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Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION **DETERMINATION DOCUMENT**

	COMMUNITY AND REVISION	INFORMATION	PROJECT DESCRIPTION	BASIS OF REQUEST			
COMMUNITY	М	ula County ontana oorated Areas)	NO PROJECT	UPDATE			
	COMMUNITY NO.: 300048						
IDENTIFIER	Missoula County, Montana		APPROXIMATE LATITUDE & LONGITUDE: 48.862, -113.887 SOURCE: USGS QUADRANGLE DATUM: NAD 83				
	ANNOTATED MAPPING E	NCLOSURES	ANNOTATED STUDY ENCLOSURES				
TYPE: FIRM* TYPE: FIRM* TYPE: FIRM* TYPE: FIRM*	NO.: 30063C1220E NO.: 30063C1240E NO.: 30063C1485E NO.: 30063C1505E	DATE: July 6, 2015 DATE: July 6, 2015 DATE: July 6, 2015 DATE: July 6, 2015	DATE OF EFFECTIVE FLOOD INSUR PROFILE(S): 10P-11P, 29P-31P FLOODWAY DATA TABLE: 5	ANCE STUDY: July 6, 2015			

FLOODING SOURCE(S) & REVISED REACH(ES)

Blackfoot River - from the confluence with the Clark Fork to approximately 13,270 feet upstream of State Highway 200

Clark Fork - from approximately 2,120 feet downstream to approximately 19,700 feet upstream of Burlington Northern Railroad Bridge

SUMMARY OF REVISIONS

This Letter of Map Revision (LOMR) is a reissuance of a LOMR dated March 13, 2015 (Case No. 14-08-0395P). The March 13 LOMR was not incorporated into the updated FIRM and FIS report for Missoula County, Montana and Incorporated Areas dated July 6, 2015. This LOMR does not revise the base floodplain, regulatory floodway, or BFEs* along the Blackfoot River and Clark Fork presented in the March 13 LOMR; however the datum has been updated.

* 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 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.

> Luis Rodriguez, P.E., Chief **Engineering Management Branch** Federal Insurance and Mitigation Administration

Enclosures reflect changes to flooding sources affected by this revision.

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

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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.

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.

Luis Rodriguez, P.E., Chief Engineering Management Branch Federal Insurance and Mitigation Administration

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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. 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 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.

Luis Rodriguez, P.E., Chief Engineering Management Branch Federal Insurance and Mitigation Administration

15-08-1043P

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Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION (CONTINUED)

This revision is effective as of the date of this letter.	Any requests to review or alter this determination should be made within 30 days
and must be based on scientific or technical data	

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.

Luis Rodriguez, P.E., Chief Engineering Management Branch Federal Insurance and Mitigation Administration

15-08-1043P

102-D

	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)
	BLACKFOOT RIVER								
1 [А	785	121	2,838	9.6	3,253.3	3,253.3	3,253.3	0.0
Revised	В	909	204	3,443	7.3	3,255.0	3,255.0	3,255.0	0.0
Data	С	995	230	4,123	6.1	3,255.5	3,255.5	3,255.5	0.0
	D	1,084	215	4,239	6.1	3,255.6	3,255.6	3,255.6	0.0
	E	1,222	227	4,483	5.9	3,255.9	3,255.9	3,255.9	0.0
×	F	1,399	280	4,337	5.8	3,255.9	3,255.9	3,255.9	0.0
	G	1,764	224	4,203	6.2	3,256.6	3,256.6	3,256.6	0.0
	Н	1,837	258	4,299	6.0	3,256.6	3,256.6	3,256.6	0.0
	1	2,218	251	4,078	6.1	3,257.3	3,257.3	3,257.3	0.0
	J	3,556	249	3,536	7.1	3,257.9	3,257.9	3,257.9	0.0
	K	4,123	235	3,198	7.8	3,258.1	3,258.1	3,258.1	0.0
	L	4,633	229	3,134	8.0	3,258.5	3,258.5	3,258.5	0.0
	M	5,406	207	2,661	9.4	3,259.3	3,259.3	3,259.3	0.0
	N	5,689	295	3,831	6.5	3,260.7	3,260.7	3,260.7	0.0
	0	6,823	174	2,455	10.2	3,262.0	3,262.0	3,262.0	0.0
	Р	7,834	215	2,827	8.8	3,264.4	3,264.4	3,264.4	0.0
	Q	8,677	212	2,389	10.5	3,265.8	3,265.8	3,265.8	0.0
	R	10,636	157	2,208	11.3	3,271.5	3,271.5	3,271.9	0.4
	S	13,166	162	2,319	10.8	3,279.9	3,279.9	3,280.2	0.3
	Т	14,368	157	2,525	9.9	3,283.6	3,283.6	3,283.9	0.3
	U	15,054	284	3,469	7.2	3,286.0	3,286.0	3,286.4	0.4
	V	16,145	193	2,522	9.9	3,288.3	3,288.3	3,288.6	0.3
	W	17,256	250	3,261	7.7	3,291.1	3,291.1	3,291.2	0.1
	X	18,456	223	2,917	8.6	3,292.7	3,292.7	3,293.0	0.3
	Υ	22,611	187	2,006	12.5	3,304.3	3,304.3	3,304.8	0.5
	Feet Above Mouth								

