Page 1 of 6 Issue Date: June 13, 2016 Effective Date: October 27, 2016 Case No.: 16-05-3204P LOMR-APP

Follows Conditional Case No.: 15-05-6759R



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION			PROJECT DESCRIPTION	BASIS OF REQUEST	
COMMUNITY	Wis	County consin orated Areas)	DETENTION BASIN	FLOODWAY HYDRAULIC ANALYSIS NEW TOPOGRAPHIC DATA	
	COMMUNITY NO.: 550077				
IDENTIFIER	Upper Badger Mill Creek LOM	IR .	APPROXIMATE LATITUDE & LONGITUDE: 43.001, -89.499 SOURCE: USGS QUADRANGLE DATUM: NAD 83		
ANNOTATED MAPPING ENCLOSURES			ANNOTATED STUDY ENCLOSURES		
TYPE: FIRM* TYPE: FIRM TYPE: FIRM TYPE: FIRM	NO.: 55025C0394G NO.: 55025C0413G NO.: 55025C0557G NO.: 55025C0576G	DATE: January 2, 2009 DATE: January 2, 2009 DATE: January 2, 2009 DATE: January 2, 2009	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: September 17, 20 PROFILE(S): 03P, 30P FLOODWAY DATA TABLE: 8		

Enclosures reflect changes to flooding sources affected by this revision.

FLOODING SOURCE(S) & REVISED REACH(ES)

See Page 2 for Additional Flooding Sources

Badger Mill Creek - From just upstream of US Highway 18 to approximately 100 feet downstream of Nickel Road

SUMMARY OF REVISIONS					
Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases	
Badger Mill Creek	Zone AE	Zone AE	YES	YES	
	Zone X (unshaded)	Zone X (unshaded)	YES	YES	
	BFEs*	BFEs	YES	YES	
	Floodway	Floodway	YES	YES	

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.

Patrick "Rick" F. Sacbibit, P.E., Branch Chief

Engineering Services Branch

Federal Insurance and Mitigation Administration

16-05-3204P

^{*} FIRM - Flood Insurance Rate Map

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Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCE(S) & REVISED REACH(ES)

Badger Mill Creek - From just upstream of US Highway 18 to approximately 100 feet downstream of Nickel Road

East Branch Badger Mill Creek - From the confluence with Badger Mill Creek to approximately 500 feet upstream of the confluence with Badger Mill Creek

	SUMMARY OF REVISIONS				
Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases	
Badger Mill Creek	Zone X (shaded)	Zone X (shaded)	YES	YES	
East Branch Badger Mill Creek	Zone AE	Zone AE	YES	YES	
	Floodway	Floodway	YES	YES	
	BFEs	BFEs	YES	YES	

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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Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

OTHER COMMUNITIES AFFECTED BY THIS REVISION

CID Number: 550083 Name: City of Madison, Wisconsin

	AFFECTED MAP	PANELS	AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT			
TYPE: FIRM* TYPE: FIRM* TYPE: FIRM* TYPE: FIRM*	NO.: 55025C0394G NO.: 55025C0576G NO.: 55025C0557G NO.: 55025C0413G	DATE: January 2, 2009 DATE: January 2, 2009 DATE: January 2, 2009 DATE: January 2, 2009	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: September 17, 2014 PROFILE(S): 03P, 30P FLOODWAY DATA TABLE: 8			

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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Washington, D.C. 20472

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 flood discharges computed in the FIS for your community without considering subsequent changes in watershed characteristics that could increase flood discharges. Future development of projects upstream could cause increased flood discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on flood discharges subsequent to the publication of the FIS report for your community and could, therefore, establish greater flood hazards 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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Washington, D.C. 20472

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:

Ms. Christine Stack
Director, Mitigation Division
Federal Emergency Management Agency, Region V
536 South Clark Street, Sixth Floor
Chicago, IL 60605
IL: (312) 408-5500

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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Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

PUBLIC NOTIFICATION OF REVISION

A notice of changes will be published in the *Federal Register*. This information also will be published in your local newspaper on or about the dates listed below, and through FEMA's Flood Hazard Mapping website at https://www.floodmaps.fema.gov/fhm/bfe_status/bfe_main.asp

LOCAL NEWSPAPER Name: Wisconsin State Journal

Dates: June 22, 2016 and June 29, 12016

Within 90 days of the second publication in the local newspaper, any interested party may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. Therefore, this letter will be effective only after the 90-day appeal period has elapsed and we have resolved any appeals that we receive during this appeal period. Until this LOMR is effective, the revised flood hazard determination presented in this LOMR may be changed.

