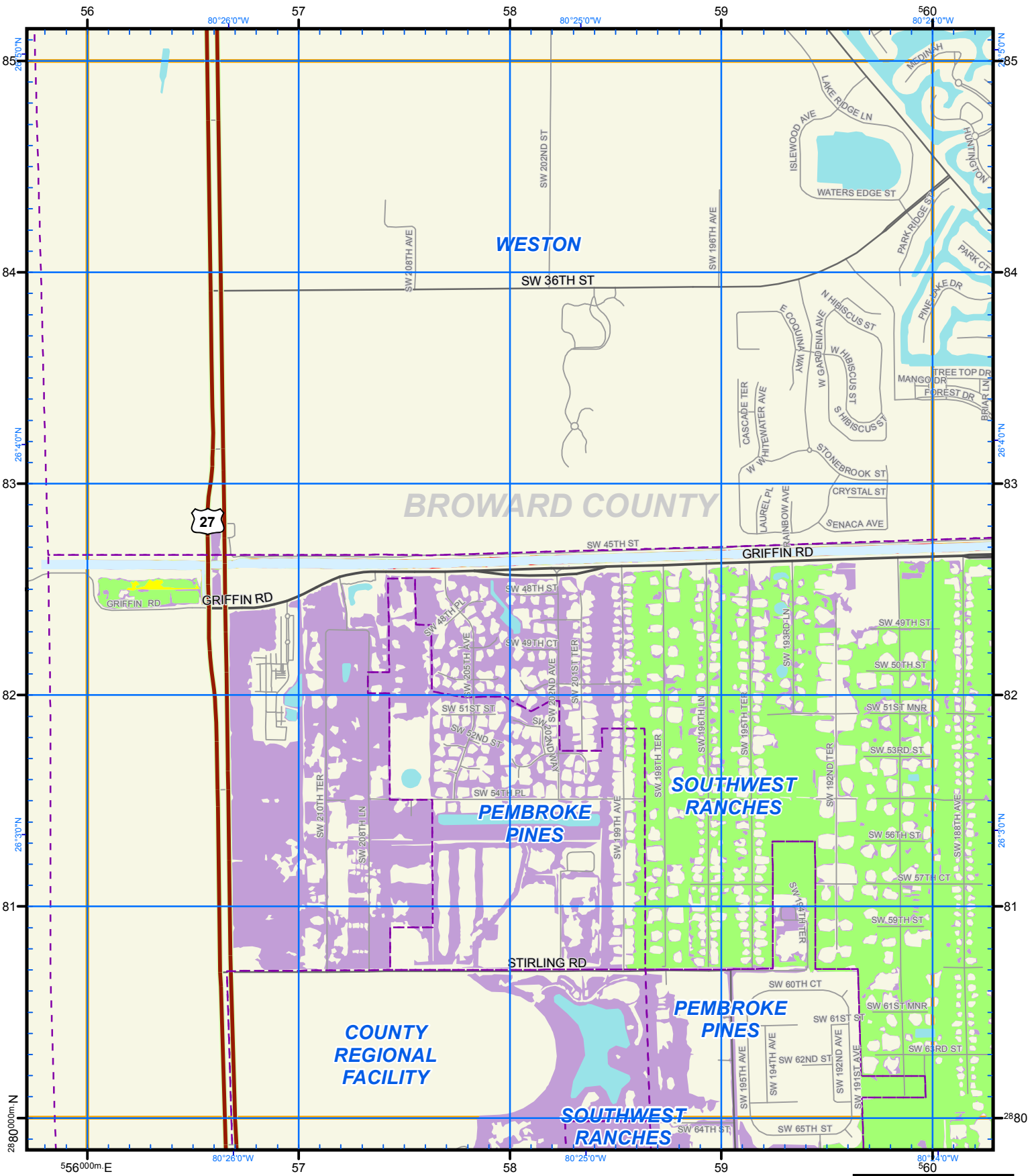
Storm Tide Category

- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

W-NW Storm Tide
Broward, 2015
Scale 1:24,000
0 2,000 Feet



This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.



US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



Notes:
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 2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
 3. The Points of Reference are locations determined to be relevant to emergency management officials.

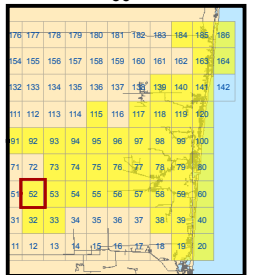
ATLAS LEGEND

- HOSPITAL
- Points of Reference
- City Limits
- Evacuation Route
- NHD Lakes

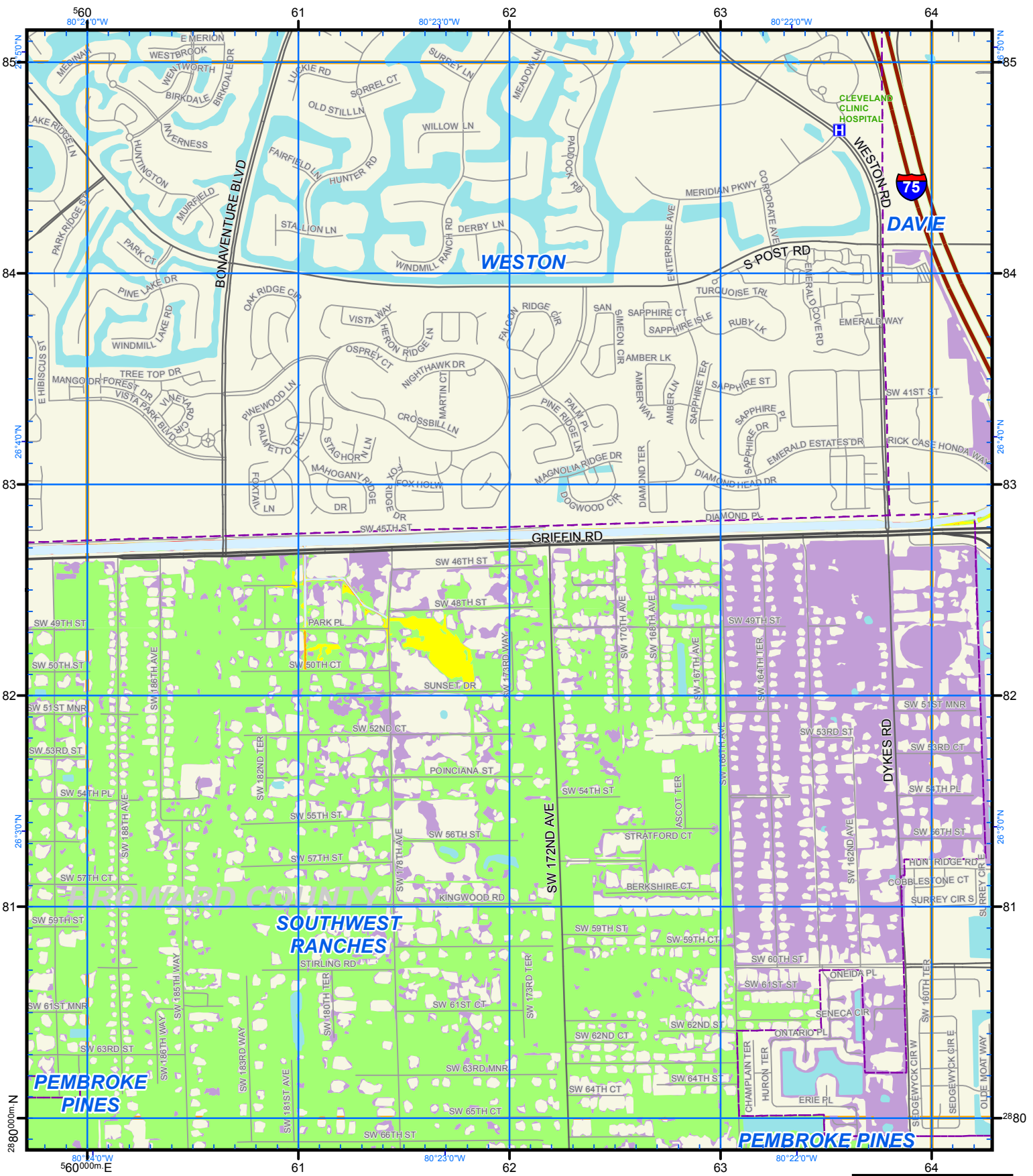
Storm Tide Category

- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 52



This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.



US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



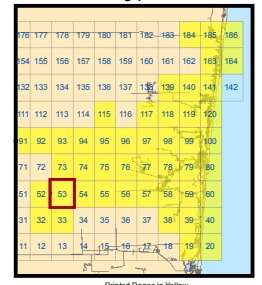
Notes:
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 2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
 3. The Points of Reference are locations determined to be relevant to emergency management officials.

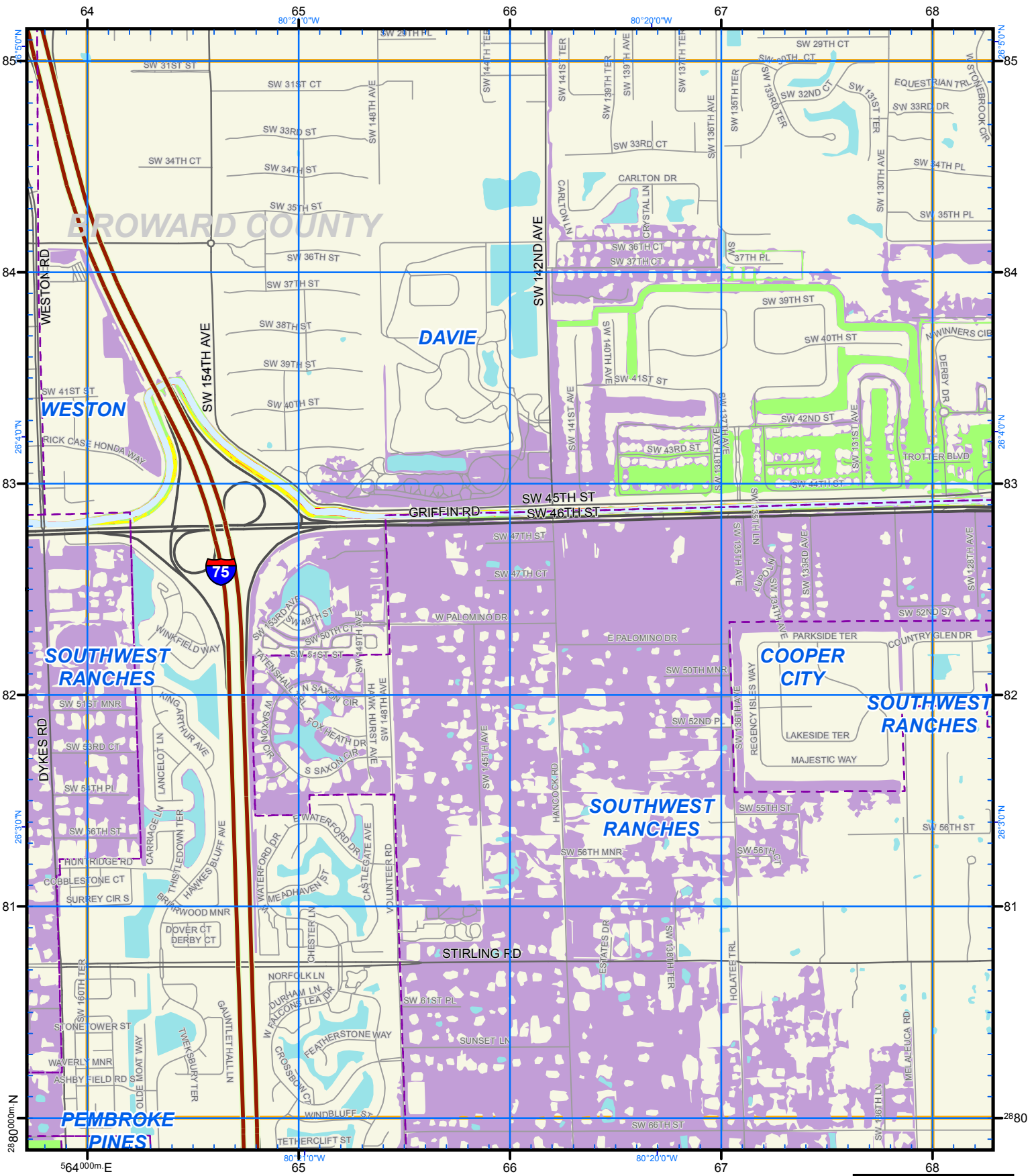
ATLAS LEGEND
HOSPITAL
Points of Reference
City Limits
Evacuation Route
NHD Lakes

Storm Tide Category
Level 1
Level 2
Level 3
Level 4
Level 5

W-NW Storm Tide Broward, 2015
 Scale 1:24,000

Map Plate 53





US National Grid
100,000-m Square ID
NJ
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG

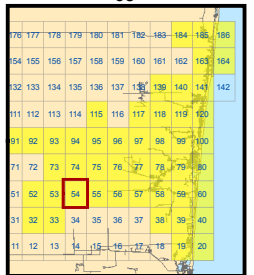


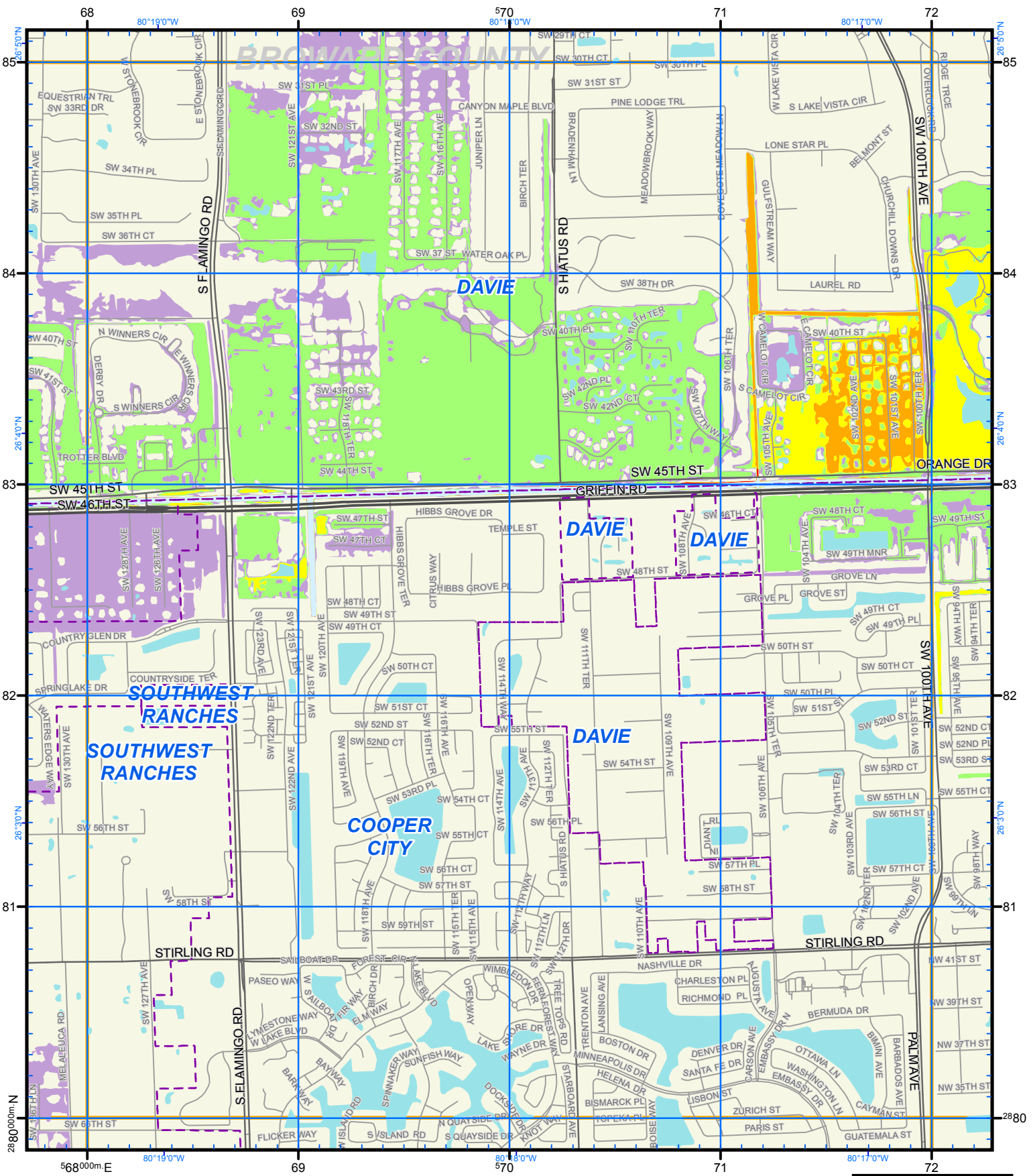
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
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ATLAS LEGEND
 HOSPITAL
 Points of Reference
 City Limits
 Evacuation Route
 NHD Lakes

Storm Tide Category
 Level 1
 Level 2
 Level 3
 Level 4
 Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 54





US National Grid
100,000-m Square ID
NJ
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG



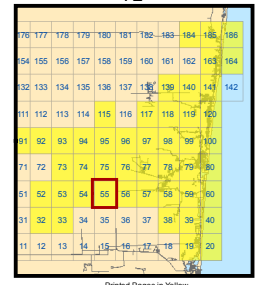
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
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ATLAS LEGEND
 HOSPITAL
 Points of Reference
 City Limits
 Evacuation Route
 NHD Lakes

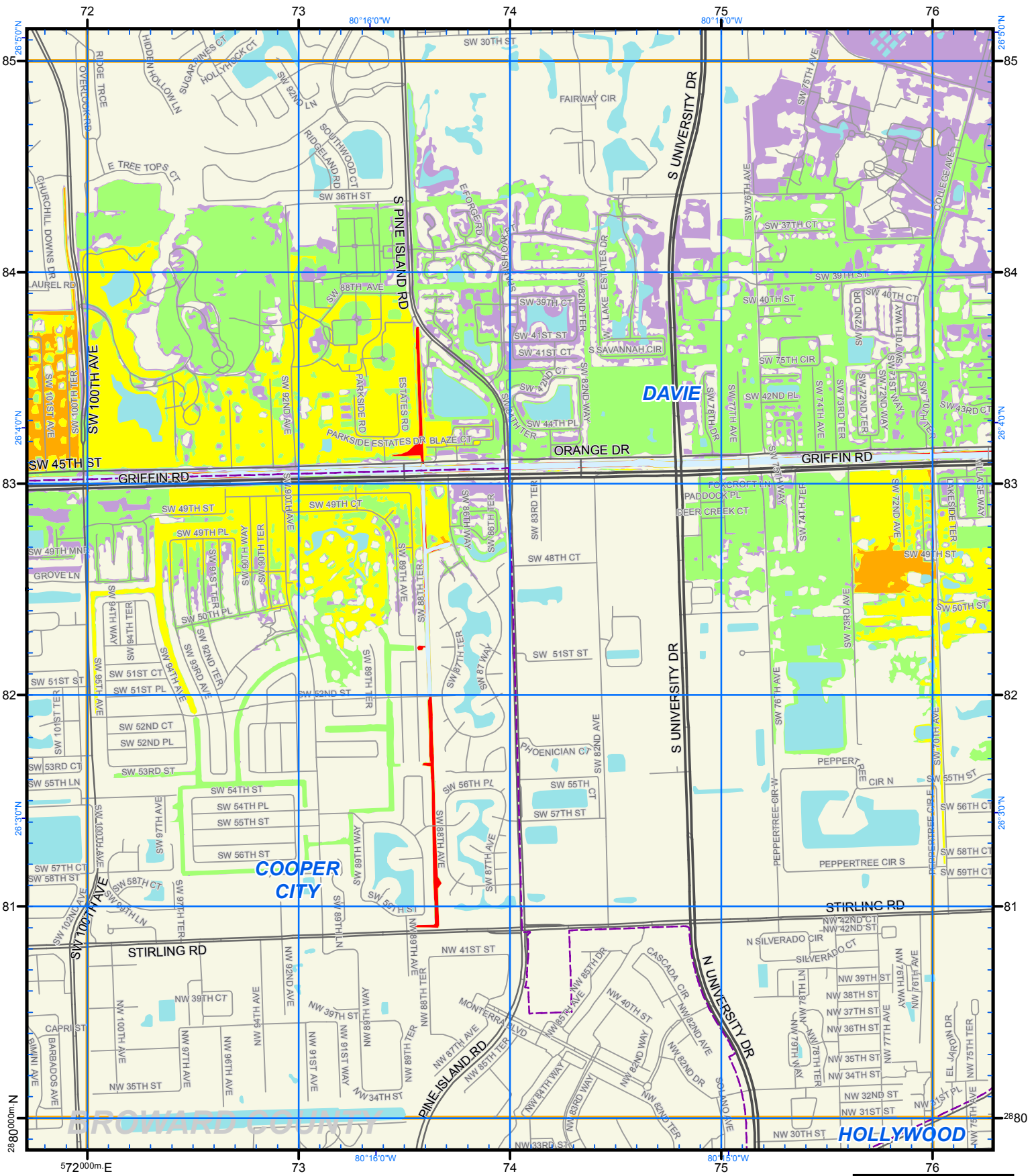
Storm Tide Category
 Level 1
 Level 2
 Level 3
 Level 4
 Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000

Map Plate 55



This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.



