



# Federal Emergency Management Agency

Washington, D.C. 20472

August 14, 2014

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

The Honorable Greg Chilcott  
Chairman, Ravalli County Board of Commissioners  
215 South 4th Street, Suite A  
Hamilton, MT 59840

IN REPLY REFER TO:

Case No.: 14-08-0632P  
Community Name: Ravalli County, MT  
Community No.: 300061  
Effective Date of  
This Revision: **January 19, 2015**

Dear Mr. Chilcott:

The Flood Insurance Study report and Flood Insurance Rate Map for your community have been revised by this Letter of Map Revision (LOMR). Please use the enclosed annotated map panel(s) revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals issued in your community.

Additional documents are enclosed which provide information regarding this LOMR. Please see the List of Enclosures below to determine which documents are included. Other attachments specific to this request may be included as referenced in the Determination Document. If you have any questions regarding floodplain management regulations for your community or the National Flood Insurance Program (NFIP) in general, please contact the Consultation Coordination Officer for your community. If you have any technical questions regarding this LOMR, please contact the Director, Mitigation Division of the Department of Homeland Security's Federal Emergency Management Agency (FEMA) in Denver, Colorado, at (303) 235-4830, or the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP). Additional information about the NFIP is available on our website at <http://www.fema.gov/business/nfip>.

Sincerely,

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

RECEIVED

AUG 20 2014

Ravalli County Commissioners

--	--	--	--	--

cc Brian W.

List of Enclosures:

- Letter of Map Revision Determination Document
- Annotated Flood Insurance Rate Map
- Annotated Flood Insurance Study Report

cc: Mr. Eric Anderson, P.E.  
Floodplain Administrator  
Ravalli County

Mr. Joseph Smith, P.E., LSIT  
Project Engineer  
Morrison Maierle, Inc.

Mr. Paul Barteni  
Daly Ditches Irrigation District





**Federal Emergency Management Agency**  
Washington, D.C. 20472

**LETTER OF MAP REVISION  
DETERMINATION DOCUMENT**

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	Ravalli County Montana (Unincorporated Areas)	DAM	FLOODWAY HYDRAULIC ANALYSIS NEW TOPOGRAPHIC DATA
	COMMUNITY NO.: 300061		
IDENTIFIER	Daly Ditches	APPROXIMATE LATITUDE & LONGITUDE: 46.117, -114.171 SOURCE: USGS QUADRANGLE      DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM*      NO.: 30081C0860D      DATE: January 16, 2015		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: January 16, 2015 PROFILE(S): 11P FLOODWAY DATA TABLE: 5	

Enclosures reflect changes to flooding sources affected by this revision.

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

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

Bitterroot River - from approximately 6,410 feet downstream to approximately 14,070 feet downstream of Old Darby Road

**SUMMARY OF REVISIONS**

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Bitterroot River	Zone AE	Zone AE	YES	YES
	BFEs*	BFEs	YES	YES
	Floodway	Floodway	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 Map Information eXchange toll free at 1-877-338-2627 (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



# 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 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>.

A handwritten signature in black ink, appearing to read "Luis Rodriguez".

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



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 are processing a revised countywide FIRM and FIS report for Ravalli County, MT and Incorporated Areas. The revised countywide FIRM, which includes flood hazard information for your community, will become effective on January 16, 2015. Because the effective date has already been established, we will not incorporate the modifications made by this LOMR into the countywide FIRM before they become effective. However, the modifications made by this LOMR will supersede the countywide FIRM after it becomes effective.

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 1-877-338-2627 (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>.

A handwritten signature in black ink, appearing to read "Luis Rodriguez".

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



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 [https://www.floodmaps.fema.gov/fhm/Scripts/bfe\\_main.asp](https://www.floodmaps.fema.gov/fhm/Scripts/bfe_main.asp).

**LOCAL NEWSPAPER**

Name: *The Ravalli Republic*

Dates: August 22, 2014 and August 29, 2014

Within 90 days of the second publication in the local newspaper, a citizen 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 on January 19, 2015, 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 information 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, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

A handwritten signature in black ink, appearing to read "Luis Rodriguez".

