

Follows Conditional Case No.: 13-10-1207R



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 Richland Benton County Washington	BRIDGE	1D HYDRAULIC ANALYSIS FLOODWAY UPDATED TOPOGRAPHIC DATA
	COMMUNITY NO.: 535533		
IDENTIFIER	Yakima River Letter of Map Revision (LOMR)	APPROXIMATE LATITUDE & LONGITUDE: 46.264, -119.306 SOURCE: Other DATUM: WGS 84	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM*	NO.: 5355330010E DATE: March 1, 1984	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: December 18, 1979	
TYPE: FIRM	NO.: 5355330015E DATE: March 1, 1984	PROFILE(S): 01P	
TYPE: FBFM**	NO.: 5355330002D DATE: June 18, 1980	FLOODWAY DATA TABLE: 2	
TYPE: FBFM	NO.: 5355330001 DATE: June 18, 1980		

Enclosures reflect changes to flooding sources affected by this revision.

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

FLOODING SOURCE(S) & REVISED REACH(ES)

Yakima River - From approximately 3,430 feet downstream of Duportail Street to approximately 3,400 feet upstream of Duportail Street

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Yakima River	BFEs*	BFEs	YES	YES
	Zone A10	Zone A10	YES	YES
	Zone B	Zone B	YES	YES
	Floodway	Floodway	YES	YES

* BFEs – Base (1-percent-annual-chance) 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. Sacbibit, P.E., Branch Chief
Engineering Services 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: 530237 **Name:** Unincorporated Areas of Benton County, Washington

AFFECTED MAP PANELS

TYPE: FIRM NO.: 5302370470B DATE: July 19, 1982
TYPE: FBFM NO.: 5302370470 DATE: July 19, 1982

AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT

DATE OF EFFECTIVE FLOOD INSURANCE STUDY: July 15, 1994
PROFILE(S): 01P
FLOODWAY DATA TABLE: 2

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)

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 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. Sacbbit, P.E., Branch Chief
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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.

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:

Kristen Meyers
Director, Mitigation Division
Federal Emergency Management Agency, Region X
Federal Regional Center
130 228th Street, Southwest
Bothell, WA 98021-8627
(425) 487-4543

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.

Please note that the revision area shown within the unincorporated areas of Benton County on the effective FIRM is annexed by the City of Richland. This LOMR does not revise the corporate limits for the City of Richland.

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: *Tri-City Herald*

Dates: September 7, 2022 and September 14, 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

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NGVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2.073	576	8,079	6.9	351.7	351.7	351.7	0.0
B	2.793	2,050	21,507	2.6	353.4	353.4	354.2	0.8
C	3.390	1,160/790 ²	9,994	5.6	353.8	353.8	354.8	1.0
D	4.053	730/300 ²	8,366	6.6	356.2	356.2	357.0	0.8
E	4.583	730/270 ²	10,419	5.3	359.0	359.0	359.7	0.7
F	5.367	585	9,368	5.9	362.1	362.1	362.7	0.6
G	5.876	994	14,293	3.9	364.1	364.1	364.7	0.6
H	6.666	2,270/1,980 ²	14,290	3.9	365.8	365.8	366.6	0.8
I	7.083	3,560/3,350 ²	16,115	3.4	366.9	366.9	367.5	0.6
J	8.295	2,810/2,530 ²	14,943	3.7	374.1	374.1	374.6	0.5

Revised Data

**REVISED TO
REFLECT LOMR
EFFECTIVE: January 12, 2023**

¹ Miles Above Confluence with Columbia River
² Width/Width Within Corporate Limits

