

LOCATION HYDRAULIC TECHNICAL MEMORANDUM

Florida Department of Transportation
District Seven
US 301 / State Road (SR) 35
Project Development and Environment (PD&E) Study
Limits of Project: South of US 98 to SR 50
Pasco and Hernando Counties, Florida
Financial Management Number: 447536-1-22-01
ETDM Number: 14465
Date: July 2021

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by FDOT pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated December 14, 2016 and executed by FHWA and FDOT.

LOCATION HYDRAULIC TECHNICAL MEMORANDUM

US 301 / SR 35

Project Development and Environment Study

FROM SOUTH OF US 98 TO SR 50

Pasco & Hernando Counties

WPI Segment No. 447536-1

ETDM Number: 14465

July 2021

The objective of this PD&E study is to assist the FDOT's Office of Environmental Management (OEM) in reaching a decision on the type, location, and conceptual design of the necessary improvements for the widening of US Highway 301 (US 301), including stormwater management facility (SMF) and floodplain compensation (FPC) sites. This study documents the need for the improvements as well as the procedures utilized to develop and evaluate various improvements, including elements such as proposed typical sections, preliminary horizontal alignments, and intersection enhancement alternatives. A project location map is shown in **Figure 1**. The project will widen US 301 from a 2 lane facility to a multi-lane divided facility. Typical sections are located in **Figure 2**.

The PD&E study satisfies all applicable requirements, including the National Environmental Policy Act (NEPA), to qualify for federal-aid funding of subsequent development phases (design, right-of-way acquisition, and construction). This project was screened through the FDOT's Efficient Transportation Decision Making (ETDM) process as ETDM Project No. 14465. The ETDM Programming Screen Summary Report was published on February 22, 2021, containing comments from the Environmental Technical Advisory Team (ETAT) on the project's effects on various natural, physical, and social resources. A Type 2 Categorical Exclusion will be prepared as part of this PD&E study.

This Location Hydraulic Memorandum has been prepared to determine if any floodplains will be significantly affected due to the proposed improvements. As stated in the draft *PSR*, there are 11 cross drains located within the study limits. There is one existing bridge (FDOT Bridge No. 080030) within the study area, crossing the Withlacoochee River. The project site has been reviewed by project staff. The following 10 items have been addressed to document that the floodplain encroachments will be minimal.

1. History of Flooding: Section will be updated once information is provided in the Pond Siting Report (PSR).
2. Longitudinal or Transverse Encroachments: As stated in the draft *PSR*, no net encroachment into the floodplain, up to that encompassed by the 100-year event, which will adversely affect conveyance, storage, water quality or adjacent lands, will be allowed. Any required compensating storage shall be equivalently provided between the lowest level of encroachment and the 100-year flood level to allow storage function during all lesser flood events. SWFWMD preference is a

cup for cup approach with compensatory storage provided adjacent to or near as possible to the impacts. All of the floodplain encroachments will be transverse encroachments of existing floodplain along the roadway.

3. Avoidance Alternatives: All of the floodplain encroachments will be minimal due to the proposed widening following the same alignment as the existing highway, as stated in the draft *PSR*. There are no Build Alternatives available which would completely avoid any new floodplain encroachment.
4. Emergency Services and Evacuations: Pasco County Fire Station No. 34 is located just east of US 301 on the south side of Trilby Road. US 301 is designated as a Hurricane Evacuation Route. (Further information will be provided once the *PSR* is updated to include flooding history.)
5. Base Flood Impacts: The project's drainage design will be consistent with local (FEMA), FDOT, and Southwest Florida Water Management District's (SWFWMD) design guidelines. Therefore, no significant changes in base flood elevations or limits will occur.
6. Regulatory Floodway: The Withlacoochee River is a regulated floodway in Pasco County, however; it is not a regulated floodway in Hernando County.
7. Natural and Beneficial Floodplain Values: The road widening will follow the same alignment as the existing roadway. Most of the project will be constructed at existing grade. Therefore, no natural and beneficial floodplain values will be significantly affected.
8. Floodplain Consistency and Development: The project is consistent with the Comprehensive Plans for Pasco County and Hernando County. The proposed project will not encourage floodplain development due to local (FEMA) floodplain and SWFWMD regulations.
9. Floodplain/FIRM: A FEMA floodplain map showing the proposed project is attached as **Figure 3**. Most of the project area is located within FEMA floodplain, most of which is heavily influenced by the Withlacoochee River. The project is located within FIRM maps 12101C0108F, 12101C0106F, and 12101C0104F for Pasco County and 12053C0381D and 12053C0243D for Hernando County. The FIRM Maps can be found below in **Figure 4**. As stated in the draft *PSR*, the project is located within Zone A, which consists of low-lying areas that are in close proximity to lakes, ponds, and other large bodies of water, and Zone AE, a special flood hazard area inundated by 100-year flooding where the base flood elevation has been determined to be between 69.9 and 70.2 ft-NAVD of 1988.
10. Risk Assessment: Based on the evaluation of anticipated improvements, the applicable floodplain statement according to the *FDOT PD&E Manual Part 2 Chapter 24* is Statement 4- PROJECTS ON

EXISTING ALIGNMENT INVOLVING REPLACEMENT OF EXISTING DRAINAGE STRUCTURES WITH NO RECORD OF DRAINAGE PROBLEMS:

“The proposed structure will perform hydraulically in a manner equal to or greater than the existing structure, and backwater surface elevations are not expected to increase. Thus, there will be no significant adverse impacts on natural and beneficial floodplain values. There will be no significant change in flood risk, and there will not be a significant change in the potential for interruption or termination of emergency service or emergency evaluation routes. Therefore, it has been determined that this encroachment is not significant.”