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

FLOODING SOURCE		FLOODWAY			1-PERCENT ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Bitterroot River (Continued)								
BV	205,920	469 <sup>2</sup>	2,894	6.2	3,604.5	3,604.5	3,604.7	0.2
BW	208,120	301	2,173	8.3	3,611.4	3,611.4	3,611.7	0.3
BX	208,470	386	3,152	5.7	3,616.1	3,616.1	3,616.1	0.0
BY	212,270	336	2,440	7.4	3,625.7	3,625.7	3,625.8	0.1
BZ	216,270	1,839	6,664	5.3	3,636.4	3,636.4	3,636.9	0.5
CA	218,270	1,305	4,138	7.2	3,643.1	3,643.1	3,643.5	0.4
CB	222,070	1,615	4,274	6.3	3,656.3	3,656.3	3,656.7	0.4
CC	225,070	391	2,122	7.9	3,670.3	3,670.3	3,670.4	0.1
CD	229,070	991	4,047	5.3	3,680.3	3,680.3	3,680.3	0.0
CE	231,170	547	2,474	6.8	3,689.1	3,689.1	3,689.2	0.1
CF	234,170	270	1,972	8.5	3,699.7	3,699.7	3,699.8	0.1
CG	239,170	1,490	4,640	3.6	3,716.3	3,716.3	3,716.5	0.2
CH	242,170	1,850	5,541	4.2	3,725.8	3,725.8	3,726.1	0.3
CI	245,810	553	2,691	6.2	3,740.8	3,740.8	3,741.3	0.5
CJ	250,960	808	3,308	5.1	3,757.1	3,757.1	3,757.4	0.3
CK	253,670	944	4,070	7.0	3,766.7	3,766.7	3,767.1	0.4
CL	256,270	360	1,918	8.0	3,775.8	3,775.8	3,775.9	0.1
CM	256,470	375	2,222	8.0	3,777.4	3,777.4	3,777.4	0.0
CN	257,770	322	2,114	7.2	3,781.6	3,781.6	3,781.6	0.0
CO	261,770	178	1,652	9.2	3,794.9	3,794.9	3,794.9	0.0
CP	263,770	450	2,691	7.2	3,800.0	3,800.0	3,800.4	0.4
CQ	266,770	613	2,970	6.6	3,809.1	3,809.1	3,809.2	0.1
CR	268,270	461	2,517	7.0	3,813.1	3,813.1	3,813.5	0.4
CS	273,270	1,291	4,310	5.0	3,828.7	3,828.7	3,828.8	0.1

REVISED  
DATA



<sup>1</sup>Feet Above County Boundary <sup>2</sup>Map Top Width Not Equal Due to Redelineation