TABLE 2	FEDERAL EMERGENCY MANAGEMENT AGENCY CITY OF RICHLAND, MI (BENTON COUNTY)	FLOODWAY DATA
		YAKIMA RIVER

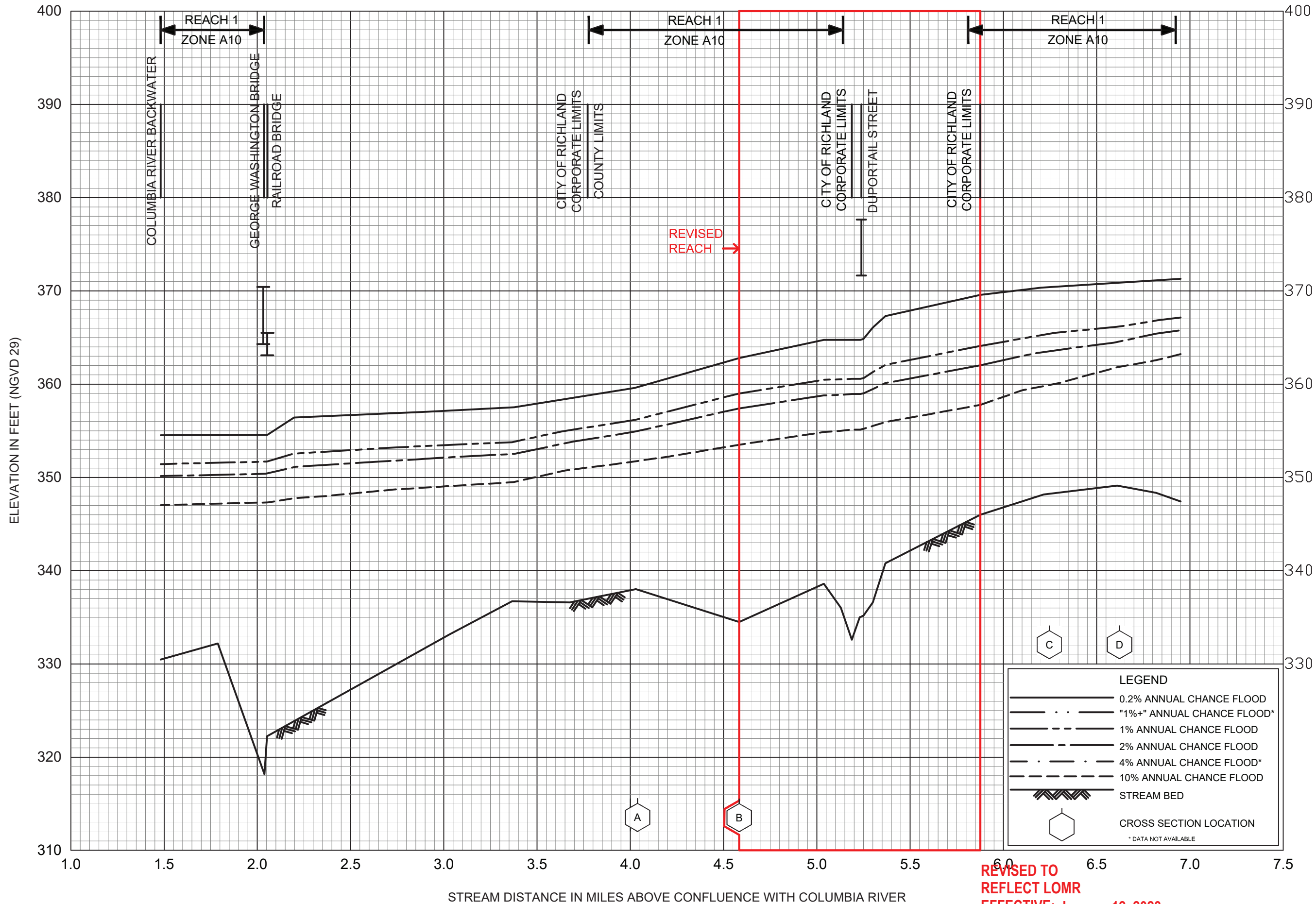
FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NGVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Revised Data								
A	4.053	730/150 ²	8,366	6.6	356.2	356.2	357.0	0.8
B	4.583	730/530 ²	10,419	5.3	359.0	359.0	359.7	0.7
C	6.286	1,720/180 ²	13,612	4.1	365.1	365.1	365.5	0.4
D	6.666	2,270/300 ²	14,290	3.9	365.8	365.8	366.6	0.8
E	7.083	3,560/110 ²	16,115	3.4	366.9	366.9	367.5	0.6
F	9.150	1,870/360 ²	14,729	2.7	376.2	376.2	376.6	0.4
G	9.697	2,521/2,340 ²	19,791	2.0	376.9	376.9	377.3	0.4
H	10.032	2,308	5,951	6.8	376.9	376.9	377.4	0.5
I	10.606	906/800 ²	6,925	5.8	382.5	382.5	383.3	0.8
J	11.086	4,929	24,205	1.7	383.8	383.8	384.8	1.0
K	11.636	5,450	30,511	1.3	384.2	384.2	385.0	0.8
L	11.986	5,510	27,889	2.0	385.2	385.2	385.9	0.7
M	13.287	3,800	18,070	3.1	392.0	392.0	392.4	0.4
N	13.429	3,600	13,470	4.1	392.3	392.3	392.7	0.4
O	14.187	3,520	19,091	2.9	393.9	393.9	394.5	0.6
P	16.015	636	8,530	6.5	409.3	409.3	409.3	0.0
Q	23.130	400/335 ²	4,091	13.6	446.3	446.3	447.1	0.8
R	24.230	530	7,438	7.5	449.4	449.4	450.1	0.7
S	25.120	1,197	9,584	5.8	453.0	453.0	454.0	1.0
T	26.090	462	6,569	8.4	457.1	457.1	457.9	0.8
U	26.960	1,086	8,273	6.7	461.7	461.7	462.6	0.9
V	27.720	1,020	9,866	5.6	464.6	464.6	465.5	0.9