US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



Notes:

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2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
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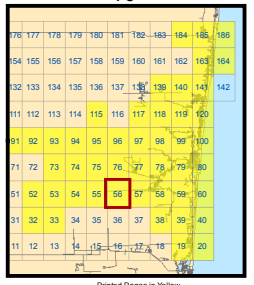
ATLAS LEGEND

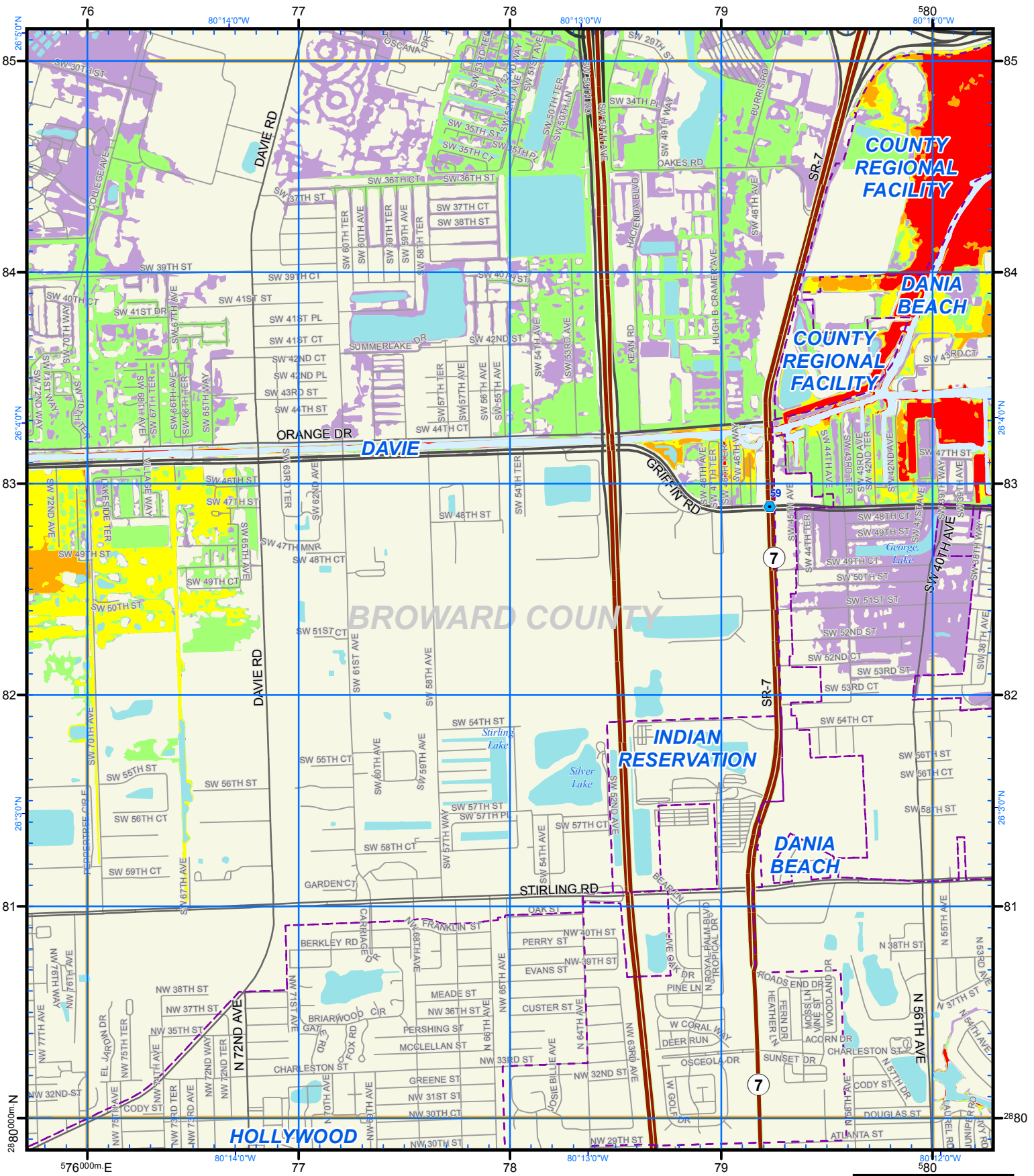
- HOSPITAL
- Points of Reference
- City Limits
- Evacuation Route
- NHD Lakes

Storm Tide Category

- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 56





US National Grid
100,000-m Square ID
NJ
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG



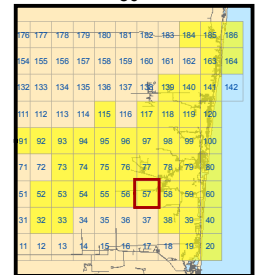
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1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

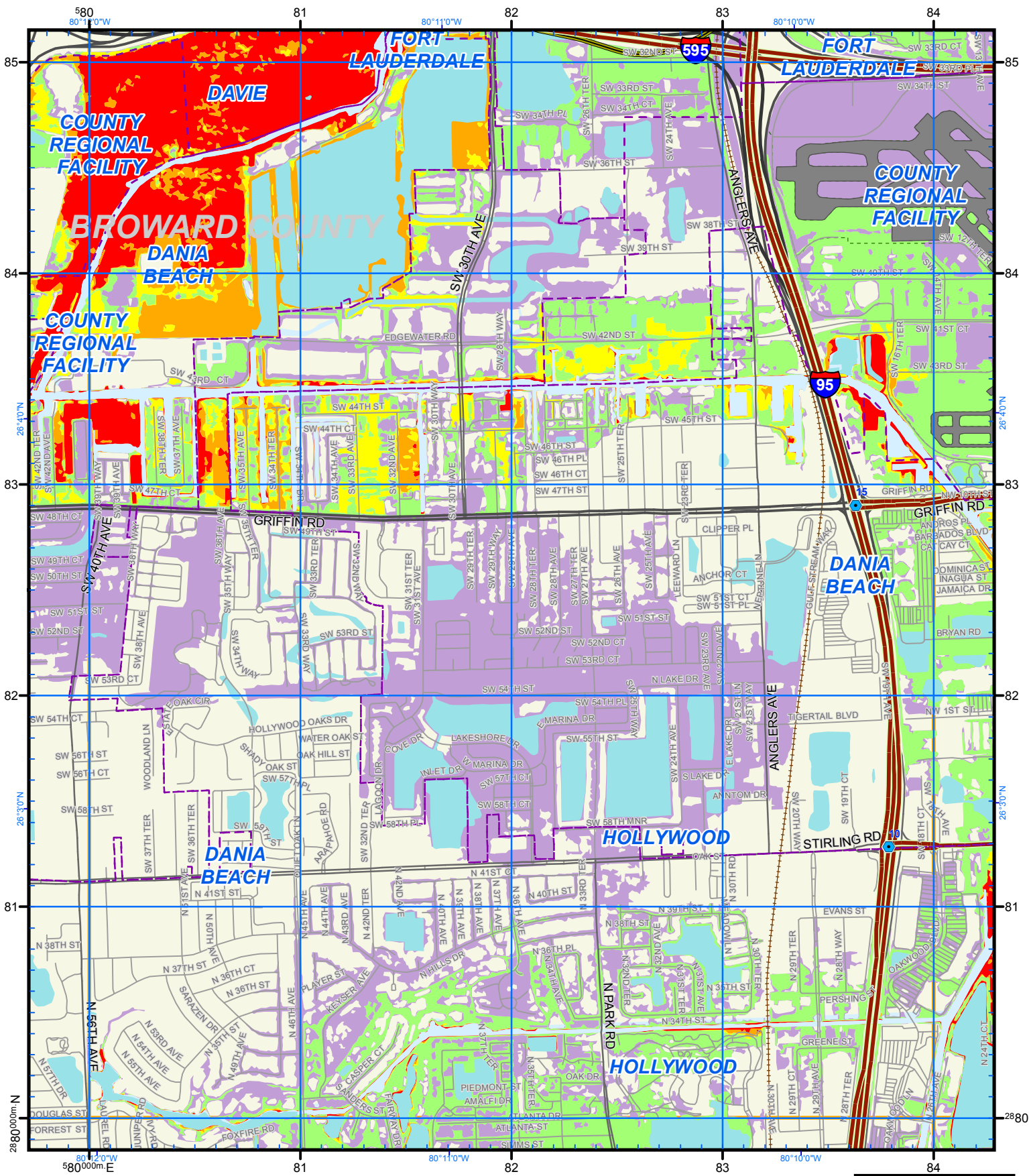
ATLAS LEGEND
HOSPITAL
Points of Reference
City Limits
Evacuation Route
NHD Lakes

Storm Tide Category
Level 1
Level 2
Level 3
Level 4
Level 5

W-NW Storm Tide Broward, 2015
Scale 1:24,000

Map Plate 57





US National Grid
100,000-m Square ID
NJ
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG



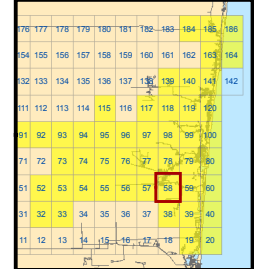
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

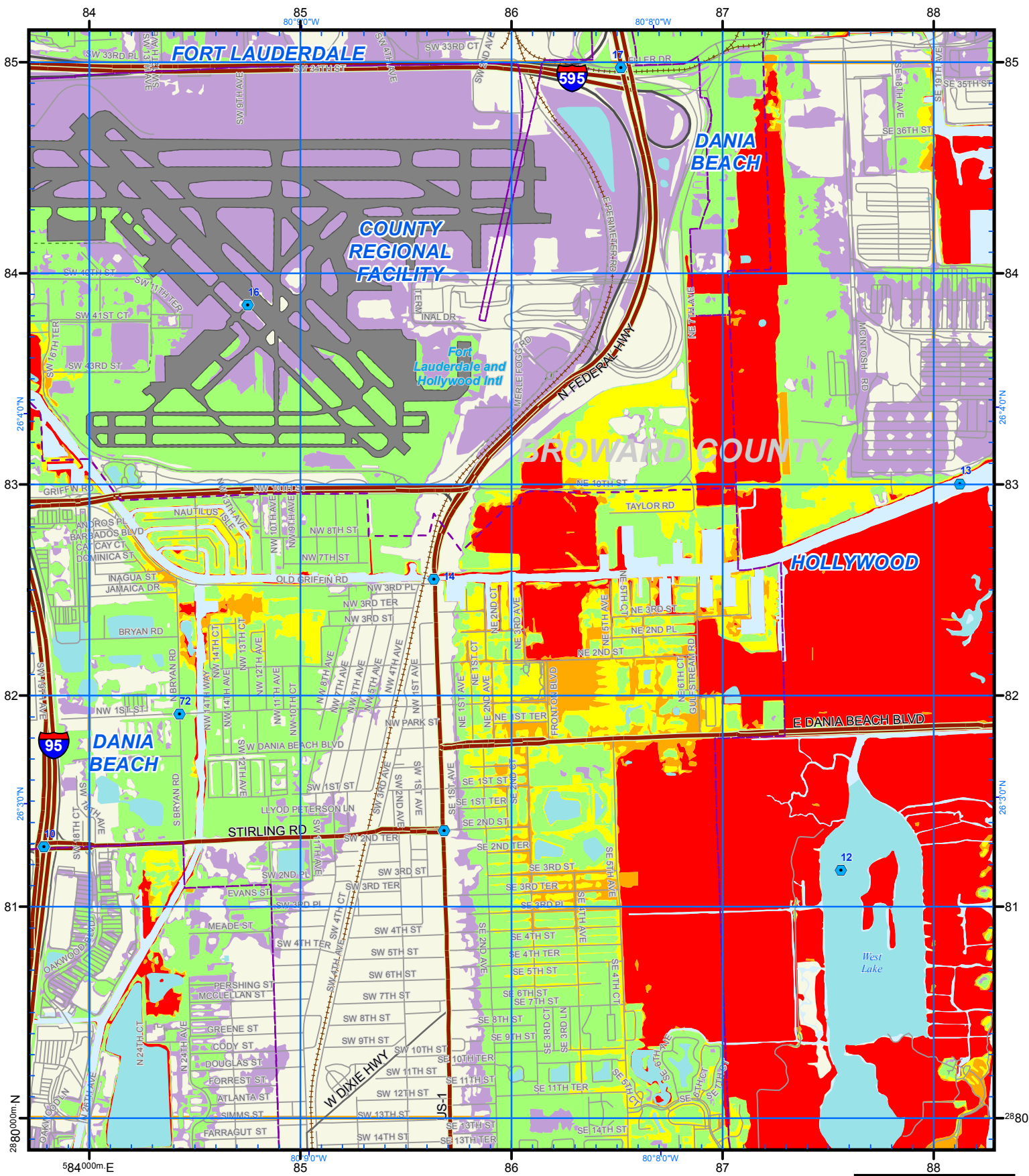
ATLAS LEGEND
 HOSPITAL
 Points of Reference
 City Limits
 Evacuation Route
 NHD Lakes

Storm Tide Category
 Level 1
 Level 2
 Level 3
 Level 4
 Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000

Map Plate 58





US National Grid
100,000-m Square ID
NJ
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG



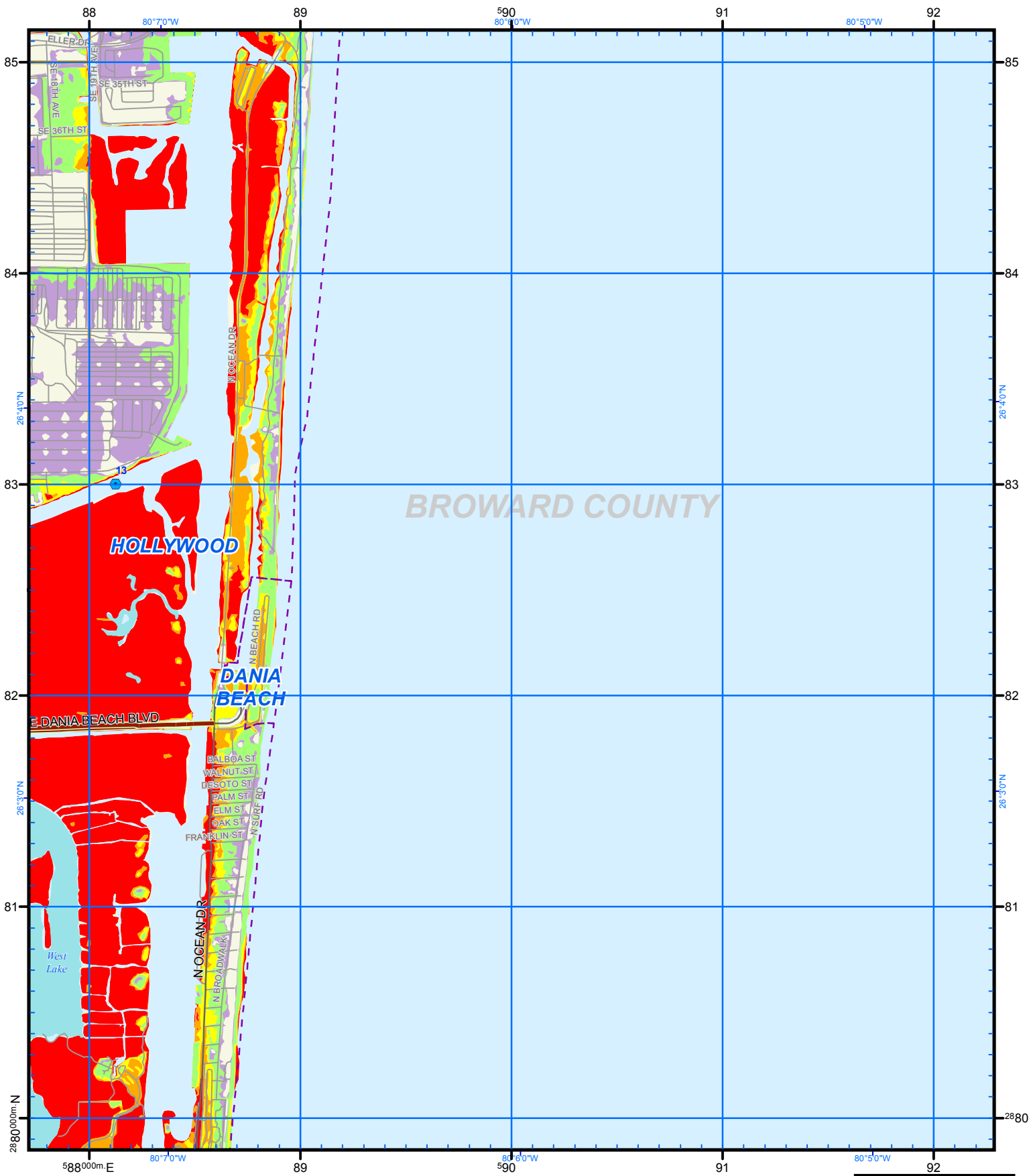
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
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ATLAS LEGEND
 HOSPITAL
 Points of Reference
 City Limits
 Evacuation Route
 NHD Lakes

Storm Tide Category
 Level 1
 Level 2
 Level 3
 Level 4
 Level 5

W-NW Storm Tide Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 59

76	177	178	179	180	181	182	183	184	185	186
54	155	156	157	158	159	160	161	162	163	164
32	133	134	135	136	137	138	139	140	141	142
11	112	113	114	115	116	117	118	119	120	
91	92	93	94	95	96	97	98	99	100	
71	72	73	74	75	76	77	78	79	80	
51	52	53	54	55	56	57	58	59	60	
31	32	33	34	35	36	37	38	39	40	
11	12	13	14	15	16	17	18	19	20	



US National Grid
100,000-m Square ID
NJ
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG



Notes:
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ATLAS LEGEND

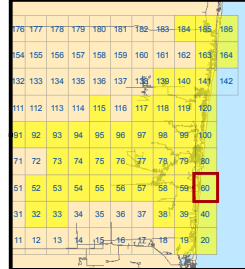
- HOSPITAL
- Points of Reference
- City Limits
- Evacuation Route
- NHD Lakes

Storm Tide Category

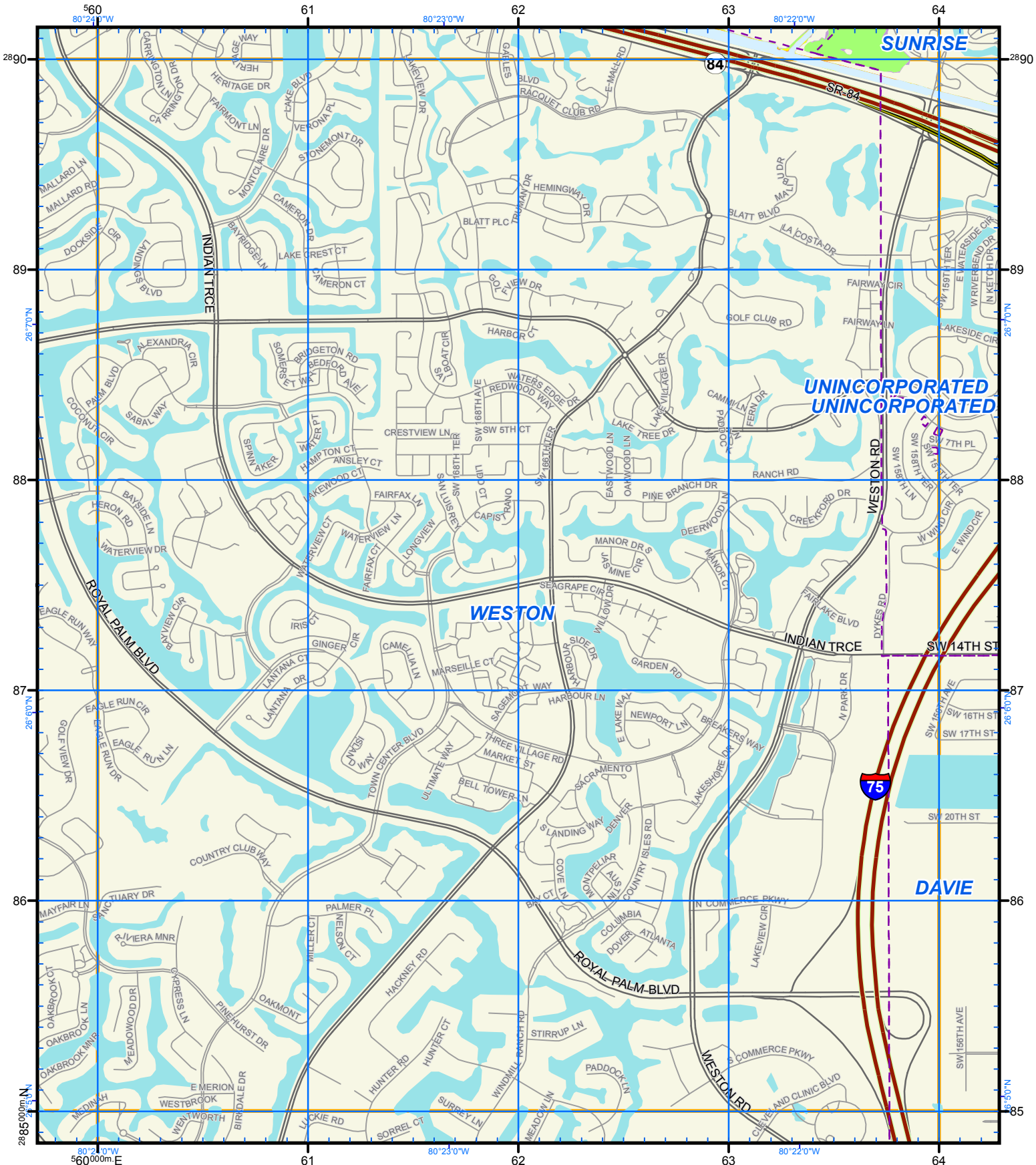
- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

W-NW Storm Tide
Broward, 2015
Scale 1:24,000

Map Plate 60



This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.