¹ Feet Above Mouth

TABLE

FEDERAL EMERGENCY MANAGEMENT AGENCY

MISSOULA COUNTY, MT AND INCORPORATED AREAS

REVISED TO

REFLECT LOMR

DATED: July 29, 2015

FLOODWAY DATA

BLACKFOOT RIVER

	FLOODING SO	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)		WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
	CLARK FORK (cont.)								
	DL	214,167	335	5,003	8.5	3,214.1	3,214.1	3,214.1	0.0
	DM	214,217	339	5,226	8.1	3,214.2	3,214.2	3,214.7	0.5
	DN	214,337	323	4,348	9.8	3,214.3	3,214.3	3,214.8	0.5
	DO	214,427	324	4,379	9.7	3,214.4	3,214.4	3,214.9	0.5
	DP	215,177	286	3,734	11.4	3,215.7	3,215.7	3,216.1	0.4
	DQ	217,327	212	3,324	12.8	3,219.6	3,219.6	3,219.7	0.1
	DR	217,377	215	3,463	12.3	3,219.9	3,219.9	3,220.4	0.5
evised	DS	219,177	371	5,225	8.1	3,223.6	3,223.6	3,223.8	0.2
ata	DT	221,677	274	4,183	10.2	3,225.9	3,225.9	3,226.1	0.2
	DU	224,200	314	3,659	11.6	3,230.8	3,230.8	3,230.9	0.1
	DV	225,875	211	2,937	14.5	3,234.4	3,234.4	3,234.4	0.0
	DW	225,925	215	3,139	13.5	3,234.8	3,234.8	3,235.3	0.5
	DX	227,720	250	4,280	9.9	3,239.4	3,239.4	3,239.5	0.1
	DY	230,307	563	6,421	7.9	3,243.1	3,243.1	3,243.4	0.3
	DZ	231,212	636	5,609	9.1	3,244.8	3,244.8	3,244.8	0.0
	EA	231,509	942	8,285	6.2	3,246.3	3,246.3	3,246.4	0.1
	EB	232,103	1,290	8,842	3.0	3,247.7	3,247.7	3,247.8	0.1
	EC	232,292	1,227	8,393	3.6	3,247.8	3,247.8	3,247.9	0.1
	ED	232,595	1,280	7,636	4.0	3,248.1	3,248.1	3,248.2	0.1
	EE	233,048	996	4,497	6.0	3,249.1	3,249.1	3,249.1	0.0
	EF	235,229	863	4,891	5.6	3,255.5	3,255.5	3,255.7	0.2
	EG	235,849	849	3,891	6.7	3,257.2	3,257.2	3,257.4	0.2
	EH	237,262	2,922	7,057	4.1	3,262.4	3,262.4	3,262.4	0.0