A *Bridge Hydraulic Report (BHR)* has not been developed as part of the PD&E study. A BHR will be developed during the design phase of this project. The existing bridge (Bridge No. 080030) is located just north of the Hernando/Pasco County line, crossing the Withlacoochee River and will remain in place. Two bridges are proposed as part of this widening project and will be located adjacent to the existing US 301 bridge. One bridge will carry 2 travel lanes for Southbound US301 traffic and the second bridge will carry pedestrians/bicyclists on a wide sidewalk. Since a BHR has not been prepared as part of the PD&E study, the following items are discussed as part of this LHM:

1. Conceptual Length: The conceptual length of proposed roadway bridge is approximately 360 feet and the conceptual length of the pedestrian bridge is approximately 360 feet.
2. Conceptual Scour Considerations: The proposed bridges will span over the Withlacoochee River, which flows west towards Tampa Bay. A hydraulic analysis will be conducted during the design phase of the project pursuant to Section 4.8.1 – Riverine Crossings of the FDOT Drainage Manual.
3. Preliminary Vertical Grade Requirements: The vertical clearances of the proposed bridges will be designed to meet the level of the existing bridge. Both bridges, roadway and pedestrian, will be approximately 12 feet above mean high water height.

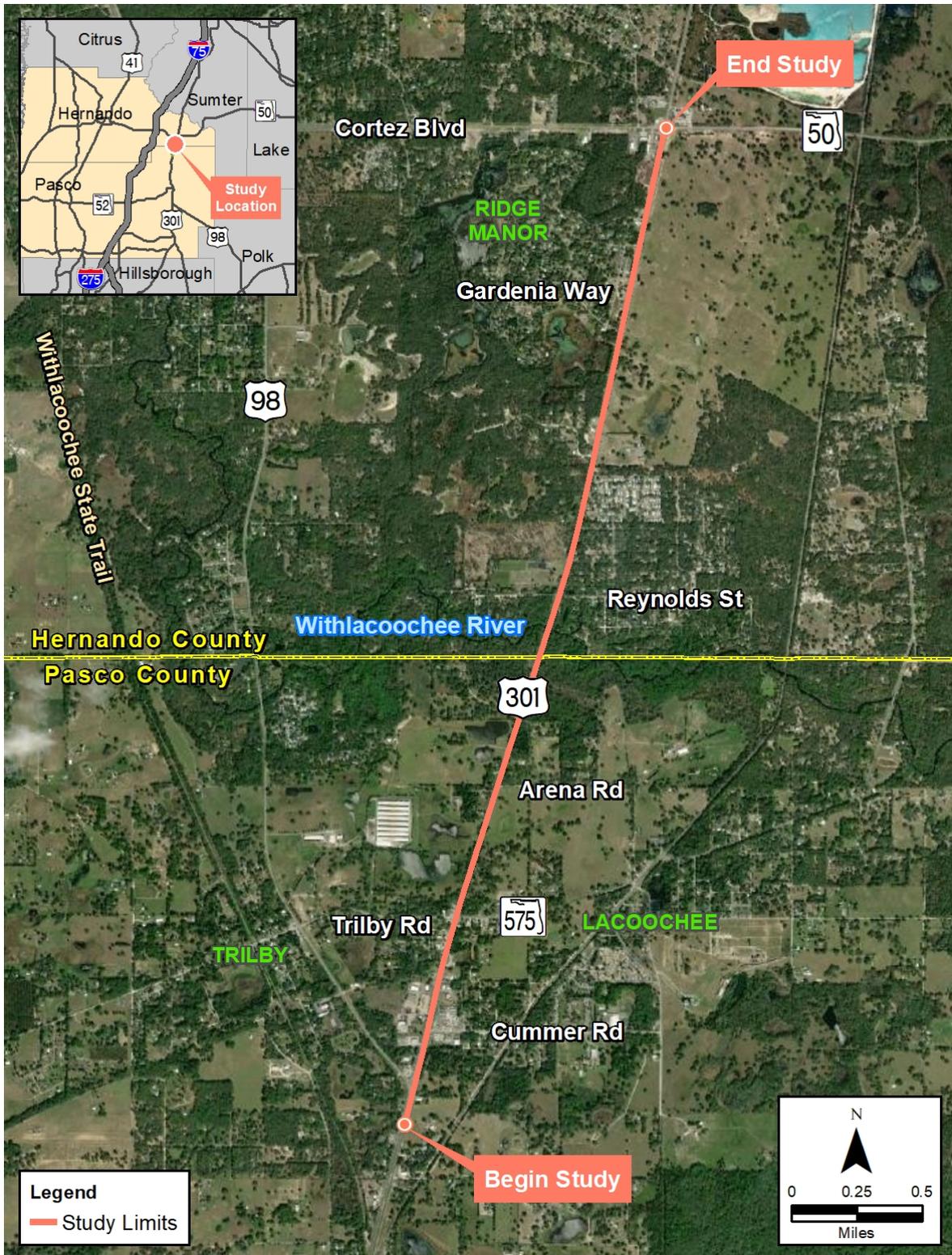
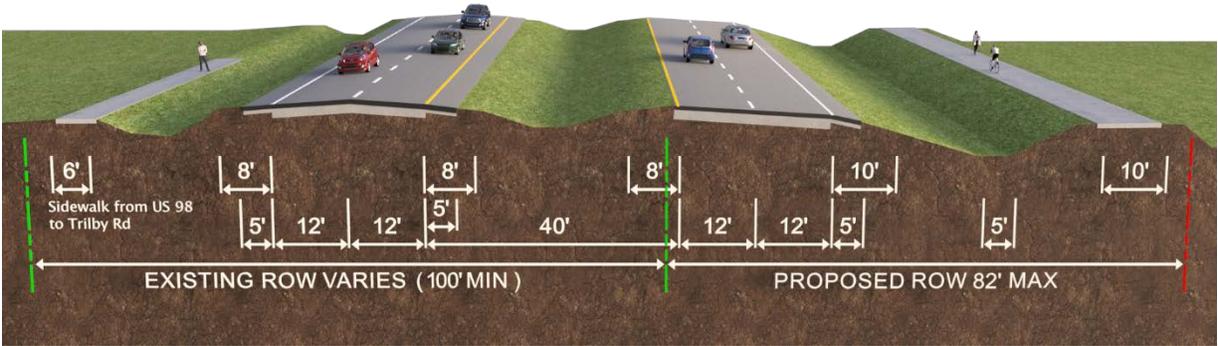
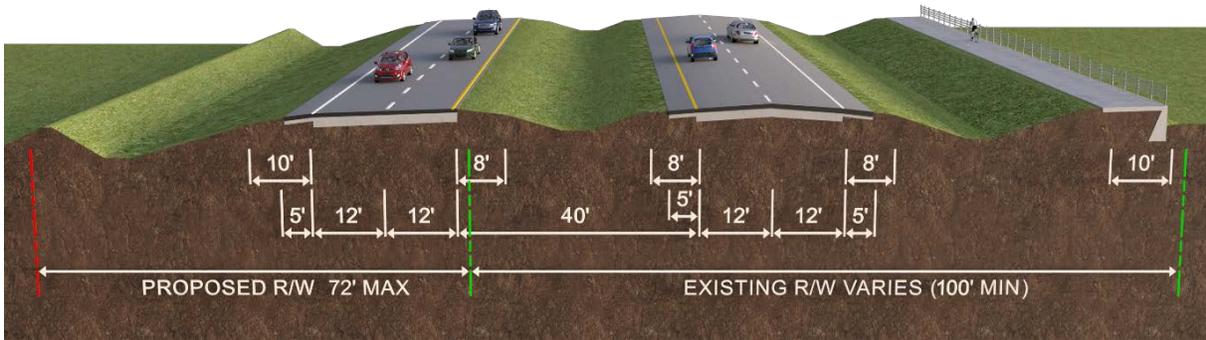