REVISED TO REFLECT LOMR EFFECTIVE: January 12, 2023

¹ Miles Above Confluence with Columbia River

² Width/Width Within Corporate Limits

TABLE 2	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	BENTON COUNTY, WA (UNINCORPORATED AREAS)	YAKIMA RIVER



**REVISED TO
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EFFECTIVE: January 12, 2023**

FLOOD PROFILES

YAKIMA RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

BENTON COUNTY, WA

UNINCORPORATED AREAS

Legend

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



MAP SCALE 1" = 1000'



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
RICHLAND,
WASHINGTON
BENTON COUNTY

PANEL 10 OF 15
(SEE MAP INDEX FOR PANELS NOT PRINTED)

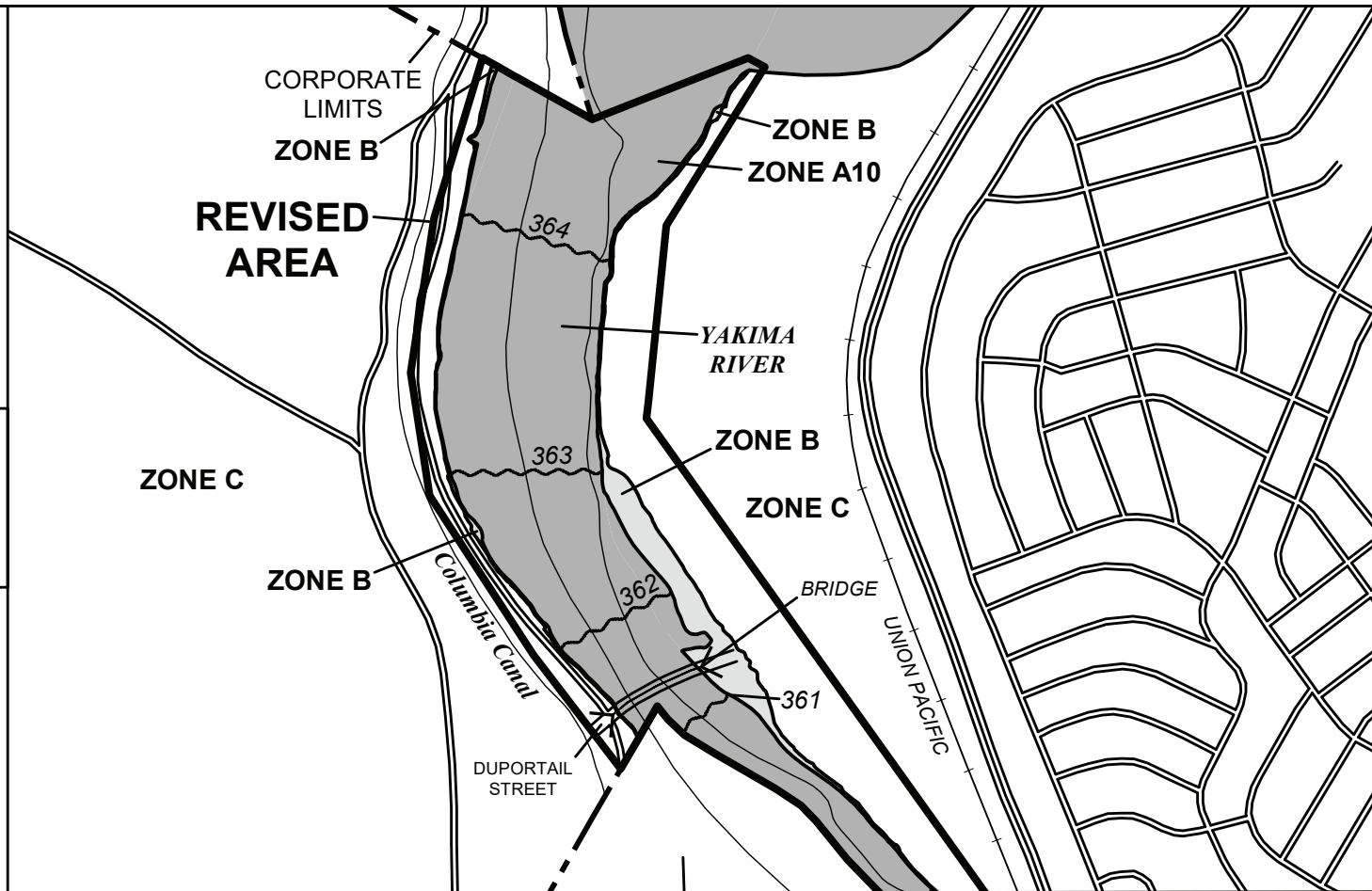
**REVISED TO
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EFFECTIVE:
January 12, 2023**

