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 Rochester Olmsted County Minnesota	CULVERT FILL	FLOODWAY HYDRAULIC ANALYSIS UPDATED TOPOGRAPHIC DATA
	COMMUNITY NO.: 275246		
IDENTIFIER	Hadley Valley Creek in Olmsted County	APPROXIMATE LATITUDE & LONGITUDE: 44.071, -92.456 SOURCE: Precision Mapping Streets DATUM: NAD 83	

ANNOTATED MAPPING ENCLOSURES	ANNOTATED STUDY ENCLOSURES
TYPE: FIRM* NO.: 27109C0154F DATE: April 19, 2017	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: April 19, 2017 PROFILES: 16P and 17P FLOODWAY DATA TABLE: 8

Enclosures reflect changes to flooding sources affected by this revision.
* FIRM - Flood Insurance Rate Map

FLOODING SOURCE(S) & REVISED REACH(ES) **See Page 2 for Additional Flooding Sources**

Hadley Valley Creek - From approximately 1000 feet downstream of East River Road NE to approximately 3,200 feet upstream of 48th Street NE

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Hadley Valley Creek	Floodway	Floodway	YES	YES
	Zone AE	Zone AE	YES	YES
	Zone X (shaded)	Zone X (shaded)	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, 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

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)

Hadley Valley Creek - From approximately 1000 feet downstream of East River Road NE to approximately 3,200 feet upstream of 48th Street NE

South Fork Zumbro River - From approximately 640 feet upstream of 48th Street NE to approximately 650 feet upstream of 48th Street NE

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Hadley Valley Creek	No Floodway	Floodway	YES	NONE
	BFEs*	BFEs	NONE	YES
South Fork Zumbro River	BFEs**	BFEs	YES	NONE

* BFEs - Base Flood Elevations
** BFEs for this flooding source are revised in the Floodway Data Table only. BFE values shown on the annotated FIRM panels for this flooding source are correct.

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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LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)

OTHER COMMUNITIES AFFECTED BY THIS REVISION

CID Number: 270626 **Name:** Unincorporated Areas of Olmsted County, Minnesota

AFFECTED MAP PANELS	AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT
TYPE: FIRM* NO.: 27109C0154F DATE: April 19, 2017	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: April 19, 2017 PROFILES: 16P and 17P 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, 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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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 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.

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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LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)

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 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.

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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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: *Post Bulletin*
Dates: February 12, 2020 and February 19, 2020

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.

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REVISED DATA

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)
HADLEY VALLEY CREEK								
A	-522	256	1,311	1.7	970.4	970.4	970.6	0.2
B	538	100	546	3.9	974.8	974.8	974.8	0.0
C	1,537	187	573	3.7	978.6	978.6	978.7	0.1
D	2,557	85	707	4.9	982.9	982.9	982.9	0.0
E	3,007	52	477	5.5	985.6	985.6	985.6	0.0
F	3,867	307	917	3.1	991.1	991.1	991.2	0.1
G	4,714	178	841	3.3	991.9	991.9	992.2	0.3
H	5,013	297	896	3.1	992.2	992.2	992.5	0.3
I	5,376	207	714	3.9	992.7	992.7	992.9	0.2
J	5,737	251	834	3.4	993.2	993.2	993.5	0.3
K	6,048	208	625	4.5	993.8	993.8	993.9	0.1
L	6,270	196	512	5.5	994.5	994.5	994.6	0.1
M	7,161	12	19	1.5	997.4	997.4	997.5	0.1
N	7,465	10	15	1.8	997.9	997.9	998.0	0.1
O	7,844	9	9	3.1	999.6	999.6	999.7	0.1
P	8,131	9	14	2.0	1,003.6	1,003.6	1,003.7	0.1
Q	8,273	22	18	1.6	1,004.0	1,004.0	1,004.1	0.1
R	8,821	161	218	2.3	1,007.2	1,007.2	1,007.4	0.2
S	9,834	600	1,368	1.5	1,012.9	1,012.9	1,013.4	0.5
T	10,441	303	346	5.9	1,015.4	1,015.4	1,015.4	0.0
U	11,035	326	563	3.6	1,019.3	1,019.3	1,019.7	0.4
V	11,681	211	351	5.8	1,022.8	1,022.8	1,023.1	0.3