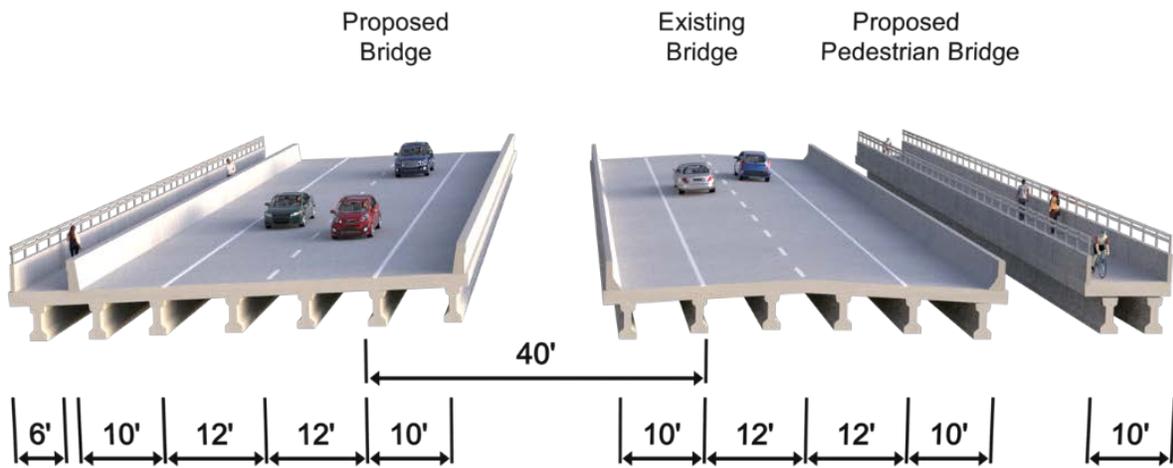
Figure 1 Project Location Map



Proposed Roadway Typical Section 1: US 98 to Arena Road and South of Gardenia Way to SR 50

