



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	City of Casselberry Seminole County Florida	NO PROJECT	BASE MAP CHANGES FLOODWAY HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS NEW TOPOGRAPHIC DATA
	COMMUNITY NO.: 120291		
IDENTIFIER	Winter Park Chain of Lakes	APPROXIMATE LATITUDE & LONGITUDE: 28.634, -81.320 SOURCE: USGS QUADRANGLE DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM* NO.: 12117C0165F DATE: September 28, 2007		DATE OF EFFECTIVE FLOOD INSURANCE STUDY REPORT: September 28, 2007 PROFILE(S): 20P FLOODWAY DATA TABLE: 5 SUMMARY OF DISCHARGES TABLE: 3	

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map; ** FBFM - Flood Boundary and Floodway Map; *** FHBM - Flood Hazard Boundary Map

FLOODING SOURCE(S) & REVISED REACH(ES)

Howell Creek - from the confluence with Lake Howell to the boundary between Seminole and Orange Counties

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Howell Creek	Zone AE	Zone AE	YES	YES
	Floodway	Floodway	YES	YES
	BFEs*	BFEs	YES	YES
	Zone X (unshaded)	Zone X (shaded)	YES	NONE

* BFEs - Base Flood Elevations

DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Luis Rodriguez, P.E., Chief
Engineering Management Branch
Federal Insurance and Mitigation Administration



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**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

OTHER COMMUNITIES AFFECTED BY THIS REVISION

CID Number: 120179 **Name:** Orange County, Florida

AFFECTED MAP PANELS

TYPE: FIRM* NO.: 12095C0165F DATE: September 25, 2009
TYPE: FIRM* NO.: 12095C0255F DATE: September 25, 2009

AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT

DATE OF EFFECTIVE FLOOD INSURANCE STUDY: September 25, 2009
PROFILE(S): 21P
FLOODWAY DATA TABLE: 7
SUMMARY OF DISCHARGES TABLE: 4
STILLWATER ELEVATION TABLE: 5

CID Number: 120184 **Name:** City of Maitland, Florida

AFFECTED MAP PANELS

TYPE: FIRM* NO.: 12095C0165F DATE: September 25, 2009
TYPE: FIRM* NO.: 12095C0255F DATE: September 25, 2009

AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT

DATE OF EFFECTIVE FLOOD INSURANCE STUDY REPORT: September 25, 2009
PROFILE(S): 21P, 42P, 68P
FLOODWAY DATA TABLE: 7
SUMMARY OF DISCHARGES TABLE: 4
STILLWATER ELEVATION TABLE: 5

CID Number: 120186 **Name:** City of Orlando, Florida

AFFECTED MAP PANELS

TYPE: FIRM* NO.: 12095C0255F DATE: September 25, 2009

AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT

DATE OF EFFECTIVE FLOOD INSURANCE STUDY REPORT: September 25, 2009
PROFILE(S): 43P
FLOODWAY DATA TABLE: 7
SUMMARY OF DISCHARGES TABLE: 4
STILLWATER ELEVATION TABLE: 5

CID Number: 120188 **Name:** City of Winter Park, Florida

AFFECTED MAP PANELS

TYPE: FIRM* NO.: 12095C0165F DATE: September 25, 2009
TYPE: FIRM* NO.: 12095C0255F DATE: September 25, 2009

AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT

DATE OF EFFECTIVE FLOOD INSURANCE STUDY REPORT: September 25, 2009
PROFILE(S): 43P, 21P
FLOODWAY DATA TABLE: 7
SUMMARY OF DISCHARGES TABLE: 4
STILLWATER ELEVATION TABLE: 5

CID Number: 120289 **Name:** Seminole County, Florida

AFFECTED MAP PANELS

AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT

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**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

TYPE: FIRM* NO.: 12117C0165F DATE: September 28, 2007

DATE OF EFFECTIVE FLOOD INSURANCE STUDYREPORT: September 28, 2007
PROFILE(S): 20P
FLOODWAY DATA TABLE: 5
SUMMARY OF DISCHARGES TABLE: 3

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION

APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

We provide the floodway designation to your community as a tool to regulate floodplain development. Therefore, the floodway revision we have described in this letter, while acceptable to us, must also be acceptable to your community and adopted by appropriate community action, as specified in Paragraph 60.3(d) of the NFIP regulations.

COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Mr. Brad Loar
Director, Mitigation Division
Federal Emergency Management Agency, Region IV
Koger Center - Rutgers Building, 3003 Chamblee Tucker Road
Atlanta, GA 30341
(770) 220-5400

STATUS OF THE COMMUNITY NFIP MAPS

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panels and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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TABLE 3. SUMMARY OF DISCHARGES - continued

<u>FLOODING SOURCE AND LOCATION</u>	<u>DRAINAGE AREA (sq. mi.)</u>	<u>PEAK DISCHARGES (cfs)</u>			
		<u>10-percent</u>	<u>2-percent</u>	<u>1-percent</u>	<u>0.2-percent</u>
GRASSY LAKE DRAINAGE CHANNEL TO TRIPLET LAKE					
At Sunset Drive	1.6	93	145	179	289
At U.S. Route 17-92	1.4	28	41	46	56
HOWELLCREEK					
At Lake Jesup	27.2	2,080	4,630	6,420	12,140
At State Route 419	26.4	2,030	4,500	6,240	11,750
At Cross Section G	23.5	680	1,410	2,110	3,880
At Lake Howell	30.4	538	990	945	1,540
LITTLE ECONLOCKHATCHEE RIVER					
At Lockwood Road	*	3,250	*	6,440	*
At State Route 520	*	4,760	*	8,520	*
At Orange County boundary	*	4,720	*	8,360	*
LITTLE HOWELL CREEK					
At mouth	2.4	450	1,150	1,370	3,110
LITTLE WEKIVA RIVER					
At State Route 434	33.8	920	1,500	1,800	2,580
At Montgomery Road	31.1	780	1,280	1,520	2,070
At CSX Transportation	27.6	700	1,140	1,370	1,830
	25.4				
At State Route 431		550	880	1,050	1,610
SIX MILE CREEK					
At Lake Jesup	4.5	430	780	950	1,530
SIX MILE CREEK TRIBUTARY					
At mouth	2.4	230	480	560	820

Revised Data



* Data not available

**REVISED TO
REFLECT LOMR
EFFECTIVE: March 7, 2014**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Howell Creek								
A	3,960	600	2,600	1.1	8.7	8.5 ²	8.9	0.4
B	5,200	314	1,195	5.4	13.4	13.4	14.1	0.7
C	7,250	239	1,938	3.2	15.7	15.7	16.5	0.8
D	9,600	158	1,520	1.5	17.6	17.6	18.2	0.6
E	13,200	108	597	3.8	18.2	18.2	18.8	0.6
F	15,600	67	380	6.0	24.3	24.3	24.8	0.5
G	19,000	131	950	2.4	30.8	30.8	31.8	1.0
H	19,450	200	610	3.4	31.6	31.6	32.5	0.9
I	24,800	85	400	2.2	42.4	42.4	42.6	0.2
J	27,100	57	450	2.7	42.6	42.6	43.4	0.8
K	31,250	65	520	2.3	50.7	50.7	50.8	0.1
L	36,400	222	610	2.0	55.5	55.5	55.5	0.0
M*								
N*								
O*								
			↑ Revised Data					