[1] Feet upstream of East River Road Northeast

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

OLMSTED COUNTY, MN
AND INCORPORATED AREAS

FLOODWAY DATA

REVISED TO REFLECT LOMR EFFECTIVE: June 18, 2020

HADLEY VALLEY 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 NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
HADLEY VALLEY CREEK (CONTINUED)								
W	12,402	351	553	3.7	1,027.8	1,027.8	1,028.2	0.4
X	13,000	355	415	4.9	1,031.7	1,031.7	1,032.0	0.3
Y	13,556	251	402	5.0	1,036.5	1,036.5	1,036.7	0.2
Z	14,752	317	470	4.3	1,044.0	1,044.0	1,044.3	0.3
AA	15,730	287	402	5.0	1,051.3	1,051.3	1,051.6	0.3
AB	16,026	241	367	5.5	1,053.8	1,053.8	1,054.1	0.3
AC	16,565	286	550	3.7	1,057.2	1,057.2	1,057.5	0.3

REVISED DATA

[1] Feet upstream of East River Road Northeast

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

OLMSTED COUNTY, MN
AND INCORPORATED AREAS

REVISED TO REFLECT LOMR EFFECTIVE: June 18, 2020

FLOODWAY DATA

HADLEY VALLEY 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)
SOUTH FORK ZUMBRO RIVER						REVISED DATA		
A1	-6,357	778	5,922	4.0	957.8	957.8	958.1	0.3
A2	-200	594	8,693	3.1	963.6	963.6	963.8	0.2
A3	645	346	3,954	6.0	963.8	963.8	963.9	0.2
A	4,052	592	6,189	3.9	966.4	966.4	966.8	0.4
B	7,025	338	3,357	7.1	968.6	968.6	968.9	0.3
C	8,986	400	5,347	4.5	971.7	971.7	972.0	0.3
D	10,191	430	4,952	5.4	972.9	972.9	973.1	0.2
E	11,951	722	7,344	4.8	974.0	974.0	974.2	0.2
F	13,456	792	6,193	4.7	974.8	974.8	975.0	0.2
G	15,096	682	7,186	5.9	975.5	975.5	975.7	0.2
H	16,901	503	4,249	6.8	976.3	976.3	976.5	0.2
I	17,901	265	3,840	5.3	977.1	977.1	977.3	0.2
J	18,231	264	4,550	4.5	977.6	977.6	977.8	0.2
K	19,136	301	4,609	4.5	977.9	977.9	978.1	0.2
L	20,016	253	4,041	4.8	978.1	978.1	978.2	0.1
M	20,426	222	3,209	6.1	978.1	978.1	978.4	0.3
N	20,736	234	2,647	7.4	979.0	979.0	979.0	0.0
O	22,236	872	8,045	2.4	980.8	980.8	980.8	0.0
P	23,661	301	3,517	5.5	980.9	980.9	980.9	0.0
Q	24,356	311	3,569	5.5	981.6	981.6	958.1	0.3