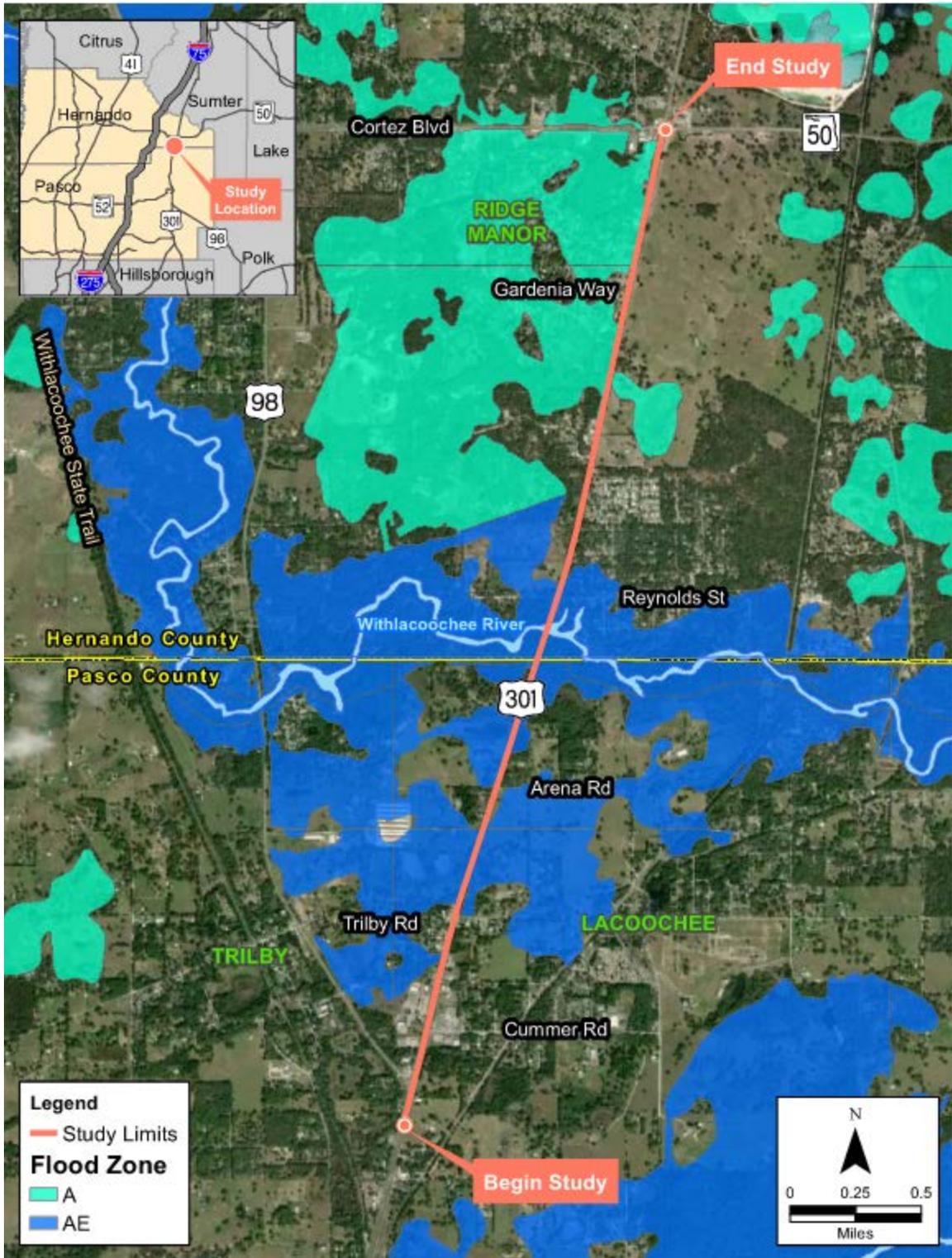


Proposed Roadway Typical Section 2: North of Arena Road to South of Gardenia Way



Proposed Bridge Typical Section

Figure 2 Proposed Typical Sections



Source: FEMA

Figure 3 FEMA Floodplains Map

Figure 4 Flood Rate Insurance Maps

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 **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. BFEs in detailed watersheds are rounded to tenth-foot elevations, see Watershed Table below. 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.

Base map information shown on this FIRM was provided in digital format by the Southwest Florida Water Management District. The original orthorectified base imagery was provided in color with a one-foot pixel resolution at a scale of 1" = 1' from photography flown January 2009.

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.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by fax at 1-800-358-9620 and its website at <http://www.msc.fema.gov>. A FIRMETTE (full scale section of a FIRM) is also available at this website.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/cfr/>.

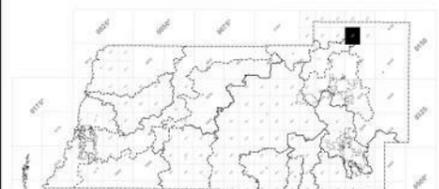
DATUM INFORMATION

The projection used in the preparation of this map was State Plane Florida West. The horizontal datum was HARN, GRS1980 spheroid. Differences in datum, spheroid, projection or State Plane Zone 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 reflect the accuracy of this FIRM.

Base Flood Elevation (BFEs) 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:

Spatial Reference System Division
National Geodetic Survey, NOAA
Silver Spring Metro Center
1315 East-West Highway
Silver Spring, Maryland 20910
(301) 713-3191

To obtain current elevation, description, and/or location information for **benchmarks** 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/>.



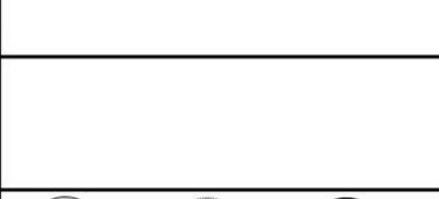
Watershed Boundary
Coastal Construction Control Line

Watershed Table

Watershed	Datum Offset (ft)	Study Type	1 Day 100yr Rainfall Used ¹	Multi-Day	Date of Model
1. Bear Creek	-0.84	Effective Transfer	12.0	NO	09/30/92
2. Blanton Lake	-0.84	Effective Transfer	11.0	NO	09/30/92
3. Cypress Creek	-0.84	Detailed	12.4	YES	04/27/10
4. Double Hammock Creek	-0.84	Effective Transfer	12.0	NO	09/30/92
5. Duck Lake	-0.84	Effective Transfer	11.0	NO	09/30/92
6. East Pasco	-0.84	Detailed	12.0	YES	02/23/10
7. East Pinellas Anclote	-0.84	Detailed	12.0	NO	04/26/11
8. Hammock Creek	-0.84	Effective Transfer	12.0	NO	09/30/92
9. Lower Coastal	-0.84	Effective Transfer	12.1	NO	09/30/92
10. New River	-0.84	Effective Transfer	11.1	NO	09/30/92
11. North Lakes	-0.84	Effective Transfer	N/A	NO	09/30/92
12. Pinellas Anclote	-0.84	Effective Transfer	12.0	NO	09/30/92
13. Trout Creek	-0.84	Detailed	12.4	YES	06/29/10
14. Upper Hillsborough	-0.84	Effective Transfer	11.0	NO	05/01/78
15. Upper Pinellas Anclote	-0.84	Effective Transfer	12.0	NO	09/30/92
16. Upper Withlacoochee	-0.84	Effective Transfer	10.8	NO	05/01/78
17. West Pinellas Anclote	-0.84	Effective Transfer	12.0	NO	09/30/92

¹Redelineation performed for coastal flood zones.
²Multi-Day event used only in specific sub-basins, refer to the FIS report.

³Zone X (hatched) 0.2% annual chance floodplain is delineated only in watersheds where the Study Type is Redelineation or Coastal. The 0.2% annual chance floodplain is not delineated in watersheds where the Study Type is Detailed. Refer to the Watershed Table for Study Type.



