



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 Grafton Walsh County North Dakota	BRIDGE CHANNELIZATION CULVERT FILL LEVEE WEIR STRUCTURE	BASE MAP CHANGES FLOODWAY 1D HYDRAULIC ANALYSIS 2D HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS LEVEE CERTIFICATION UPDATED TOPOGRAPHIC DATA
	COMMUNITY NO.: 380137		
IDENTIFIER	Grafton Flood Risk Reduction Project	APPROXIMATE LATITUDE AND LONGITUDE: 48.425, -97.407 SOURCE: Other DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM*	NO.: 38099C0437D DATE: November 2, 2012	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: November 2, 2012 PROFILES: 04P-07P, 22P FLOODWAY DATA TABLE: 3 SUMMARY OF DISCHARGES TABLE: 2	
TYPE: FIRM	NO.: 38099C0441D DATE: November 2, 2012		
TYPE: FIRM	NO.: 38099C0442D DATE: November 2, 2012		
TYPE: FIRM	NO.: 38099C0443D DATE: November 2, 2012		
TYPE: FIRM	NO.: 38099C0444D DATE: November 2, 2012		
TYPE: FIRM	NO.: 38099C0461D DATE: November 2, 2012		
TYPE: FIRM	NO.: 38099C0463D DATE: November 2, 2012		

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map

FLOODING SOURCES AND REVISED REACHES

See Page 2 for Additional Flooding Sources

Park River - from approximately 2,010 feet downstream of the confluence of Bypass Channel to approximately 110 feet upstream of 148th Avenue NE

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Park River	BFEs*	BFEs	NONE	YES
	Floodway	Floodway	YES	YES
	Zone AE	Zone AE	YES	YES
	Zone X (shaded)	Zone X (shaded)	YES	YES

* 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 Mapping and Insurance 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 <https://www.fema.gov/flood-insurance>.

Patrick "Rick" F. Sacibit, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration



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

OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCES AND REVISED REACHES

McLeod Drain - from the confluence with Park River to the downstream side of County Road 6
Southern Interior Ditch - from the confluence with Fair Oaks Ditch to approximately 750 feet upstream of 147th Avenue
Unnamed Interior Drainage - from the downstream to the upstream extents of the Grafton Flood Control system

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
McLeod Drain	No BFEs	BFEs	YES	NONE
	Zone AE	Zone AE	YES	YES
	Zone A	Zone A	NONE	YES
Southern Interior Ditch	No BFEs	BFEs	YES	NONE
	Zone AE	Zone AE	YES	YES
Unnamed Interior Drainage	Zone AE	Zone AE	YES	YES
	Zone A	Zone AE	YES	YES
	Zone X (shaded)	Zone AE	YES	NONE
	No BFEs	BFEs	YES	NONE

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

OTHER COMMUNITIES AFFECTED BY THIS REVISION

CID Number: 380302 **Name:** Township of Grafton, North Dakota

AFFECTED MAP PANELS			AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT
TYPE: FIRM	NO.: 38099C0430D	DATE: November 2, 2012	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: November 2, 2012 PROFILES: 07P, 07P(a), 22P, AND 23P FLOODWAY DATA TABLE: 3 SUMMARY OF DISCHARGES TABLE: 2
TYPE: FIRM	NO.: 38099C0433D	DATE: November 2, 2012	
TYPE: FIRM	NO.: 38099C0434D	DATE: November 2, 2012	
TYPE: FIRM	NO.: 38099C0437D	DATE: November 2, 2012	
TYPE: FIRM	NO.: 38099C0439D	DATE: November 2, 2012	
TYPE: FIRM	NO.: 38099C0440D	DATE: November 2, 2012	
TYPE: FIRM	NO.: 38099C0441D	DATE: November 2, 2012	
TYPE: FIRM	NO.: 38099C0442D	DATE: November 2, 2012	
TYPE: FIRM	NO.: 38099C0443D	DATE: November 2, 2012	
TYPE: FIRM	NO.: 38099C0444D	DATE: November 2, 2012	

CID Number: 380303 **Name:** Township of Oakwood, North Dakota

AFFECTED MAP PANELS			AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT
TYPE: FIRM	NO.: 38099C0442D	DATE: November 2, 2012	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: November 2, 2012 PROFILES: 04P, 05P, 21P, 22P, AND 24P FLOODWAY DATA TABLE: 3 SUMMARY OF DISCHARGES TABLE: 2
TYPE: FIRM	NO.: 38099C0444D	DATE: November 2, 2012	
TYPE: FIRM	NO.: 38099C0461D	DATE: November 2, 2012	
TYPE: FIRM	NO.: 38099C0463D	DATE: November 2, 2012	
TYPE: FIRM	NO.: 38099C0475D	DATE: November 2, 2012	

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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.

NFIP regulations Subparagraph 60.3(b)(7) requires communities to ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management ordinances; therefore, responsibility for maintenance of the altered or relocated watercourse, including any related appurtenances such as bridges, culverts, and other drainage structures, rests with your community. We may request that your community submit a description and schedule of maintenance activities necessary to ensure this requirement.

COMMUNITY REMINDERS

We based this determination on the base (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 Mapping and Insurance 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 <https://www.fema.gov/flood-insurance>.

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Patrick "Rick" F. Sacibit, P.E., Branch Chief
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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

This revision has met our criteria for removing an area from the 1-percent-annual-chance floodplain to reflect the placement of fill. However, we encourage you to require that the lowest adjacent grade and lowest floor (including basement) of any structure placed within the subject area be elevated to or above the Base (1-percent-annual-chance) Flood Elevation.

This revision involves an accredited levee system. Your community is responsible for maintaining and disseminating information, such as the estimated level of protection provided (which may exceed the base level) and Emergency Action Plan, for the levee system(s) shown as providing protection. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and flood proofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA Website at <https://www.fema.gov/flood-insurance>.

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:

Jeanine D. Petterson
Director, Mitigation Division
Federal Emergency Management Agency, Region VIII
Denver Federal Center, Building 710
P.O. Box 25267
Denver, CO 80225-0267
(303) 235 4830

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 Mapping and Insurance 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 <https://www.fema.gov/flood-insurance>.

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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: *The Walsh County Record*

Dates: September 14, 2022 and September 21, 2022

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 Mapping and Insurance 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 <https://www.fema.gov/flood-insurance>.

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Engineering Services Branch
Federal Insurance and Mitigation Administration

Table 2 - Summary of Discharges

	<u>Flooding Source and Location</u>	<u>Drainage Area (Square Miles)</u>	<u>10-Percent Annual Chance</u>	<u>Peak Discharges (cfs)</u>		
				<u>2-Percent Annual Chance</u>	<u>1-Percent Annual Chance</u>	<u>0.2-Percent Annual Chance</u>
REVISED DATA	Drain 87 At the confluence with McLeod Drain	*	*	*	1,113	1,130
	Forest River At Minto	740	2,700	7,600	10,800	23,000
	At Soo Line Railroad (near City of Forest River)	487	3,460	7,240	9,630	15,000
REVISED DATA	McLeod Drain Downstream of the confluence of Drain 87	*	*	*	1,426	1,467
	Upstream of the confluence of Drain 87	*	*	*	312	337
	Park River Approximately 1.3 mi downstream of the City of Grafton Limits	*	*	*	3,754	3,754 ¹
	At Burgamott Avenue	*	*	*	2,412	2,412 ¹
	At Wakeman Avenue	*	*	*	2,270	2,270 ¹
	At Highway 81	*	*	*	2,057	2,057 ¹
	Approximately 0.8 mi upstream of Highway 81	*	*	*	2,000	2,000 ¹
	Red River of the North Downstream Walsh County Corporate Limits	26,085	50,600	91,200	112,000	169,000
	Railroad at Olso MN	22,520	48,408	88,490	108,990	162,960
	Tributary 1 Downstream Study Limit	2.01	114	191	230	330
Immediately Above Confluence w/ a Small Tributary Near Western Edge of City	1.40	91	153	184	265	
REVISED DATA	Tributary 3 Downstream Study Limit	1.92	110	186	223	320
	Immediately Above Confluence w/ a Small Stream in the Northeast Quarter of Section 32	1.50	95	159	192	274
	* Data Not Available					
¹ 0.2-percent flood discharge equivalent to 1-percent flood discharge due to levee system						

REVISED TO
REFLECT LOMR
EFFECTIVE: January 19, 2023

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 NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
PARK RIVER								
A	-2,884	821	6,310	0.9	820.9	820.9	821.9	1.0
B	659	134	1,454	2.6	821.3	821.3	822.2	0.9
C	1,627	173	1,580	2.3	821.4	821.4	822.4	1.0
D	3,000	101	1,358	2.7	821.7	821.7	822.6	0.9
E	5,428	113	1,329	2.2	822.2	822.2	823.0	0.8
F	6,345	85	1,025	2.4	822.4	822.4	823.4	1.0
G	7,281	91	1,043	2.3	822.6	822.6	823.6	1.0
H	9,040	96	1,046	2.3	822.8	822.8	823.8	1.0
I	10,246	126	1,174	2.0	823.0	823.0	824.0	1.0
J	10,877	78	1,058	2.2	823.2	823.2	824.1	0.9
K	12,215	82	1,041	2.2	823.4	823.4	824.3	0.9
L	12,945	120	1,219	1.8	823.9	823.9	824.6	0.7
M	13,170	128	1,149	1.9	824.2	824.2	824.8	0.6
N	13,313	82	1,037	2.0	824.2	824.2	824.9	0.7
O	16,673	89	926	2.2	825.0	825.0	825.5	0.5
P	20,464	105	939	2.1	825.7	825.7	826.1	0.4
Q	23,287	80	904	2.2	826.4	826.4	826.8	0.4
R	24,752	113	1,041	3.0	826.7	826.7	827.0	0.3