¹ Feet Above Missoula County/Mineral County Line

FEDERAL EMERGENCY MANAGEMENT AGENCY

MISSOULA COUNTY, MT AND INCORPORATED AREAS **REVISED TO**

REFLECT LOMR DATED: July 29, 2015

FLOODWAY DATA

CLARK FORK

TABLE 5

	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 NAVD)
	CLARK FORK (cont.)								
	El	239,948	2,813	7,182	3.6	3,268.3	3,268.3	3,268.5	0.2
	EJ	243,602	1,644	5,401	4.8	3,280.7	3,280.7	3,280.9	0.2
1 1	EK	245,919	1,357	4,907	5.3	3,289.1	3,289.1	3,289.4	0.3
	EL	248,556	1,508	5,666	4.6	3,296.4	3,296.4	3,296.6	0.2
/ [EM	251,747	1,159	4,081	6.4	3,302.5	3,302.5	3,302.8	0.3
/	EN	255,277	784	4,009	6.5	3,314.0	3,314.0	3,314.2	0.2
Revised	EO	258,077	1,632	5,746	4.5	3,321.4	3,321.4	3,321.4	0.0
Data	EP	260,327	240	1,904	13.7	3,329.0	3,329.0	3,329.0	0.0
	EQ	260,377	260	2,236	11.6	3,329.9	3,329.9	3,330.4	0.5
	ER	261,857	420	3,354	7.8	3,336.0	3,336.0	3,336.1	0.1
	ES	264,497	344	2,469	10.5	3,342.1	3,342.1	3,342.6	0.5
	ET	266,757	492	3,374	7.7	3,350.5	3,350.5	3,350.5	0.0
	EU	269,777	601	3,356	7.7	3,358.9	3,358.9	3,359.3	0.4
	EV	270,817	366	3,494	7.4	3,361.7	3,361.7	3,362.0	0.3
	EW	270,867	367	3,600	7.2	3,361.9	3,361.9	3,362.4	0.5
	EX	271,827	1,566	2,368	11.0	3,365.2	3,365.2	3,365.2	0.0
	EY	275,837	1,624	5,919	4.4	3,382.4	3,382.4	3,382.4	0.0
	EZ	278,297	1,191	4,299	6.0	3,387.9	3,387.9	3,388.0	0.1
	FA	282,797	768	3,716	7.0	3,403.9	3,403.9	3,404.4	0.5
	FB	286,777	1,174	5,474	4.7	3,415.4	3,415.4	3,415.6	0.2
	FC	290,317	1,932	3,725	7.0	3,427.5	3,427.5	3,427.5	0.0
	FD	294,077	1,039	4,606	5.6	3,441.0	3,441.0	3,441.5	0.5
	FE	296,227	830	3,913	6.6	3,446.2	3,446.2	3,446.7	0.5