600000 FT JOINS PANEL 0120

605000 FT JOINS PANEL 0108

605000 FT

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 deteriorated. 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 X¹** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot; and areas protected by levees from 1% annual chance flood. See additional note in Watershed Table on left collar.

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
- Base Flood Elevation line and value; elevation in feet* (EL 987)
- Base Flood Elevation value where uniform within zone; elevation in feet

* Referenced to the North American Vertical Datum of 1988

MAP REPOSITORIES

Refer to Map Repositories List on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
September 26, 2014

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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 0 100 200 300 METERS

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0108F

FIRM
FLOOD INSURANCE RATE MAP
PASCO COUNTY,
FLORIDA
AND INCORPORATED AREAS

PANEL 108 OF 500
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
COMMUNITY: PASCO COUNTY
NUMBER: 120230
PANEL SUFFIX: 0108 F

MAP NUMBER
12101C0108F

EFFECTIVE DATE
SEPTEMBER 26, 2014

Federal Emergency Management Agency

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.



This digital Flood Insurance Rate Map (FIRM) was produced through a cooperative partnership between the Southwest Florida Water Management District (SWFWMD), Pasco County Federal Emergency Management Agency (FEMA), and the associated communities within Pasco County.

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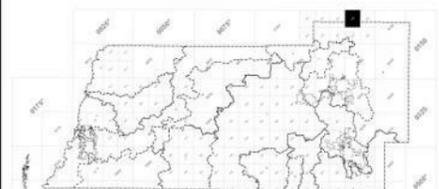
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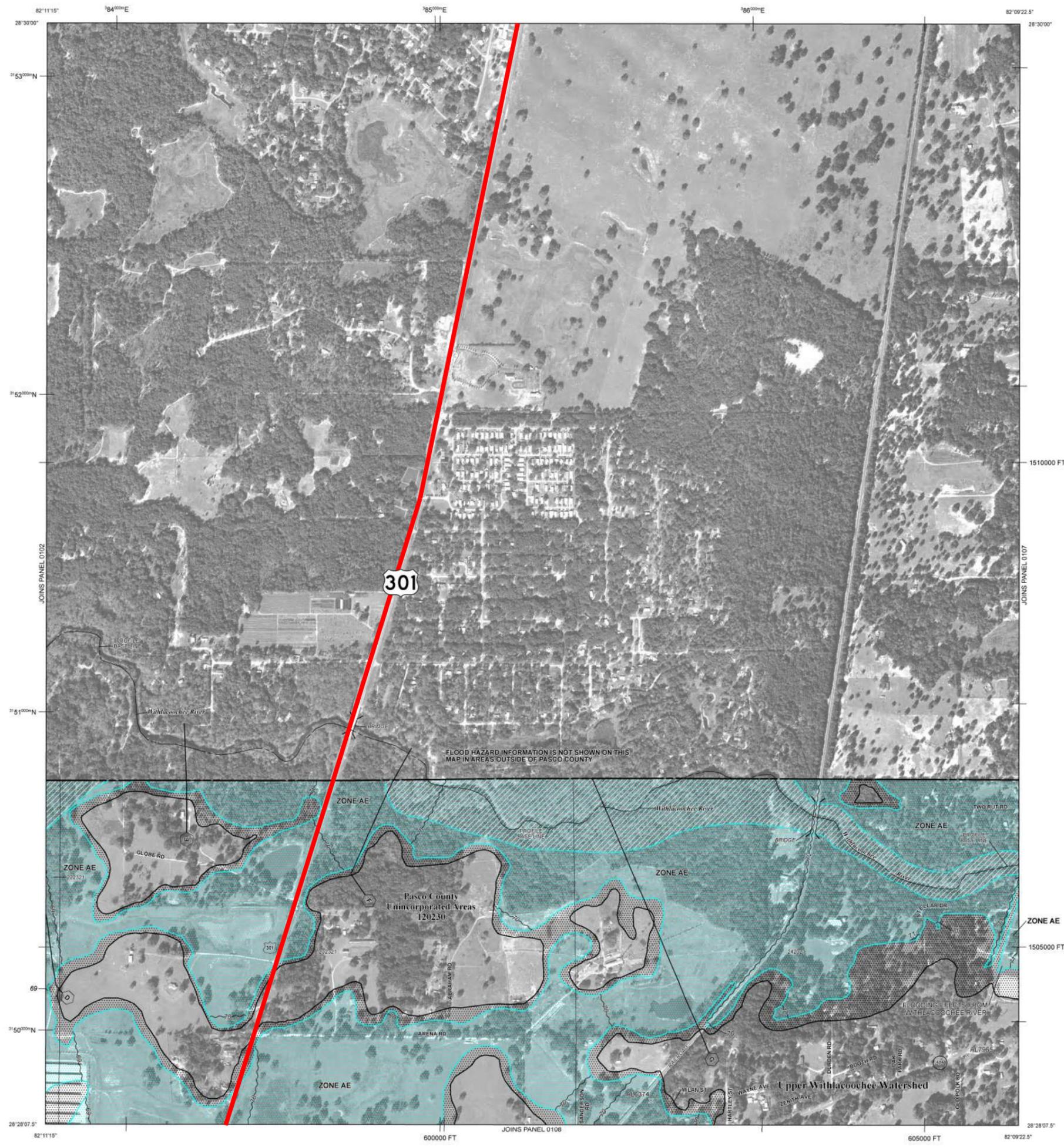
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Coastal Construction Control Line

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12. Pithlachascoee	-0.84	Effective Transfer	12.0	NO	09/30/92
13. Trout Creek	-0.84	Detailed	12.4	YES	06/29/10
14. Upper Hillsborough	-0.84	Effective Transfer	11.0	NO	05/01/79
15. Upper Pithlachascoee	-0.84	Effective Transfer	12.0	NO	09/30/92
16. Upper Withlacoochee	-0.84	Effective Transfer	10.8	NO	05/01/79
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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.