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.

Patrick "Rick" F. Sacbibit, P.E., Branch Chief Engineering Services Branch

					4 555	00511 7 41111111	01141105 51 0 0 5	
FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
BADGER MILL CREEK								
(CONTINUED)								
U	19,512	1,272	4,214	0.5	950.7	950.7	950.7	0.0
V	20,743	1,014	3,232	0.7	950.9	950.9	950.9	0.0
W	24,733	341	2,121	1.4	956.6	956.6	956.6	0.0
X	25,731	464	1,784	1.1	957.2	957.2	957.2	0.0
Υ	25,930	545	1,800	1.4	957.3	957.3	957.3	0.0
Z	26,655	224	807	3.0	958.1	958.1	958.1	0.0
AA	27,500	261	1,602	1.9	959.7	959.7	959.7	0.0
AB	28,240	1,309	720	2.9	963.8	963.8	963.8	0.0
AC	29,240	469	1,515	1.2	965.7	965.7	965.7	0.0
AD	29,724	191	1,252	1.7	966.4	966.4	966.4	0.0
AE	31,001	353	435	7.4	966.7	966.7	966.7	0.0
AF	31,943	248	425	5.1	969.9	969.9	969.9	0.0
AG	33,010	207	702	2.2	972.6	972.6	972.6	0.0
AH	34,038	215	801	1.8	975.8	975.8	975.8	0.0
Al	36,017	121	211	6.7	980.6	980.6	980.6	0.0
					REVISED I	DATA		

¹ FEET ABOVE CONFLUENCE WITH SUGAR RIVER

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

BADGER MILL CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD88)	WITHOUT FLOODWAY (FEET NAVD88)	WITH FLOODWAY (FEET NAVD88)	INCREASE (FEET)
EAST BRANCH BADGER MILL CREEK								
A	319	165	254	2.4	973.0	973.0	973.0	0.0
В	725	74	258	4.7	974.0	974.0	974.0	0.0
С	914	99	157	5.1	975.5	975.5	975.5	0.0
D	1,140	77	117	5.2	977.7	977.7	977.7	0.0
E	1,330	66	114	5.9	979.5	979.5	979.5	0.0
F	1,467	114	439	3.3	980.5	980.5	980.5	0.0
G	1,734	114	457	2.7	982.6	982.6	982.6	0.0
Н	2,213	115	278	2.6	983.4	983.4	983.4	0.0
I	2,464	99	417	4.1	984.2	984.2	984.2	0.0
					REVISED	DATA		

