Page 1 of 6 | Issue Date: December 19, 2018 | Effective Date: May 17, 2019 | Case No.: 18-05-1711P | LOMR-APP



### 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 Moorhead Clay County Minnesota  COMMUNITY NO.: 275244		LEVEE	FLOODWAY HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS NEW TOPOGRAPHIC DATA		
IDENTIFIER	50 <sup>th</sup> Avenue South Flood Mitigation Project		APPROXIMATE LATITUDE & LONGITUDE: 46.823, -96.791 SOURCE: USGS QUADRANGLE DATUM: NAD 83			
ANNOTATED MAPPING ENCLOSURES			ANNOTATED STUDY ENCLOSURES			
TYPE: FIRM* TYPE: FIRM TYPE: FIRM	NO.: 27027C0458E NO.: 27027C0459E NO.: 27027C0470E	DATE: April 17, 2012 DATE: April 17, 2012 DATE: April 17, 2012	DATE OF EFFECTIVE FLOOD INSURA PROFILE(S): 25P AND 26P FLOODWAY DATA TABLE: 3	NCE STUDY: April 17, 2012		

Enclosures reflect changes to flooding sources affected by this revision.

#### FLOODING SOURCE(S) & REVISED REACH(ES)

Red River of the North - From approximately 2,100 feet upstream of 32nd Avenue South to approximately 3,200 feet upstream of County Highway 12/60th Avenue South

SUMMARY OF REVISIONS						
Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases		
Red River of the North	Zone AE	Zone AE	YES	YES		
	BFEs*	BFEs	YES	YES		
	Zone X (unshaded)	Zone X (unshaded)	YES	YES		
	Floodway	Floodway	YES	NONE		
* REEs - Rase Flood Flevations						

#### **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, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. 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

<sup>\*</sup> FIRM - Flood Insurance Rate Map

Page 2 of 6 Issue Date: December 19, 2018 Effective Date: May 17, 2019 Case No.: 18-05-1711P LOMR-APP



## Federal Emergency Management Agency

Washington, D.C. 20472

# LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

#### OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCE(S) & REVISED REACH(ES)

Red River of the North - From approximately 2,100 feet upstream of 32nd Avenue South to approximately 3,200 feet upstream of County Highway 12/60th Avenue South

	SIONS			
Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Red River of the North	Zone X (shaded)	Zone X (shaded)	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, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

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Page 3 of 6 Issue Date: December 19, 2018 Effective Date: May 17, 2019 Case No.: 18-05-1711P LOMR-APP



## Federal Emergency Management Agency

Washington, D.C. 20472

# LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

#### OTHER COMMUNITIES AFFECTED BY THIS REVISION

CID Number: 275235 Name: Unincorporated Areas of Clay County, Minnesota

AFFECTED MAP PANELS			AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT			
TYPE: FIRM	NO.: 27027C0458E	DATE: April 17, 2012	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: April 17, 2012			
	NO: 27027C0459E	DATE: April 17, 2012	PROFIL F(S): 25P AND 26P			

TYPE: FIRM NO.: 27027C0459E DATE: April 17, 2012 PROFILE(S): 25P AND 26P TYPE: FIRM NO.: 27027C0470E DATE: April 17, 2012 FLOODWAY DATA TABLE: 3

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, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

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Page 4 of 6 Issue Date: December 19, 2018 | Effective Date: May 17, 2019 | Case No.: 18-05-1711P | LOMR-APP



## Federal Emergency Management Agency

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 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, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

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Page 5 of 6 Issue Date: December 19, 2018 | Effective Date: May 17, 2019 | Case No.: 18-05-1711P | LOMR-APP



## Federal Emergency Management Agency

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. Mary Beth Caruso
Director, Mitigation Division
Federal Emergency Management Agency, Region V
536 South Clark Street, Sixth Floor
Chicago, IL 60605
(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 panel(s) 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, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

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Page 6 of 6 Issue Date: December 19, 2018 | Effective Date: May 17, 2019 | Case No.: 18-05-1711P | LOMR-APP



## 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 <a href="https://www.floodmaps.fema.gov/fhm/bfe">https://www.floodmaps.fema.gov/fhm/bfe</a> status/bfe main.asp

LOCAL NEWSPAPER Name: The FM Extra

Dates: January 10, 2019 and January 17, 2019

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, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. 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