US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG

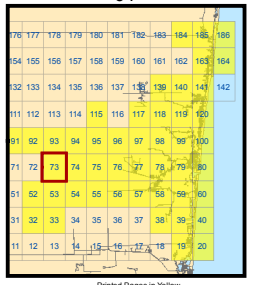


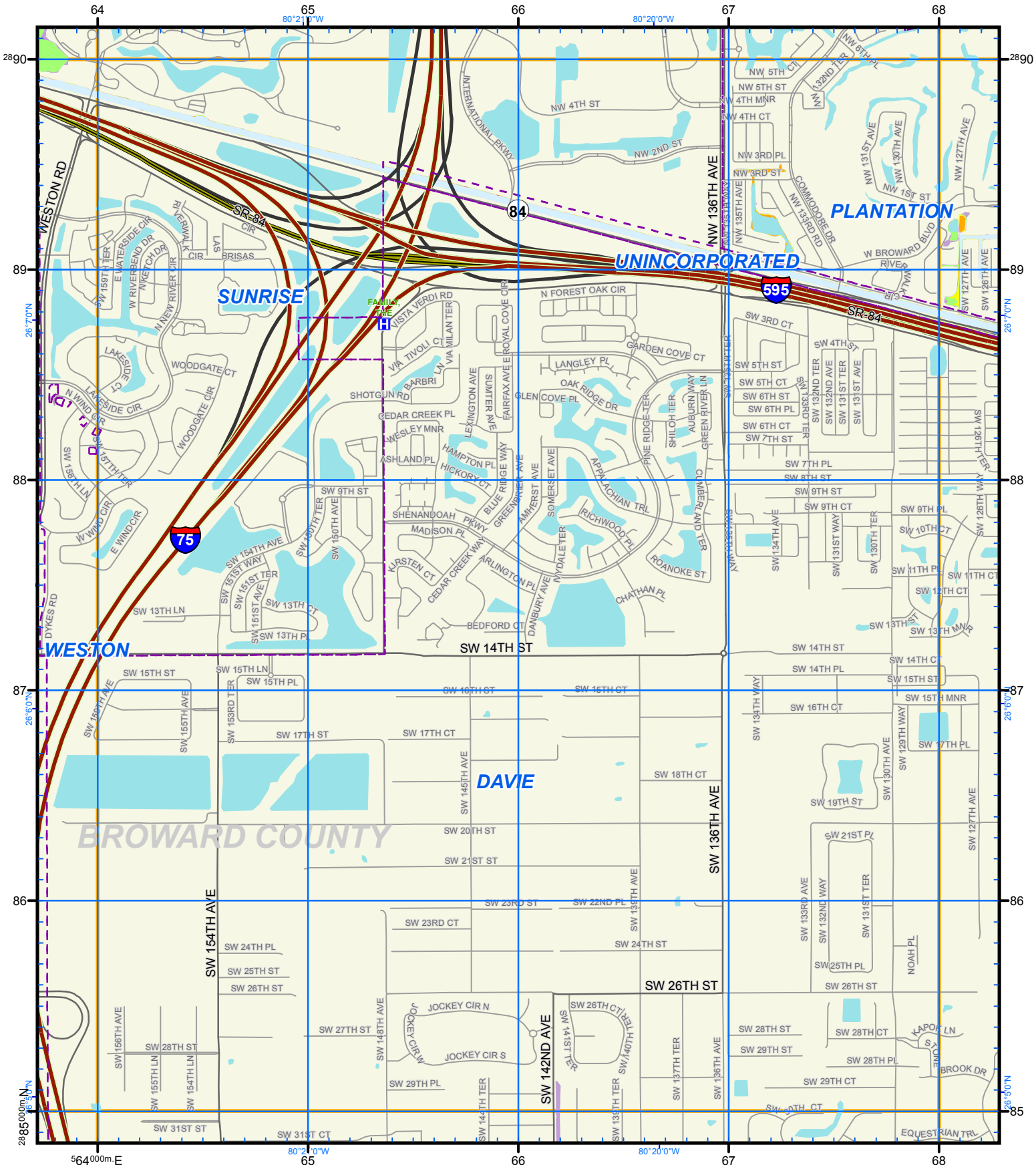
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ATLAS LEGEND
 HOSPITAL
 Points of Reference
 City Limits
 Evacuation Route
 NHD Lakes

Storm Tide Category
 Level 1
 Level 2
 Level 3
 Level 4
 Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 73





US National Grid
100,000-m Square ID
NJ
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG



Notes:
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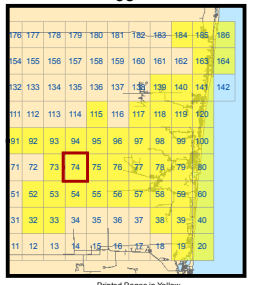
ATLAS LEGEND

- H HOSPITAL
- Points of Reference
- City Limits
- Evacuation Route
- NHD Lakes

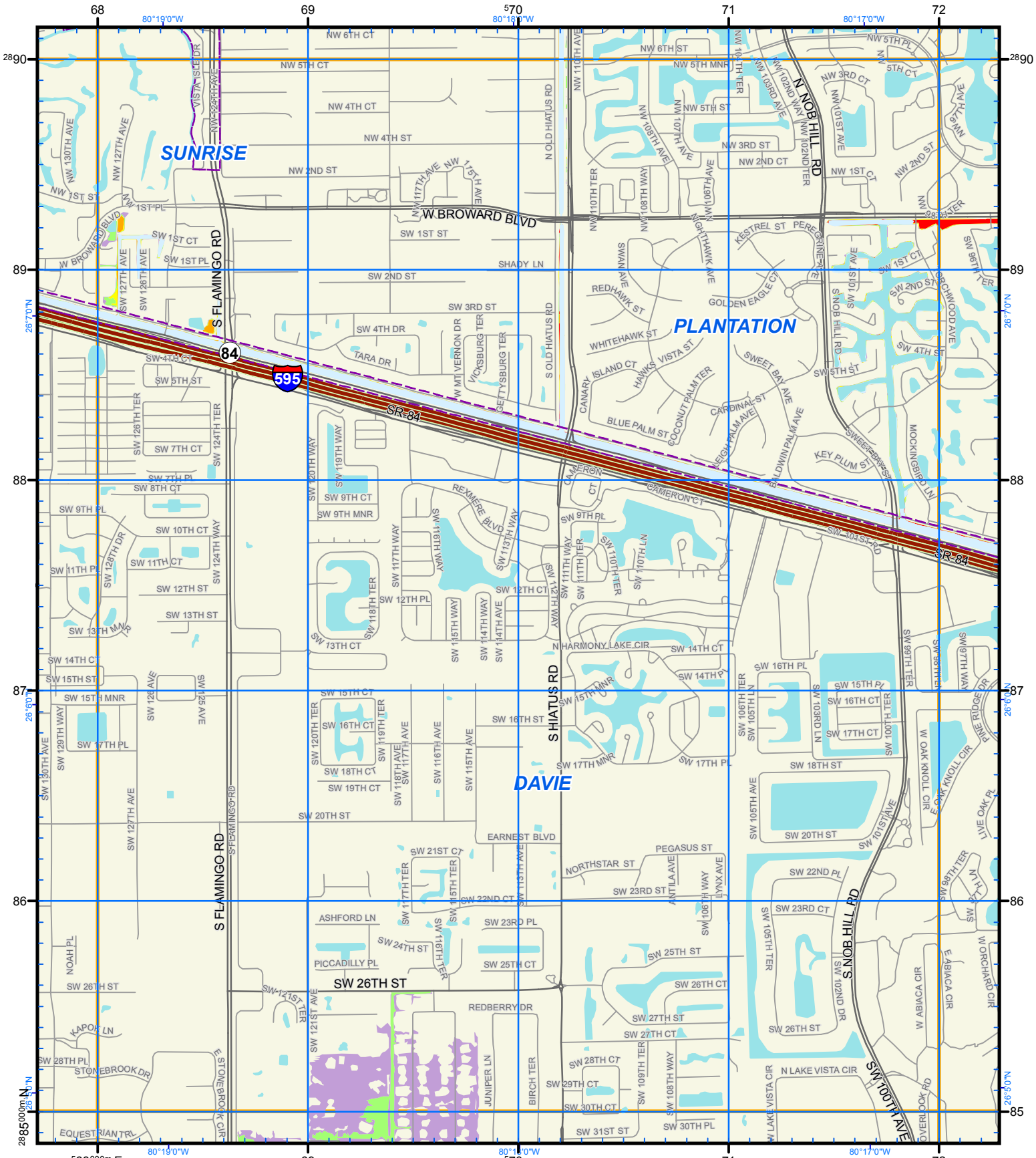
Storm Tide Category

- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

W-NW Storm Tide
Broward, 2015
Scale 1:24,000
0 2,000 Feet
Map Plate 74



This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.



US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



Notes:
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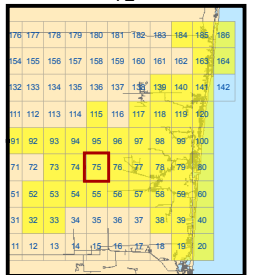
ATLAS LEGEND

- HOSPITAL
- Points of Reference
- City Limits
- Evacuation Route
- NHD Lakes

Storm Tide Category

- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 75





US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



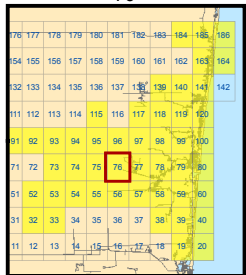
Notes:
 1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
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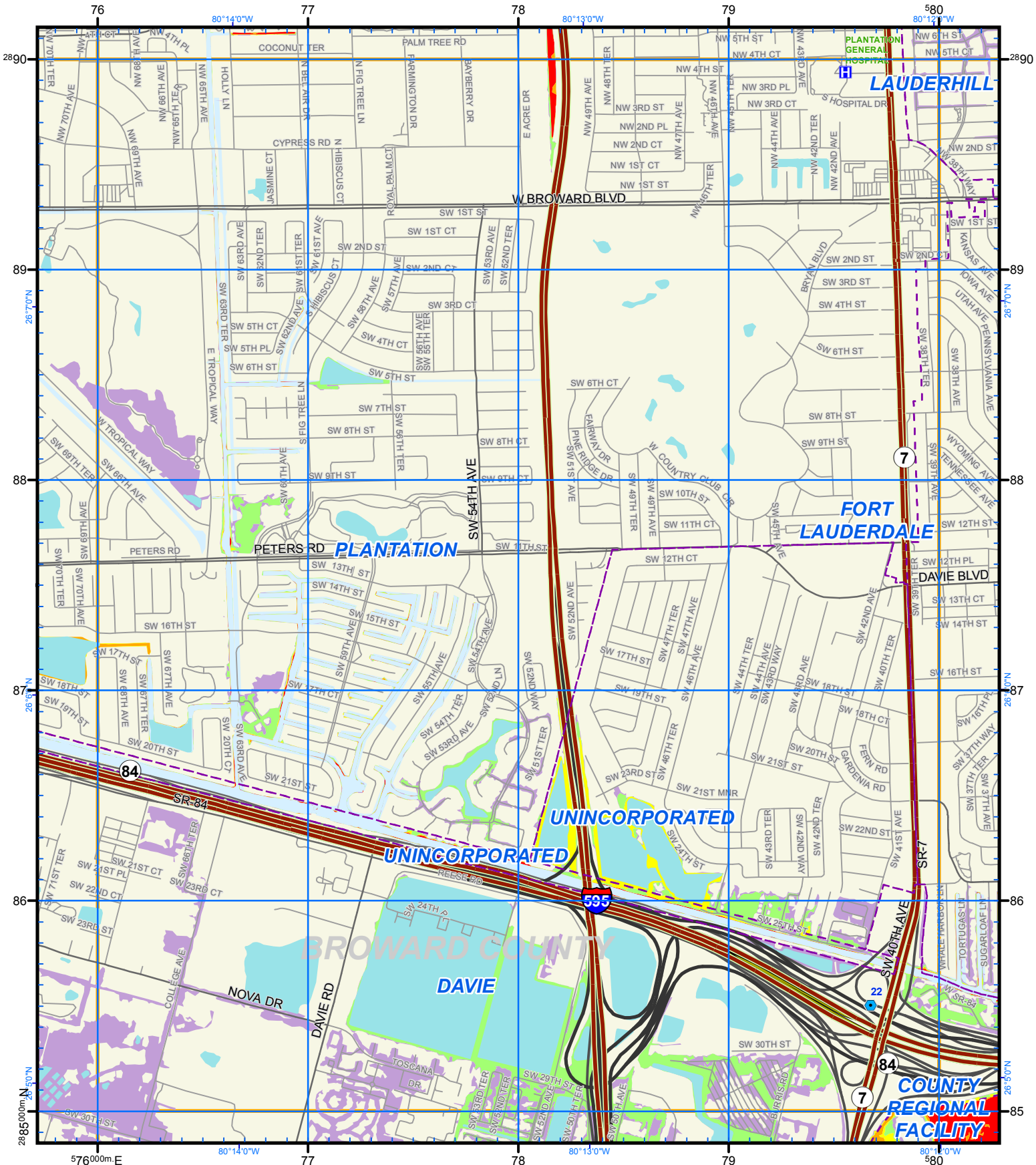
ATLAS LEGEND
HOSPITAL
Points of Reference
City Limits
Evacuation Route
NHD Lakes

Storm Tide Category
Level 1
Level 2
Level 3
Level 4
Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000

Map Plate 76





US National Grid
100,000-m Square ID
NJ
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG

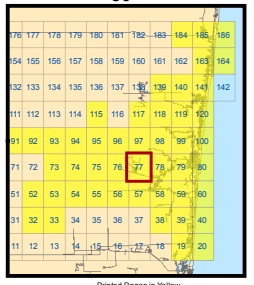


Notes:
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2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

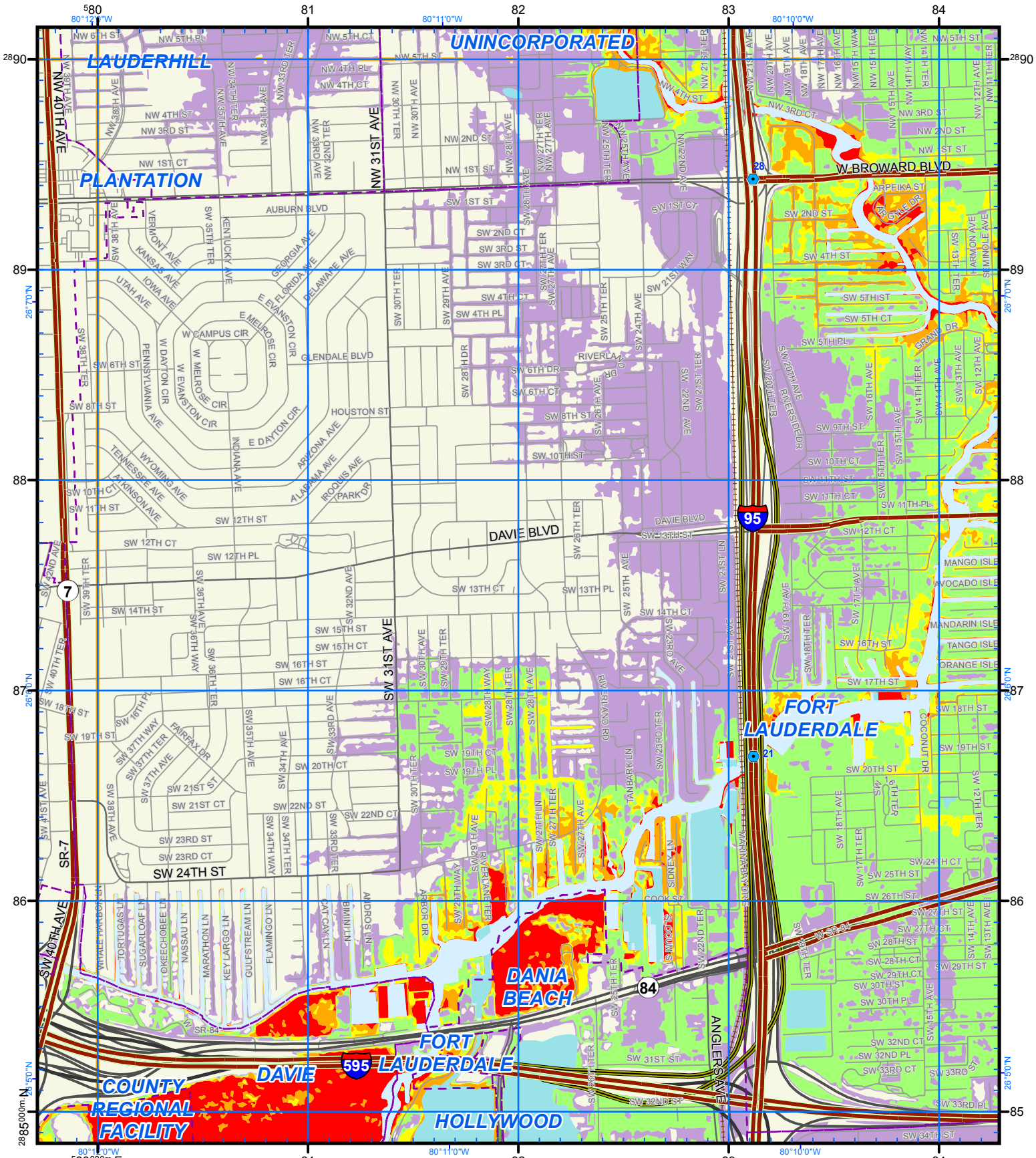
ATLAS LEGEND
 HOSPITAL
 Points of Reference
 City Limits
 Evacuation Route
 NHD Lakes

Storm Tide Category
 Level 1
 Level 2
 Level 3
 Level 4
 Level 5

W-NW Storm Tide Broward, 2015
Scale 1:24,000
0 2,000 Feet
Map Plate 77



This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.