¹ Stream distance in feet above City of Grafton Limits

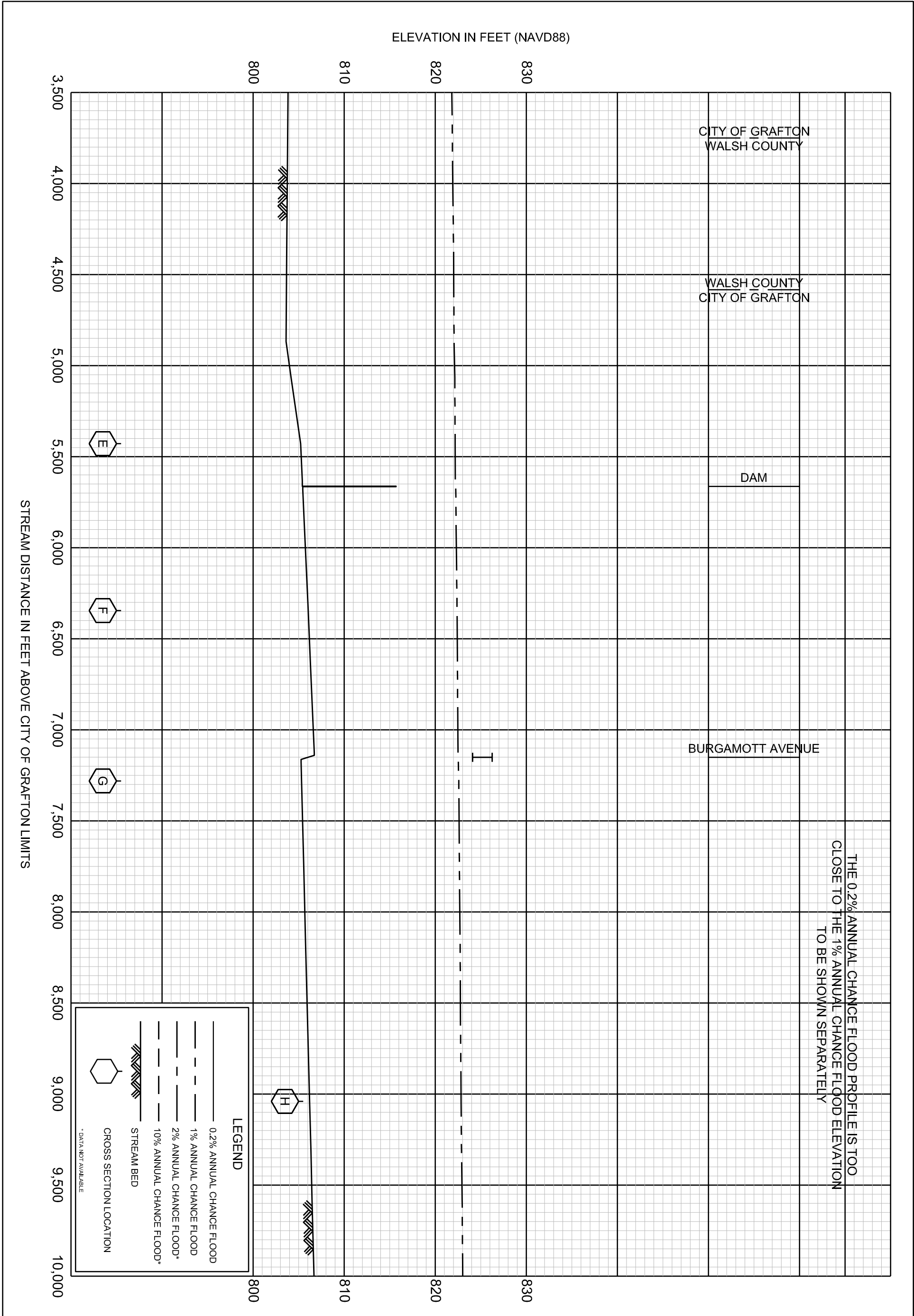
TABLE 3

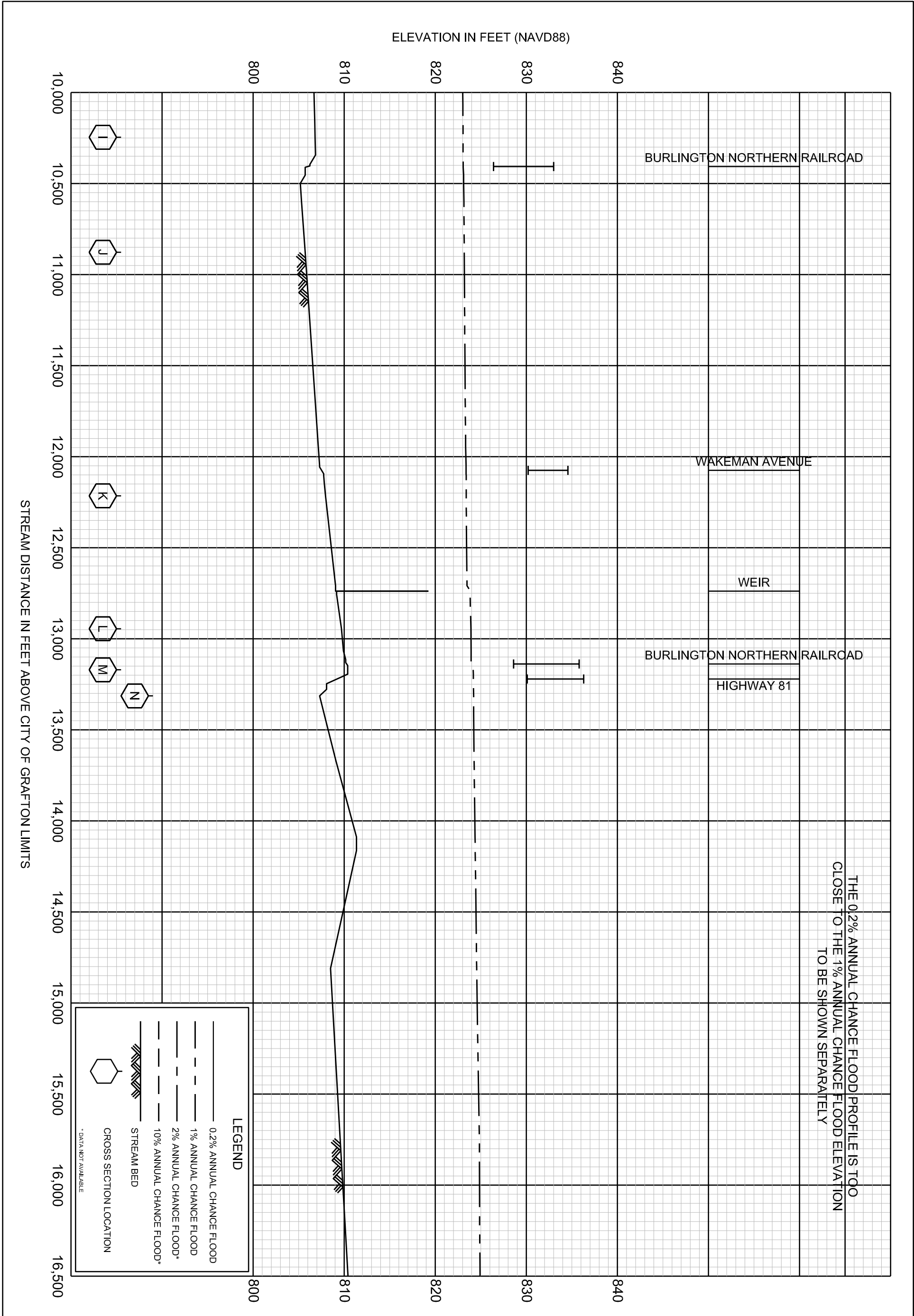
FEDERAL EMERGENCY MANAGEMENT AGENCY
WALSH COUNTY, ND
AND INCORPORATED AREAS

FLOODWAY DATA

REVISED TO
REFLECT LOMR
EFFECTIVE: January 19, 2023

PARK RIVER

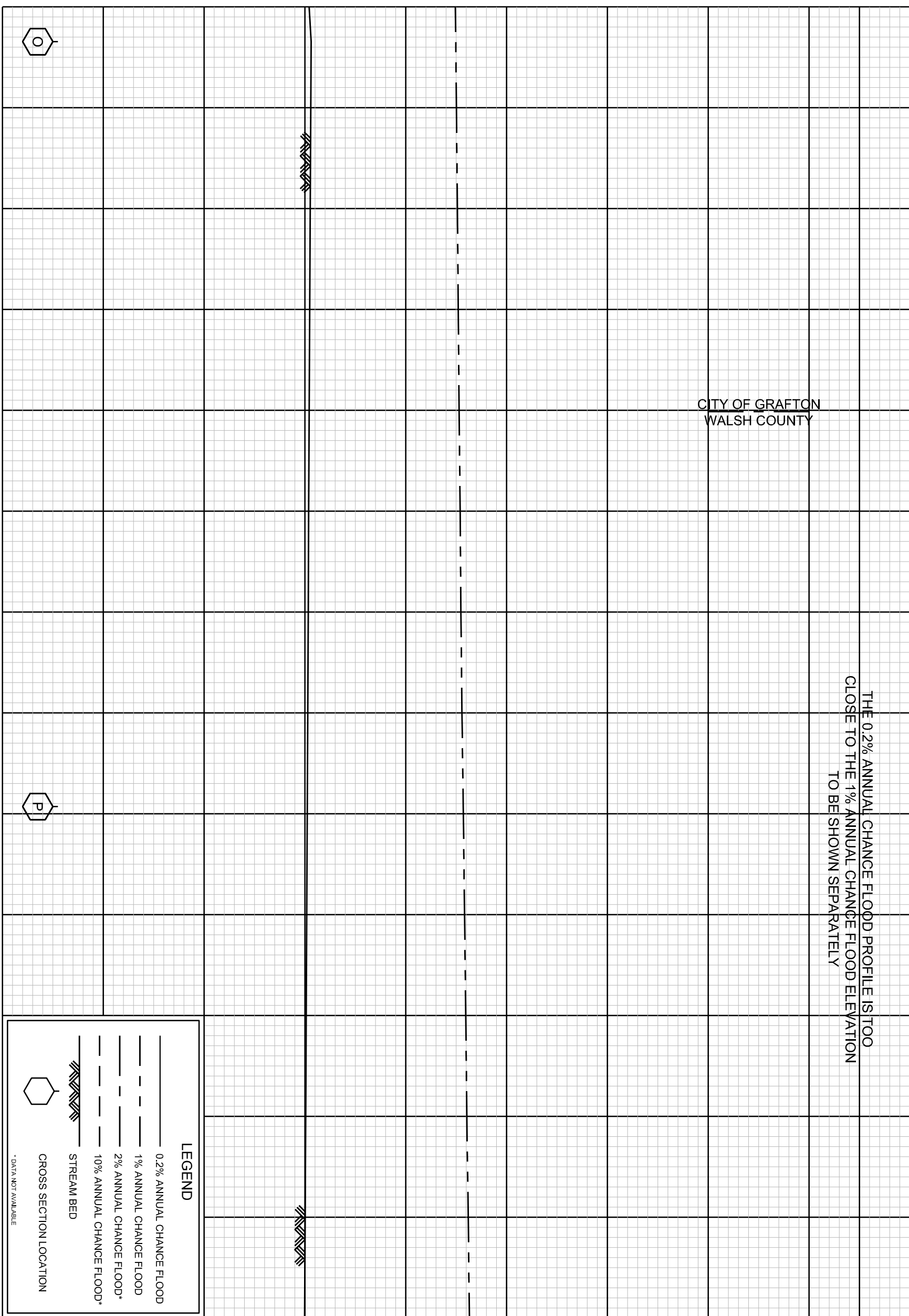




ELEVATION IN FEET (NAVD88)

16,500 17,000 17,500 18,000 18,500 19,000 19,500 20,000 20,500 21,000 21,500 22,000 22,500 23,000