¹ Feet above Missoula County/Mineral County Line

FEDERAL EMERGENCY MANAGEMENT AGENCY

MISSOULA COUNTY, MT AND INCORPORATED AREAS

REVISED TO

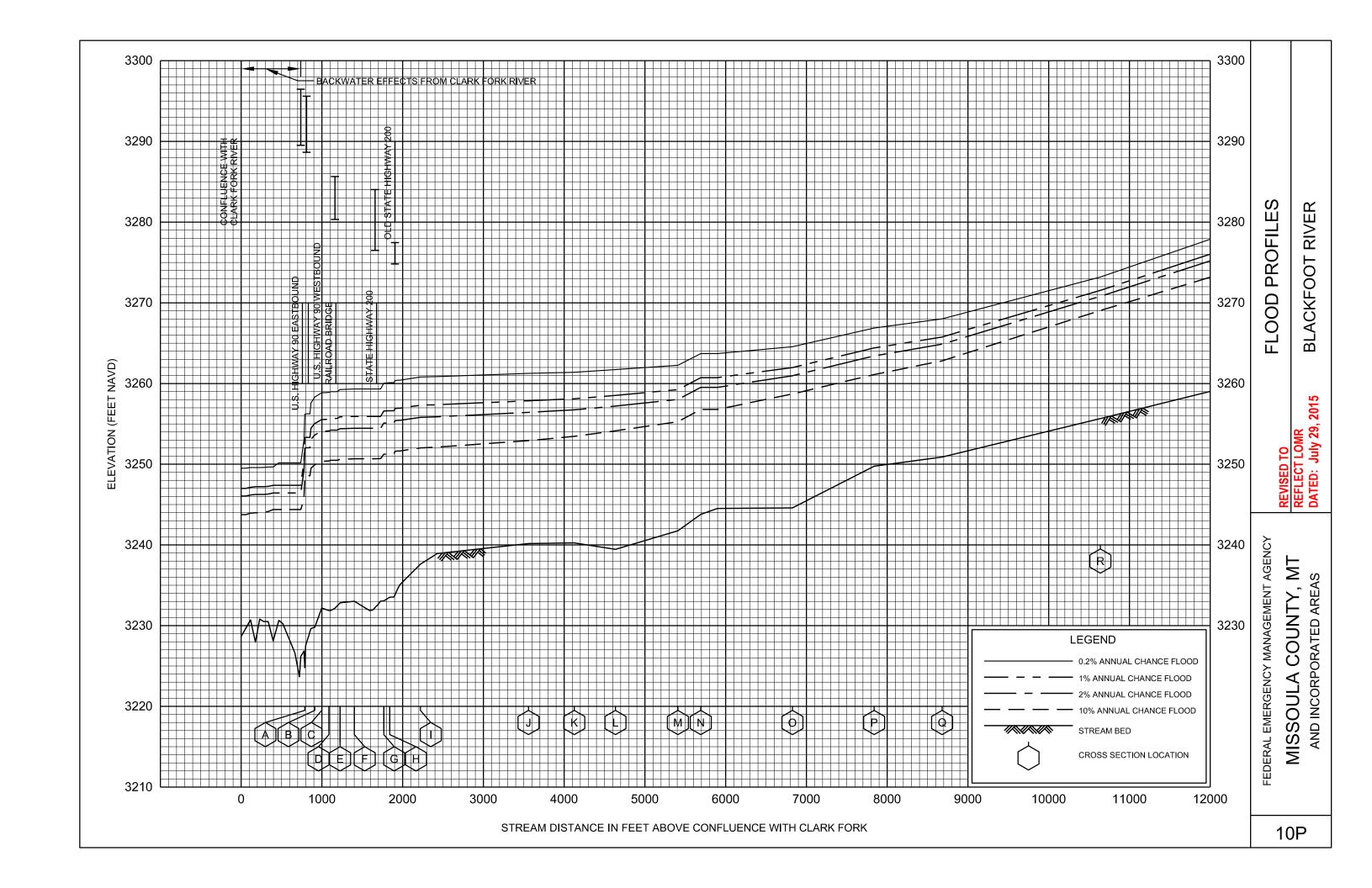
REFLECT LOMR

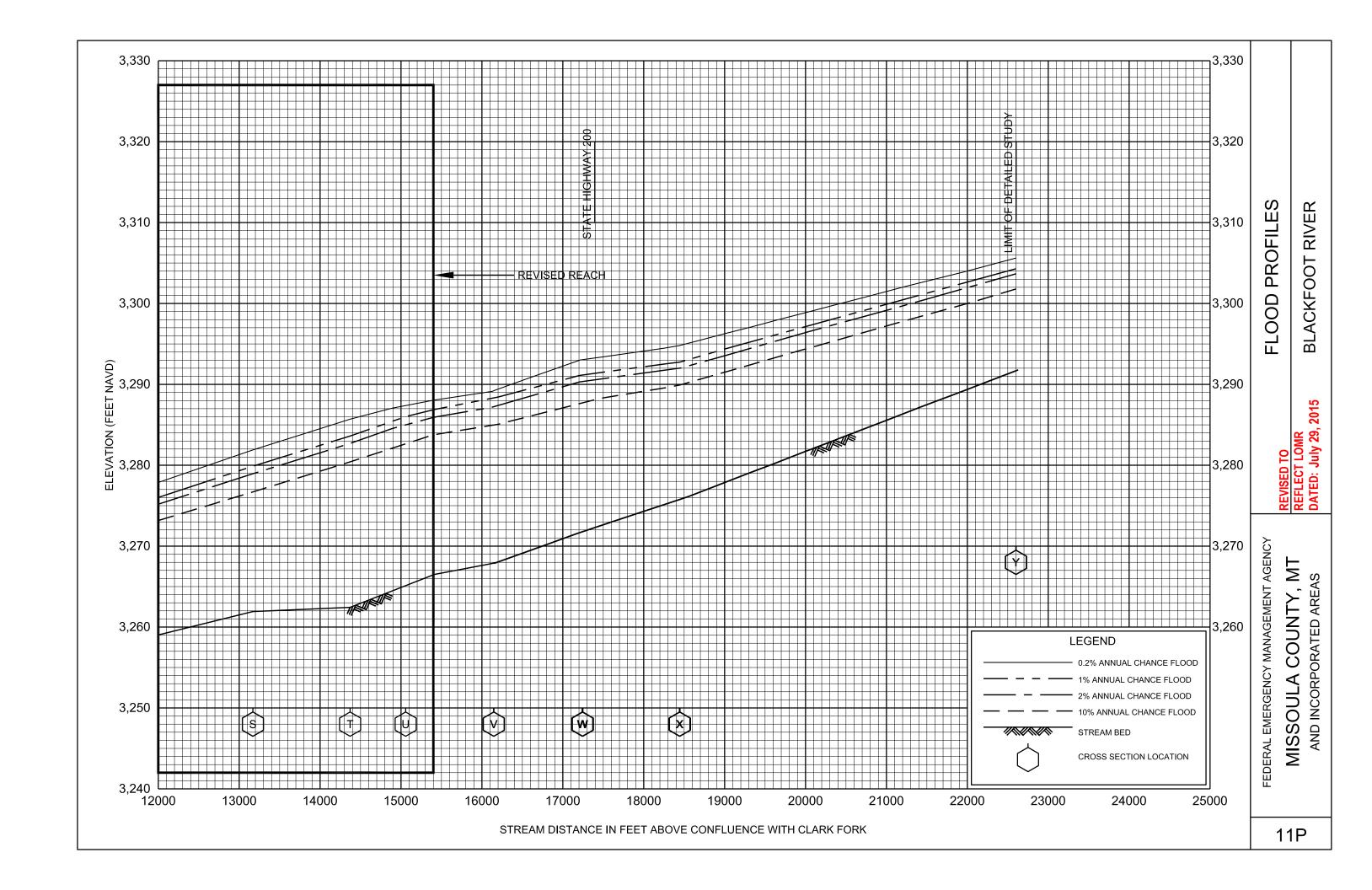
DATED: July 29, 2015