[1] Stream Distance in Feet above 48th Street Northeast

TABLE 8

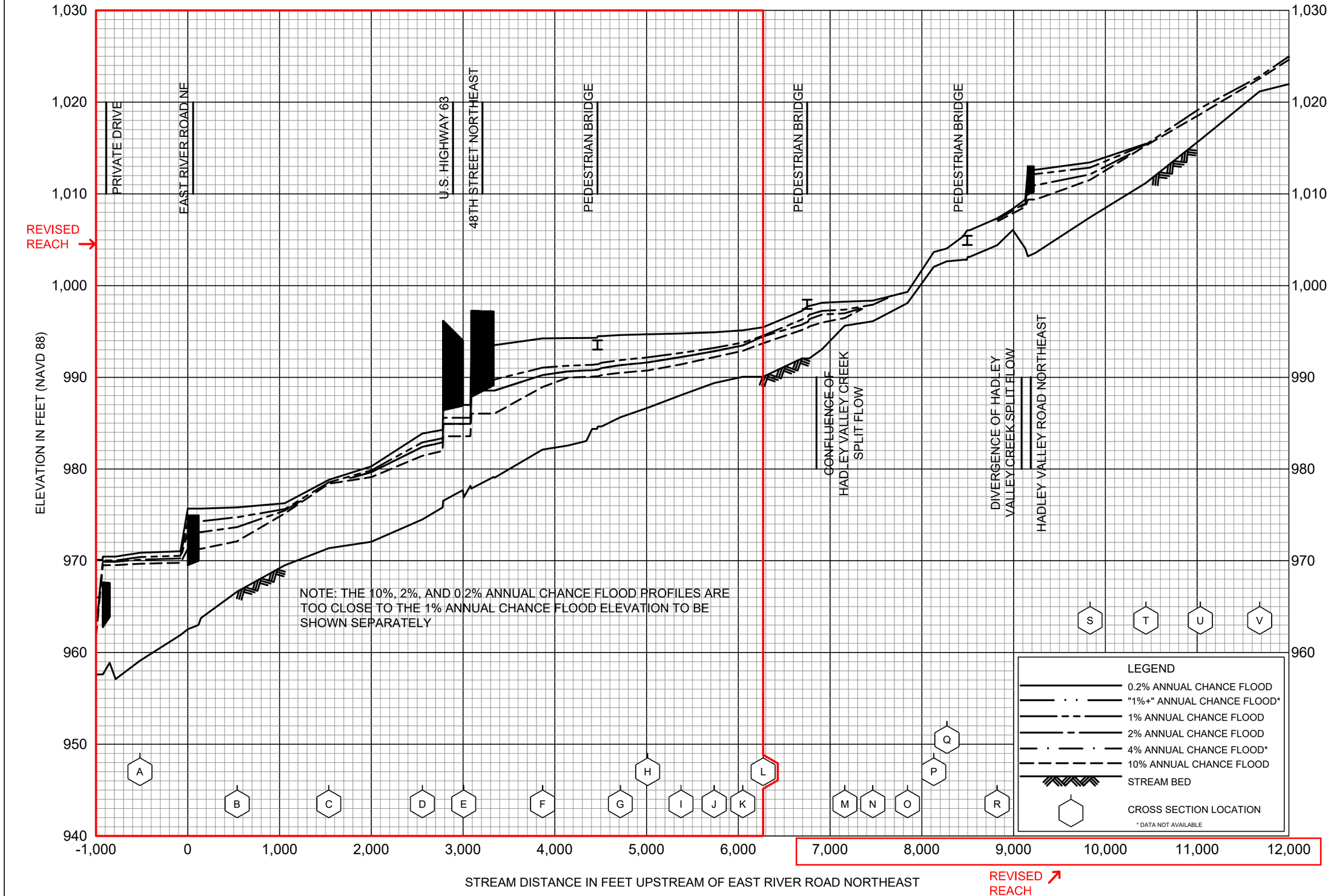
FEDERAL EMERGENCY MANAGEMENT AGENCY

OLMSTED COUNTY, MN
AND INCORPORATED AREAS