800 810 820 830



CITY OF GRAFTON
WALSH COUNTY

THE 0.2% ANNUAL CHANCE FLOOD PROFILE IS TOO
CLOSE TO THE 1% ANNUAL CHANCE FLOOD ELEVATION
TO BE SHOWN SEPARATELY

LEGEND

- 0.2% ANNUAL CHANCE FLOOD
- 1% ANNUAL CHANCE FLOOD
- 2% ANNUAL CHANCE FLOOD*
- 10% ANNUAL CHANCE FLOOD*
- STREAM BED
- CROSS SECTION LOCATION

* DATA NOT AVAILABLE

STREAM DISTANCE IN FEET ABOVE CITY OF GRAFTON LIMITS

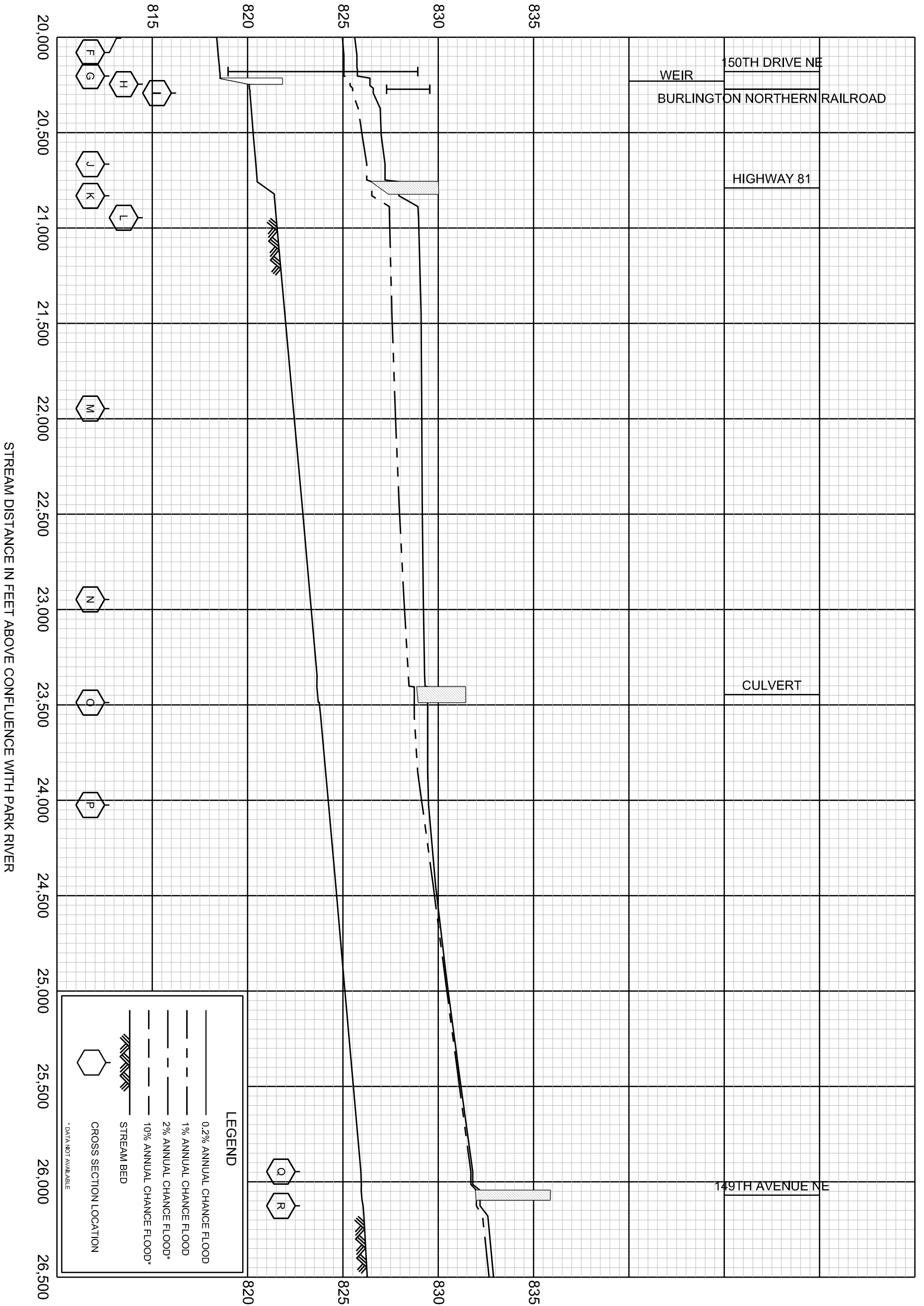
FEDERAL EMERGENCY MANAGEMENT AGENCY
WALSH COUNTY, ND
AND INCORPORATED AREAS

FLOOD PROFILES
PARK RIVER

REVISED TO
REFLECT LOMR
EFFECTIVE: January 19, 2023

07P

ELEVATION IN FEET (NAVD88)



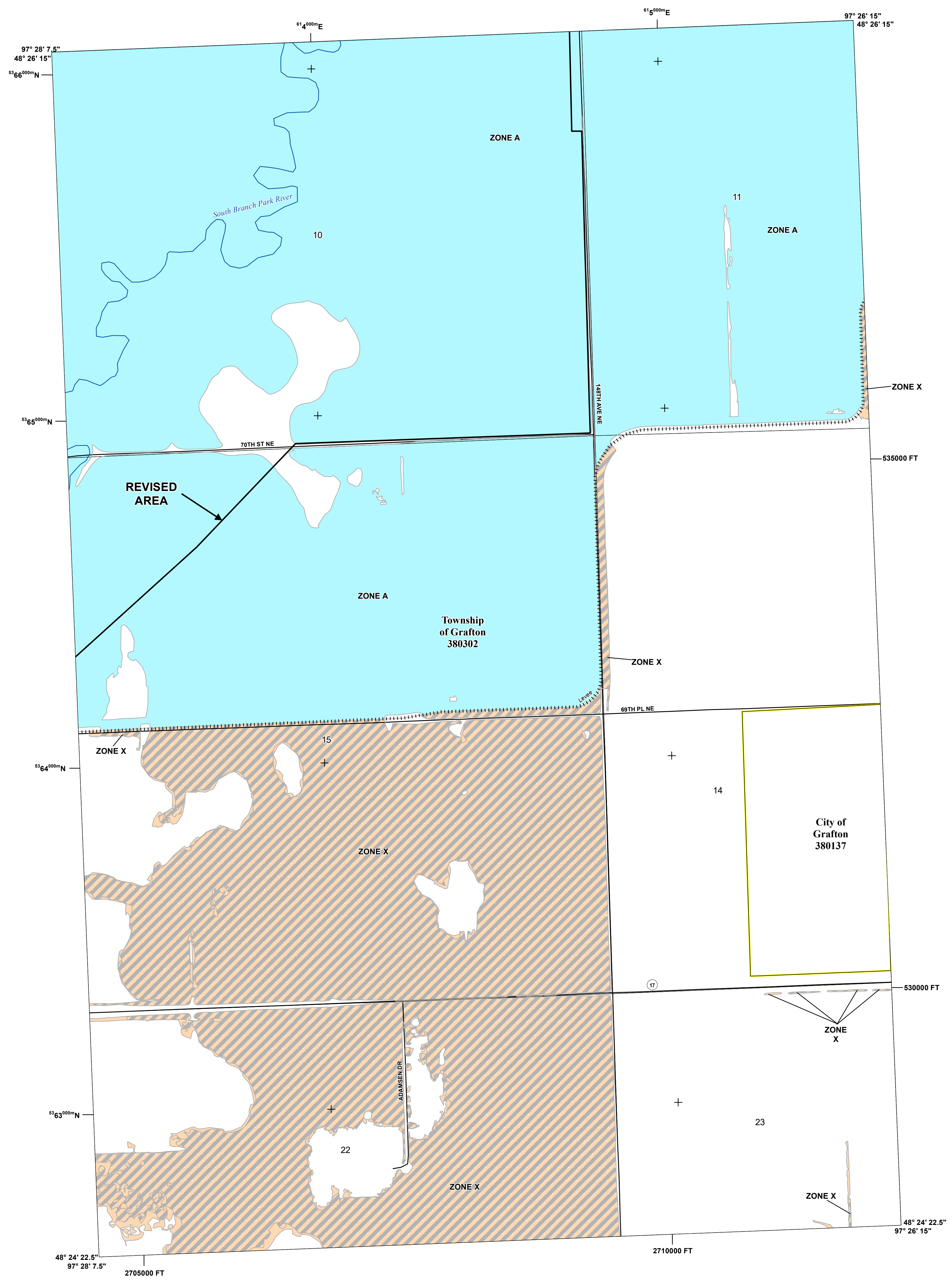
FEDERAL EMERGENCY MANAGEMENT AGENCY

WALSH COUNTY, ND
AND INCORPORATED AREAS

FLOOD PROFILES

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EFFECTIVE: January 19, 2023

MCLEOD DRAIN



NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 157 NORTH AND RANGE 53 WEST.

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
 THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT [HTTP://MSC.FEMA.GOV](http://msc.fema.gov)

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		Area of Minimal Flood Hazard Zone X
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
OTHER FEATURES		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary

NOTES TO USERS

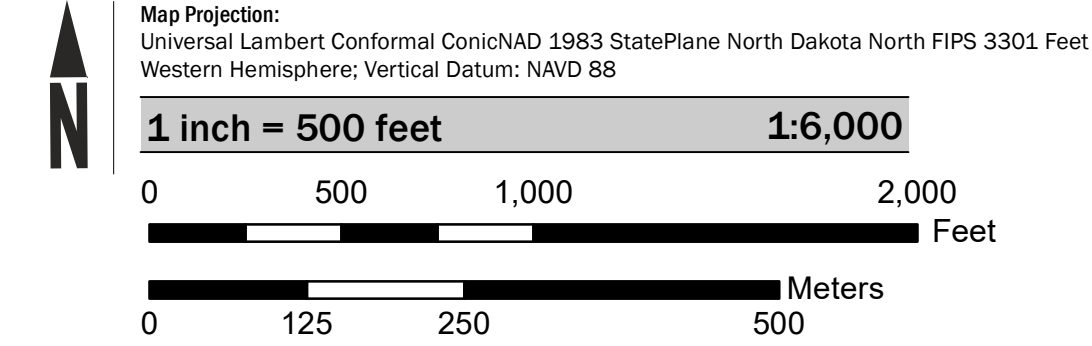
For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Mapping and Insurance eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood 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.

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 Flood Map Service Center at the number listed above.