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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
- Base Flood Elevation line and value; elevation in feet* (EL 967)
- Base Flood Elevation value where uniform within zone; elevation in feet

* Referenced to the North American Vertical Datum of 1988

- Cross section line
- Transect line
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 1000-meter Universal Transverse Mercator grid ticks, zone 17
- 5000-foot grid values: Florida State Plane coordinate system, West Zone (FIPSZONE = 0902), Transverse Mercator projection
- Best mark (see explanation in Notes to Users section of this FIRM panel)
- River Mile
- Section - Township - Range
- Junction - Points defining locations of flow accumulation or hydraulic connectivity. The first two characters of the Junction name represents the specific watershed (as shown in the map collar locator map) in which the Junction is located (note that boundary Junctions, without an associated floodplain, are also shown).
- Hydraulic Connectivity - Flow pathway between junctions.

MAP REPOSITORIES

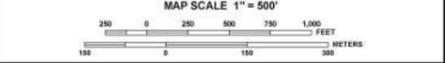
Refer to Map Repositories List on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP: September 26, 2014

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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.



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0106F

FIRM
FLOOD INSURANCE RATE MAP
PASCO COUNTY,
FLORIDA
AND INCORPORATED AREAS

PANEL 106 OF 500
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
COMMUNITY: PASCO COUNTY
NUMBER: 12010C0106F
PANEL SUFFIX: 0106 F

Note 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
12010C0106F

EFFECTIVE DATE
SEPTEMBER 26, 2014

Federal Emergency Management Agency

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 tenth-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.

Base map information shown on this FIRM was provided in digital format by the Southwest Florida Water Management District. The original orthorectified base imagery was provided in color with a one-foot pixel resolution at a scale of 1" = 200' from photography flown January - February 2007.

This map may reflect more detailed or up-to-date **stream channel configurations** than those shown on the previous FIRM. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations and improved topographic data. The profile baselines depicted on this map represent the hydraulic modeling baselines that match the flood profiles and Floodway Data Tables if applicable, in the FIS report. As a result, the profile baselines may deviate significantly from the new base map channel representation and may appear outside the floodplain.

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 on available products associated with this FIRM visit the **FEMA Map Service Center** website at <http://www.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 MSC website.

If you have questions about this map, 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 website at <http://www.fema.gov>.

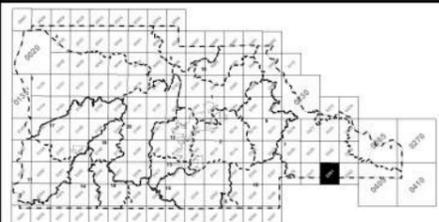
DATUM INFORMATION

The projection used in the preparation of this map was State Plane Florida West FIPS 8502. The horizontal datum was NAD 83, GRS1980 spheroid. Differences in datum, projection, or State Plane Zone 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 reflect the accuracy of this FIRM.

Base Flood Elevation (BFEs) 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:

Spatial Reference System Division
National Geodetic Survey, NOAA
Silver Spring Metro Center
13151 West Highway
Silver Spring, Maryland 20910
(301) 713-3191

To obtain current elevation, description, and/or location information for **benchmarks** 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/>.

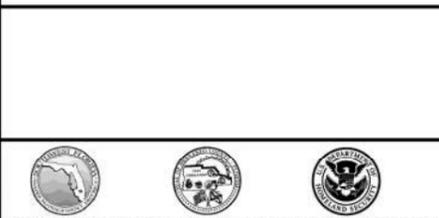


Watershed Boundary
Coastal Construction Control Line

Watershed Table

Watershed	Datum Offset (ft)	Study Type	1 Day 100yr Rainfall (in)	Multi-Day Rainfall (in)	Date of Model
1. Blue Sink	-0.81	Detailed	12.8	NO	02/24/09
2. Bystre Lake	-0.82	Detailed	12.5	YES	01/26/10
3. Centuria	-0.83	Detailed	12.5	YES	12/15/09
4. Chassahowitzka River	-0.83	Detailed	12.8	NO	06/29/09
5. Crews Lake Outlet	-0.85	Redelineation	12.5	NO	03/30/10
6. Croon	-0.79	Detailed	12.4	NO	01/28/09
7. Eastern Hernando	-0.83	Detailed	12.0	NO	02/24/09
8. Little Withlacoochee River	-0.84	Detailed	12.0	NO	01/28/09
9. Lizzie Hart Sink	-0.83	Detailed	12.5	NO	11/18/08
10. McKelhan	-0.82	Detailed	12.3	YES	06/29/09
11. Oman Quarry	-0.83	Detailed	12.5	NO	12/16/08
12. Peck Sink	-0.84	Redelineation	13.0	NO	03/30/10
13. Powell	-0.84	Detailed	12.8	NO	12/16/08
14. Spring Hill Lakes	-0.84	Detailed	12.5	YES	04/28/09
15. Squirrel Prairie	-0.82	Redelineation	12.8	NO	03/30/10
16. Touchada	-0.80	Detailed	12.4	YES	03/31/09
17. Tooke	-0.83	Detailed	12.5	NO	05/20/09
18. Weeki Wachee Prairie	-0.84	Detailed	12.7	NO	01/26/10
19. Willow Sink	-0.84	Detailed	12.8	NO	06/23/09
20. Wilson	-0.84	Detailed	12.9	NO	06/23/09

*Redelineation performed for coastal flood zones
*Multi-Day event used only in specific sub-basins, refer to the FIS report.
*Zone X (shaded) 0.2% annual chance floodplain is delineated only in watersheds where the Study Type is Detailed. Refer to the Watershed Table for Study Type.