FLOODWAY DATA

REVISED TO REFLECT LOMR EFFECTIVE: June 18, 2020

SOUTH FORK ZUMBRO RIVER



FLOOD PROFILES

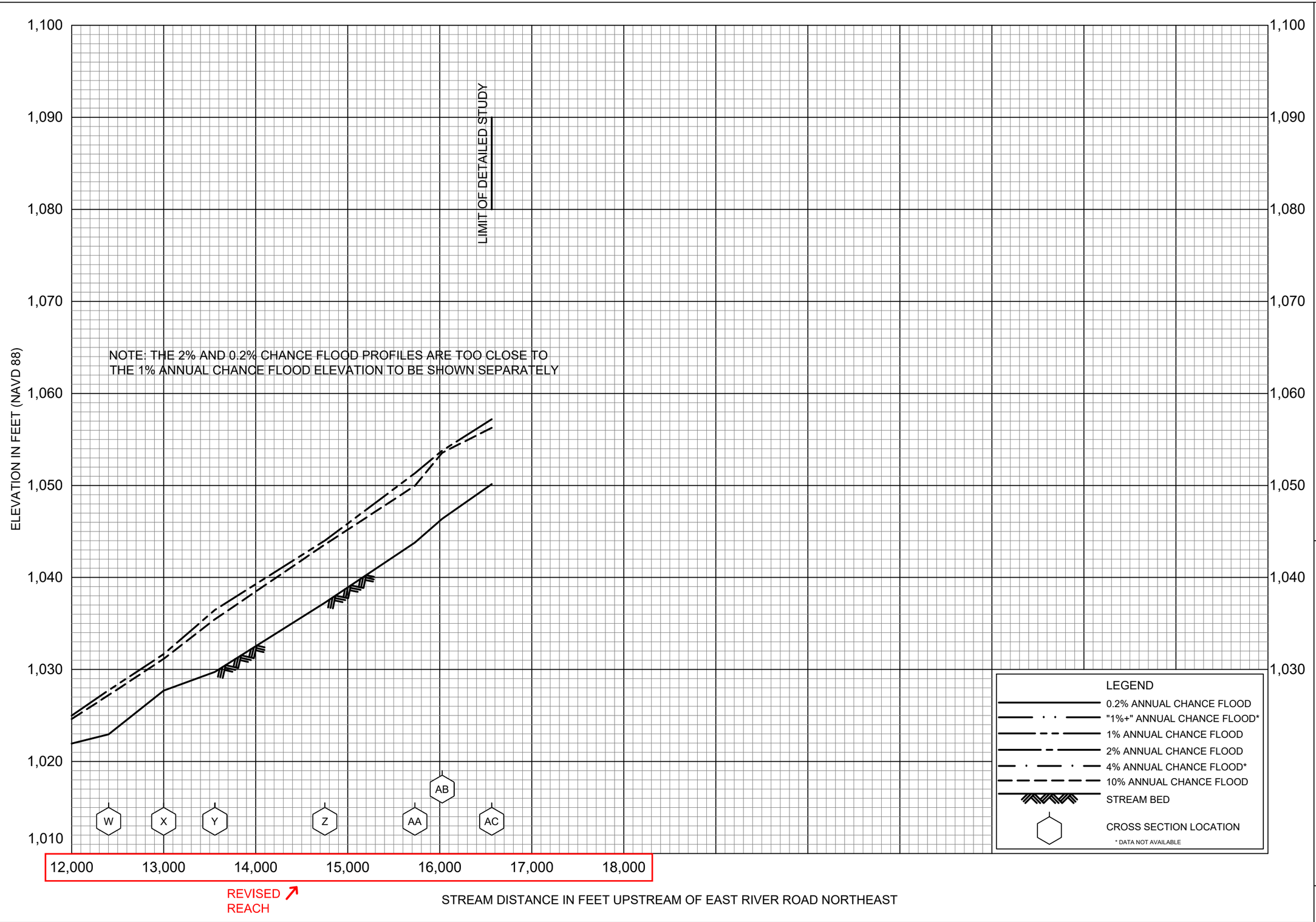
REVISED TO REFLECT LOMR
EFFECTIVE: June 18, 2020