US National Grid
100,000-m Square ID
NJ
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG

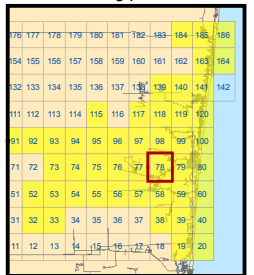


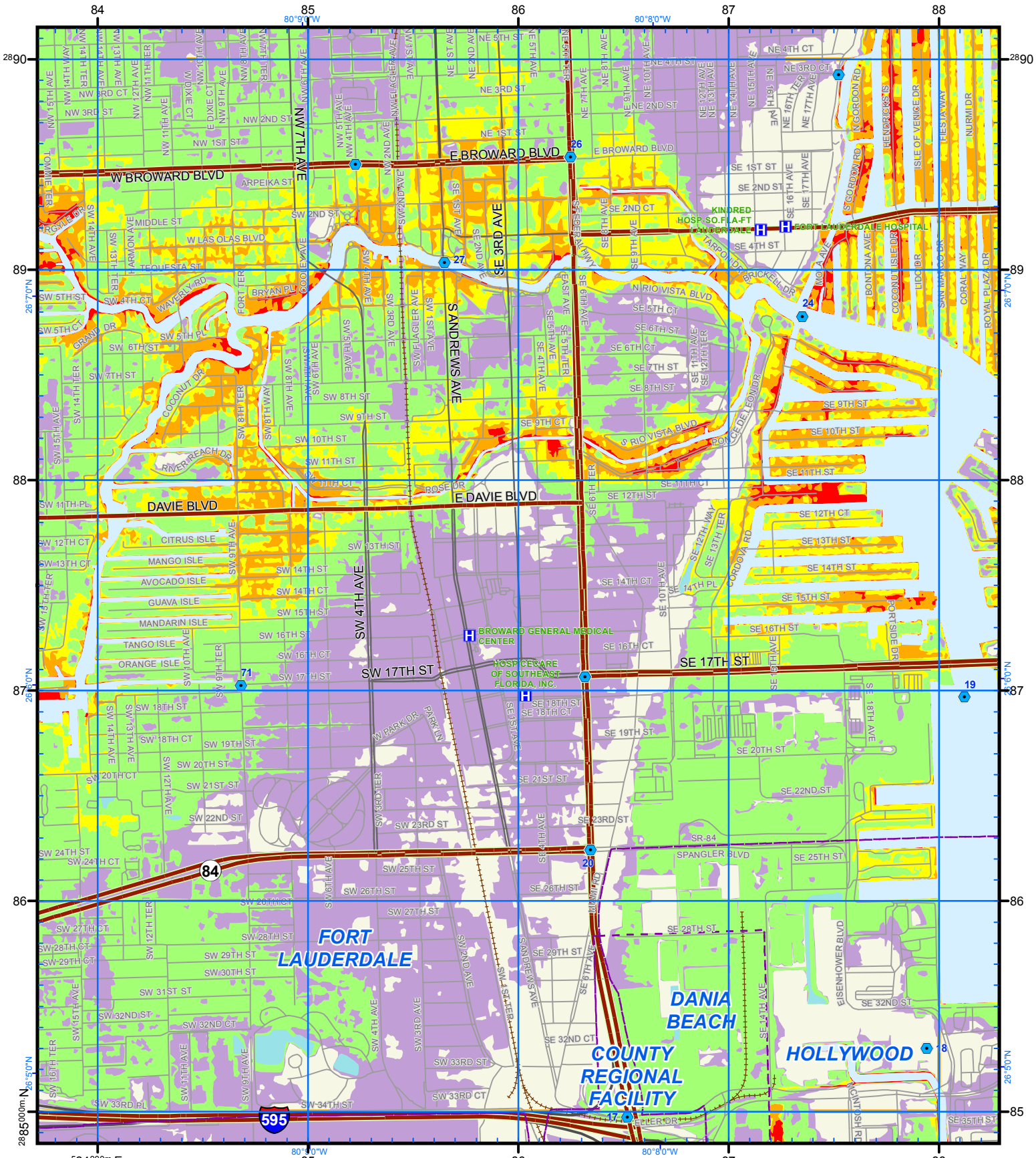
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- ATLAS LEGEND**
- HOSPITAL HOSPITAL
 - Points of Reference
 - CITY LIMITS City Limits
 - Evacuation Route
 - NHD LAKES NHD Lakes

- Storm Tide Category**
- Level 1
 - Level 2
 - Level 3
 - Level 4
 - Level 5

W-NW Storm Tide
Broward, 2015
Scale 1:24,000
0 2,000 Feet
Map Plate 78





US National Grid
100,000-m Square ID
NJ
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG

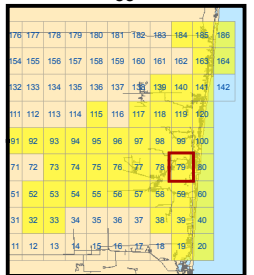


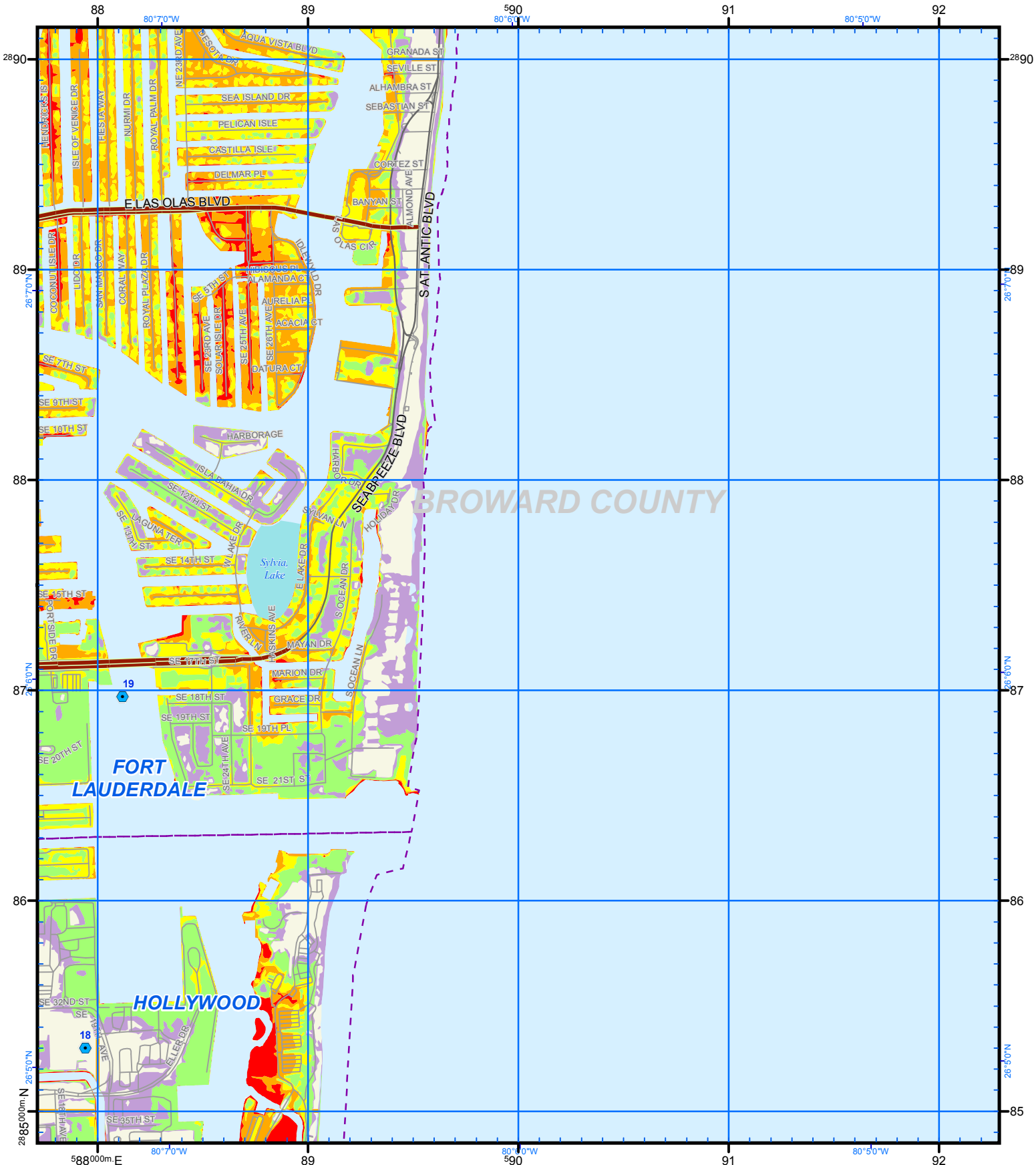
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
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ATLAS LEGEND
 HOSPITAL
 Points of Reference
 City Limits
 Evacuation Route
 NHD Lakes

Storm Tide Category
 Level 1
 Level 2
 Level 3
 Level 4
 Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 79





US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



Notes:
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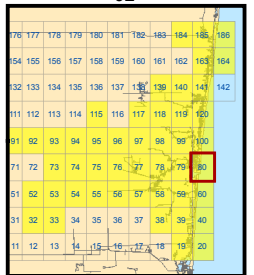
- ATLAS LEGEND**
- HOSPITAL
 - Points of Reference
 - City Limits
 - Evacuation Route
 - NHD Lakes

- Storm Tide Category**
- Level 1
 - Level 2
 - Level 3
 - Level 4
 - Level 5

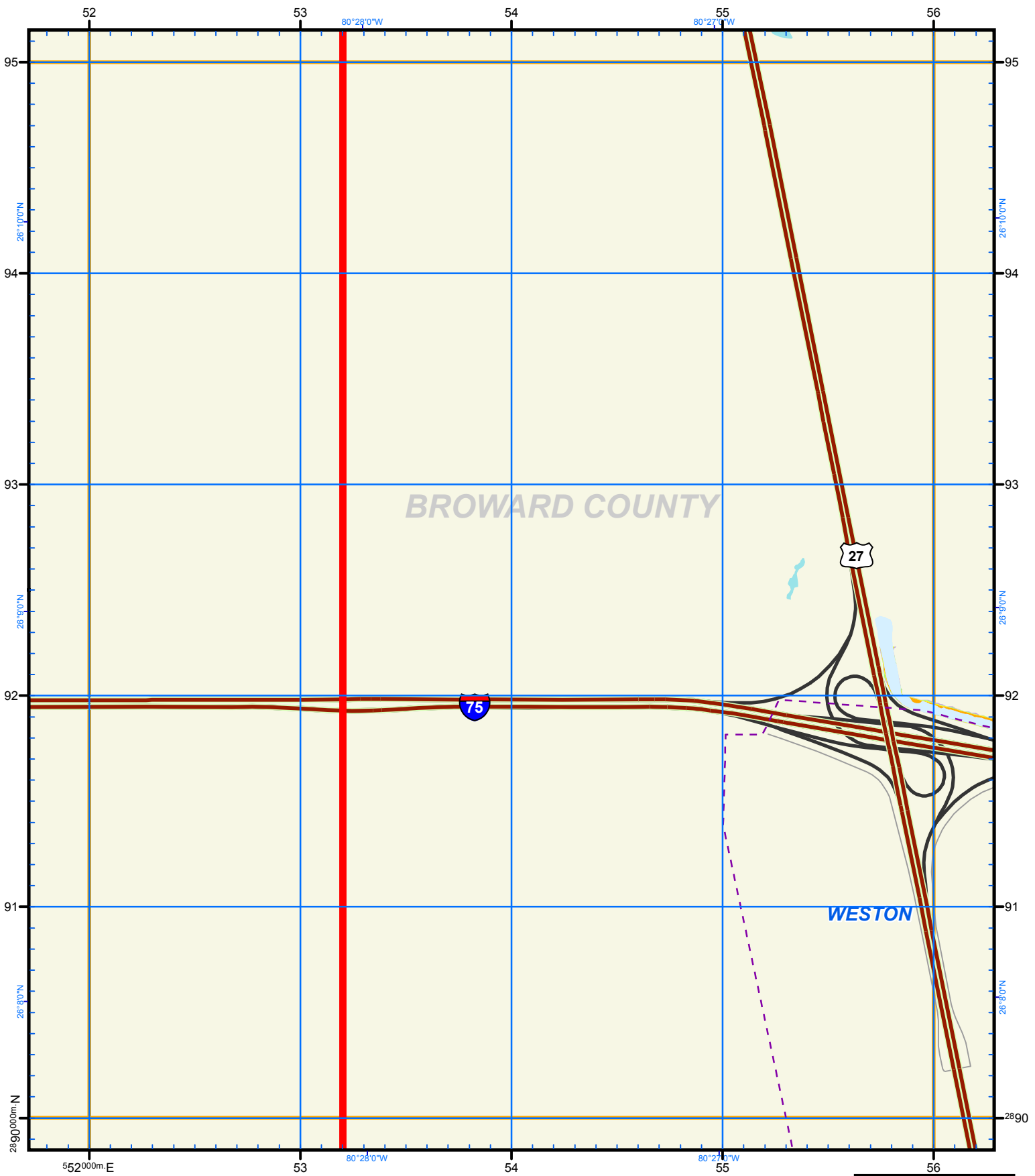
W-NW Storm Tide
Broward, 2015
 Scale 1:24,000



Map Plate 80



This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.



US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



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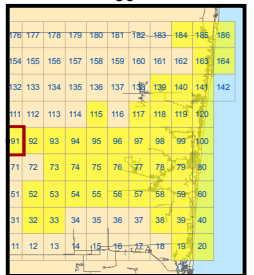
ATLAS LEGEND

- HOSPITAL
- Points of Reference
- City Limits
- Evacuation Route
- NHD Lakes

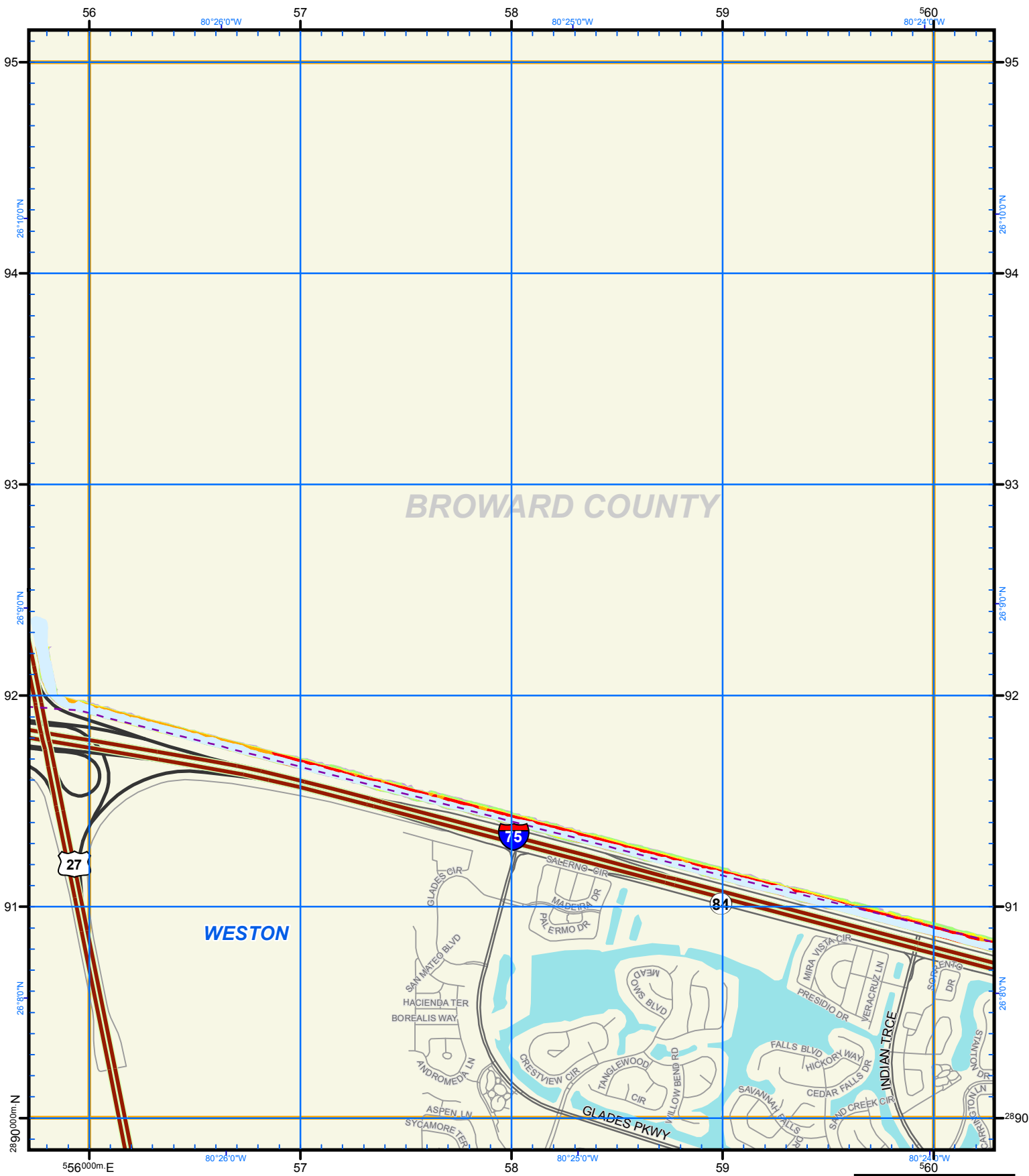
Storm Tide Category

- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 91



This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.



US National Grid
100,000-m Square ID
NJ
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG



Notes:
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2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

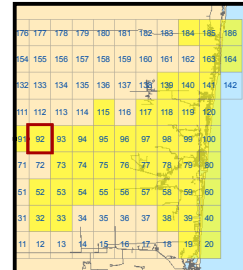
ATLAS LEGEND
HOSPITAL
Points of Reference
City Limits
Evacuation Route
NHD Lakes

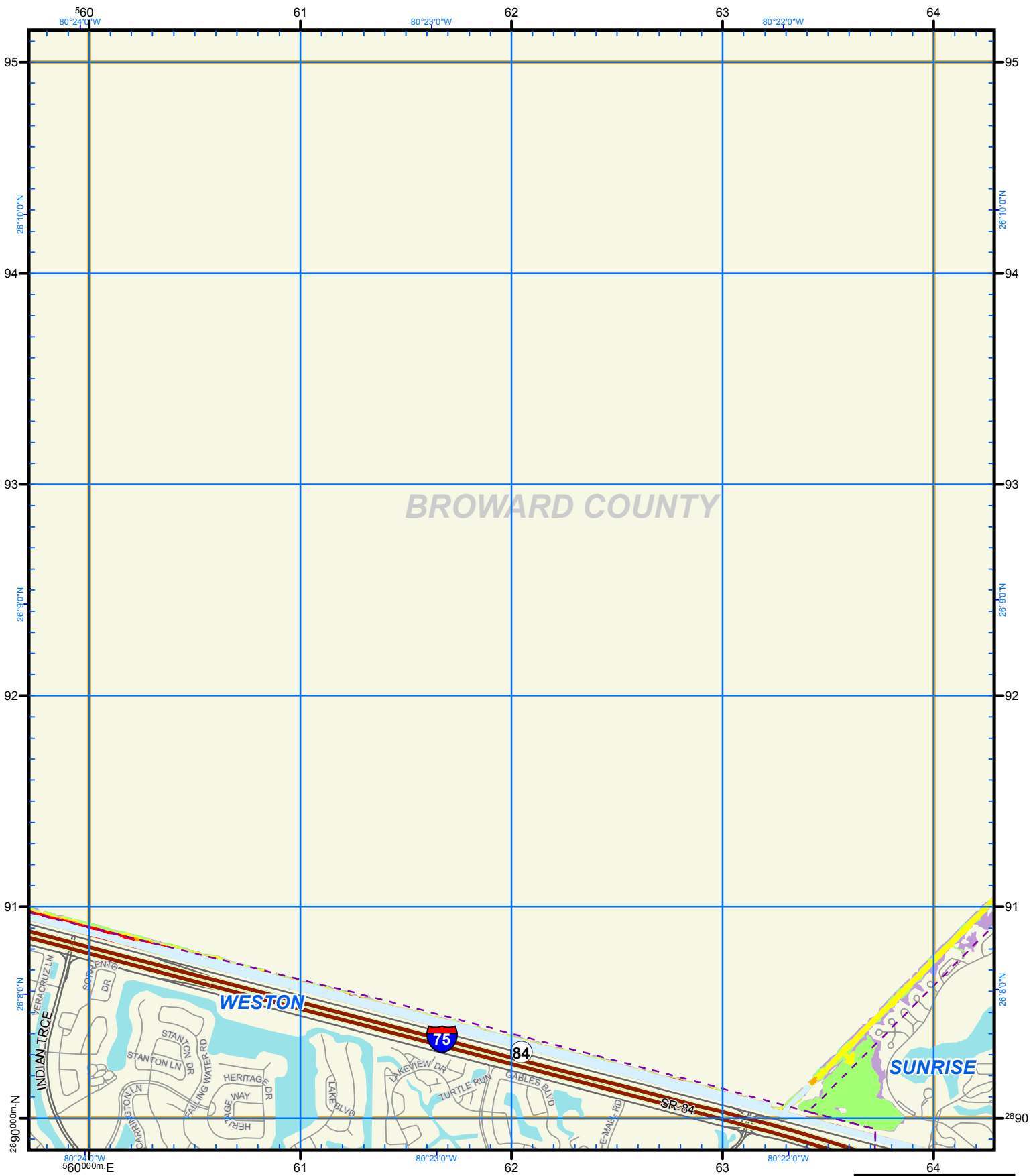
Storm Tide Category
Level 1
Level 2
Level 3
Level 4
Level 5

W-NW Storm Tide
Broward, 2015
Scale 1:24,000



Map Plate 92





US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG

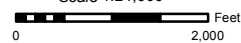


Notes:
 1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
 2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
 3. The Points of Reference are locations determined to be relevant to emergency management officials.