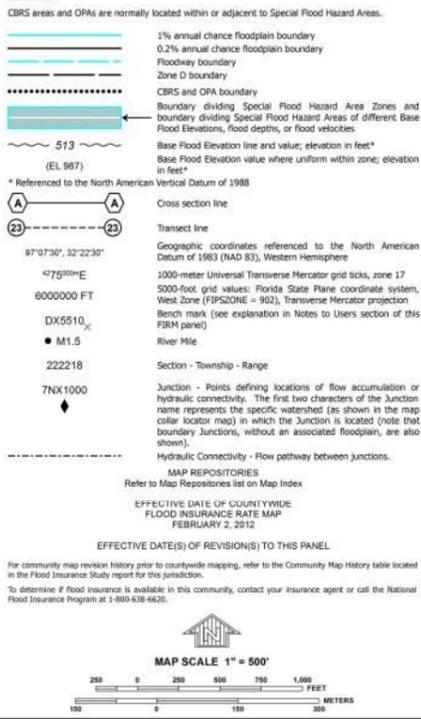
This digital Flood Insurance Rate Map (FIRM) was produced through a cooperative partnership between the Southwest Florida Water Management District (SWFWMD), Hernando County, Federal Emergency Management Agency (FEMA), and the associated communities within Hernando County.



FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF HERNANDO COUNTY. SEE THE PASCO COUNTY EFFECTIVE FIRM.

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, AD, AR, AS9, 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 decommissioned. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
 - ZONE AS9** 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; and areas protected by levees from 1% annual chance flood. See additional note in Watershed Table on left collar.
- 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
 - Base Flood Elevation line and value; elevation in feet*
 - Base Flood Elevation value where uniform within zone; elevation in feet



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0381D

FIRM
FLOOD INSURANCE RATE MAP
HERNANDO COUNTY,
FLORIDA
AND INCORPORATED AREAS

PANEL 381 OF 410
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HERNANDO COUNTY	125110	0381	D

MAP NUMBER
12053C0381D

EFFECTIVE DATE
FEBRUARY 2, 2012
Federal Emergency Management Agency

Notes 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.

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 tenth-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 (CBFEs) shown on this map apply only to 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.

Base map information shown on this FIRM was provided in digital format by the Southwest Florida Water Management District. The original orthophotographic base imagery was provided in color with a one-foot pixel resolution at a scale of 1" = 200' from photography flown January - February 2007.

This map may reflect more detailed or up-to-date **stream channel configurations** than those shown on the previous FIRM. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations and improved topographic data. The profile baselines depicted on this map represent the hydraulic modeling baselines that match the flood profiles and Floodway Data Tables if applicable, in the FIS report. As a result, the profile baselines may deviate significantly from the new base map channel representation and may appear outside the floodplain.

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.

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If you have questions about this map, 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 website at <http://www.fema.gov>.

DATUM INFORMATION

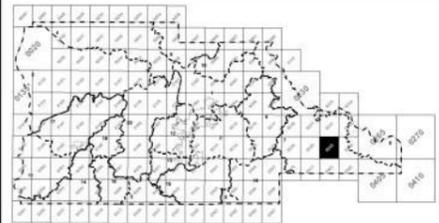
The projection used in the preparation of this map was State Plane Florida West FIPS 9802. The horizontal datum was NAD 83, GRS1980 spheroid. Differences in datum, spheroid, projection or State Plane Zone used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not reflect the accuracy of this FIRM.

Base Flood Elevation (BFEs) 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:

Spatial Reference System Division
National Geodetic Survey, NOAA
Silver Spring Metro Center
1315 East-West Highway
Silver Spring, Maryland 20910
(301) 713-3191

Example Datum Offset Calculation
using datum offset table below
NAVD88 = NGVD29 + (datum offset value)

To obtain current elevation, description, and/or location information for **benchmarks** 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/>.