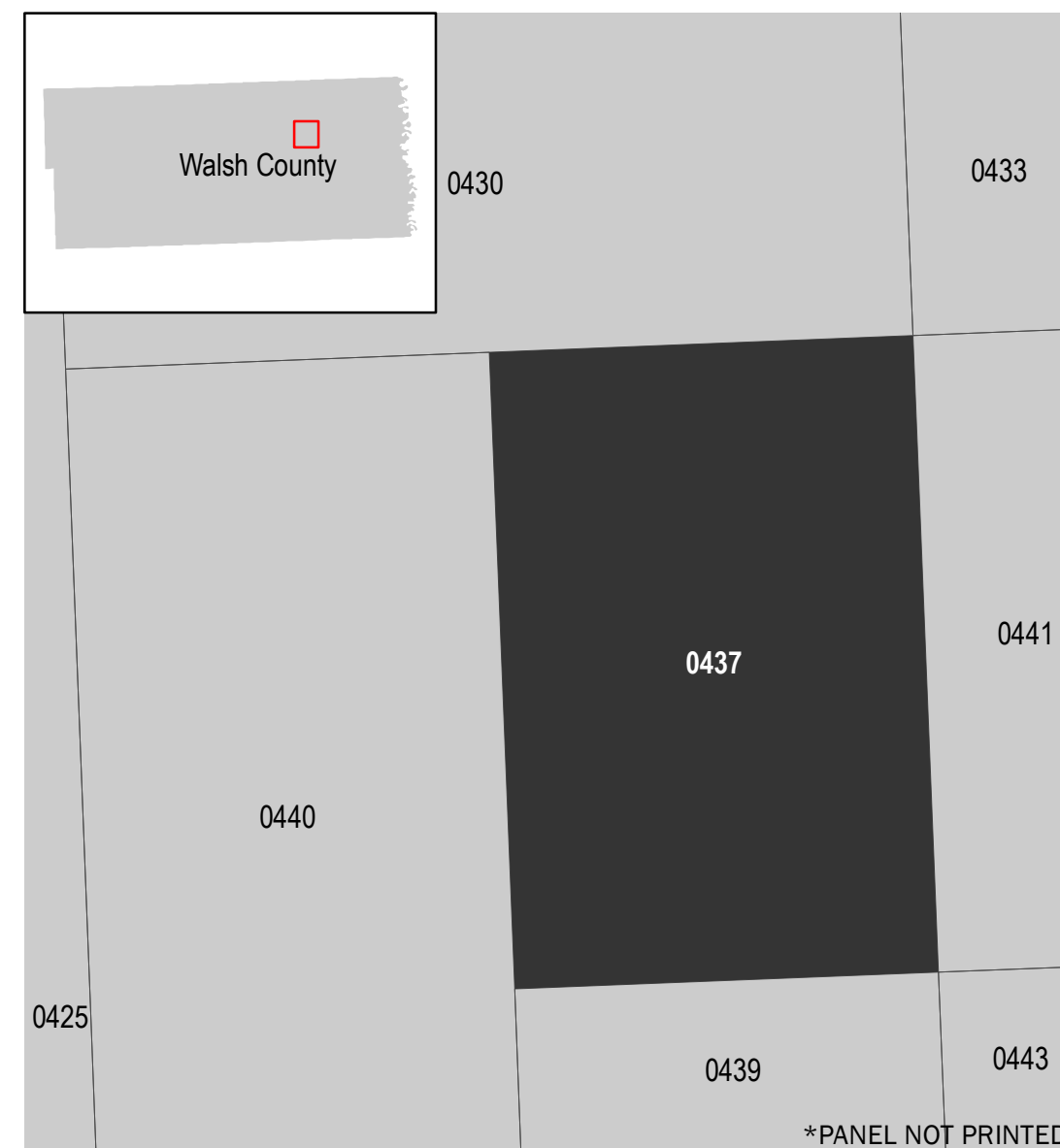
To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

ACCREDITED LEVEE: Check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection for areas on this panel. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing 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



FEMA

National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

WALSH COUNTY, NORTH DAKOTA
and Incorporated Areas

PANEL 437 of 1075

Panel Contains:

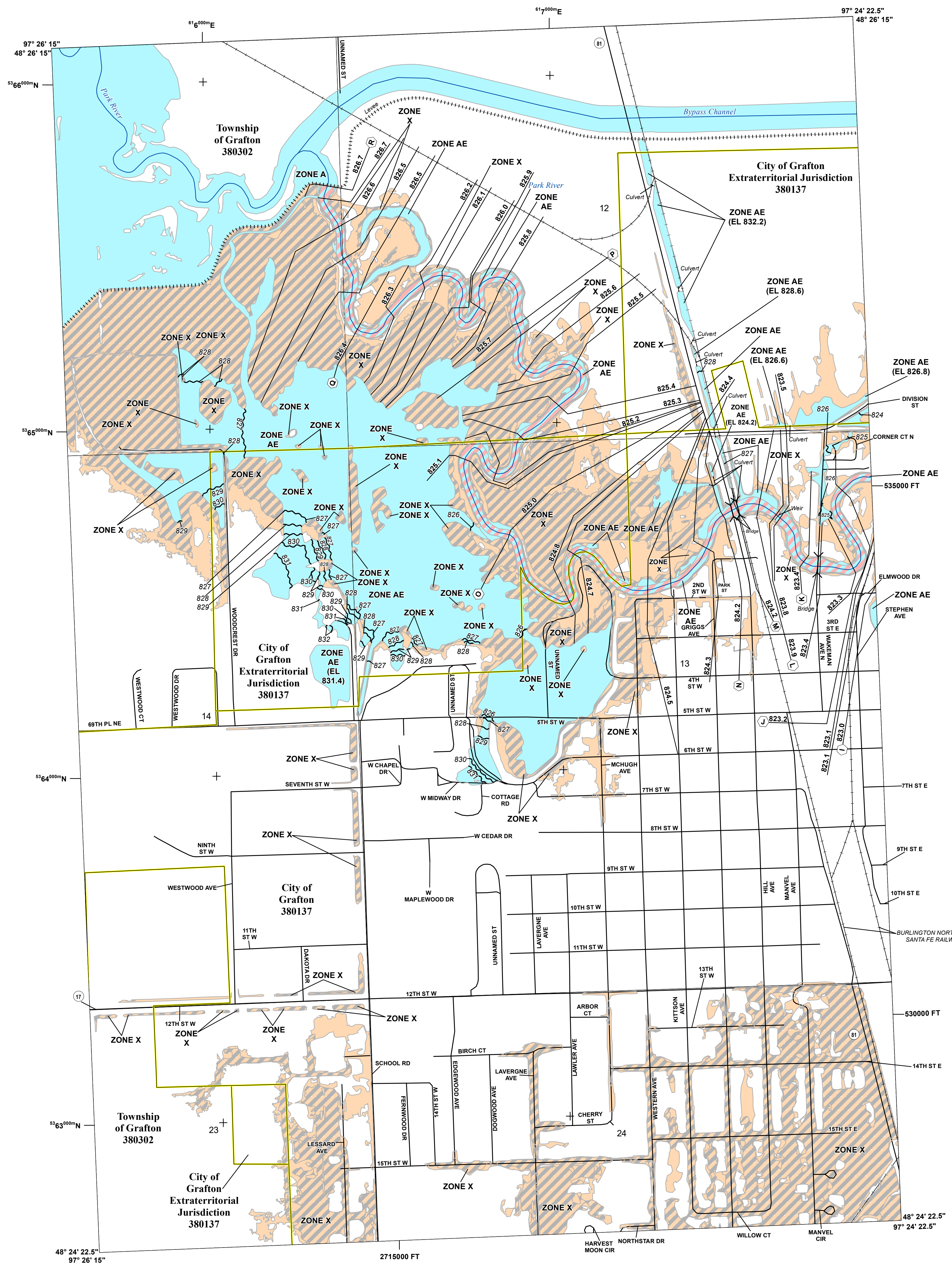
COMMUNITY	NUMBER	PANEL	SUFFIX
GRAFTON, CITY OF	380137	0437	D
GRAFTON, TOWNSHIP OF	380302	0437	D

REVISED TO REFLECT LOMR EFFECTIVE: January 19, 2023

VERSION NUMBER
1.1.1.0

MAP NUMBER
38099C0437D

EFFECTIVE DATE
NOVEMBER 2, 2012



NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 157 NORTH AND RANGE 53 WEST.

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[HTTP://MSC.FEMA.GOV](http://MSC.FEMA.GOV)

	Without Base Flood Elevation (BFE) Zone A, V, A99
	With BFE or Depth Zone AE, AO, AH, VE, AR
	Regulatory Floodway
	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
	Future Conditions 1% Annual Chance Flood Hazard Zone X
	Area with Reduced Flood Risk due to Levee See Notes. Zone X
	Area with Flood Risk due to Levee Zone D
	NO SCREEN Area of Minimal Flood Hazard Zone X
	Area of Undetermined Flood Hazard Zone D
	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall
	18.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
	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 Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Mapping and Insurance eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood 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.

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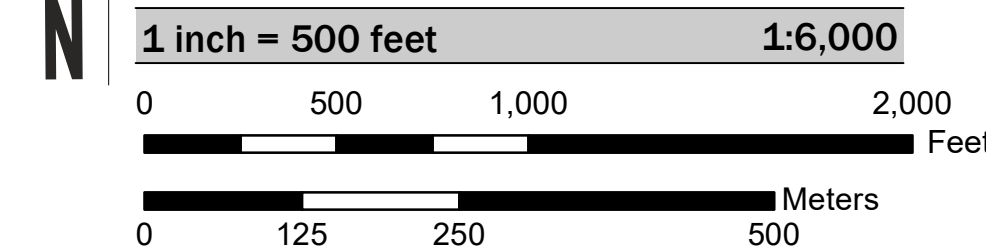
For community and countywide map dates refer to the Flood Insurance Study Report for this jurisdiction. To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was derived from U.S. Census Bureau TIGER files, dated 2010, and digital data provided by Flood County Geospatial Coordinator, dated 2010.