18-05-1711P

102-I-A-C

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH <sup>2</sup> (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD88)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
RED RIVER OF THE NORTH (CONTINUED)								
AO	45.094	2,705/2,344	26,213	1.1	902.7	902.7	903.1	0.4
AP	45.827	2,115/290	25,943	1.1	903.1	903.1	903.5	0.4
AQ	46.997	2,231/360	28,301	1.0	903.7	903.7	904.1	0.4
AR	47.729	1,445/1,061	20,306	1.4	904.0	904.0	904.3	0.3
AS	48.871	1,267/979	20,064	1.5	904.5	904.5	904.9	0.4
AT	49.818	2,394/314	31,878	2.1	905.0	905.0	905.3	0.3
AU	50.687	1,103/295	18,582	3.2	905.3	905.3	905.7	0.4
AV	51.735	1,128/908	16,200	1.5	906.1	906.1	906.4	0.3
AW	52.323	855/229	16,054	1.6	906.6	906.6	906.8	0.2
AX	53.790	1,523/1,274	20,764	1.3	907.6	907.6	907.8	0.2
AY	54.818	1,045/811	16,205	1.5	<b>↑</b> 907.6	907.6	908.3	0.7
AZ	55.384	1,096/163	17,436	1.4	908.0	908.0	908.6	0.6
BA	56.301	3,080/2,879	28,075	0.9	908.5	908.5	909.2	0.7
BB	57.109	1,721/250	20,888	1.2	908.8	908.8	909.5	0.7
BC	58.710	2,570/261	29,052	0.9	909.5	909.5	910.2	0.7
BD	59.435	3,599/3,389	34,989	0.7	909.7	p909.7	910.4	0.7
BE	60.179	3,261/948	38,459	0.7	909.9	909.9	910.6	0.7
BF	61.095	3,280/1,792	29,505	0.9	910.1	910.1	910.8	0.7
BG	62.034	4,715/1,813	29,978	0.5	910.3	910.3	911.0	0.7
ВН	62.810	3,800/1,141	25,239	0.6	910.4	910.4	911.1	0.7
<sup>1</sup> Miles above county boundary REVISED DATA					VISED DATA			