TABLE 5

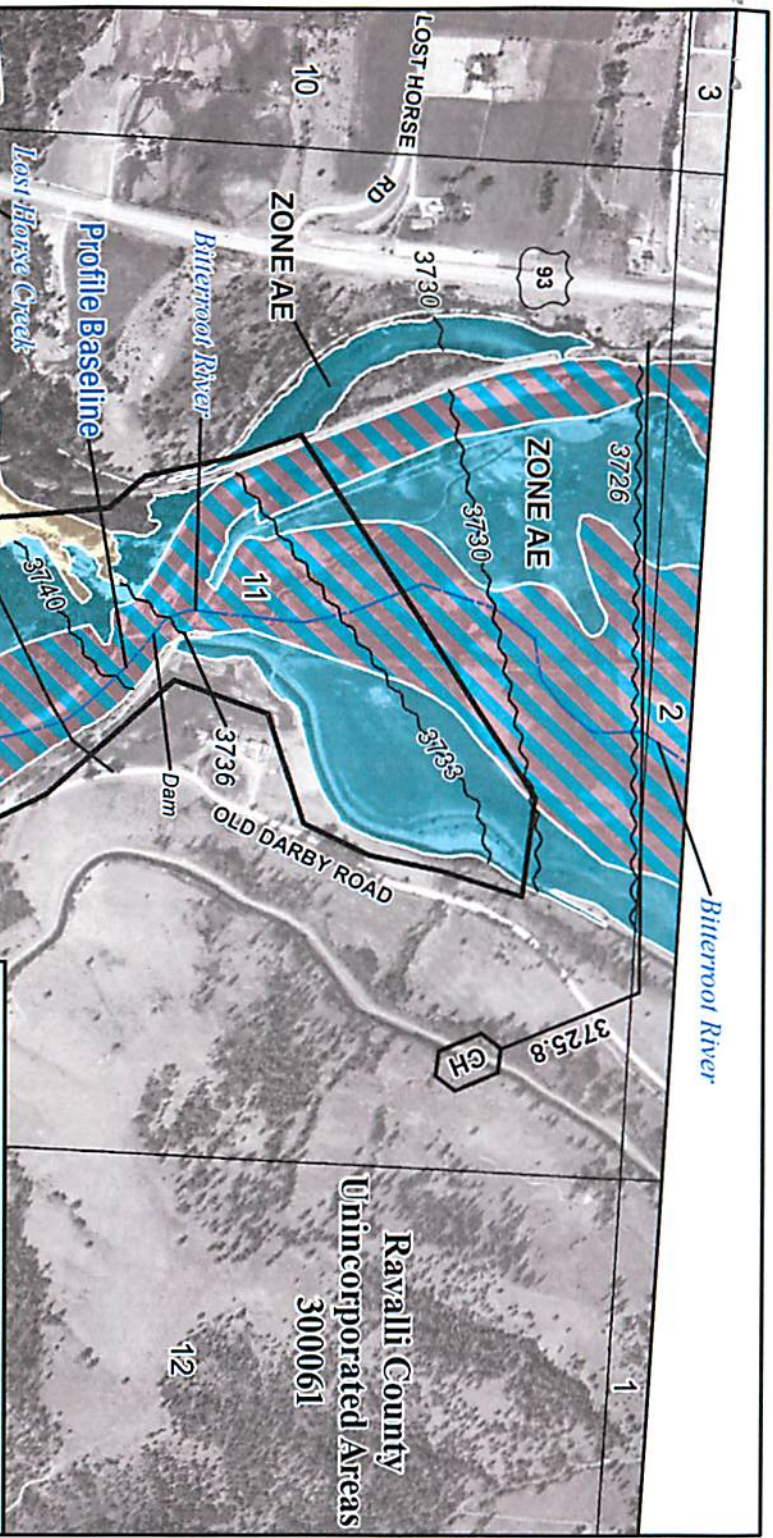
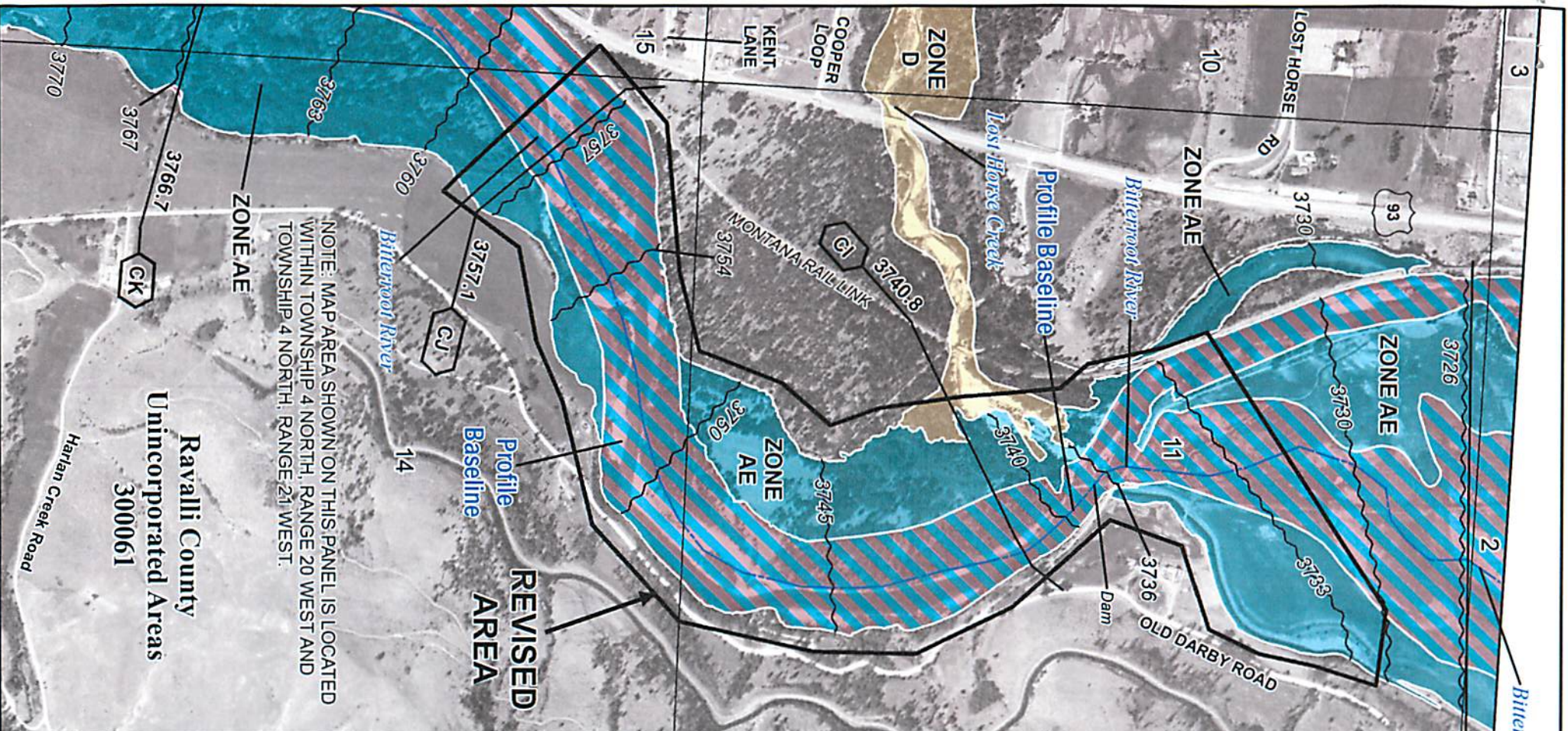
FEDERAL EMERGENCY MANAGEMENT AGENCY