COMMUNITY-PANEL NUMBER
535533 0010 E

MAP REVISED:
MARCH 1, 1984



Federal Emergency Management Agency



JOINS PANEL 0015

Bentley County
(AREA NOT INCLUDED)

Legend

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



MAP SCALE 1" = 1000'



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
RICHLAND,
WASHINGTON
BENTON COUNTY

PANEL 15 OF 15
(SEE MAP INDEX FOR PANELS NOT PRINTED)

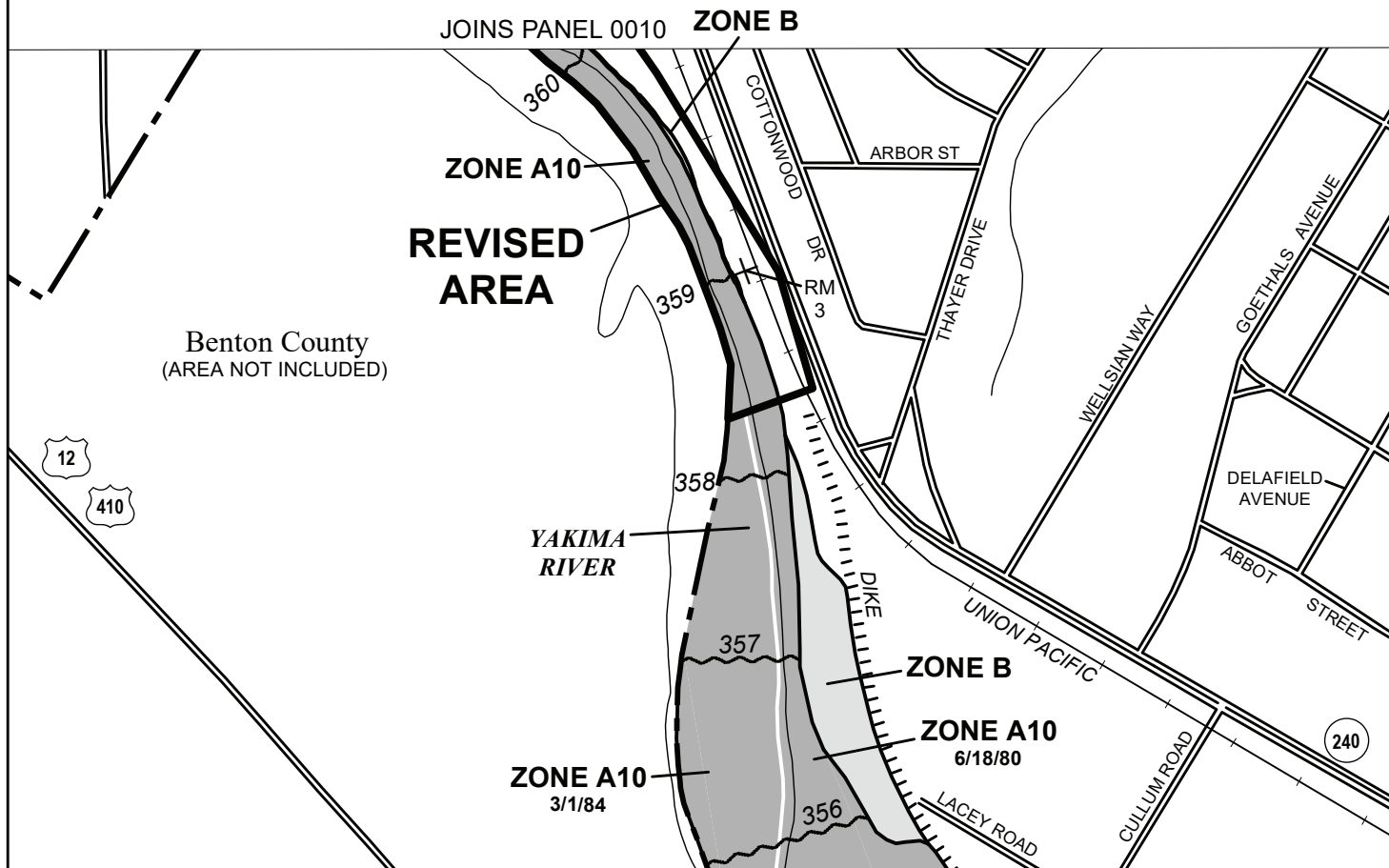
**REVISED TO
REFLECT LOMR
EFFECTIVE:
January 12, 2023**

COMMUNITY-PANEL NUMBER
535533 0015 E




MAP REVISED:
MARCH 1, 1984



Federal Emergency Management Agency



Legend

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



MAP SCALE 1" = 1000'