¹ FEET ABOVE CONFLUENCE WITH BADGER MILL CREEK

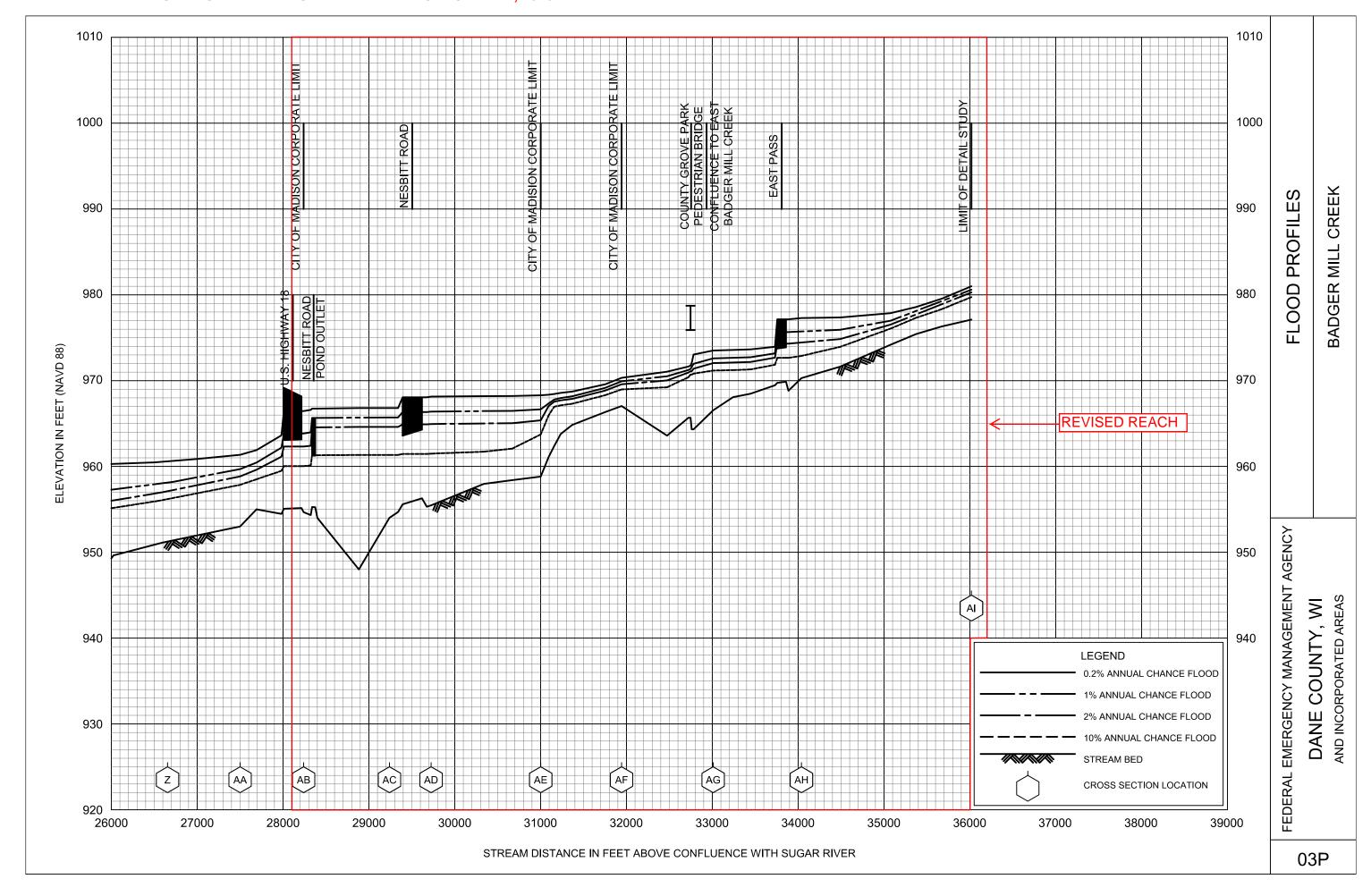
TABLE 8

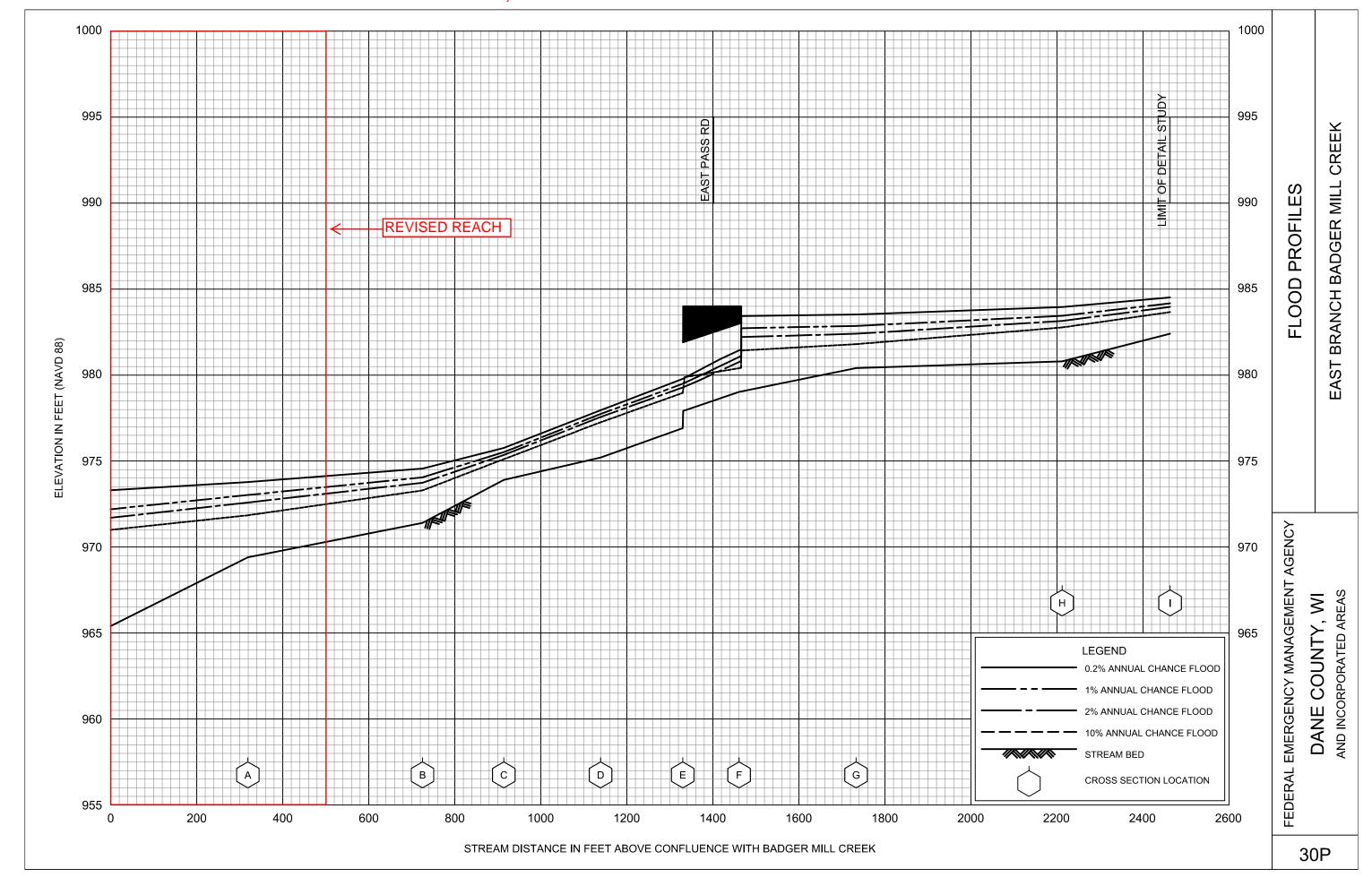
FEDERAL EMERGENCY MANAGEMENT AGENCY

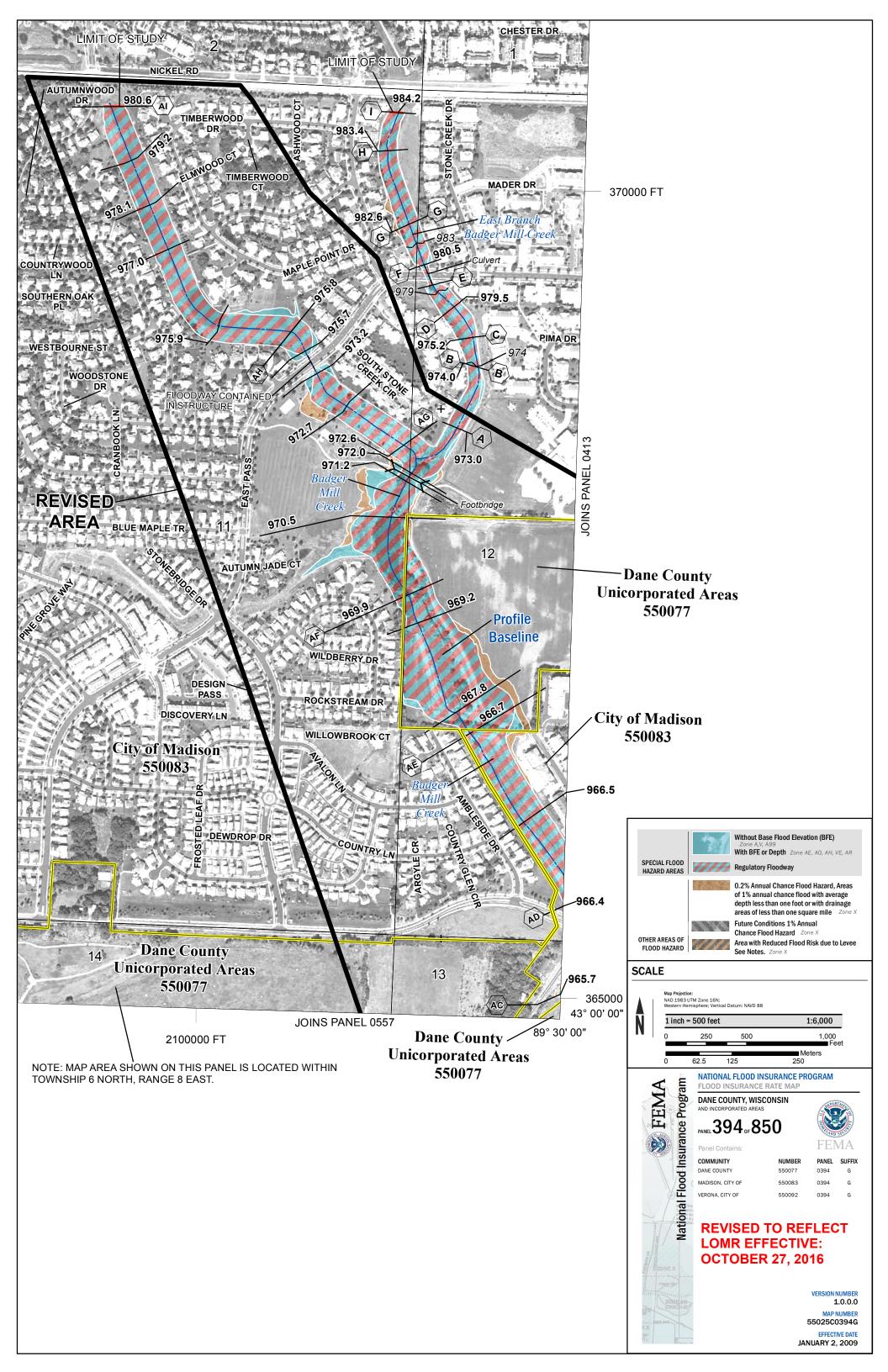