RAVALLI COUNTY, MT  
AND INCORPORATED AREAS

FLOODWAY DATA

REVISED TO  
REFLECT LOMR  
EFFECTIVE: January 19, 2015

BITTERROOT RIVER



**SPECIAL FLOOD HAZARD AREAS**

- Without Base Flood Elevation (BFE) 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

**OTHER AREAS OF FLOOD HAZARD**

**SCALE**

Map Projection: NAD83 STATE PLANE Montana FIPS 2500 (Feet) Western Hemisphere, Vertical Datum: NP

1 inch = 1,000 feet 1:12,000

0 500 1,000 2,000 Feet

0 150 300 Meters

**FEMA**  
National Flood Insurance Program

**NATIONAL FLOOD INSURANCE PROGRAM  
FLOOD INSURANCE RATE MAP  
RAVALLI COUNTY, MONTANA  
AND UNINCORPORATED AREAS  
PANEL 860 OF 1725**

Panel Contains:  
COMMUNITY NUMBER PANEL SUFFIX  
RAVALLI COUNTY 300061 0980 0

**REVISED TO REFLECT LOMR  
EFFECTIVE: January 19, 2015**

VERSION NUMBER 1.1.10  
MAP NUMBER 30084C0860D  
MAP REVISED JANUARY 16, 2015