NATIONAL FLOOD INSURANCE PROGRAM

FLOODWAY

FLOOD BOUNDARY AND FLOODWAY MAP

CITY OF
RICHLAND, WASHINGTON
BENTON COUNTY

PANEL 2 OF 2 PRINTED

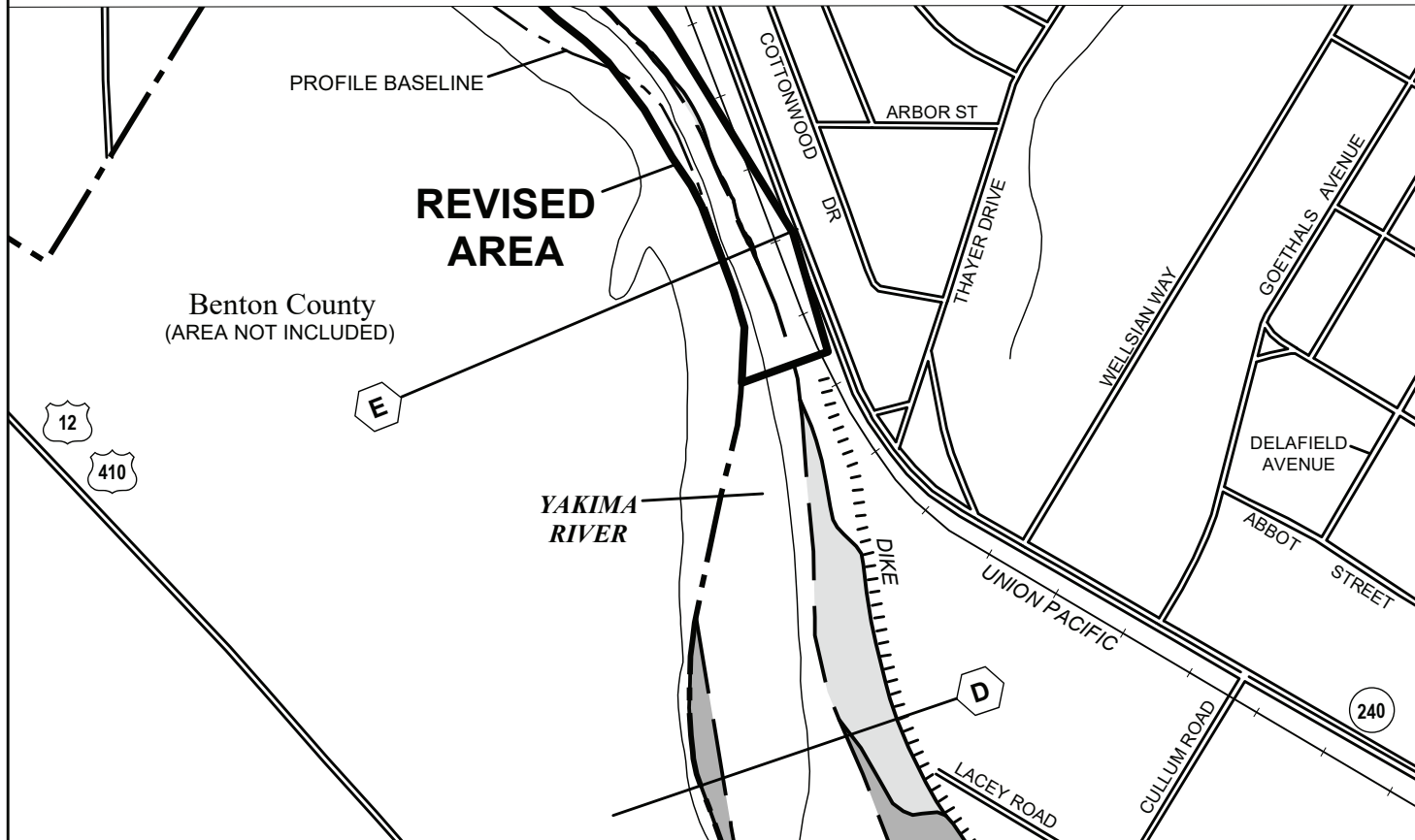
**REVISED TO
REFLECT LOMR
EFFECTIVE:
January 12, 2023**




COMMUNITY-PANEL NUMBER
535533 0002 D

MAP REVISED:
JUNE 18, 1980



U.S. DEPARTMENT OF HOUSING
AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION



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



MAP SCALE 1" = 1000'