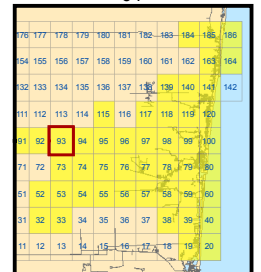
ATLAS LEGEND
HOSPITAL
Points of Reference
City Limits
Evacuation Route
NHD Lakes

Storm Tide Category
Level 1
Level 2
Level 3
Level 4
Level 5

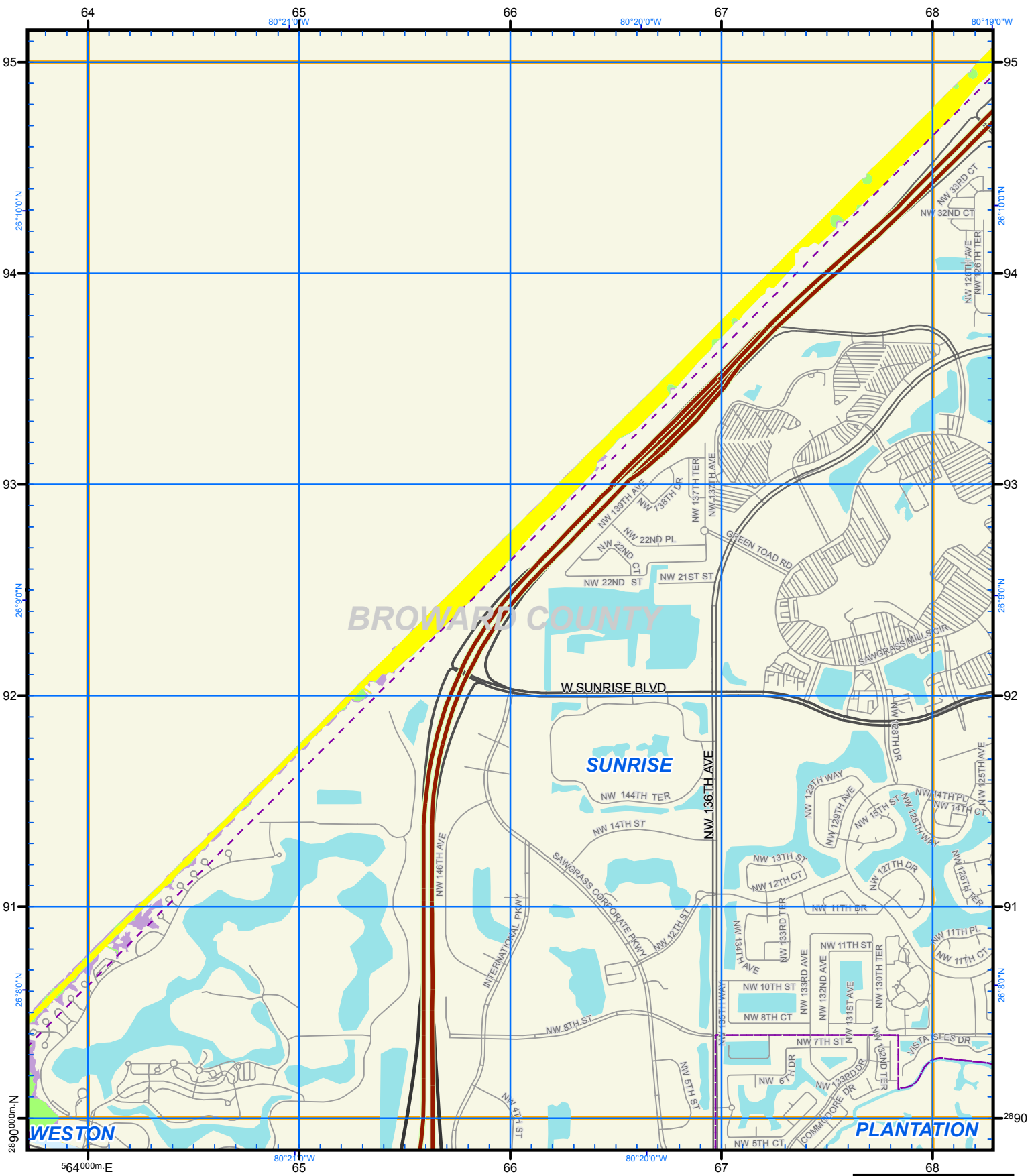
W-NW Storm Tide
Broward, 2015
 Scale 1:24,000



Map Plate 93



This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.



US National Grid
100,000-m Square ID
NJ
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG



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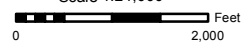
ATLAS LEGEND

- HOSPITAL
- Points of Reference
- City Limits
- Evacuation Route
- NHD Lakes

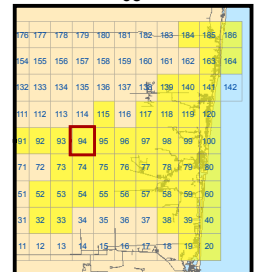
Storm Tide Category

- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

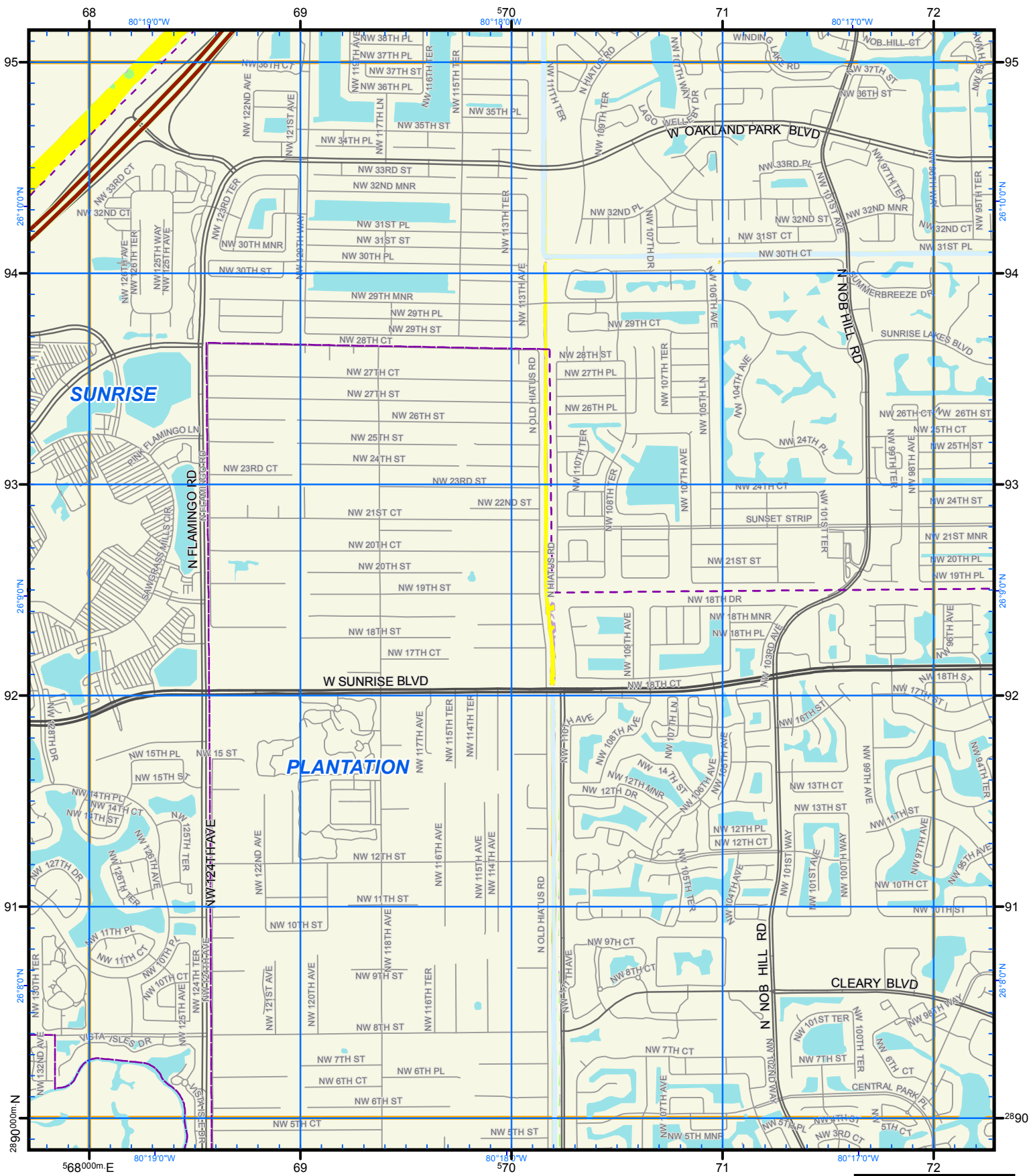
W-NW Storm Tide
Broward, 2015
Scale 1:24,000



Map Plate 94



Printed Pages in Yellow



US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



Notes:
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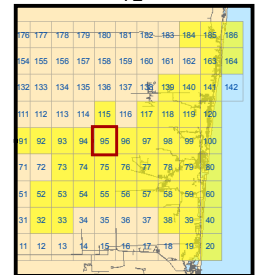
ATLAS LEGEND

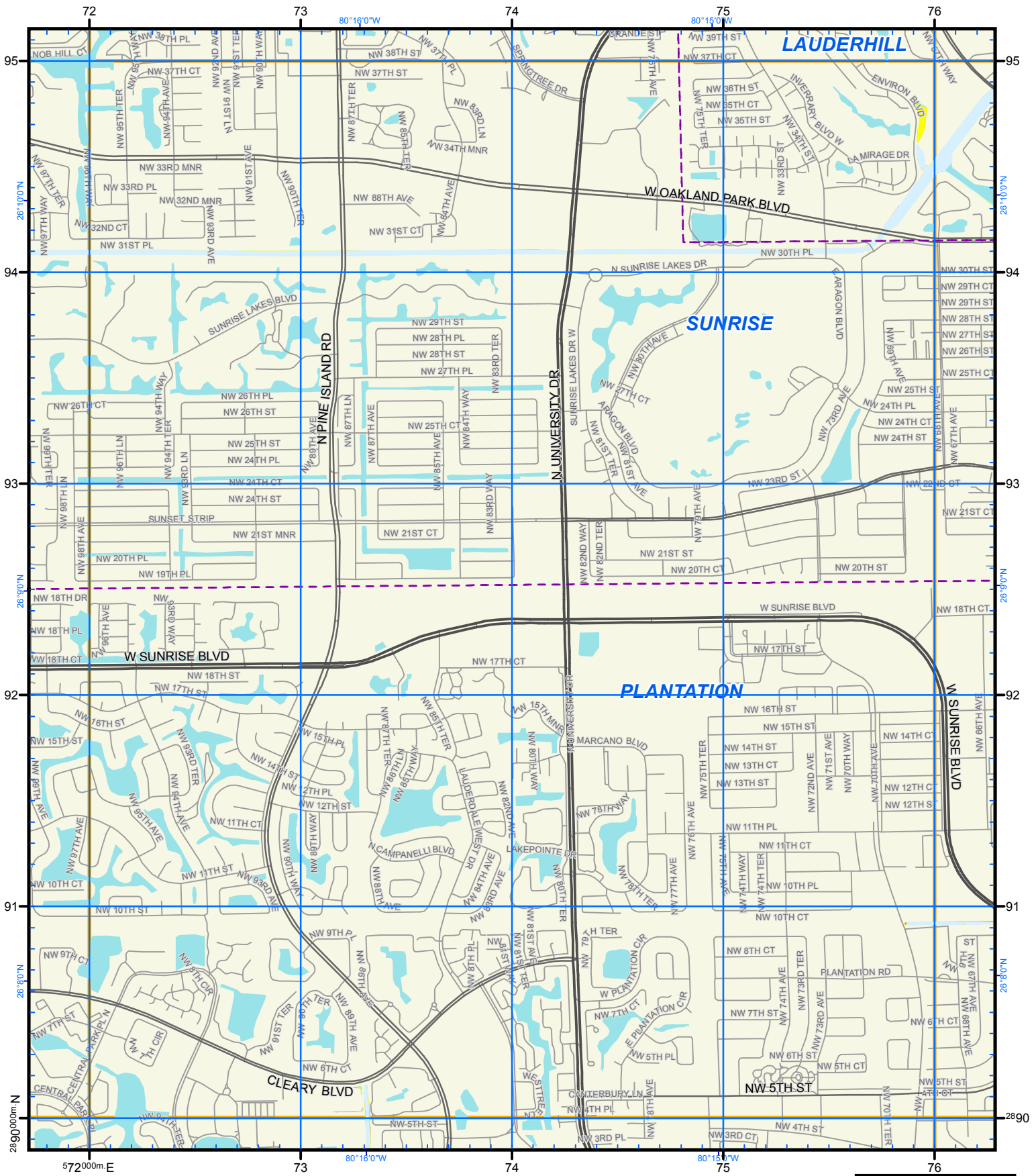
- HOSPITAL
- Points of Reference
- City Limits
- Evacuation Route
- NHD Lakes

Storm Tide Category

- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 95





US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



Notes:
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 2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
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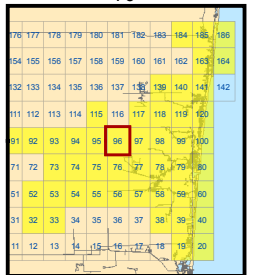
ATLAS LEGEND

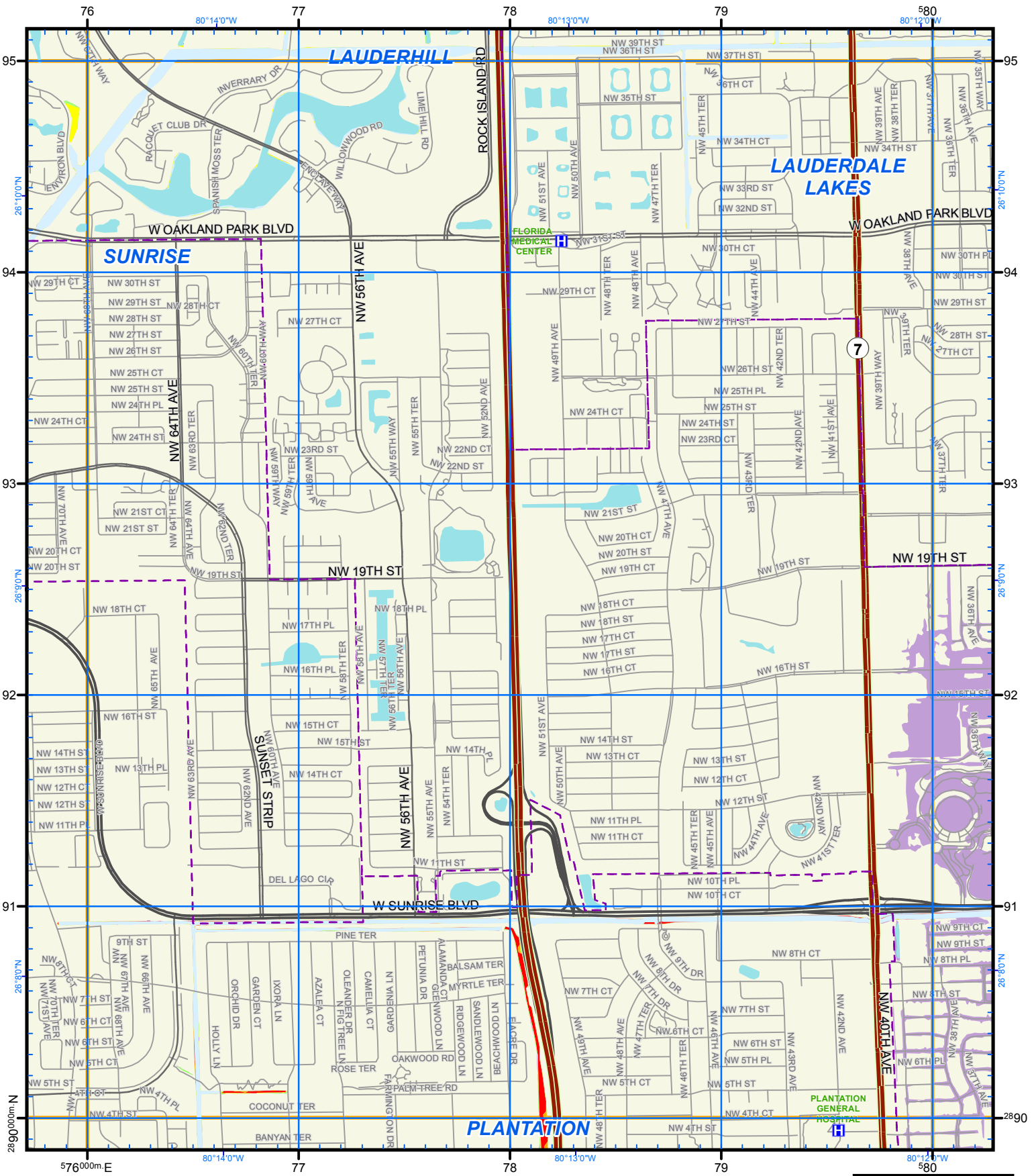
- HOSPITAL
- Points of Reference
- City Limits
- Evacuation Route
- NHD Lakes

Storm Tide Category

- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 96





US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



Notes:
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ATLAS LEGEND

- HOSPITAL
- Points of Reference
- City Limits
- Evacuation Route
- NHD Lakes

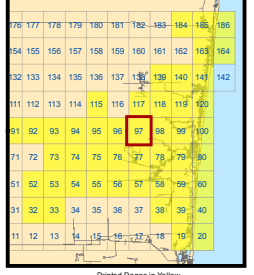
Storm Tide Category

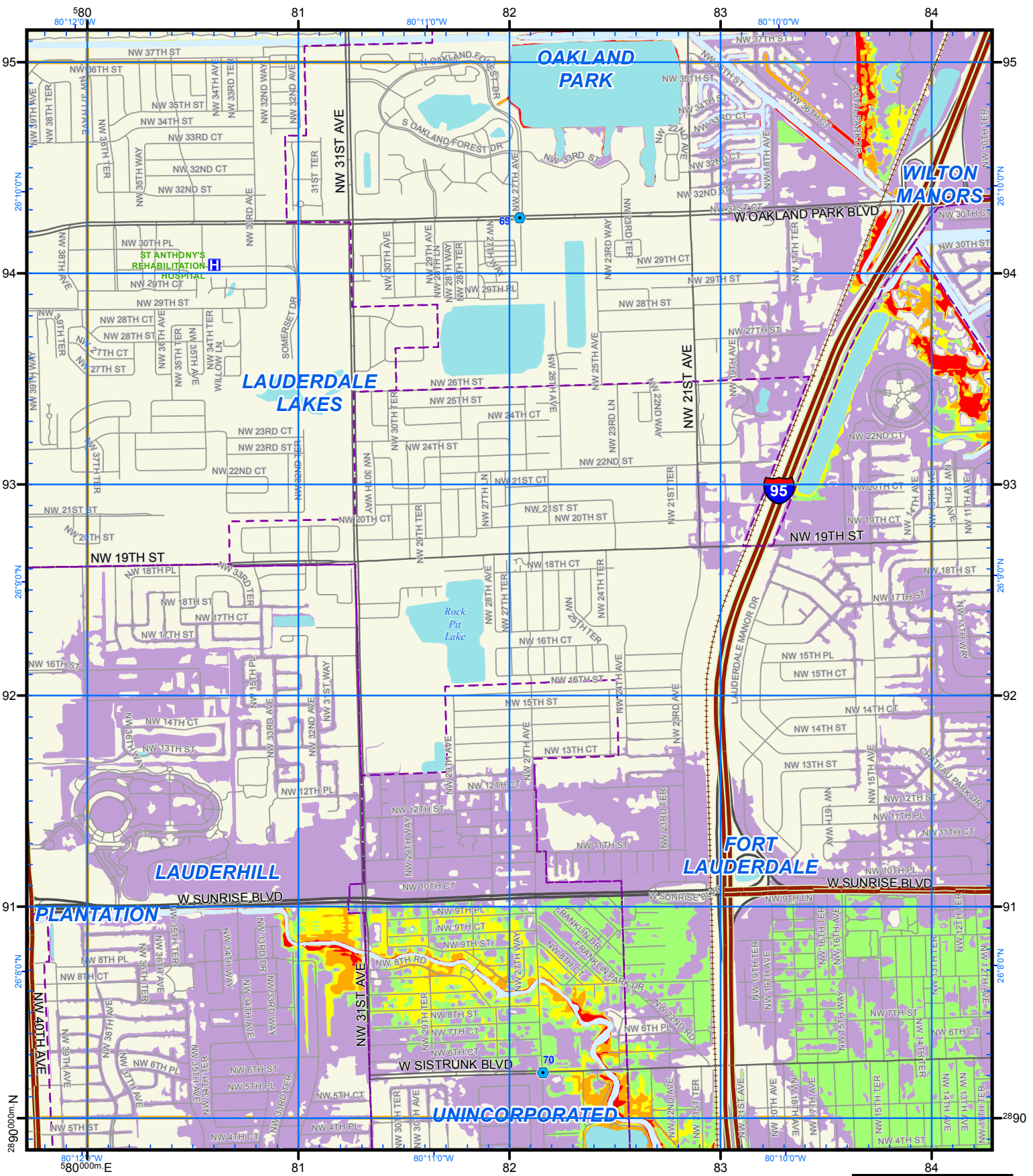
- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000