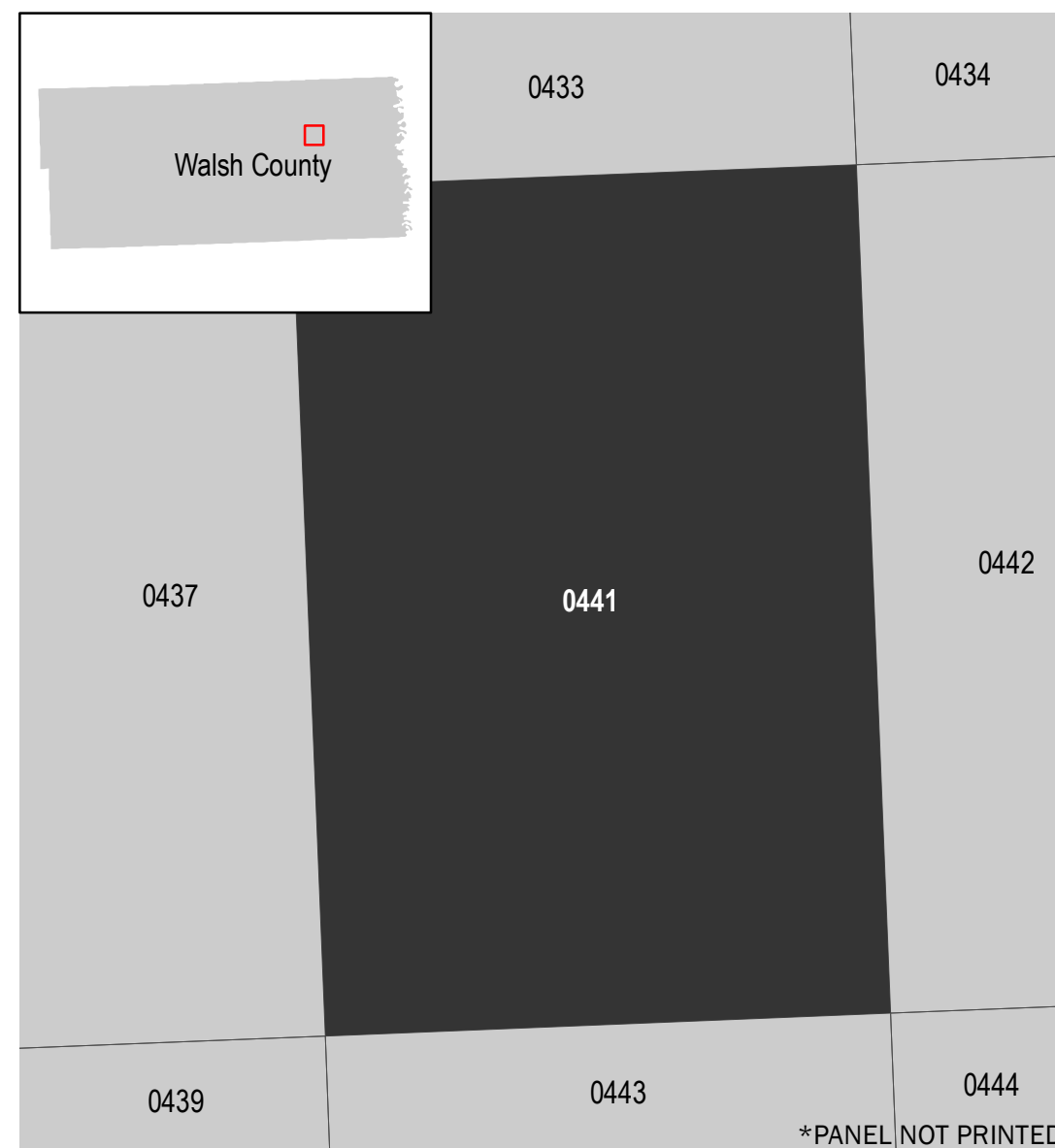
ACCREDITED LEVEE: Check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection for areas on this panel. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit <http://www.fema.gov/national-flood-insurance-program>.

SCALE

Map Projection: Universal Lambert Conformal Conic NAD 1983 StatePlane North Dakota North FIPS 3301 Feet
 Western Hemisphere; Vertical Datum: NAVD 88



PANEL LOCATOR



National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
 FLOOD INSURANCE RATE MAP
 WALSH COUNTY, NORTH DAKOTA
 and Incorporated Areas

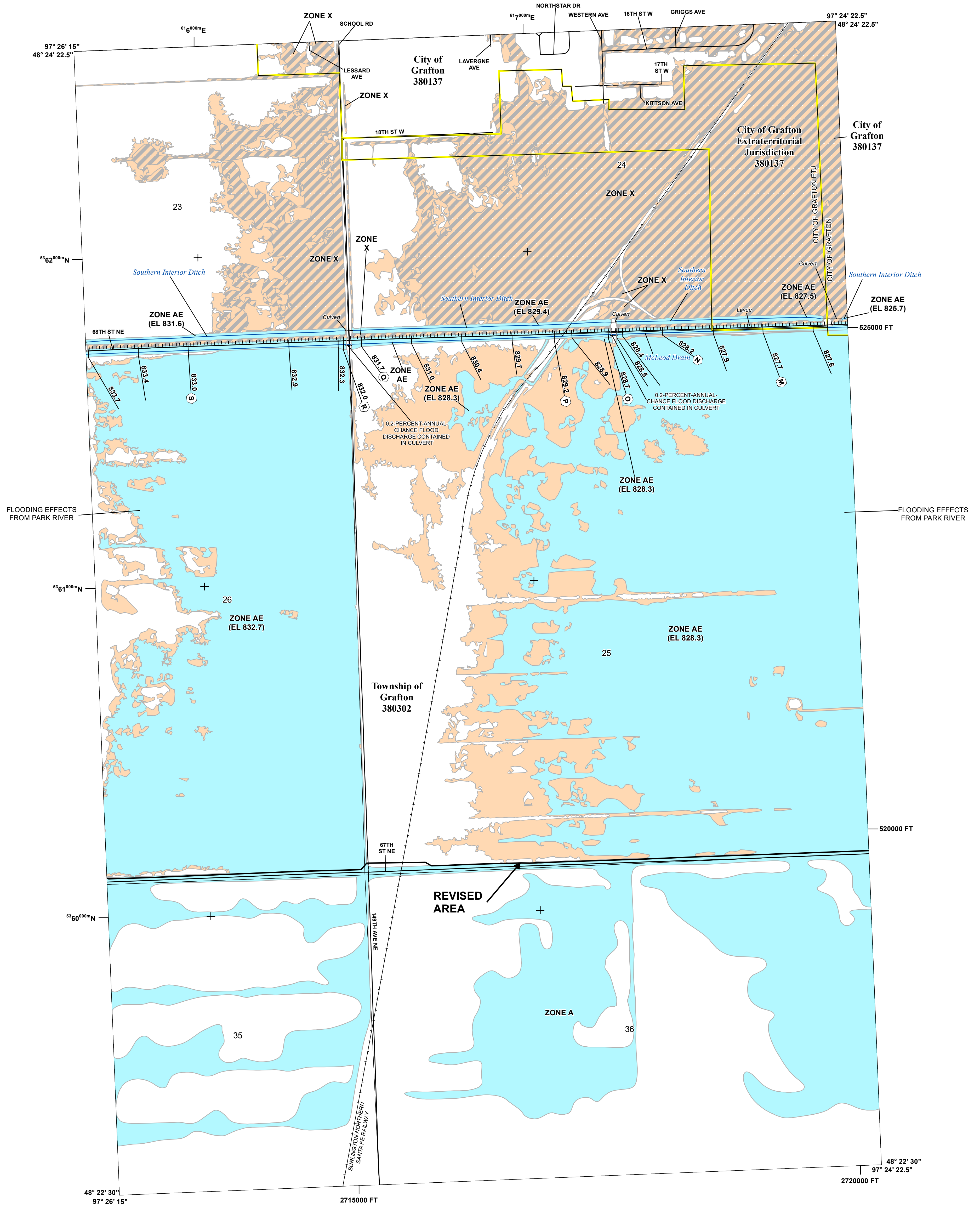
PANEL 441 of 1075

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
GRAFTON, CITY OF	380137	0441	D
GRAFTON, TOWNSHIP OF	380302	0441	D

REVISED TO REFLECT LOMR EFFECTIVE: January 19, 2023

VERSION NUMBER
1.1.1.0
 MAP NUMBER
3809C0441D
 EFFECTIVE DATE
NOVEMBER 2, 2012



NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 157 NORTH AND RANGE 53 WEST.

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
 THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT [HTTP://MSC.FEMA.GOV](http://MSC.FEMA.GOV)

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		Area of Minimal Flood Hazard Zone X
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Base Flood Elevation Line (BFE)
OTHER FEATURES		Limit of Study
		Jurisdiction Boundary

NOTES TO USERS

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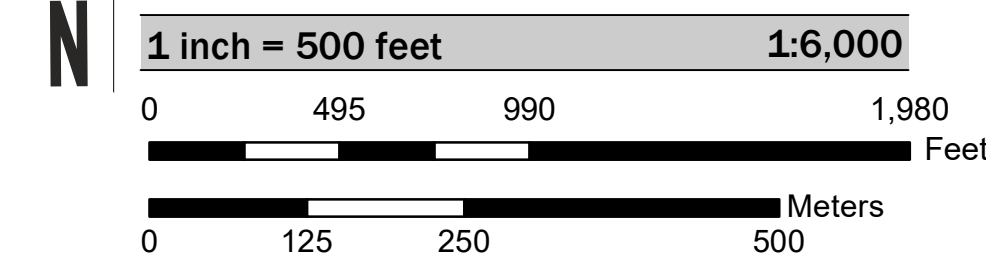
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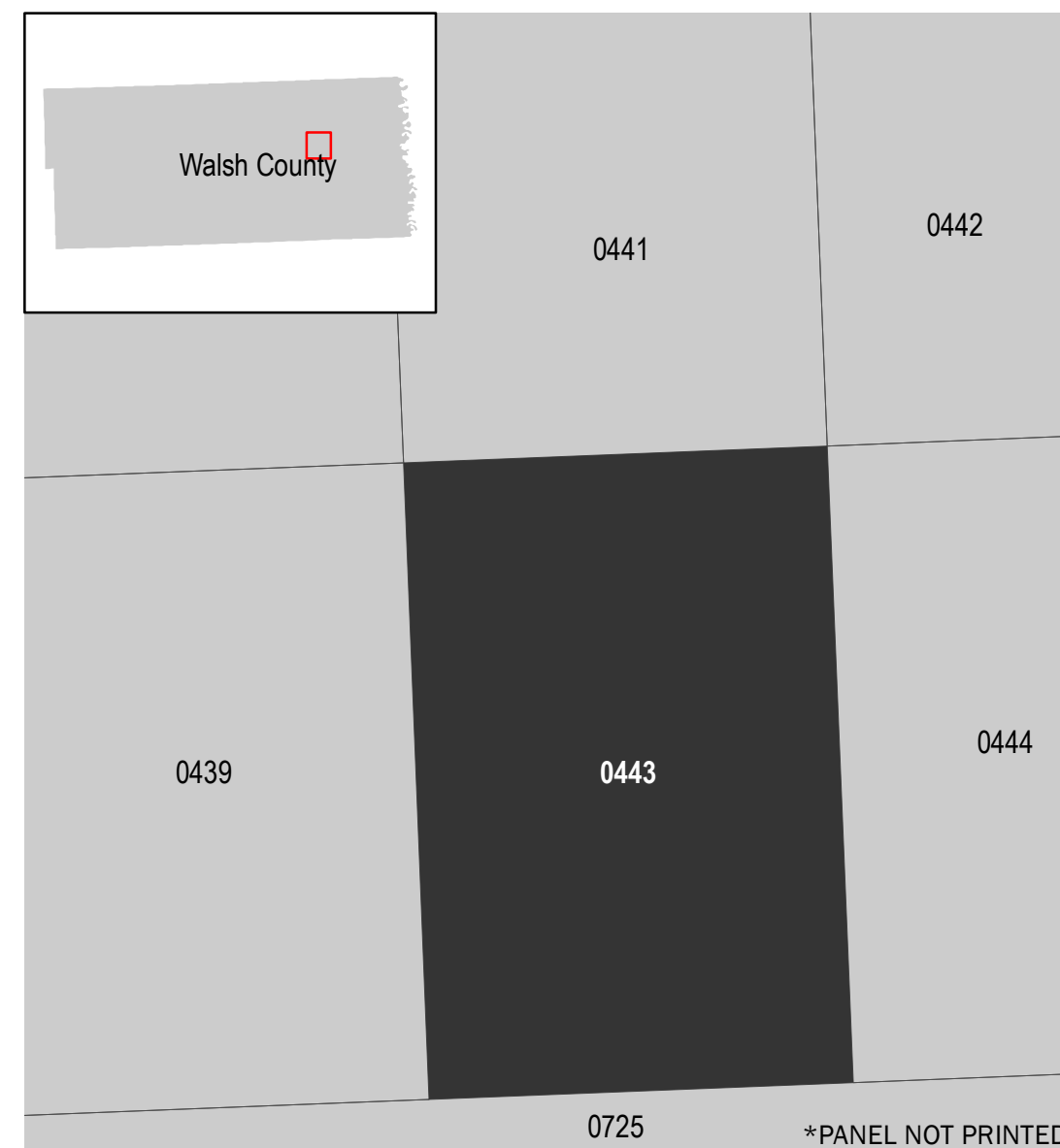
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SCALE