**TABLE** 

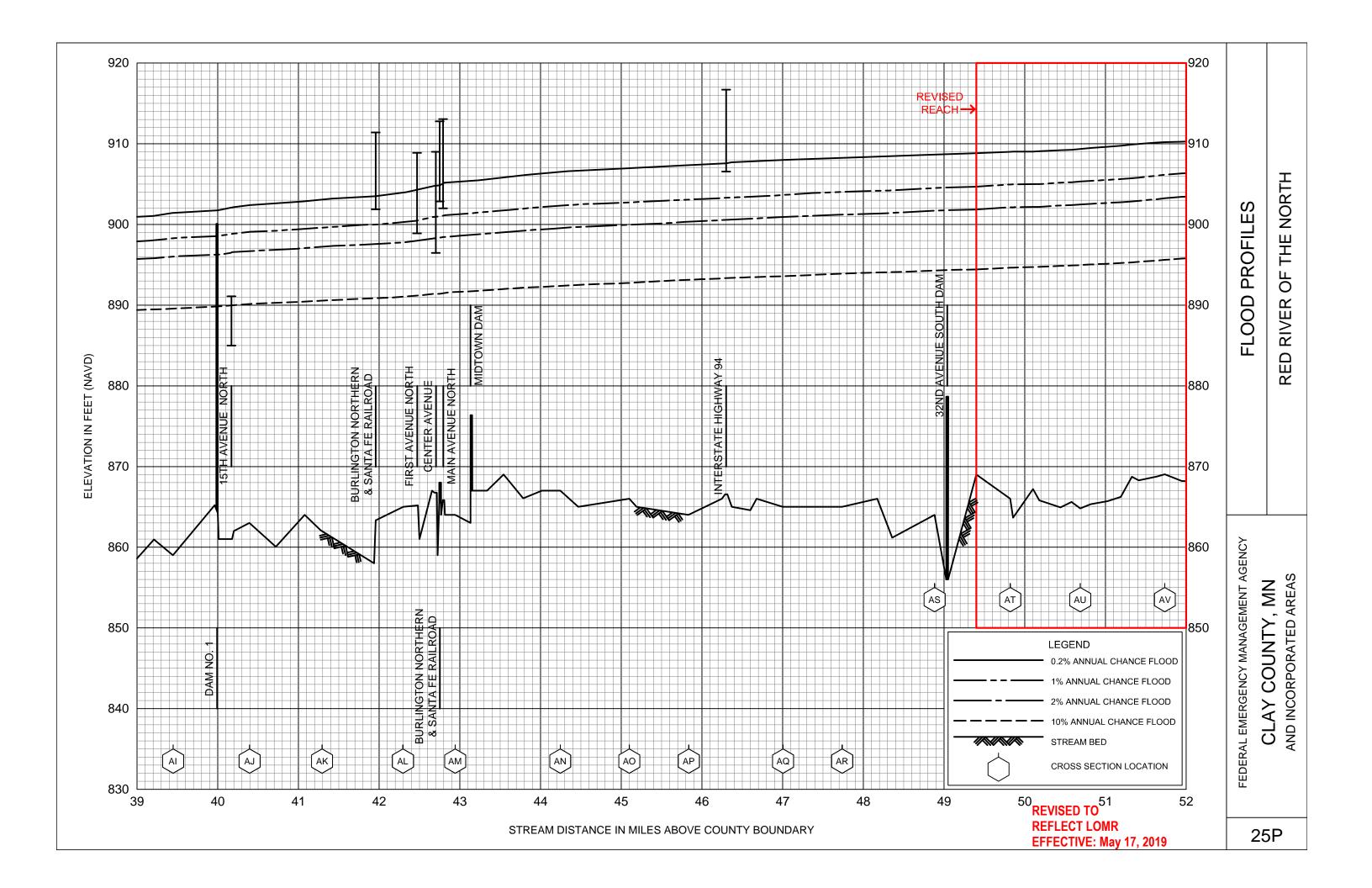
FEDERAL EMERGENCY MANAGEMENT AGENCY

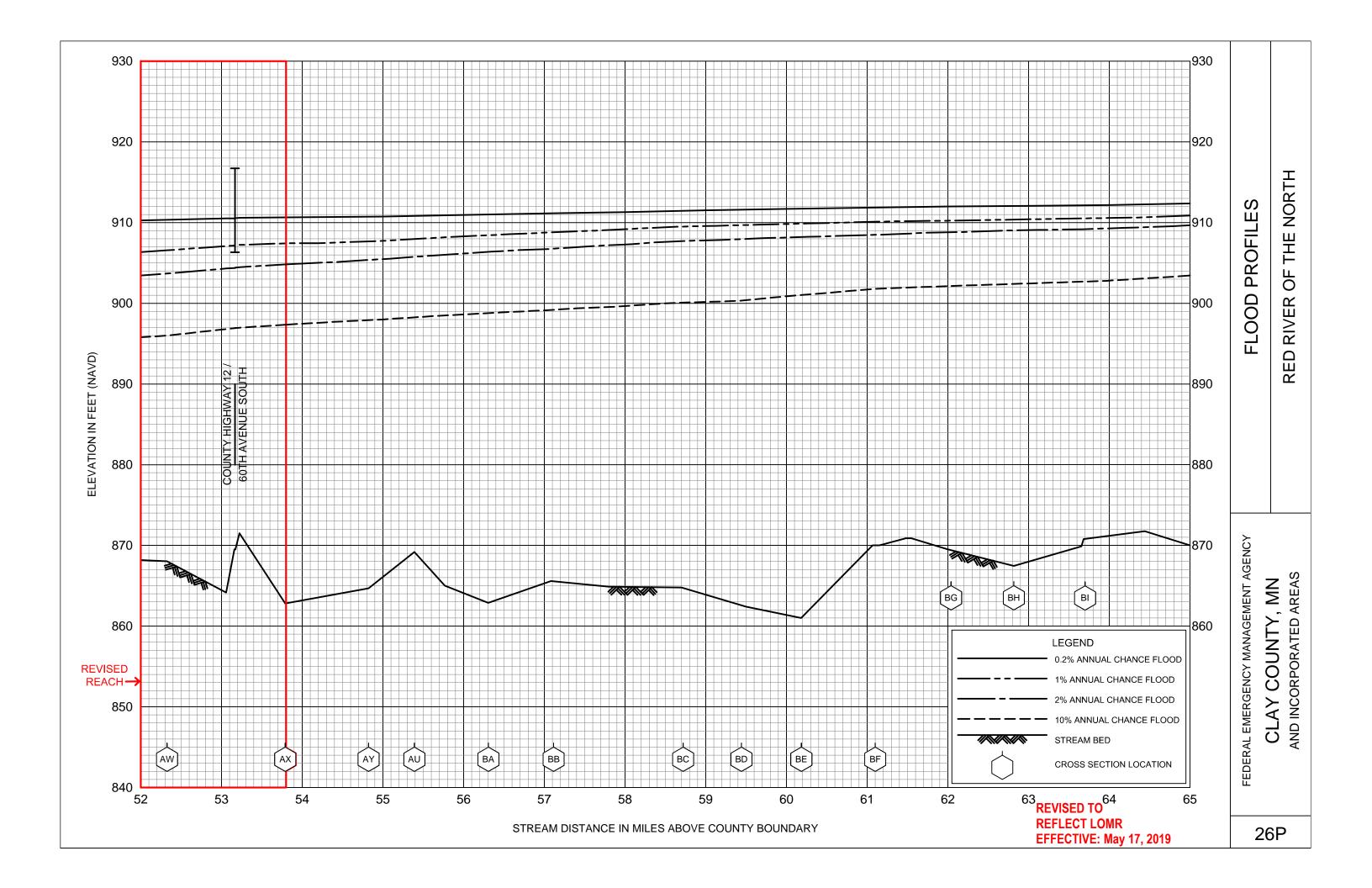
**CLAY COUNTY, MN** AND INCORPORATED AREAS **REVISED TO** REFLECT LOMR

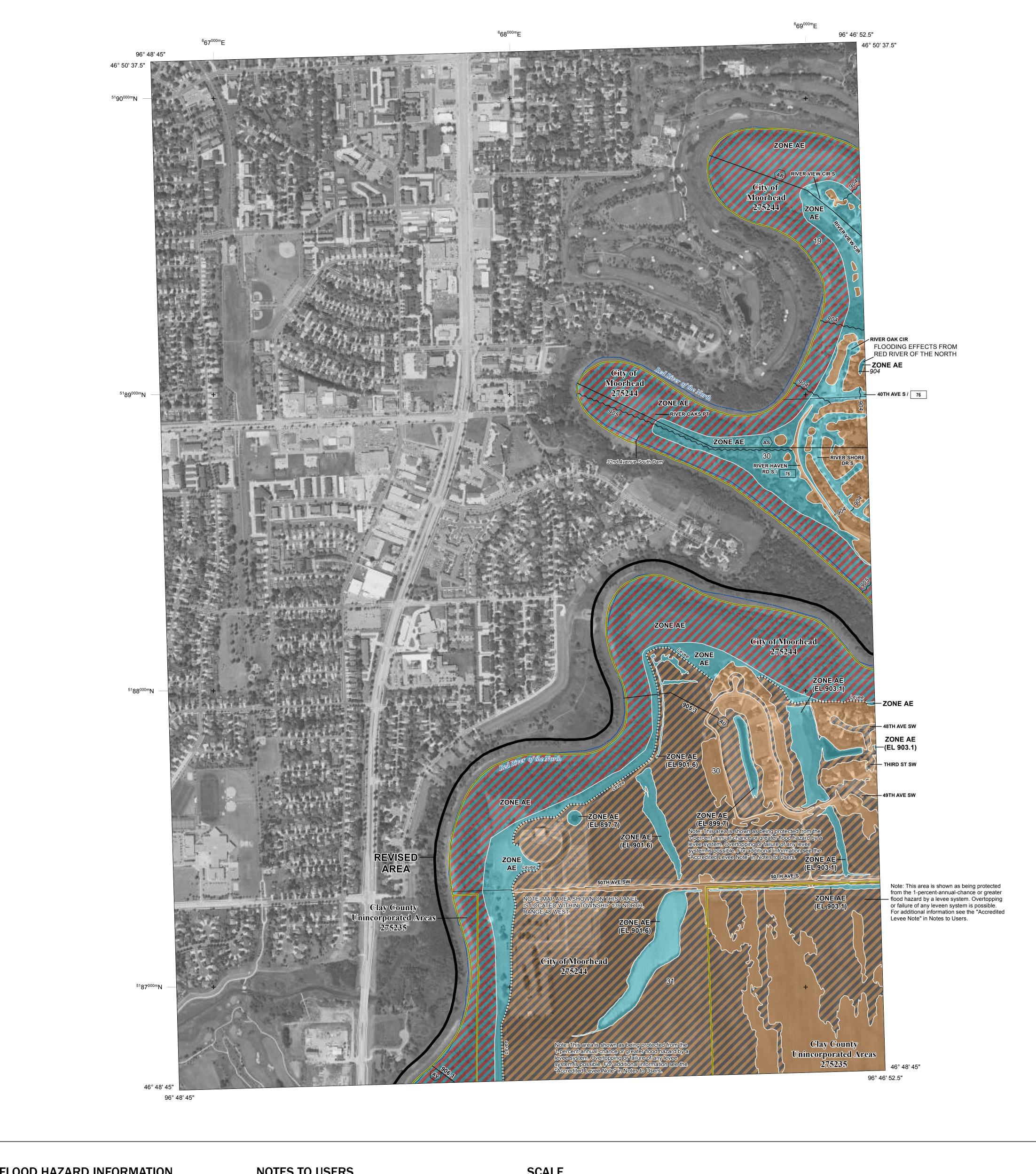
FLOODWAY DATA EFFECTIVE: May 17, 2019

**RED RIVER OF THE NORTH** 

Miles above county boundaryTotal width/Width within county

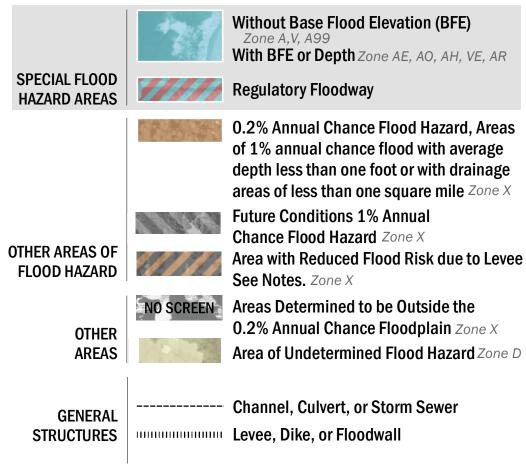






## FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR ZONE DESCRIPTIONS AND INDEX MAP THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING **DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT** HTTP://MSC.FEMA.GOV



# Area with Reduced Flood Risk due to Levee

18.2 Cross Sections with 1% Annual Chance

OTHER