Map Plate 97





US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



Notes:

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ATLAS LEGEND

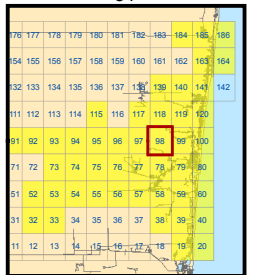
- HOSPITAL
- Points of Reference
- City Limits
- Evacuation Route
- NHD Lakes

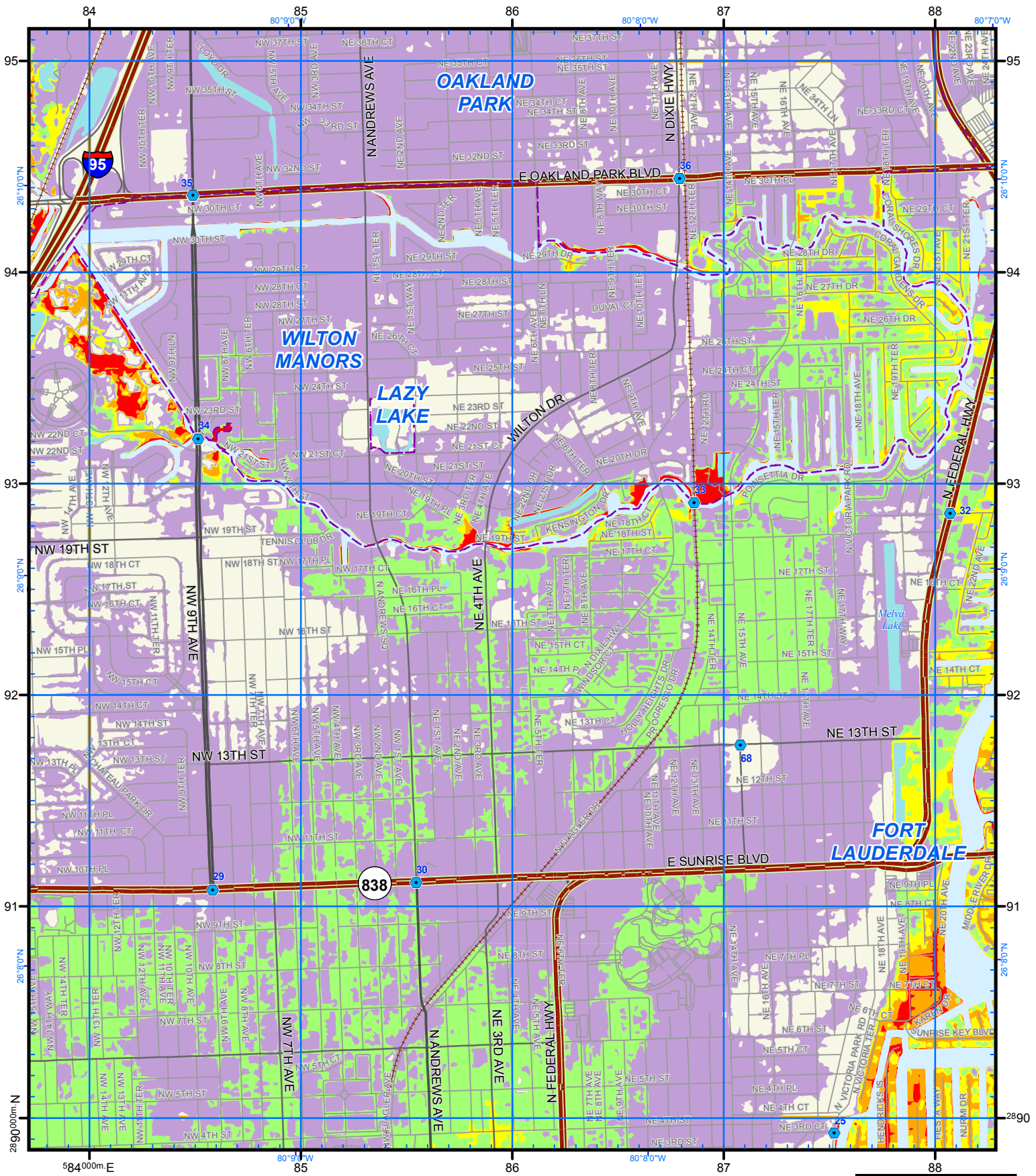
Storm Tide Category

- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000

Map Plate 98





US National Grid
100,000-m Square ID
NJ
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG



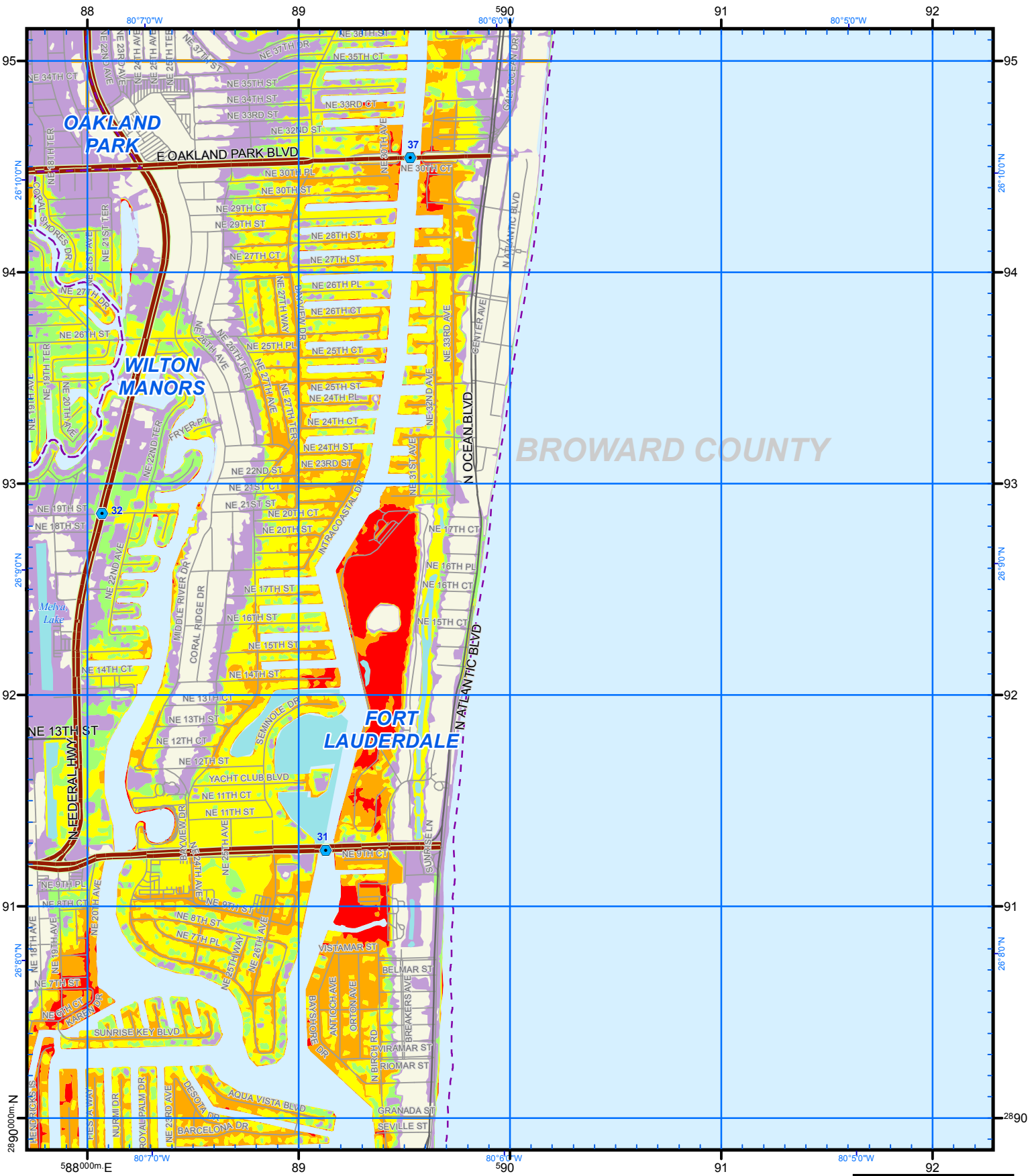
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ATLAS LEGEND
 HOSPITAL
 Points of Reference
 City Limits
 Evacuation Route
 NHD Lakes

Storm Tide Category
 Level 1
 Level 2
 Level 3
 Level 4
 Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 99

76	177	178	179	180	181	182	183	184	185	186
84	155	156	157	158	159	160	161	162	163	164
92	133	134	135	136	137	138	139	140	141	142
111	112	113	114	115	116	117	118	119	120	
91	92	93	94	95	96	97	98	99	100	
71	72	73	74	75	76	77	78	79	80	
51	52	53	54	55	56	57	58	59	60	
31	32	33	34	35	36	37	38	39	40	
11	12	13	14	15	16	17	18	19	20	



BROWARD COUNTY

US National Grid
100,000-m Square ID
NJ
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG

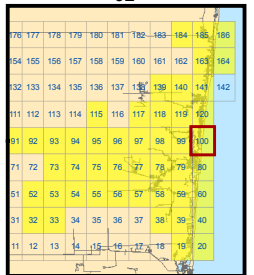


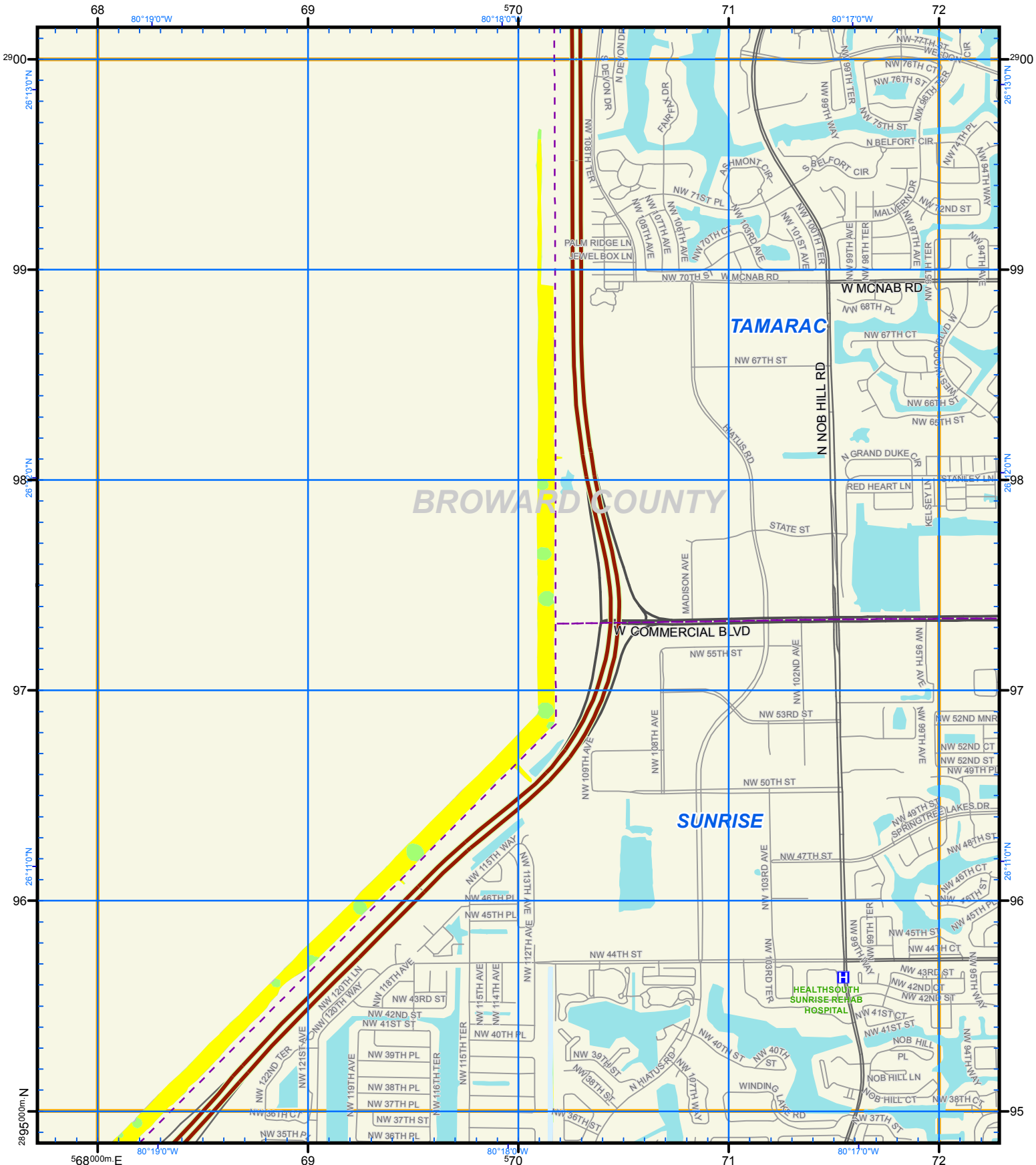
Notes:
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ATLAS LEGEND
HOSPITAL
Points of Reference
City Limits
Evacuation Route
NHD Lakes

Storm Tide Category
Level 1
Level 2
Level 3
Level 4
Level 5

W-NW Storm Tide
Broward, 2015
Scale 1:24,000
0 2,000 Feet
Map Plate 100





US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



Notes:
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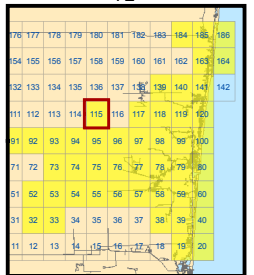
ATLAS LEGEND

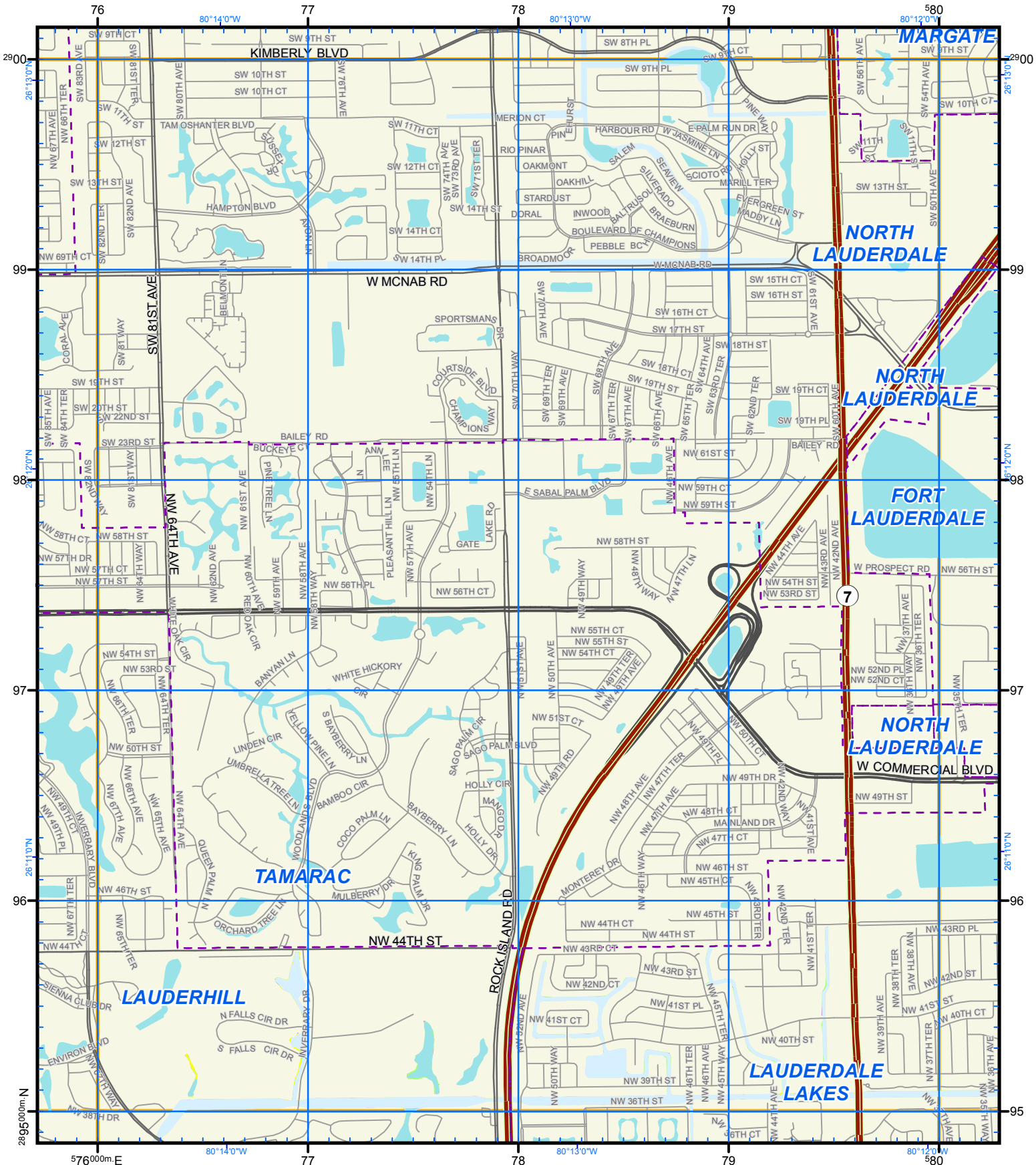
- HOSPITAL
- Points of Reference
- City Limits
- Evacuation Route
- NHD Lakes

Storm Tide Category

- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 115





US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



Notes:
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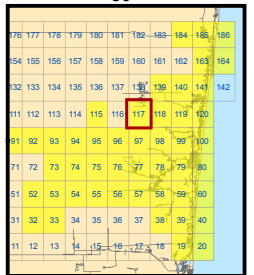
ATLAS LEGEND

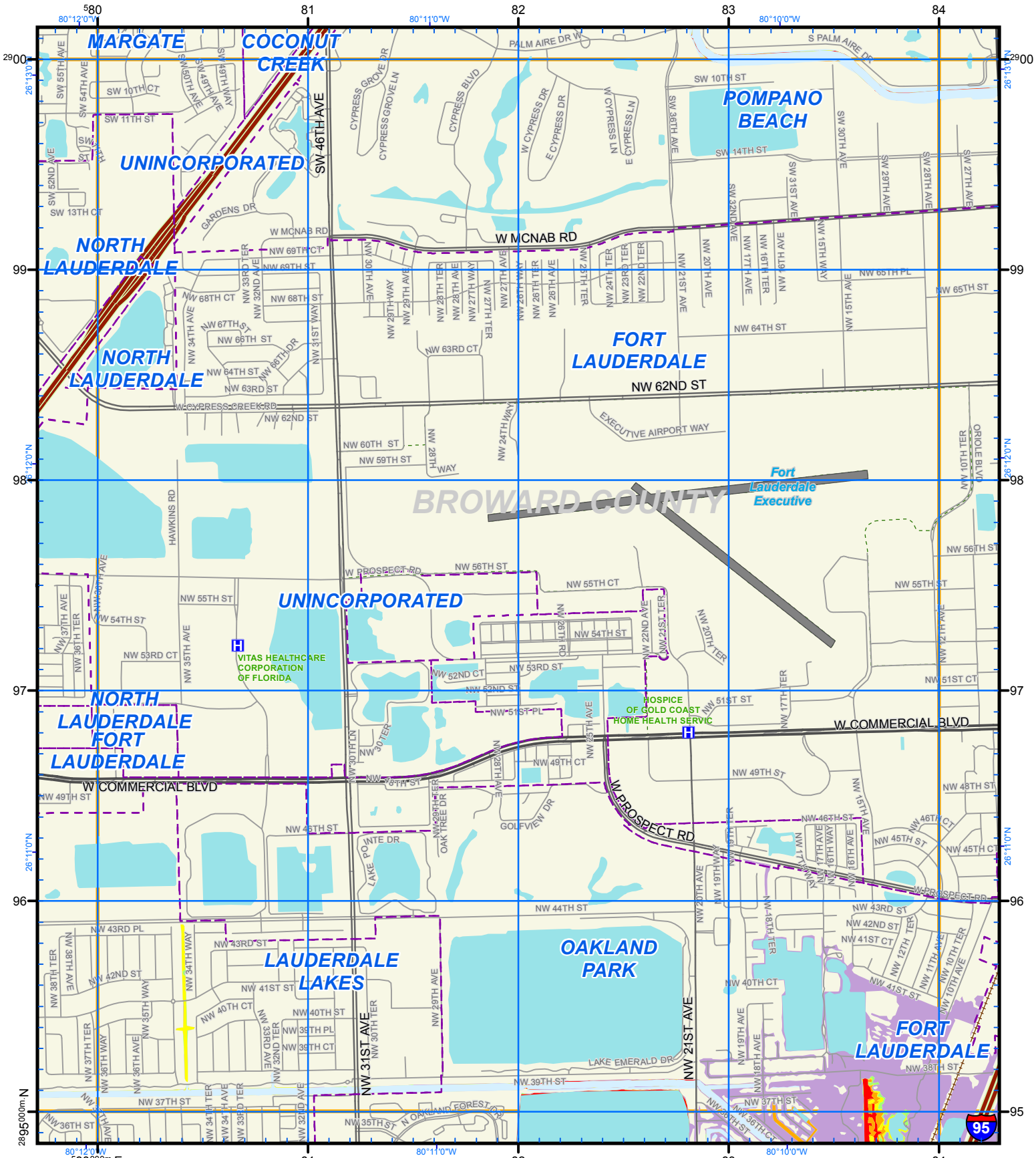
- HOSPITAL
- Points of Reference
- City Limits
- Evacuation Route
- NHD Lakes