Map Projection: Universal Lambert Conformal Conic NAD 1983 StatePlane North Dakota North FIPS 3301 Feet Western Hemisphere; Vertical Datum: NAVD 88



PANEL LOCATOR



National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
 FLOOD INSURANCE RATE MAP

WALSH COUNTY, NORTH DAKOTA
 and Incorporated Areas

PANEL 443 of 1075

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
GRAFTON, CITY OF	380137	0443	D
GRAFTON, TOWNSHIP OF	380302	0443	D

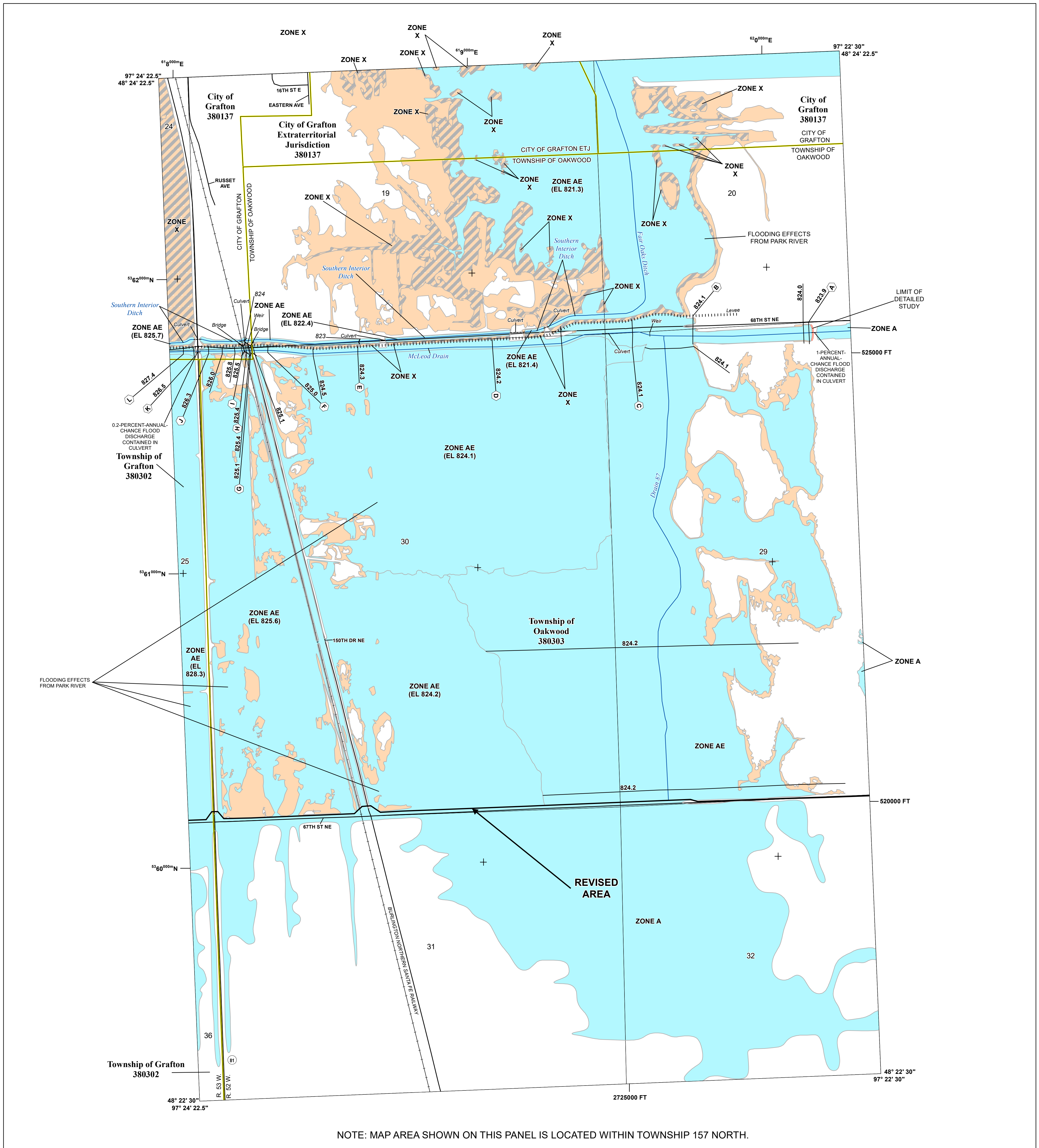
REVISED TO REFLECT LOMR
EFFECTIVE: January 19, 2023

FEMA

VERSION NUMBER
1.1.1.0

MAP NUMBER
3809C0443D

EFFECTIVE DATE
NOVEMBER 2, 2012



FLOOD HAZARD INFORMATION

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	Without Base Flood Elevation (BFE) Zone A, V, A99
	With BFE or Depth Zone AE, AO, AH, VE, AR
	Regulatory Floodway
	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
	Future Conditions 1% Annual Chance Flood Hazard Zone X
	Area with Reduced Flood Risk due to Levee See Notes. Zone X
	Area with Flood Risk due to Levee Zone D
	NO SCREEN Area of Minimal Flood Hazard Zone X
	Area of Undetermined Flood Hazard Zone D
	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall
	Cross Sections with 1% Annual Chance Water Surface Elevation
	Coastal Transect
	Coastal Transect Baseline
	Profile Baseline
	Hydrographic Feature
	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary

NOTES TO USERS

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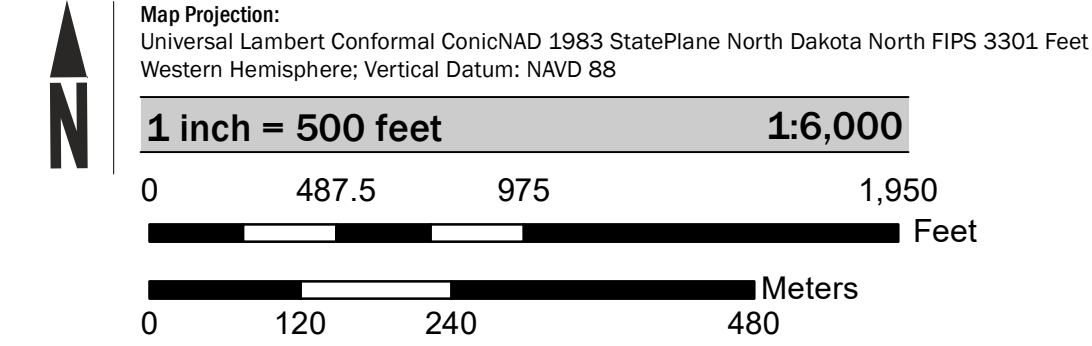
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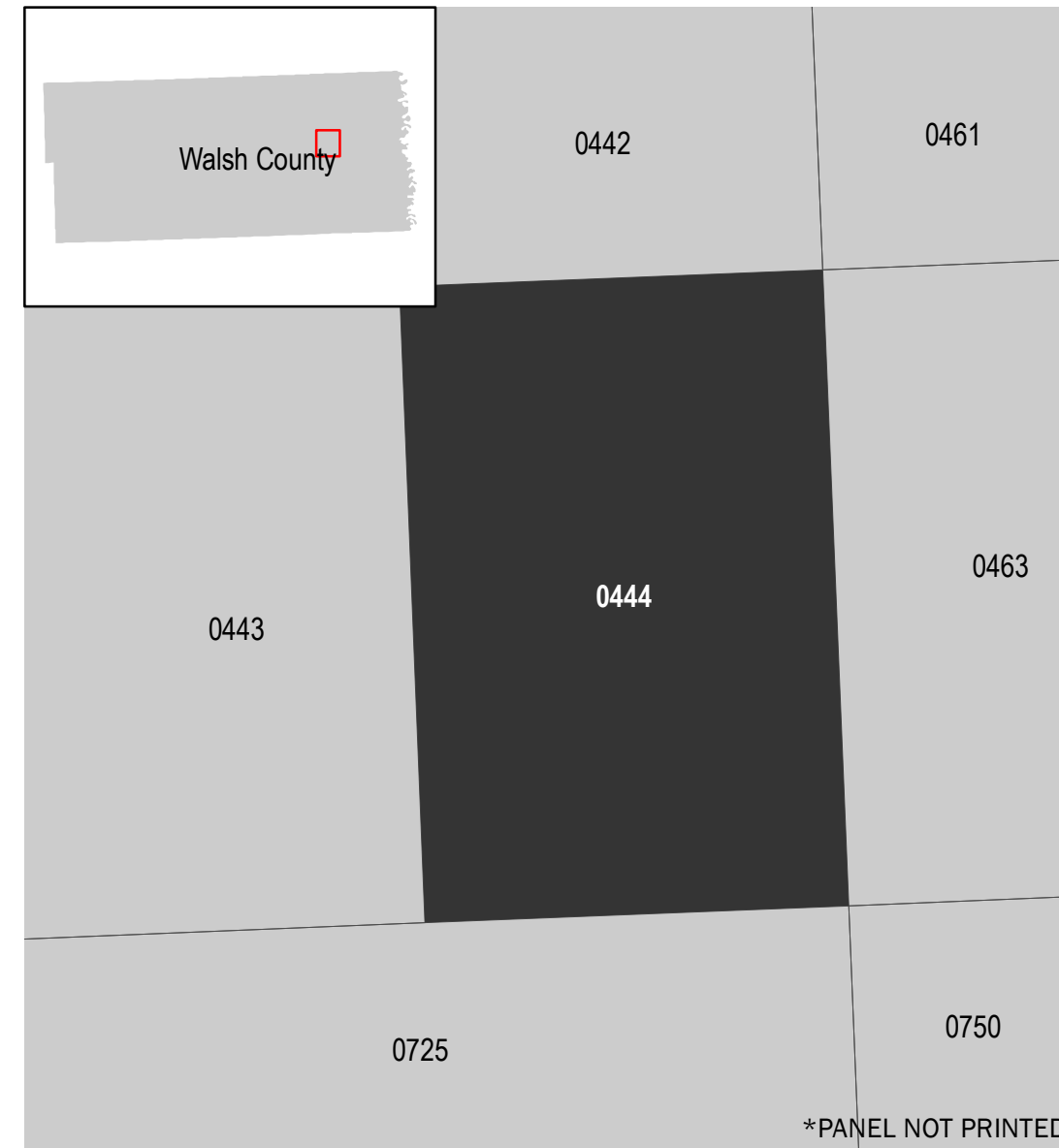
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SCALE