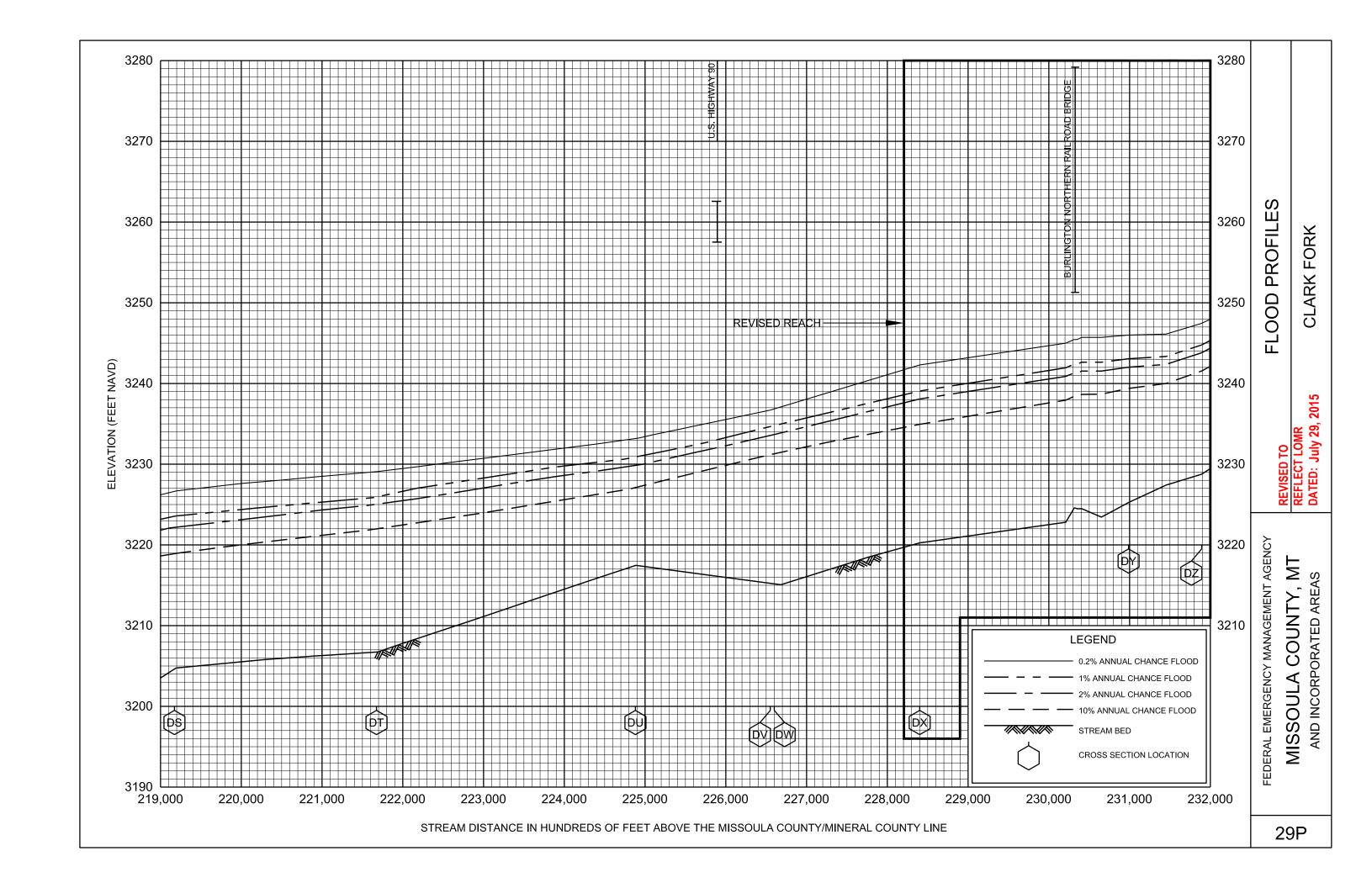
FLOODWAY DATA

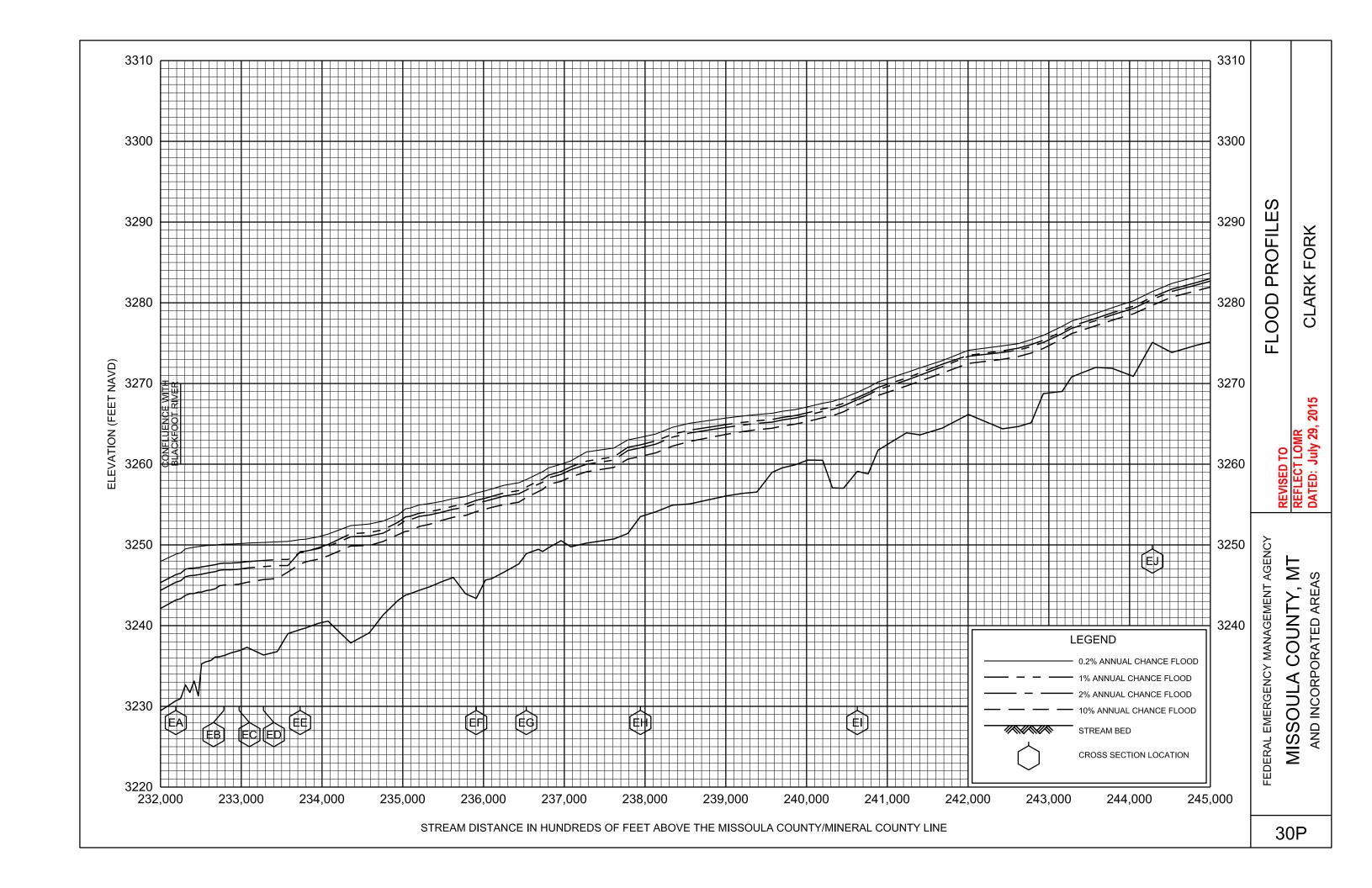
CLARK FORK

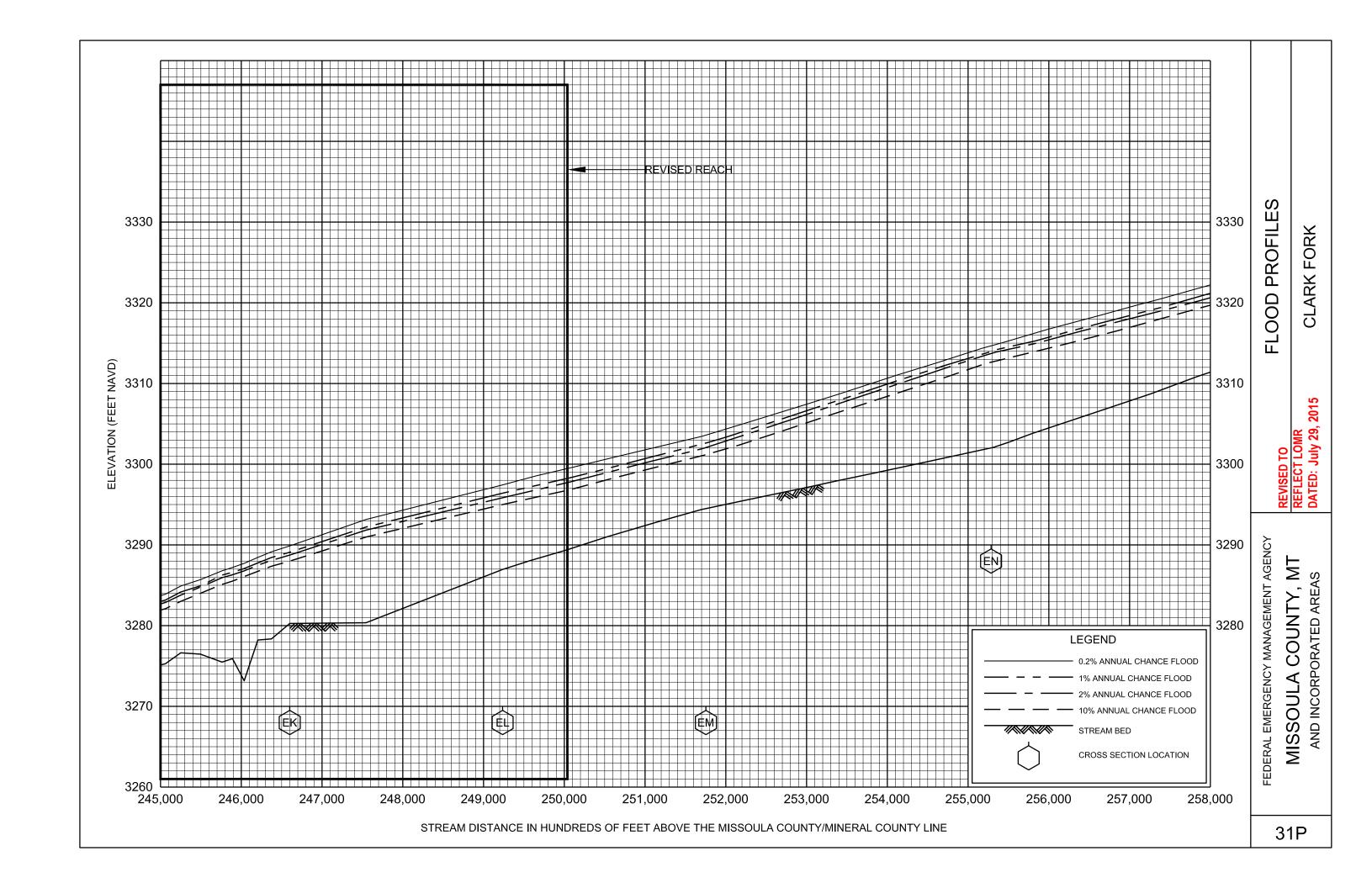
TABLE 5

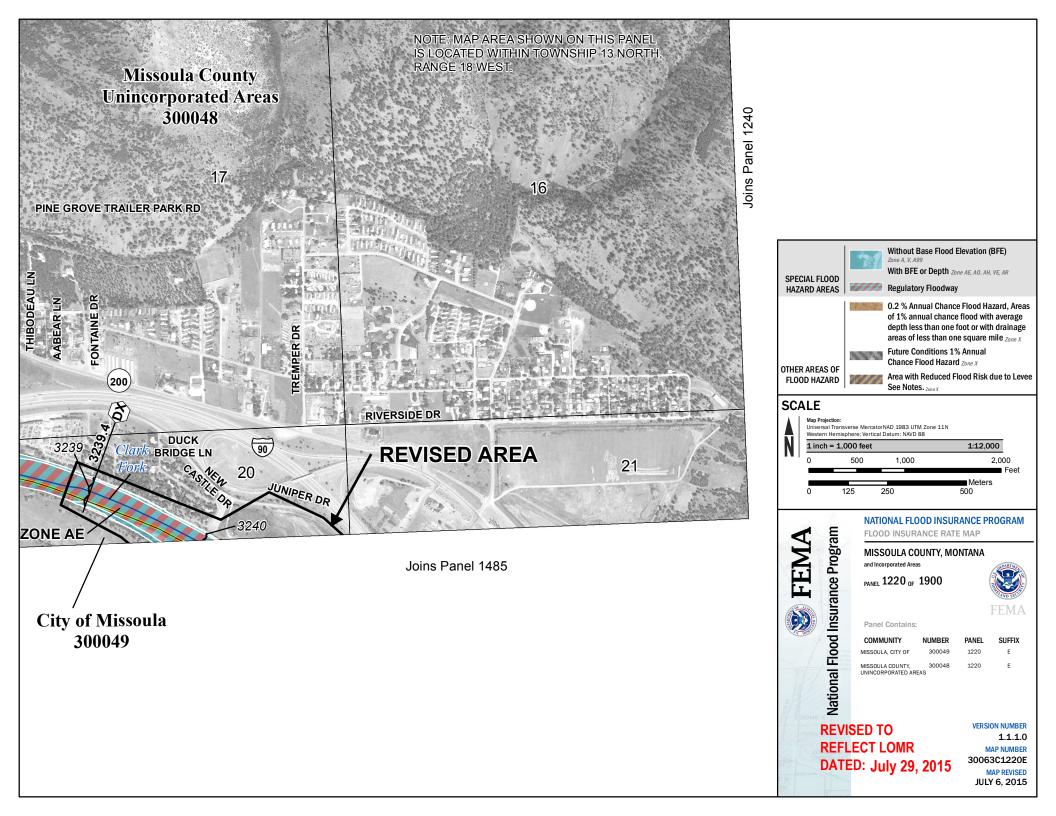


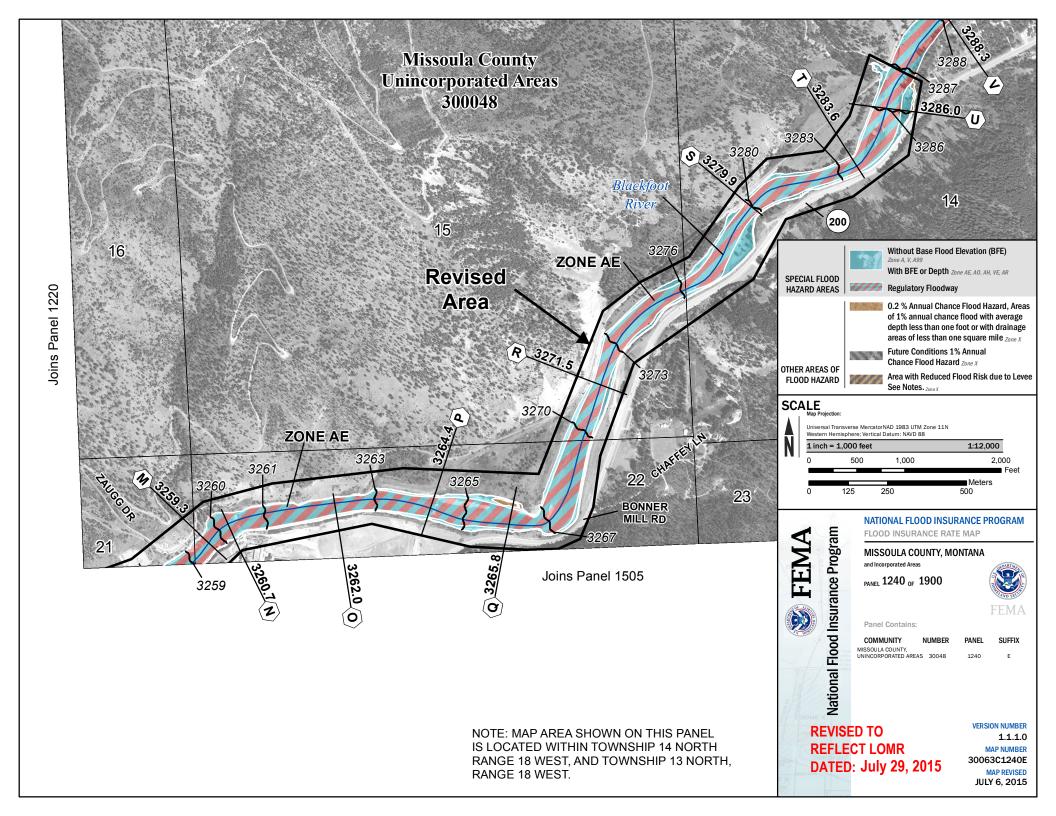












NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP13 NORTH, RANGE 18 WEST. **ANACONDA ST ZONE AE** BLACKFOOTST 3257 3 Blackfoot Joins Panel 1220 City of Missoula 300049 **ZONE AE** 21 3255.5 C G DEER CREEK OLD RD - REGAL - PHOENIX PONTIAC 20 (200) **BURLINGTON NORTHERN** & SANTA FE RAILWAY 19 Without Base Flood Elevation (BFE) SPECIAL FLOOD HAZARD AREAS **Missoula County Unincorporated Areas** of 1% annual chance flood with average 300048 depth less than one foot or with drainage Future Conditions 1% Annual OTHER AREAS OF **Revised Area** FLOOD HAZARD SCALE Map Project 1 inch = 1,000 feet 1:12,000 NATIONAL FLOOD INSURANCE PROGRAM **FEMA** National Flood Insurance Program FLOOD INSURANCE RATE MAP MISSOULA COUNTY, MONTANA **ZONE AE** 28 PANEL 1485 OF 1900 **REVISED TO** 1.1.1.0 REFLECT LOMR MAP NUMBER 30063C1485E **DATED: July 29, 2015** MAP REVISED JULY 6, 2015