Storm Tide Category

- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 117





US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG

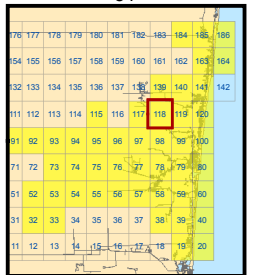


Notes:
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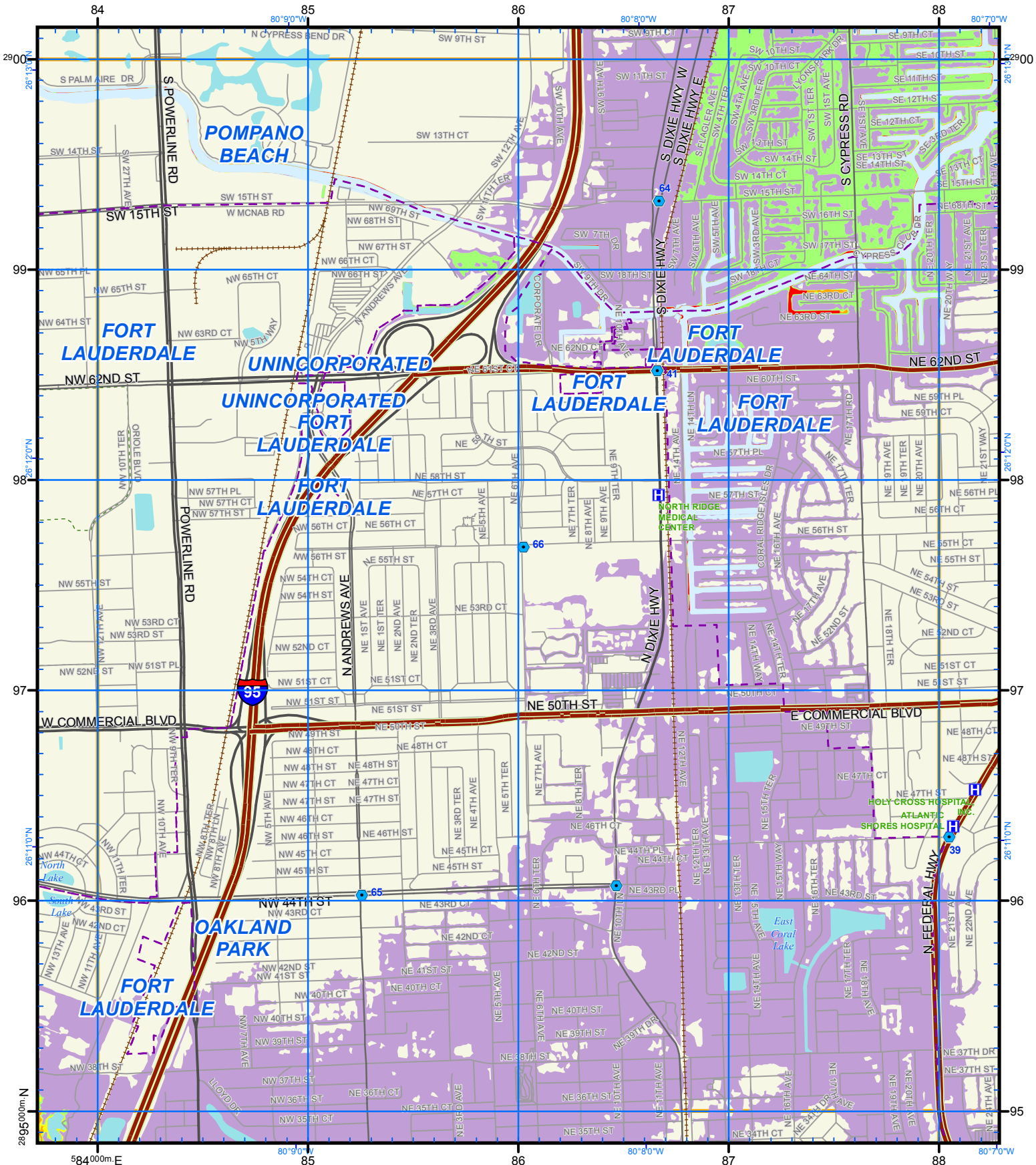
- ATLAS LEGEND**
- H HOSPITAL
 - Points of Reference
 - City Limits
 - Evacuation Route
 - NHD Lakes

- Storm Tide Category**
- Level 1
 - Level 2
 - Level 3
 - Level 4
 - Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 118



This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.



US National Grid
 100,000-m Square ID
NJ
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



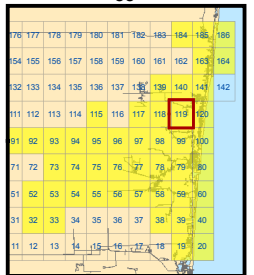
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 1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
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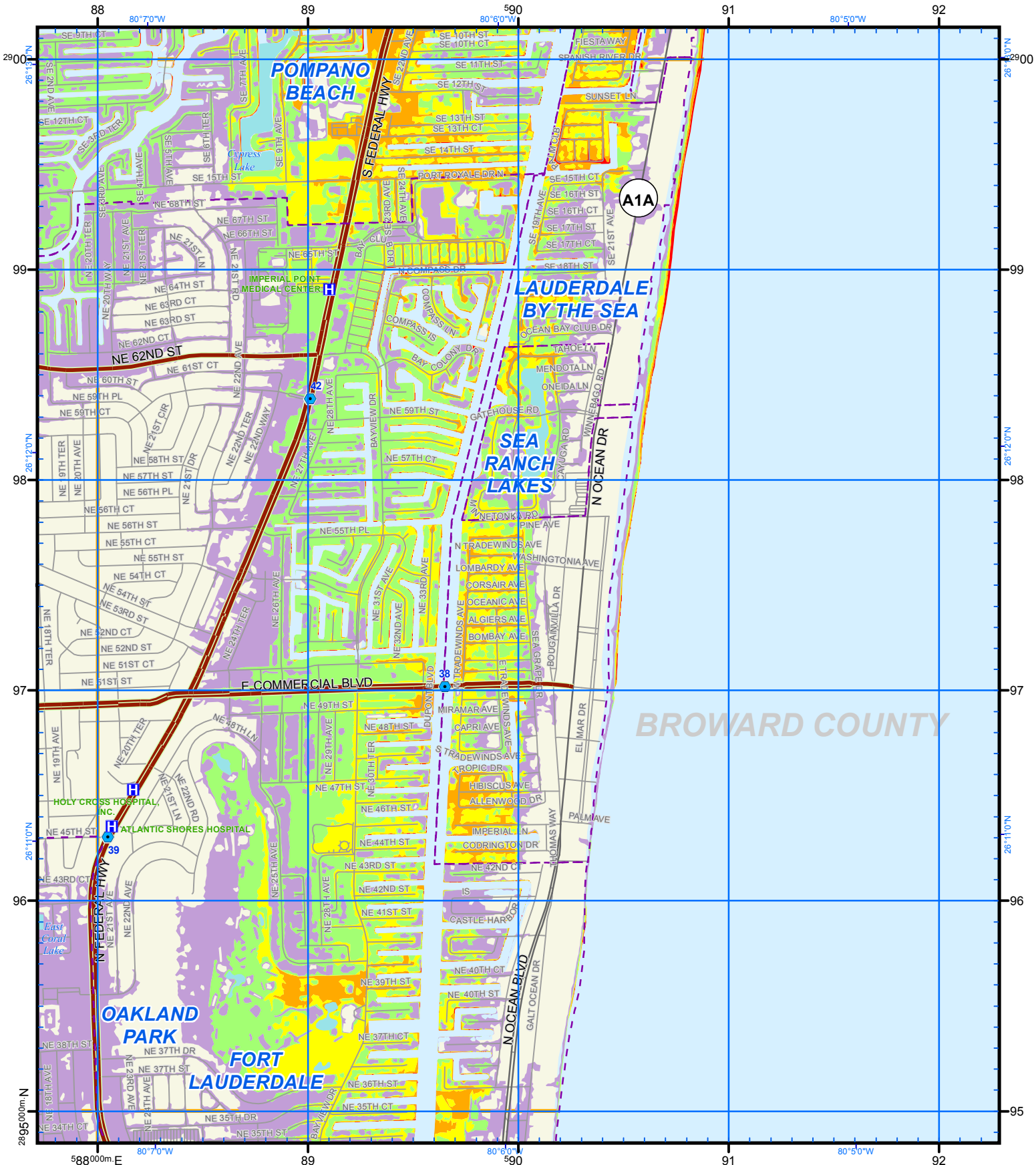
ATLAS LEGEND
HOSPITAL
Points of Reference
City Limits
Evacuation Route
NHD Lakes

Storm Tide Category
Level 1
Level 2
Level 3
Level 4
Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000

Map Plate 119





US National Grid
100,000-m Square ID
NJ
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG

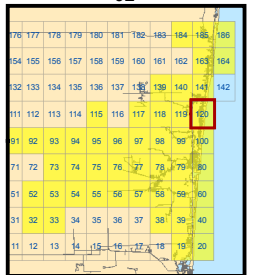


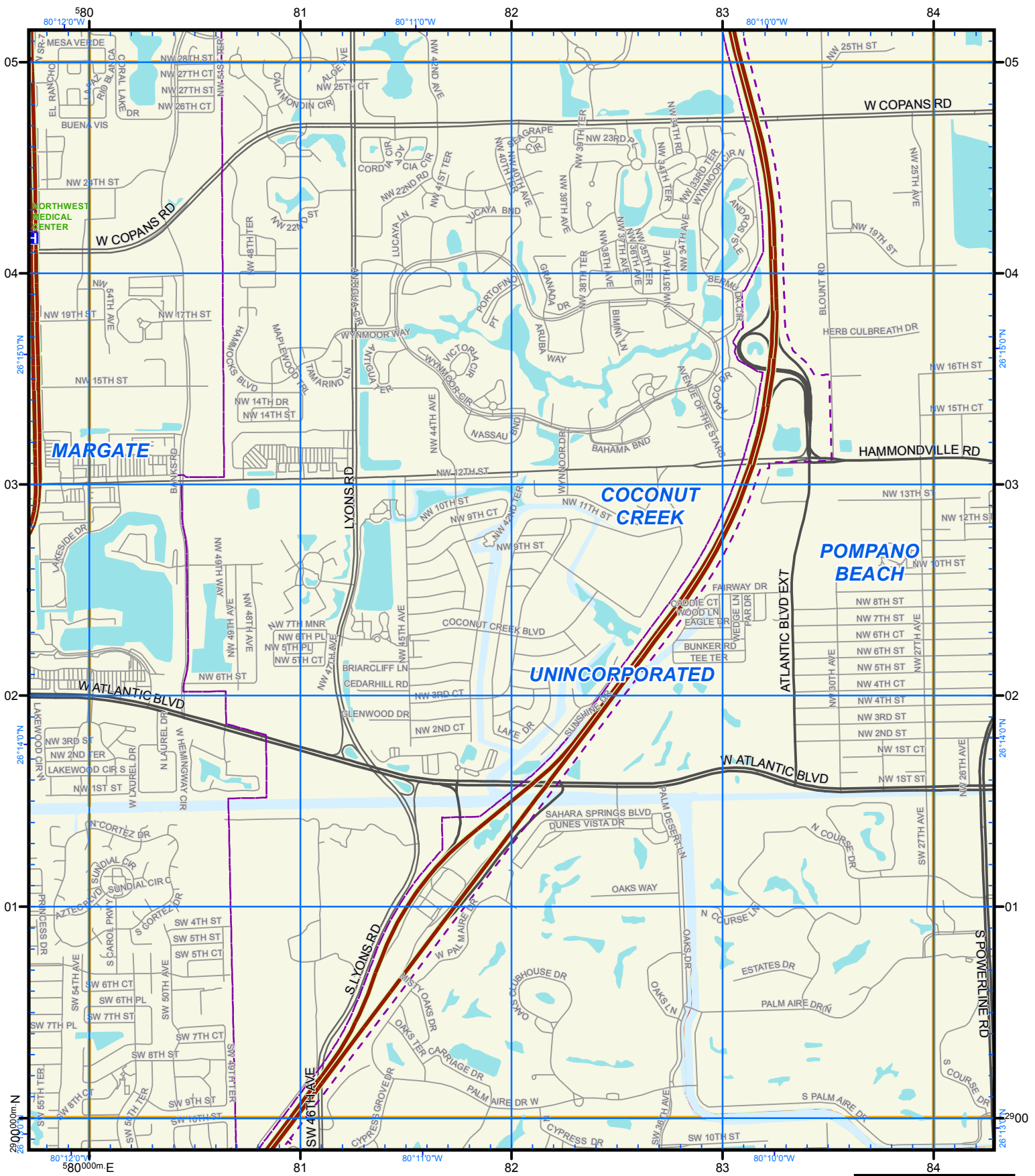
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ATLAS LEGEND
 HOSPITAL
 Points of Reference
 City Limits
 Evacuation Route
 NHD Lakes

Storm Tide Category
 Level 1
 Level 2
 Level 3
 Level 4
 Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 120





US National Grid
 100,000-m Square ID
NK
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



Notes:
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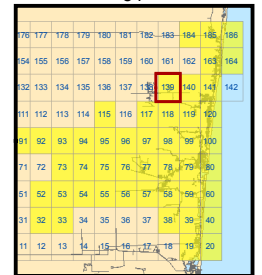
ATLAS LEGEND

- HOSPITAL
- Points of Reference
- City Limits
- Evacuation Route
- NHD Lakes

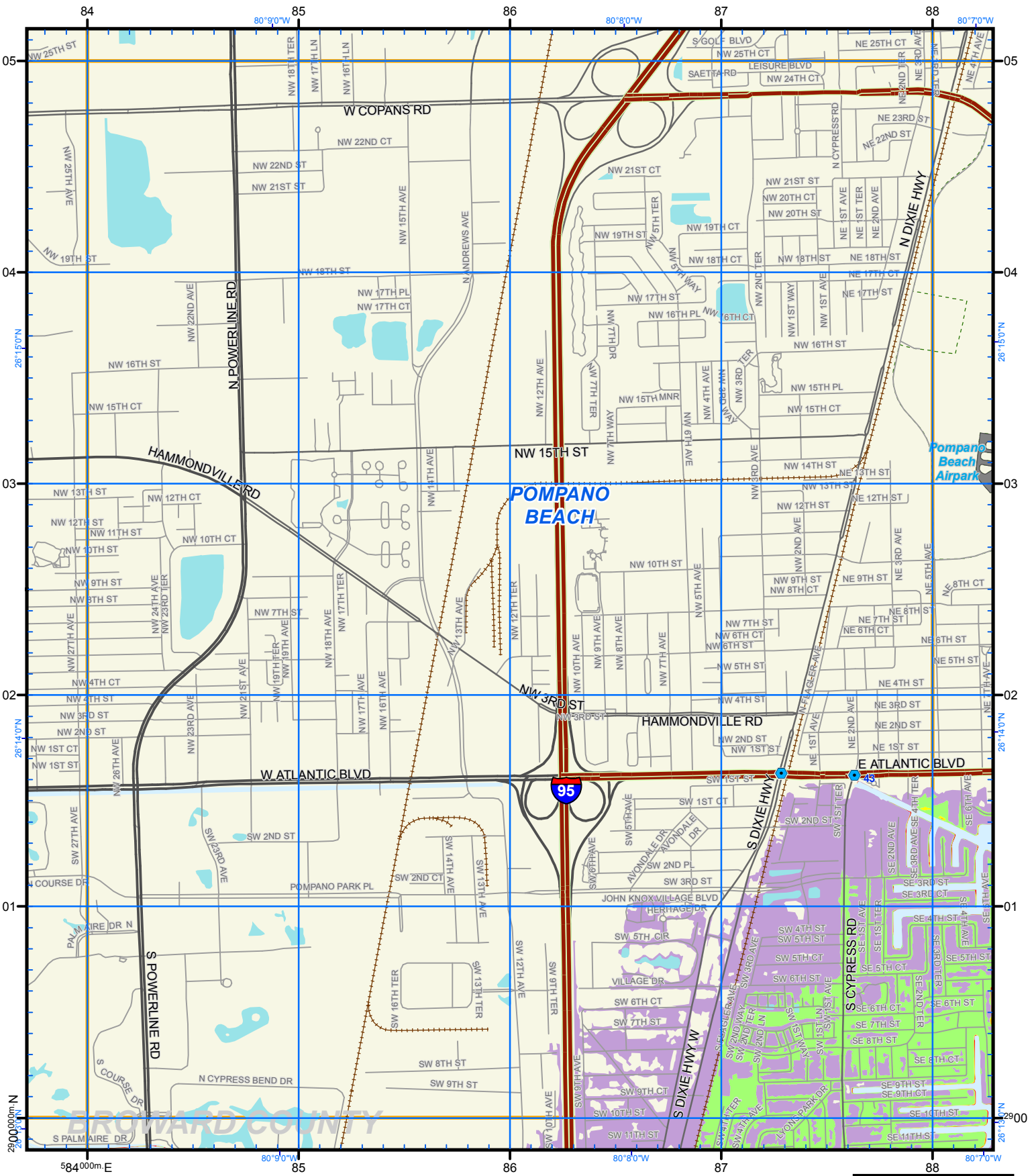
Storm Tide Category

- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000
 0 2,000 Feet
Map Plate 139



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US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG

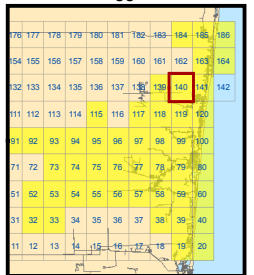


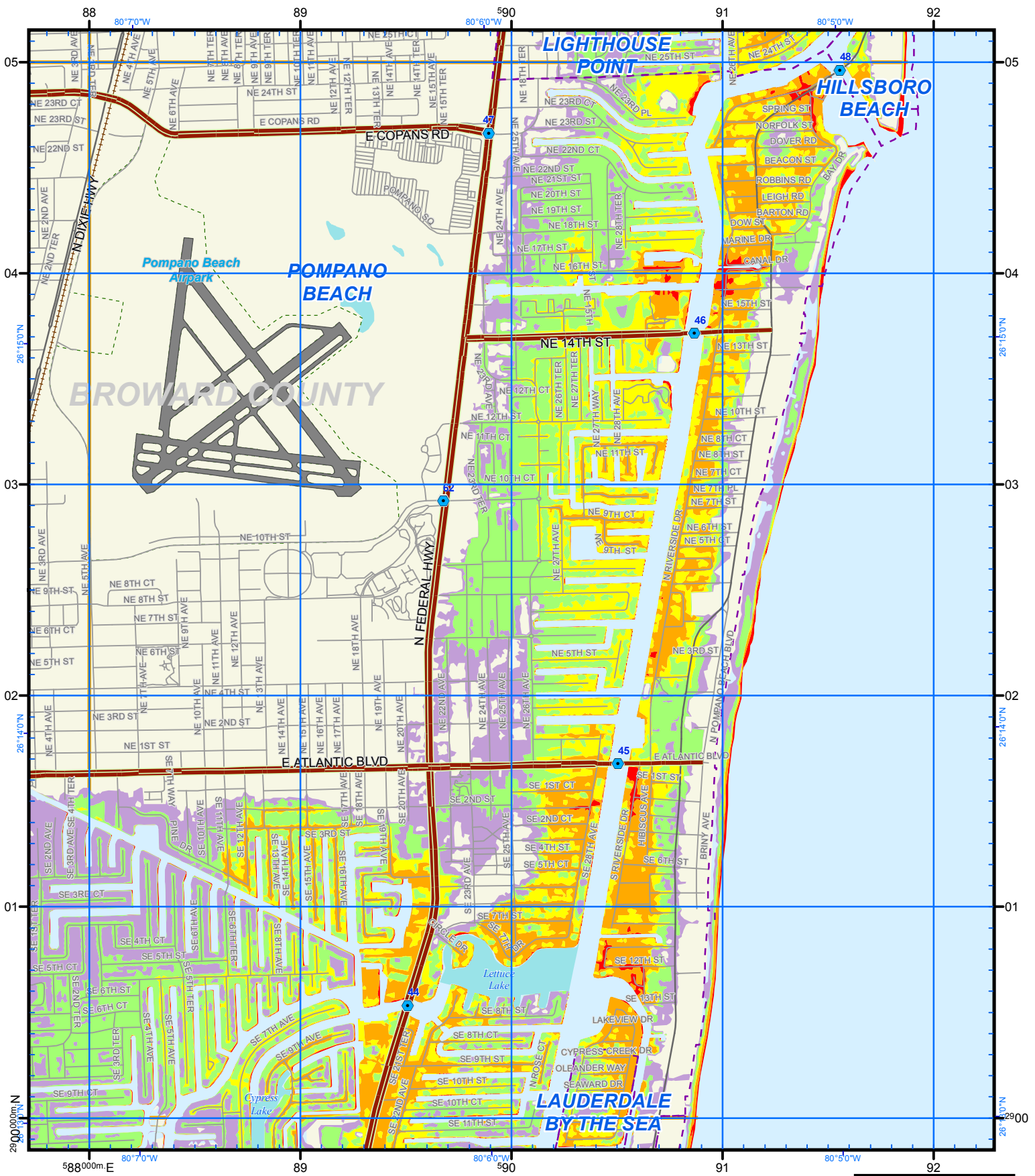
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- ATLAS LEGEND**
- HOSPITAL
 - Points of Reference
 - City Limits
 - Evacuation Route
 - NHD Lakes