PANEL LOCATOR



FEMA
 FEDERAL EMERGENCY MANAGEMENT AGENCY
 DEPARTMENT OF HOMELAND SECURITY

National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
 FLOOD INSURANCE RATE MAP
 WALSH COUNTY, NORTH DAKOTA
 and Incorporated Areas

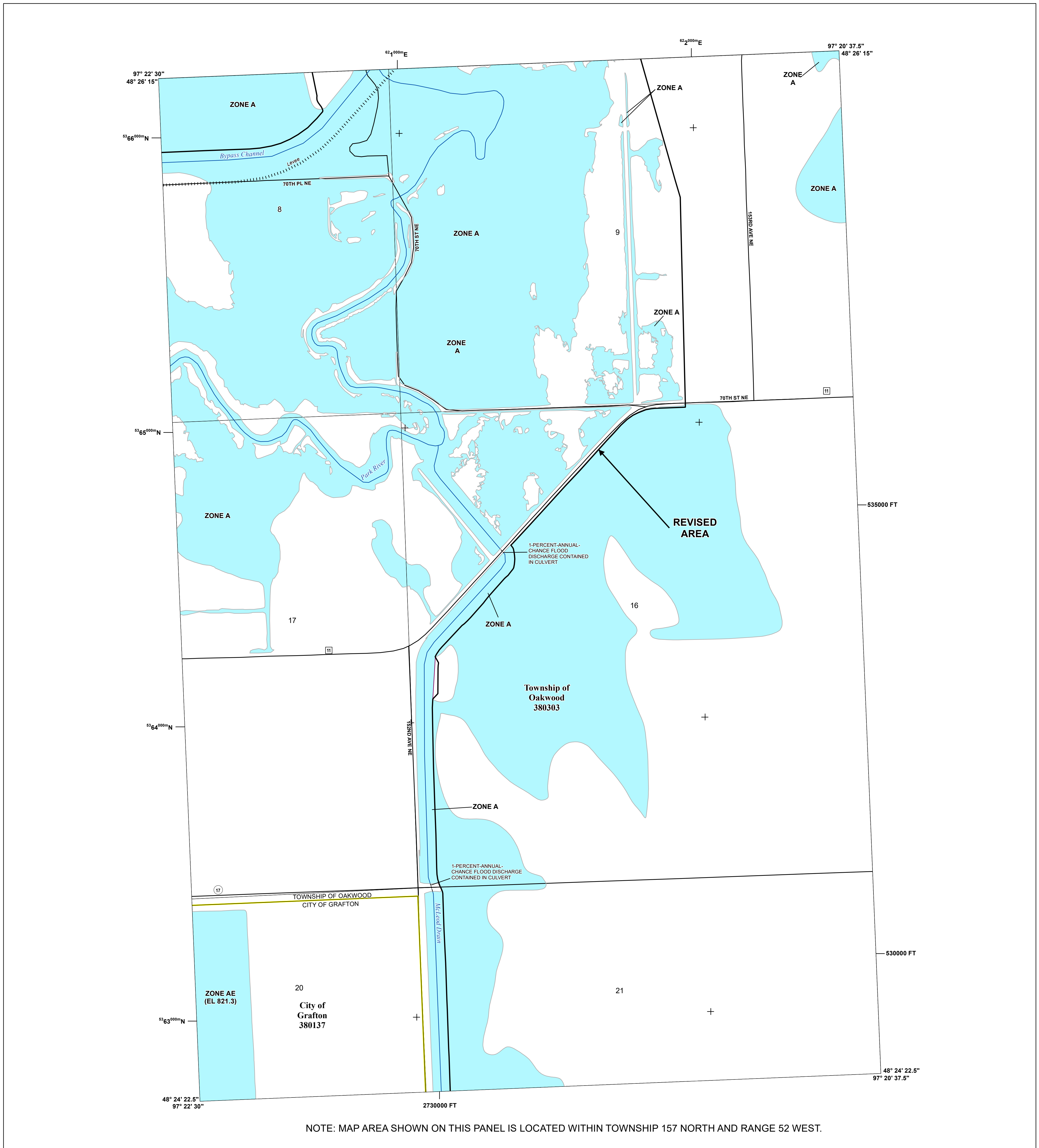
PANEL 444 of 1075

Panel Contains:

COMMUNITY	NUMBER	PANEL SUFFIX
GRAFTON, CITY OF	380137	0444 D
GRAFTON, TOWNSHIP OF	380302	0444 D
OAKWOOD, TOWNSHIP OF	380303	0444 D

REVISED TO REFLECT LOMR
 EFFECTIVE: January 19, 2023

VERSION NUMBER 1.1.1.0
 MAP NUMBER 3809C0444D
 EFFECTIVE DATE NOVEMBER 2, 2012



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
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SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		Area of Minimal Flood Hazard Zone X
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
		18.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Base Flood Elevation Line (BFE)
OTHER FEATURES		Limit of Study
		Jurisdiction Boundary

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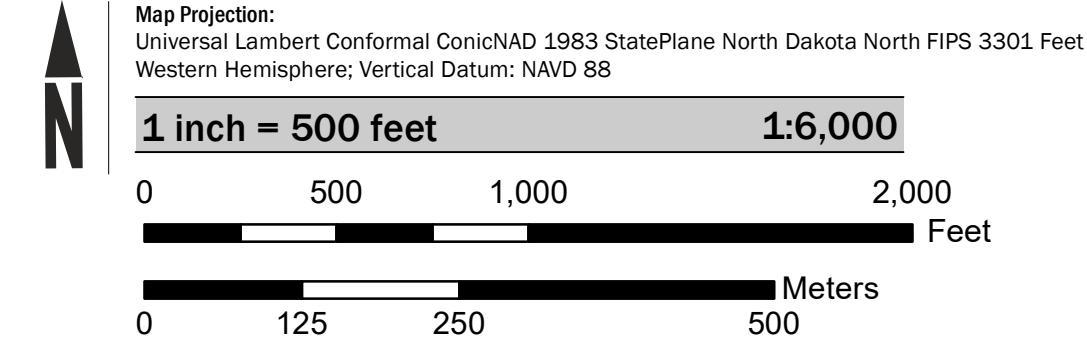
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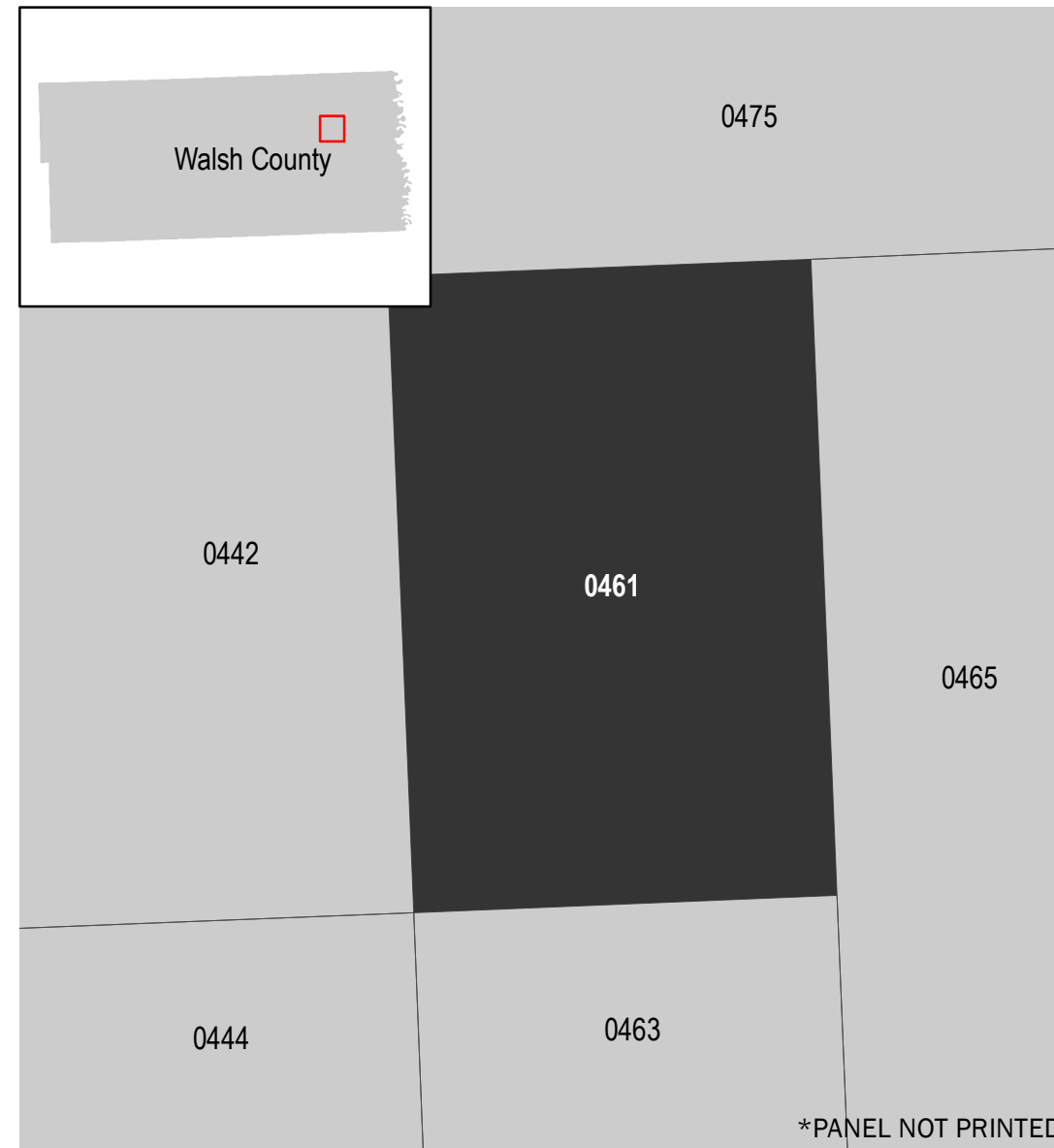
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SCALE