DANE COUNTY, WI AND INCORPORATED AREAS

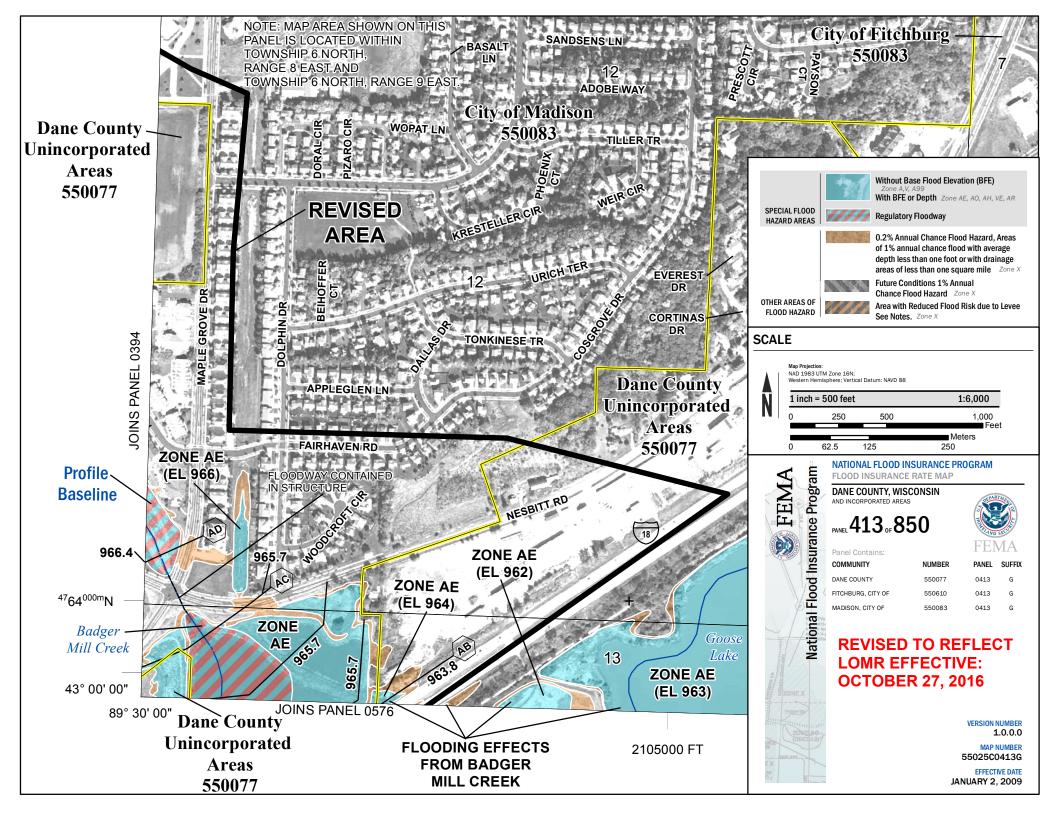
FLOODWAY DATA

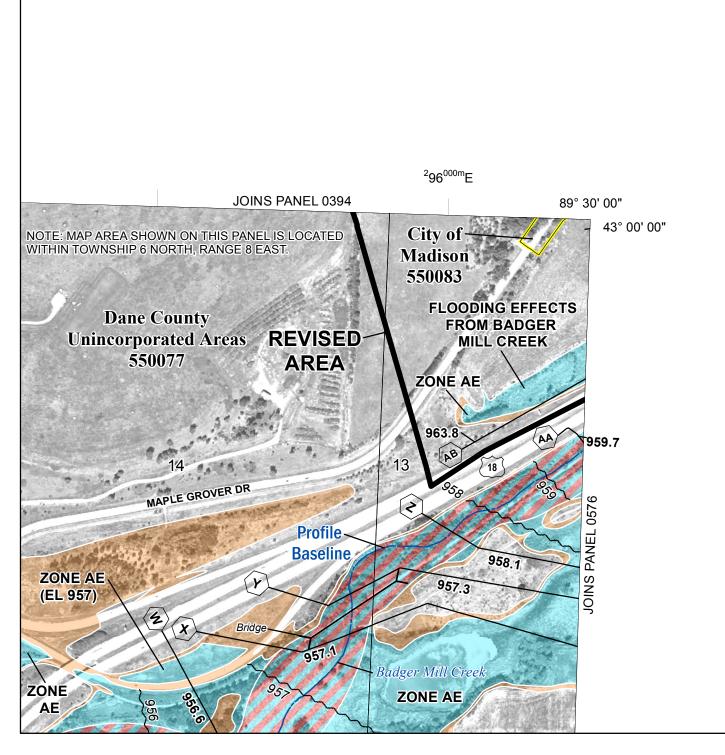
EAST BRANCH BADGER MILL CREEK





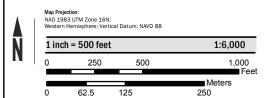








SCALE





NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

DANE COUNTY, WISCONSIN AND INCORPORATED AREAS

IND INCORPORATED AREAS

 $\mathsf{PANEL}\, 557\,\mathsf{of}\, 850$

Panel Contains:

E	SECUL
FEI	MA
PANEL	SUFFIX
0557	

TO N

COMMUNITY	NUMBER	PANEL	SUFFIX
DANE COUNTY	550077	0557	G
MADISON, CITY OF	550083	0557	G
VERONA, CITY OF	550092	0557	G

REVISED TO REFLECT LOMR EFFECTIVE: OCTOBER 27, 2016

VERSION NUMBER 1.0.0.0

MAP NUMBER 55025C0557G

JANUARY 2, 2009