**FEATURES** 

17.5 Water Surface Elevation (BFE) **Coastal Transect Coastal Transect Baseline** —- Profile Baseline Hydrographic Feature ----- 513 ---- Base Flood Elevation Line (BFE) Limit of Study

**Jurisdiction Boundary** 

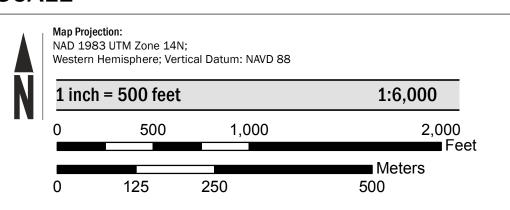
## **NOTES TO USERS**

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

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Map Service Center at the number listed above. For community and countywide map dates refer to the Flood Insurance Study report for this jurisdiction. To determine if flood insurance is available in the community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was derived from aerial photography produced for Clay County dated 2005 at a scale of 1:12,000 and aerial photography produced for USDA dated 2004 at a scale of 1:12,000. ACCREDITED LEVEE: Check with your local community to obtain more information, such as the estimated level of protection provided for areas on this panel. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodprofing or other protective measures. For more information on flood insurance, interested parties should visit http://www.fema.gov/national-flood-insurance-program.

## **SCALE**



# **PANEL LOCATOR**

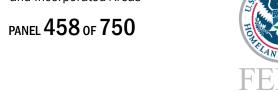


NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP

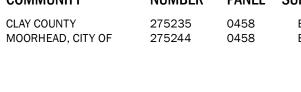
**CLAY COUNTY, MINNESOTA** and Incorporated Areas

FEMA

National Flood Insurance Program



Panel Contains: COMMUNITY NUMBER PANEL SUFFIX



**REVISED TO REFLECT LOMR EFFECTIVE: May 17, 2019** 

> **VERSION NUMBER** 2.1.3.0 **MAP NUMBER** 27027C0458E **EFFECTIVE DATE APRIL 17, 2012**