¹ Feet above mouth

² Elevation computed without consideration of backwater effects from Lake Jesup

* Data revised based on a Link-Node model

**REVISED TO
REFLECT LOMR
EFFECTIVE: March 7, 2014**

TABLE 5

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SEMINOLE COUNTY, FL
AND INCORPORATED AREAS**


FLOODWAY DATA

HOWELL CREEK

FLOODING SOURCE			FLOODWAY ¹			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
NODES	LINK	DISTANCE ²	WIDTH (FEET)	PEAK FLOW (CFS)	VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Howell Creek									
M	M-N	50,075	104	950	4.6	56.6	56.6	56.7	0.1
N		50,489				59.5	59.5	0.0	
O	O-P	50,889	125	940	4.3	60.2	60.2	60.2	0.0
P		51,365				61.7	61.7	61.8	0.1

¹ Values represent maximum along link

² Feet above mouth

Revised Data 

**REVISED TO
REFLECT LOMR
EFFECTIVE: March 7, 2014**

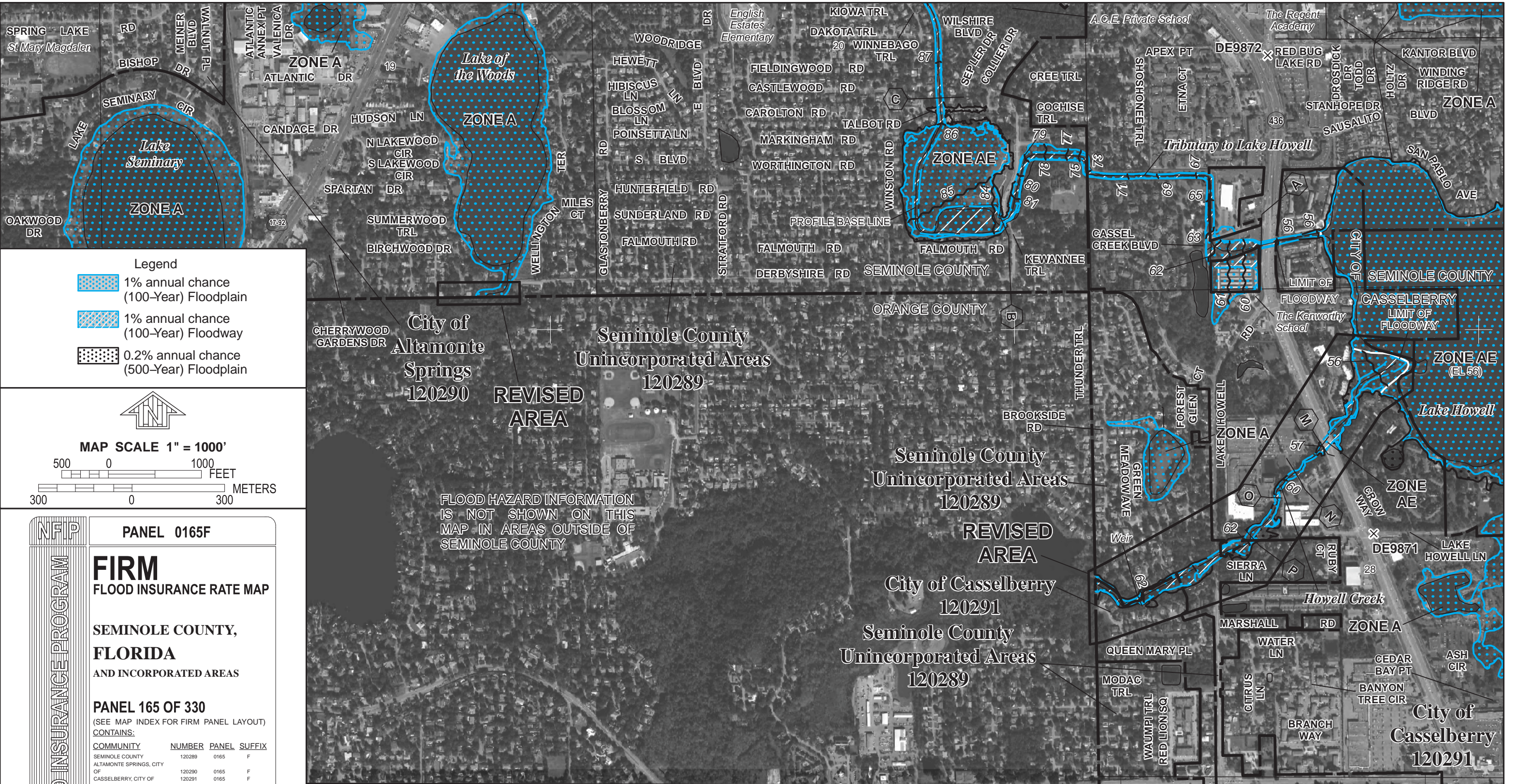
TABLE 5

FEDERAL EMERGENCY MANAGEMENT AGENCY

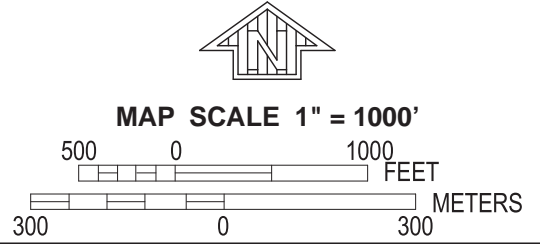
**SEMINOLE COUNTY, FL
AND INCORPORATED AREAS**

FLOODWAY DATA

HOWELL CREEK



- Legend**
- 1% annual chance (100-Year) Floodplain
 - 1% annual chance (100-Year) Floodway
 - 0.2% annual chance (500-Year) Floodplain



NFIP PANEL 0165F

FIRM
FLOOD INSURANCE RATE MAP

SEMINOLE COUNTY,
FLORIDA
AND INCORPORATED AREAS

PANEL 165 OF 330
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SEMINOLE COUNTY	120289	0165	F
ALTAMONTE SPRINGS, CITY OF	120290	0165	F
CASSELBERRY, CITY OF	120291	0165	F
LONGWOOD, CITY OF	120292	0165	F
WINTER SPRINGS, CITY OF	120295	0165	F