- Storm Tide Category**
- Level 1
 - Level 2
 - Level 3
 - Level 4
 - Level 5

W-NW Storm Tide
Broward, 2015
Scale 1:24,000
Map Plate 140





US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG



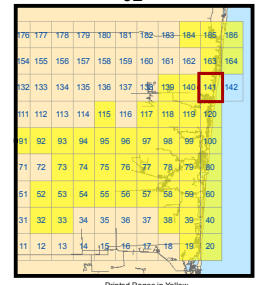
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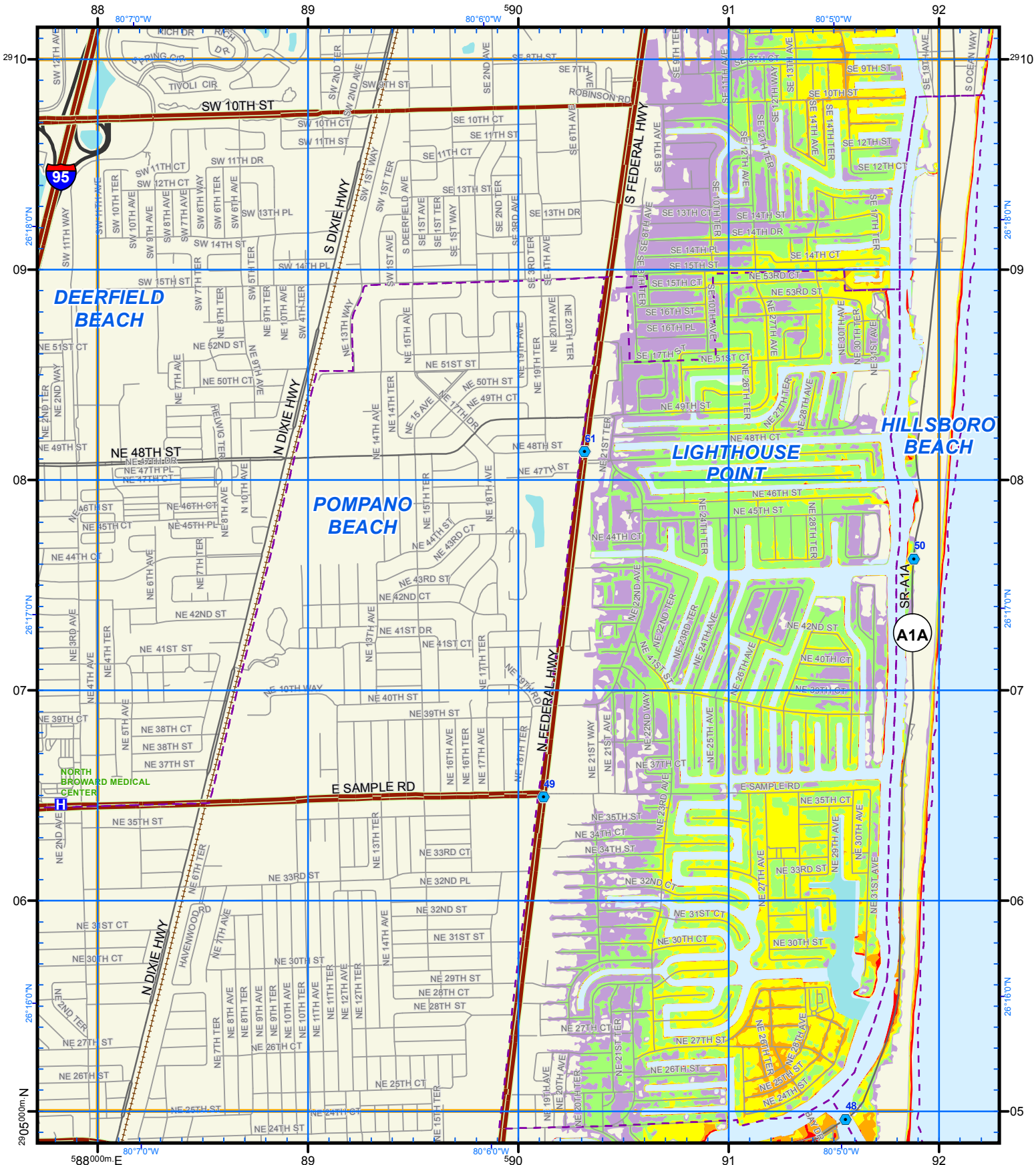
ATLAS LEGEND
 HOSPITAL
 Points of Reference
 City Limits
 Evacuation Route
 NHD Lakes

Storm Tide Category
 Level 1
 Level 2
 Level 3
 Level 4
 Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000

Map Plate 141





US National Grid
 100,000-m Square ID
NK
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



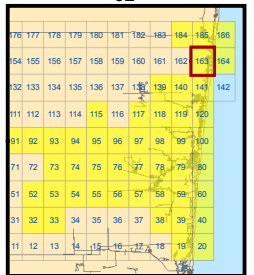
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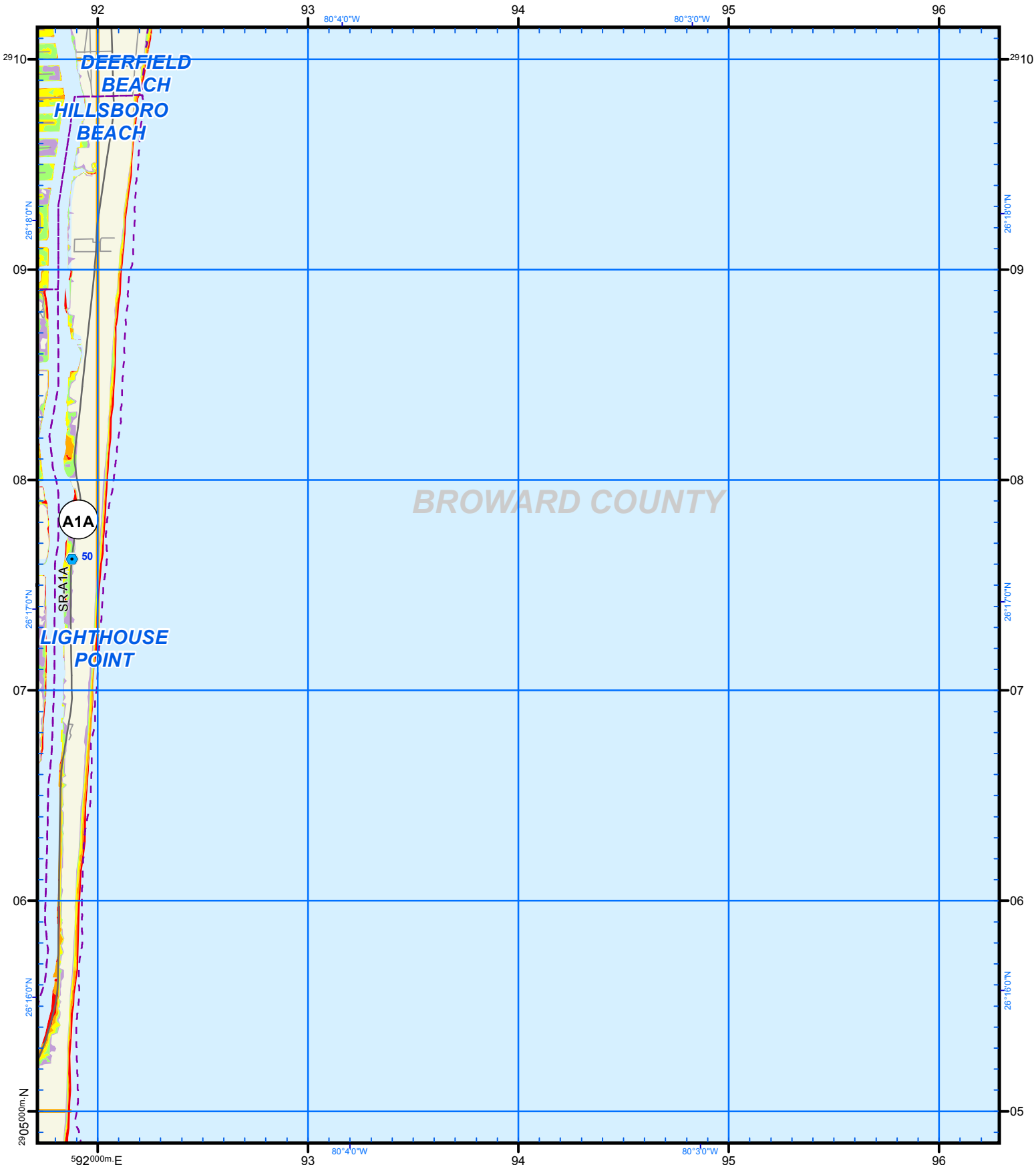
ATLAS LEGEND
HOSPITAL
Points of Reference
City Limits
Evacuation Route
NHD Lakes

Storm Tide Category
Level 1
Level 2
Level 3
Level 4
Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000

Map Plate 163





US National Grid
 100,000-m Square ID
NK
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



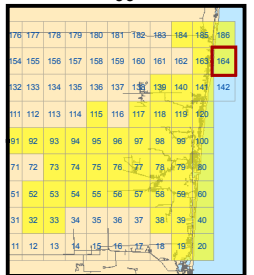
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ATLAS LEGEND
HOSPITAL
Points of Reference
City Limits
Evacuation Route
NHD Lakes

Storm Tide Category
Level 1
Level 2
Level 3
Level 4
Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000

Map Plate 164



This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.



US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG



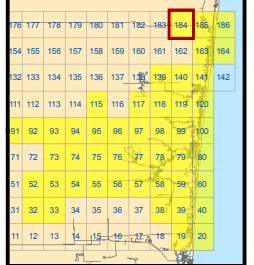
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2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

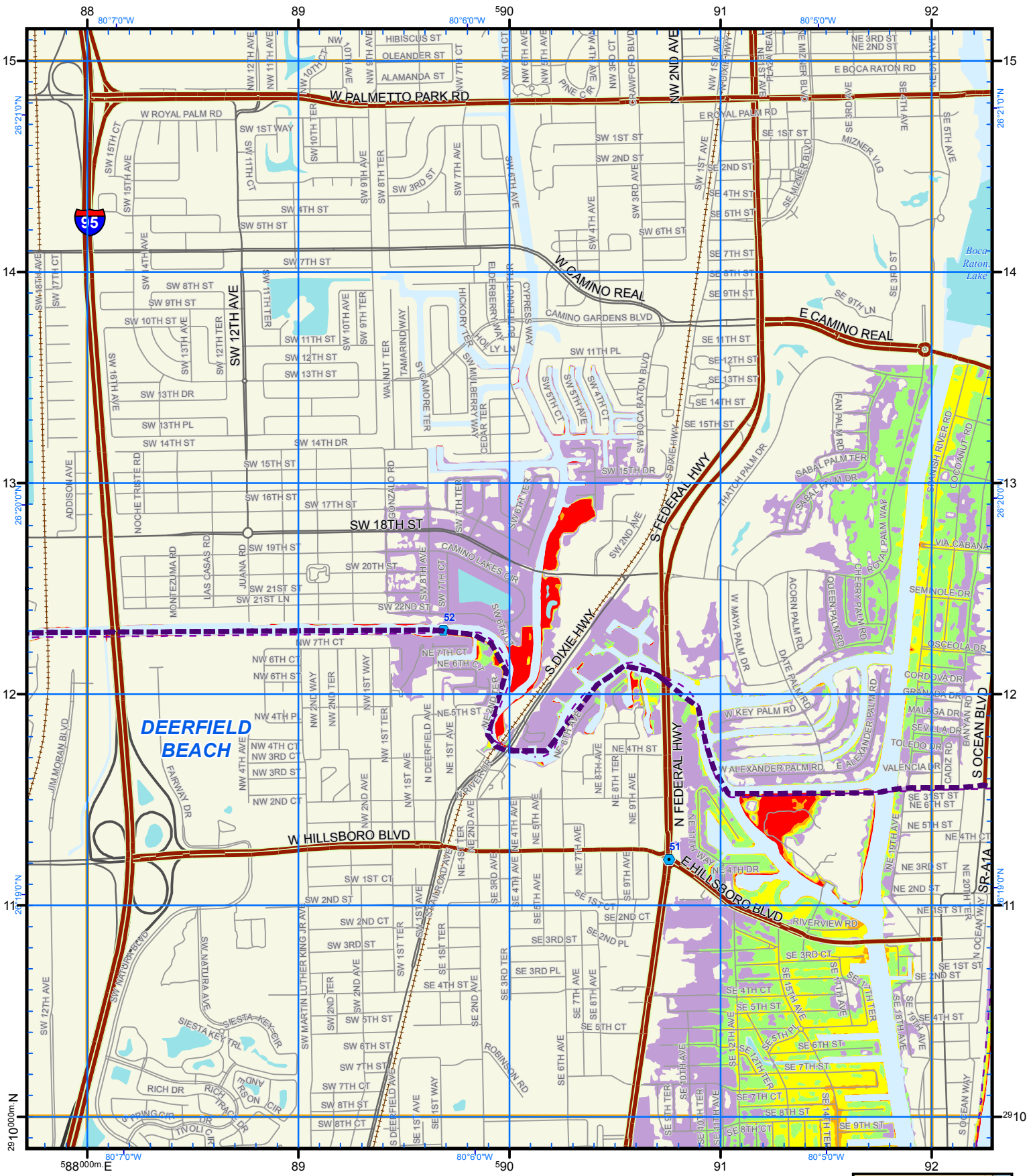
ATLAS LEGEND
 HOSPITAL
 Points of Reference
 City Limits
 Evacuation Route
 NHD Lakes

Storm Tide Category
 Level 1
 Level 2
 Level 3
 Level 4
 Level 5

W-NW Storm Tide Broward, 2015
Scale 1:24,000

Map Plate 184





US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG

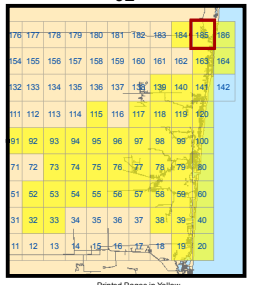


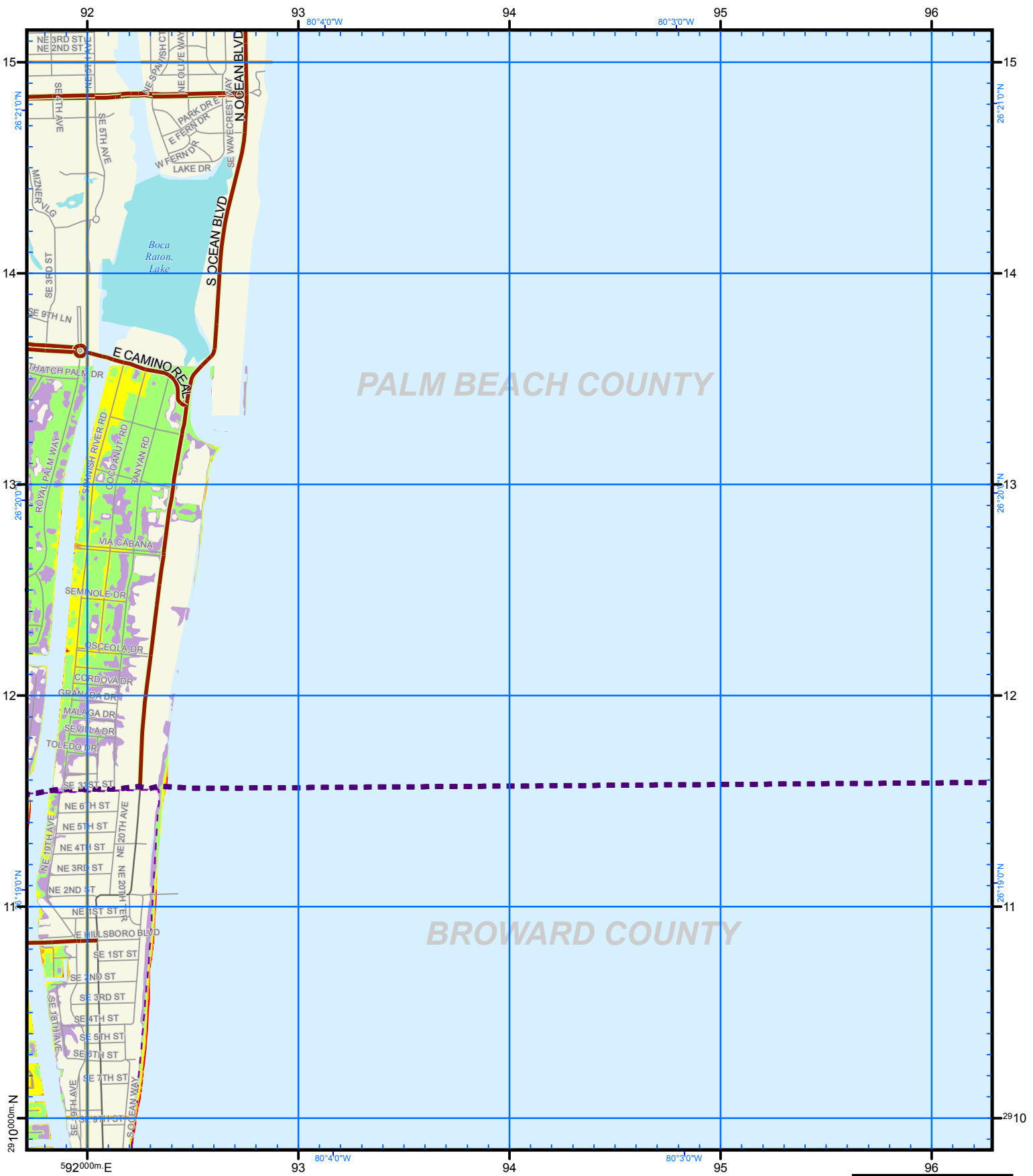
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

ATLAS LEGEND
 HOSPITAL
 Points of Reference
 City Limits
 Evacuation Route
 NHD Lakes

Storm Tide Category
 Level 1
 Level 2
 Level 3
 Level 4
 Level 5

W-NW Storm Tide Broward, 2015
Scale 1:24,000
0 2,000 Feet
Map Plate 185





US National Grid
 100,000-m Square ID
NK
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG



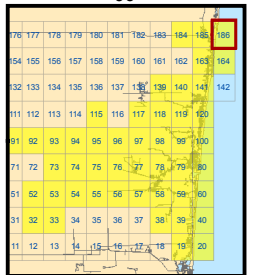
Notes:
 1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
 2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
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ATLAS LEGEND
 HOSPITAL
 Points of Reference
 City Limits
 Evacuation Route
 NHD Lakes

Storm Tide Category
 Level 1
 Level 2
 Level 3
 Level 4
 Level 5

W-NW Storm Tide
Broward, 2015
 Scale 1:24,000

Map Plate 186



This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.



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