NATIONAL FLOOD INSURANCE PROGRAM

FLOODWAY
FLOOD BOUNDARY AND
FLOODWAY MAP

CITY OF
RICHLAND, WASHINGTON
BENTON COUNTY

PANEL 1 OF 2 PRINTED

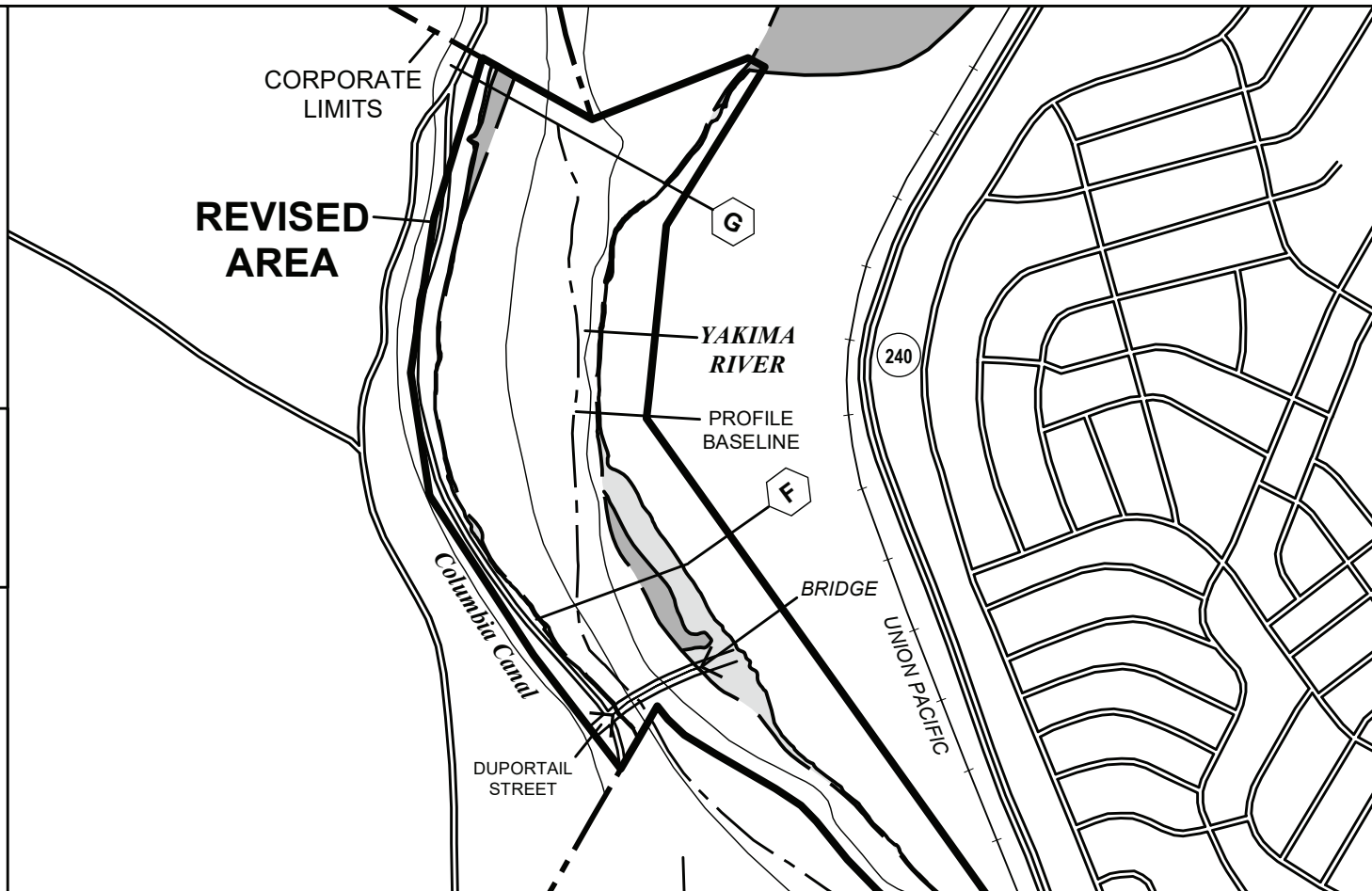
**REVISED TO
REFLECT LOMR
EFFECTIVE:
January 12, 2023**

COMMUNITY-PANEL NUMBER
535533 0001

MAP REVISED:
JUNE 18, 1980



U.S. DEPARTMENT OF HOUSING
AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION

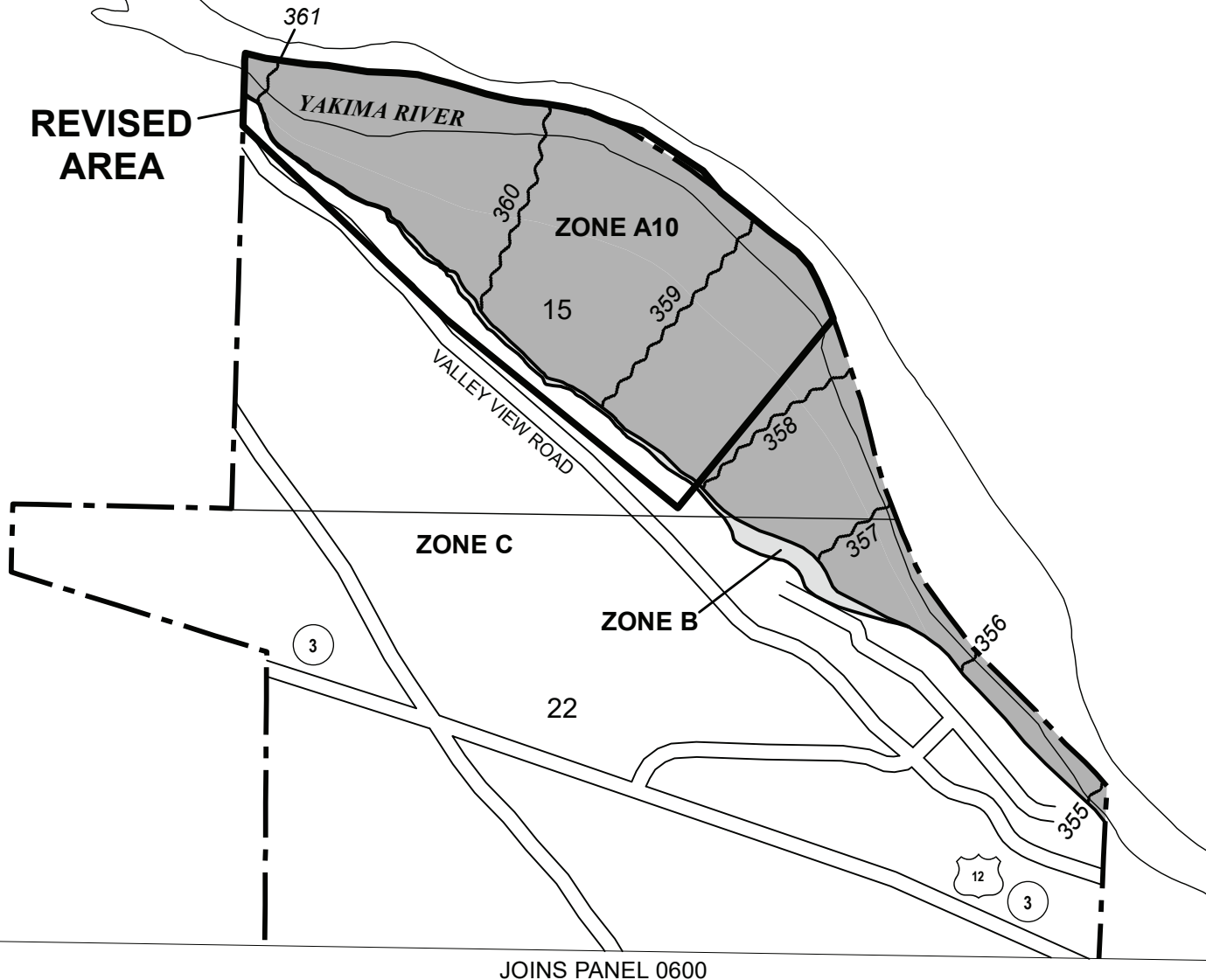


Benton County
(AREA NOT INCLUDED)

City of Richland

AREA NOT INCLUDED

**REVISED
AREA**



Legend

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



MAP SCALE 1" = 1000'



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

**BENTON COUNTY,
WASHINGTON**
(UNINCORPORATED AREAS)

PANEL 470 OF 1075
(SEE MAP INDEX FOR PANELS NOT PRINTED)

**REVISED TO
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EFFECTIVE:
January 12, 2023**

COMMUNITY-PANEL NUMBER
530237 0470 B

EFFECTIVE DATE:
JULY 19, 1982



Federal Emergency Management Agency

City of Richland

AREA NOT INCLUDED

REVISED
AREA

PROFILE BASELINE

YAKIMA RIVER

VALLEY VIEW ROAD

15

B

22

A

12

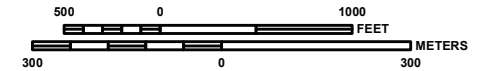
3

Legend

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



MAP SCALE 1" = 1000'



NATIONAL FLOOD INSURANCE PROGRAM

FLOODWAY FLOOD BOUNDARY AND FLOODWAY MAP

BENTON COUNTY,
WASHINGTON
(UNINCORPORATED AREAS)

PANEL 470 OF 1075
(SEE MAP INDEX FOR PANELS NOT PRINTED)

**REVISED TO
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EFFECTIVE:
January 12, 2023**

COMMUNITY-PANEL NUMBER
530237 0470

EFFECTIVE DATE:
JULY 19, 1982



Federal Emergency Management Agency