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

MAP NUMBER 12117C0165F
MAP REVISED SEPTEMBER 28, 2007

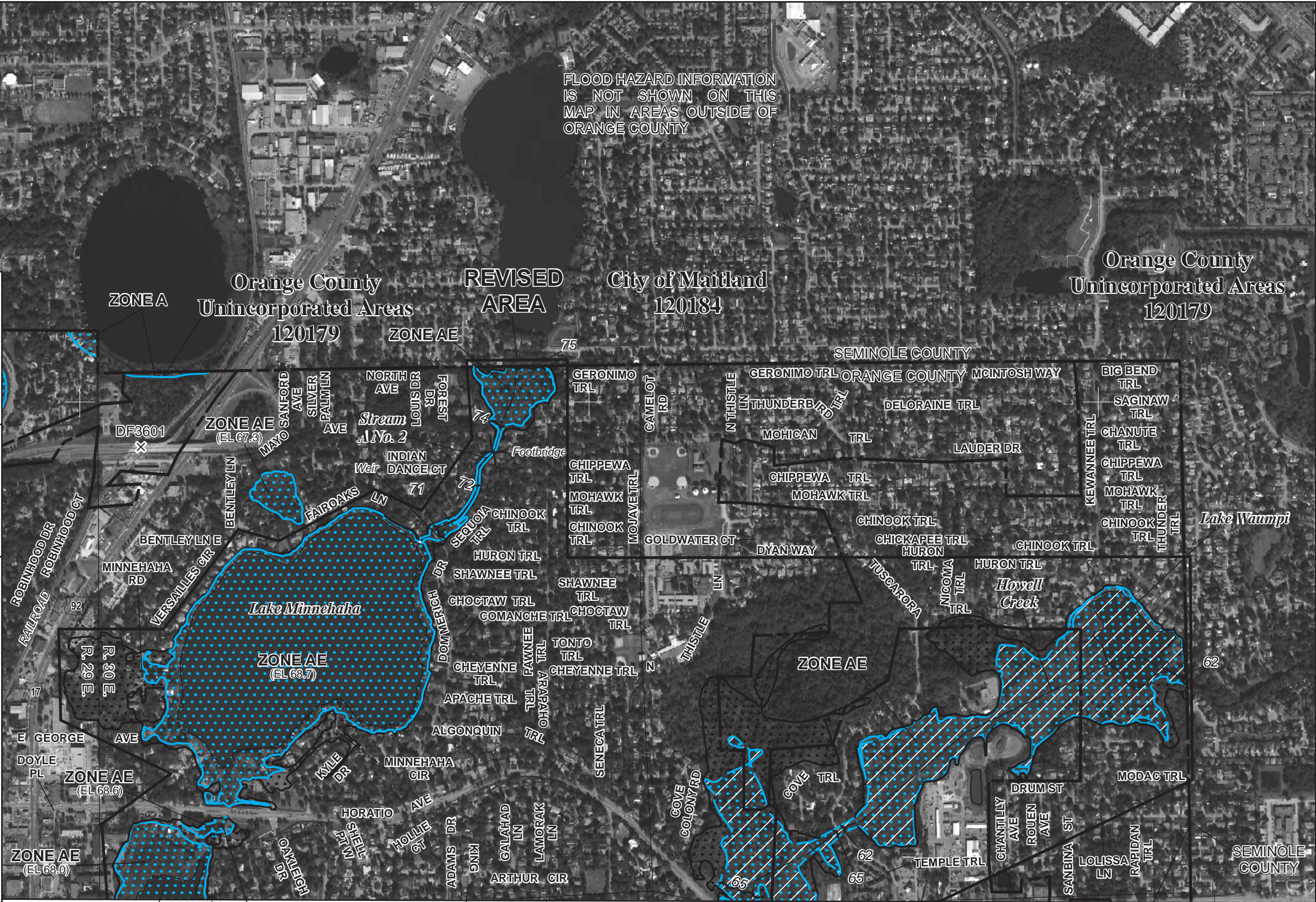
Federal Emergency Management Agency

FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF SEMINOLE COUNTY

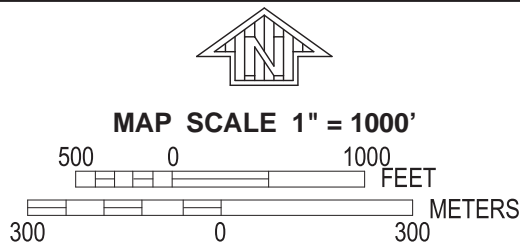
REVISED TO REFLECT LOMR EFFECTIVE: March 7, 2014

466^{000m} E JOINS PANEL 0255 467^{000m} E 468^{000m} E 469^{000m} E

FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF ORANGE COUNTY



- Legend**
- 1% annual chance (100-Year) Floodplain
 - 1% annual chance (100-Year) Floodway
 - 0.2% annual chance (500-Year) Floodplain



NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0165F

FIRM
FLOOD INSURANCE RATE MAP

ORANGE COUNTY, FLORIDA
AND INCORPORATED AREAS

PANEL 165 OF 750
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)
 CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ORANGE COUNTY	120179	0165	F
MAITLAND, CITY OF	120184	0165	F
WINTER PARK, CITY OF	120188	0165	F

REVISED TO REFLECT LOMR EFFECTIVE: March 7, 2014

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MAP NUMBER 12095C0165F
MAP REVISED SEPTEMBER 25, 2009

Federal Emergency Management Agency

465°00m E Lake Nina

466°00m E Nina Offline Wetland Treatment System

467°00m E City of Maitland 120184

468°00m E City of Winter Park 120188

ORANGE COUNTY

SEMINOLE COUNTY

SEMINOLE COUNTY

JOINS PANEL 0255