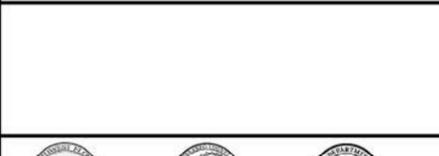


Watershed Boundary
Coastal Construction Control Line

Watershed Table

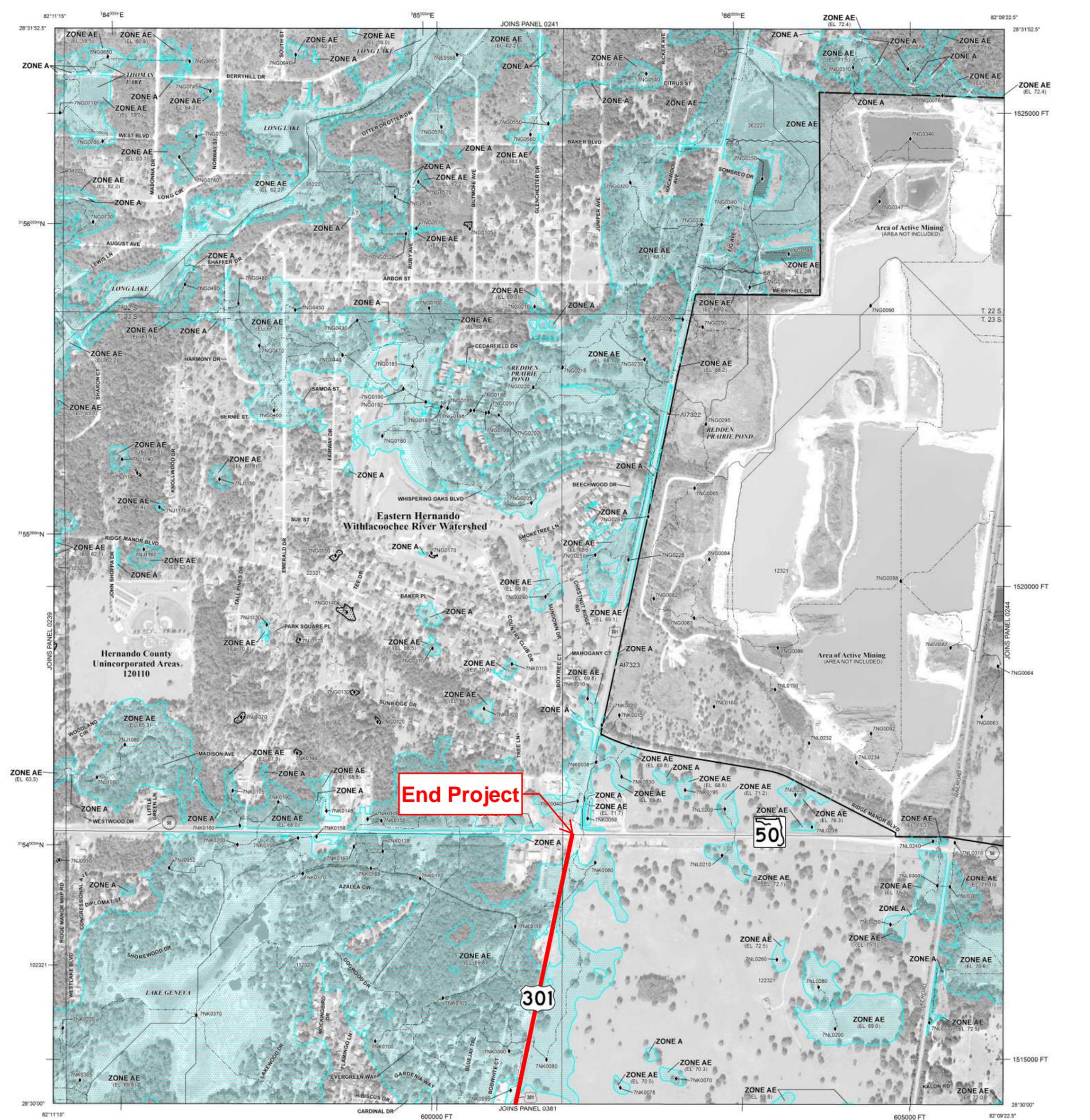
Watershed	Datum Offset (ft)	Study Type	Total Rainfall Volume (in)		Date of Model
			1 Day 100yr	Multi-Day	
1. Blue Sink	-0.81	Detailed	12.8	NO	02/24/09
2. Bystre Lake	-0.82	Detailed	12.5	YES	01/26/10
3. Centuria	-0.83	Detailed	12.5	YES	12/15/09
4. Chassahowitzka River	-0.83	Detailed	12.8	NO	06/29/09
5. Crews Lake Outlet	-0.85	Redelineation	12.5	NO	03/30/10
6. Crook	-0.79	Detailed	12.4	NO	01/26/09
7. Eastern Hernando	-0.83	Detailed	12.0	NO	02/24/09
8. Little Withlacoochee River	-0.84	Detailed	12.0	NO	01/26/09
9. Lizzie Hart Sink	-0.83	Detailed	12.5	NO	11/18/08
10. McKean	-0.82	Detailed	12.3	YES	06/29/09
11. Oman Quarry	-0.83	Detailed	12.5	NO	12/16/08
12. Peck Sink	-0.84	Redelineation	13.0	NO	03/30/10
13. Powell	-0.84	Detailed	12.8	NO	12/16/08
14. Spring Hill Lakes	-0.84	Detailed	12.5	YES	04/28/09
15. Squirrel Prairie	-0.82	Redelineation	12.6	NO	03/30/10
16. Touchet	-0.83	Detailed	12.4	YES	03/31/09
17. Tooke	-0.83	Detailed	12.5	NO	05/20/09
18. Weeki Wechee Prairie	-0.84	Detailed	12.7	NO	01/26/10
19. Willow Sink	-0.84	Detailed	12.8	NO	06/23/09
20. Wilson	-0.84	Detailed	12.9	NO	06/23/09

*Redelineation performed for coastal flood zones
*Multi-Day event used only in specific sub-basins, refer to the FIS report.
*Zone X (shaded) 0.2% annual chance floodplain is delineated only in watersheds where the Study Type is Redelineation or Coastal. The 0.2% annual chance floodplain is not delineated in watersheds where the Study Type is Detailed. Refer to the Watershed Table for Study Type.



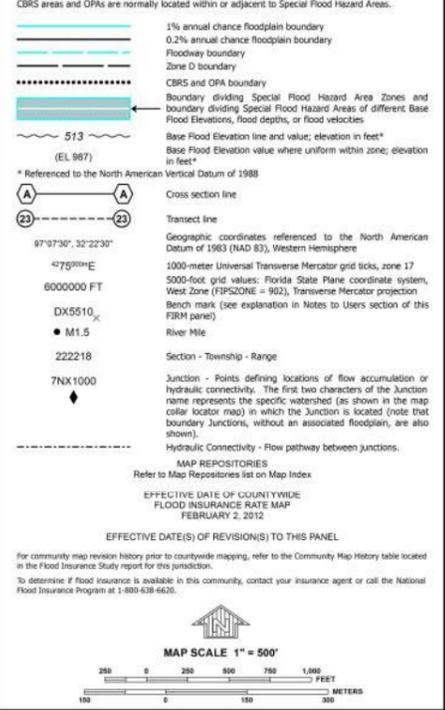
Watershed Boundary
Coastal Construction Control Line

This digital Flood Insurance Rate Map (FIRM) was produced through a cooperative partnership between the Southwest Florida Water Management District (SWFWMD), Hernando County, Federal Emergency Management Agency (FEMA), and the associated communities within Hernando County.



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, AV, 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 decommissioned. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
 - ZONE AV** 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; and areas protected by levees from 1% annual chance flood. See additional note in Watershed Table on left collar.
- 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.



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0243D

FIRM
FLOOD INSURANCE RATE MAP
HERNANDO COUNTY,
FLORIDA
AND INCORPORATED AREAS

PANEL 243 OF 410
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HERNANDO COUNTY	129118	0243	D

Notes 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
12053C0243D

EFFECTIVE DATE
FEBRUARY 2, 2012
Federal Emergency Management Agency