HADLEY VALLEY CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

OLMSTED COUNTY, MN
AND INCORPORATED AREAS

16P



FLOOD PROFILES

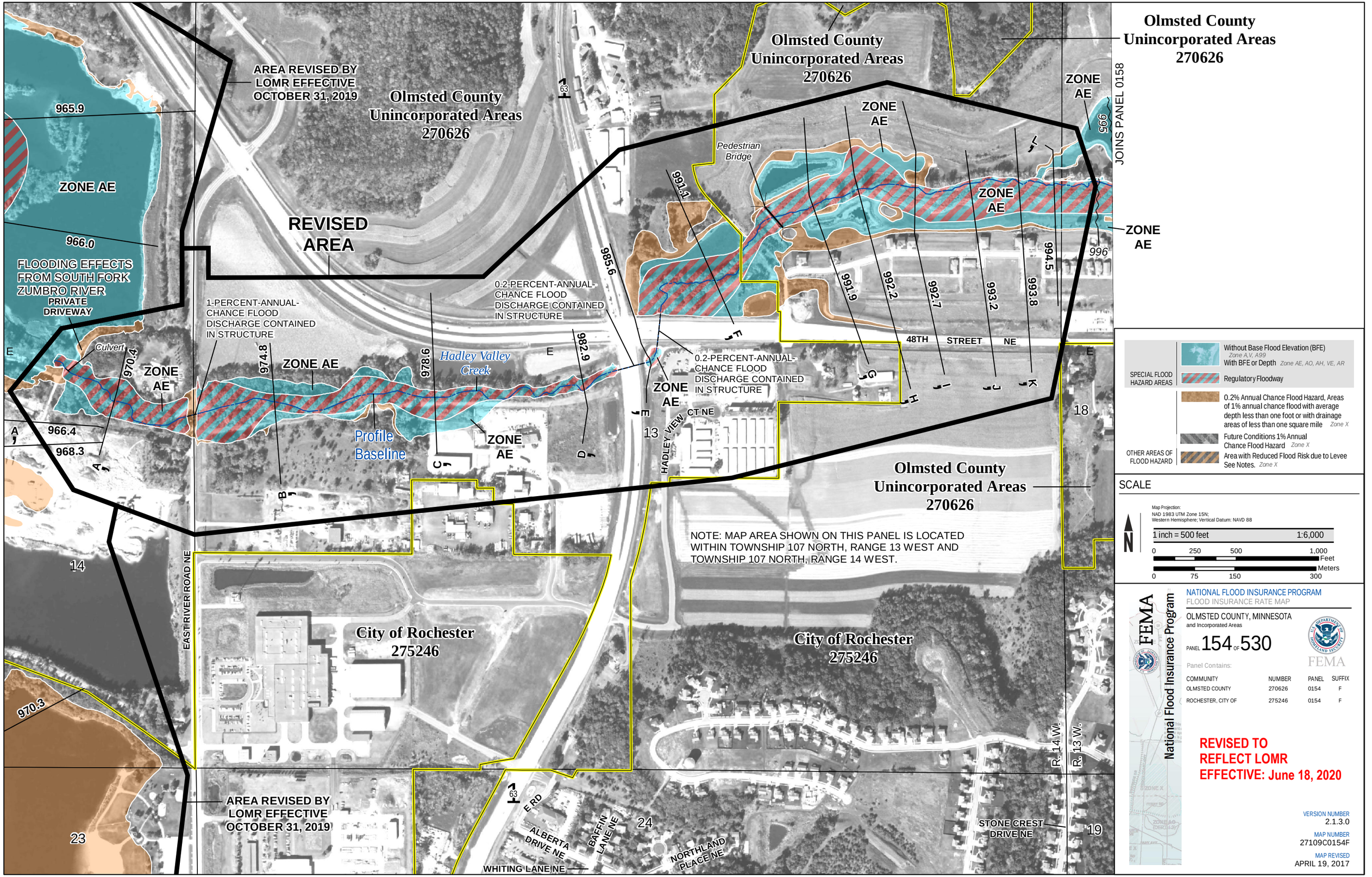
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HADLEY VALLEY CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

OLMSTED COUNTY, MN AND INCORPORATED AREAS

17P


AREA REVISED BY LOMR EFFECTIVE OCTOBER 31, 2019
Olmsted County Unincorporated Areas 270626
REVISED AREA
Olmsted County Unincorporated Areas 270626
Olmsted County Unincorporated Areas 270626
JOINS PANEL 0158
ZONE AE
965.9
966.0
FLOODING EFFECTS FROM SOUTH FORK ZUMBRO RIVER
PRIVATE DRIVEWAY
Culvert
970.4
966.4
968.3
1-PERCENT-ANNUAL-CHANCE FLOOD DISCHARGE CONTAINED IN STRUCTURE
974.8
978.6
985.6
982.9
0.2-PERCENT-ANNUAL-CHANCE FLOOD DISCHARGE CONTAINED IN STRUCTURE
Hadley Valley Creek
Profile Baseline
Pedestrian Bridge
991.1
991.9
992.2
992.7
993.2
993.8
994.5
995
996
48TH STREET NE
CT NE
HADLEY VIEW
13
18
14
23
24
19
EAST RIVER ROAD NE
City of Rochester 275246
City of Rochester 275246
970.3
E RD
ALBERTA DRIVE NE
BAFFIN LANE NE
NORTHLAND PLACE NE
WHITING LANE NE
STONE CREST DRIVE NE
R. 14 W.
R. 13 W.
NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 107 NORTH, RANGE 13 WEST AND TOWNSHIP 107 NORTH, RANGE 14 WEST.
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
SCALE
Map Projection:
NAD 1983 UTM Zone 15N;
Western Hemisphere; Vertical Datum: NAVD 88
1 inch = 500 feet 1:6,000
0 250 500 1,000 Feet
0 75 150 300 Meters
FEMA
National Flood Insurance Program
NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP
OLMSTED COUNTY, MINNESOTA
and Incorporated Areas
PANEL 154 OF 530
Panel Contains:
COMMUNITY NUMBER PANEL SUFFIX
OLMSTED COUNTY 270626 0154 F
ROCHESTER, CITY OF 275246 0154 F
REVISED TO REFLECT LOMR EFFECTIVE: June 18, 2020
VERSION NUMBER 2.1.3.0
MAP NUMBER 27109C0154F
MAP REVISED APRIL 19, 2017