PANEL LOCATOR



FEMA
 FEDERAL EMERGENCY MANAGEMENT AGENCY
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National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
 FLOOD INSURANCE RATE MAP
 WALSH COUNTY, NORTH DAKOTA
 and Incorporated Areas

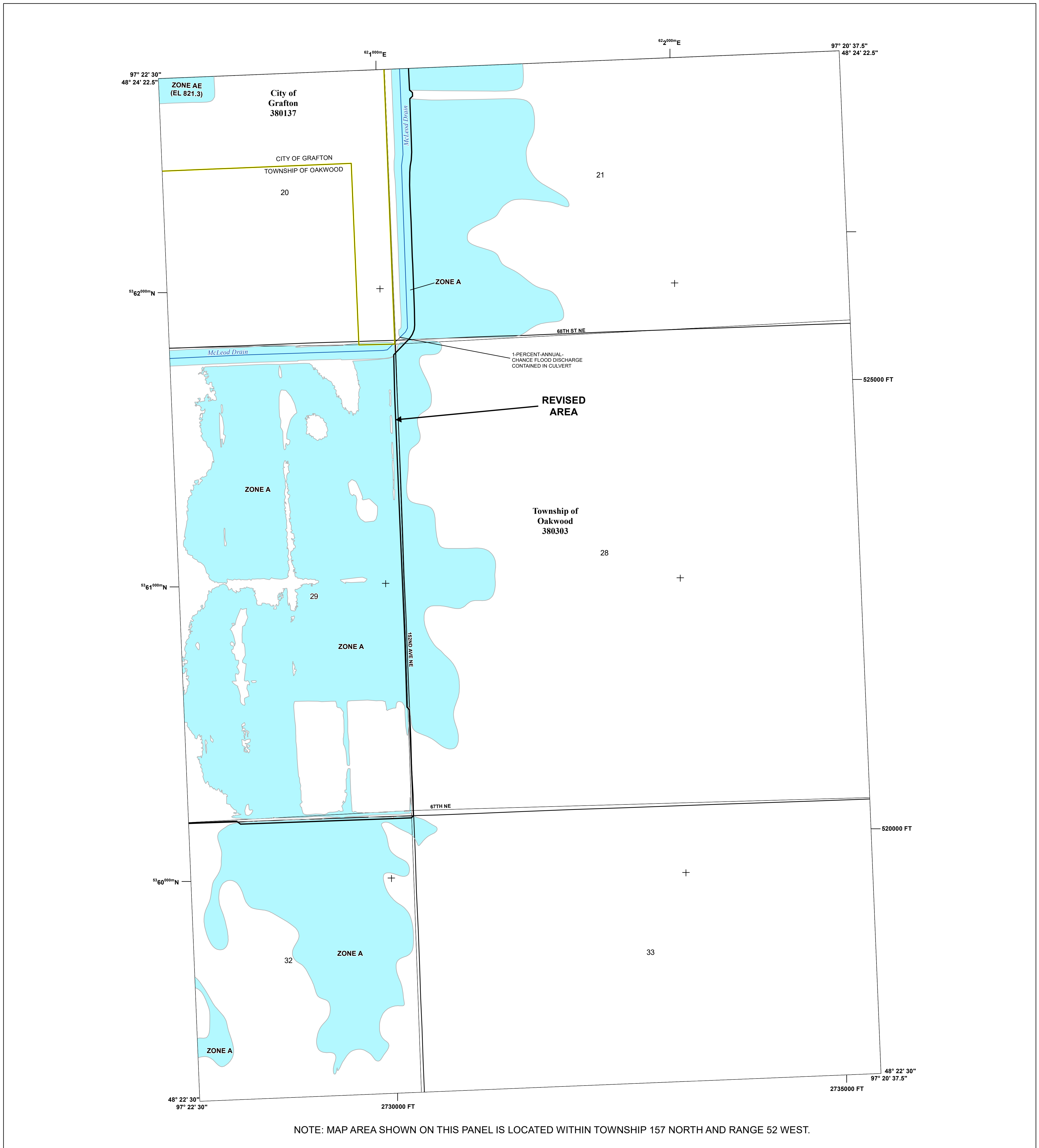
PANEL 461 of 1075

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
GRAFTON, CITY OF	380137	0461	D
OAKWOOD, TOWNSHIP OF	380303	0461	D

REVISED TO REFLECT LOMR
 EFFECTIVE: January 19, 2023

VERSION NUMBER
 1.1.1.0
 MAP NUMBER
 38099C0461D
 EFFECTIVE DATE
 NOVEMBER 2, 2012



FLOOD HAZARD INFORMATION

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SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) Zone A, V, A99
	With BFE or Depth Zone AE, AO, AH, VE, AR
	Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
	Future Conditions 1% Annual Chance Flood Hazard Zone X
	Area with Reduced Flood Risk due to Levee See Notes. Zone X
	Area with Flood Risk due to Levee Zone D
OTHER AREAS	Area of Minimal Flood Hazard Zone X
	Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall
	Cross Sections with 1% Annual Chance Water Surface Elevation
	Coastal Transect
	Coastal Transect Baseline
	Profile Baseline
	Hydrographic Feature
OTHER FEATURES	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary

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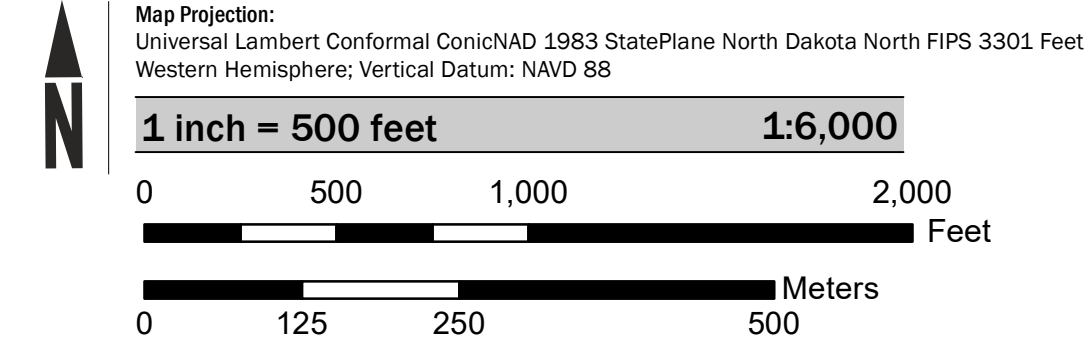
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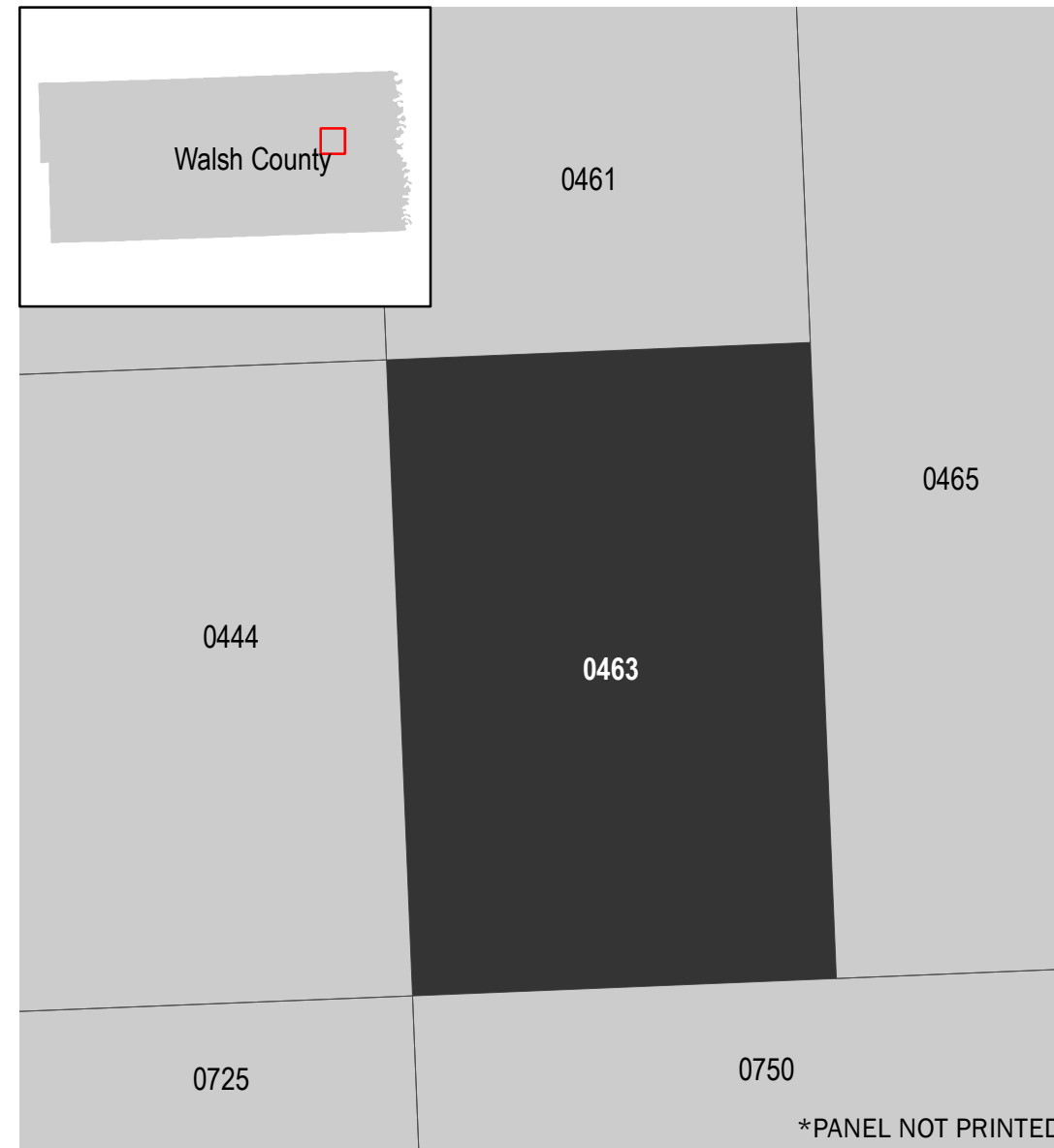
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SCALE



PANEL LOCATOR



FEMA

National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

WALSH COUNTY, NORTH DAKOTA and Incorporated Areas

PANEL 463 of 1075

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
GRAFTON, CITY OF	380137	0463	D
OAKWOOD, TOWNSHIP OF	380303	0463	D

REVISED TO REFLECT LOMR
EFFECTIVE: January 19, 2023

VERSION NUMBER
1.1.1.0

MAP NUMBER
38099C0463D

EFFECTIVE DATE
NOVEMBER 2, 2012