MISSOULA COUNTY FLOODPLAIN HAZARD MANAGEMENT REGULATIONS

Effective: March 25, 2024



Rattlesnake Creek, 1908 Flood

Missoula County Floodplain Regulations

Adopted by Resolutions:

#75-20 and #75-23 - March 28, 1975

Amended by Resolutions:

#83-73 - June 30, 1983

#88-083 - August 10, 1988

#88-101 - September 21, 1988

#88-111 - October 19, 1988

#91-013 – January 30, 1991

#95-043 - June 6, 1995

#2000-021 - March 8, 2000

#2002-117 - September 4, 2002

#2004-088 – June 9, 2004

#2015-070 – July 6, 2015

#2017-165 – April 27, 2017

#2019-017 - February 28, 2019

#2023-066 - August 28, 2023

#2024-017 - February 22, 2024

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SECTION 1. TITLE, PURPOSE, AUTHORITY AND GENERAL PROVISIONS

1.1 FLOODPLAIN HAZARD MANAGEMENT REGULATIONS

These regulations are known and may be cited as the "Missoula County Floodplain Hazard Management Regulations;" hereinafter referred to as "these regulations." These Regulations are in accordance with exercising the authority of the laws of the State of Montana and are passed in order to comply with the Montana Floodplain and Floodway Management Act and to ensure compliance with the requirements for the continued participation by Missoula County in the National Flood Insurance Program. These Land-use regulations are hereby adopted and apply to all designated Regulated Flood Hazard Areas within the jurisdiction of Missoula County. These regulations shall apply to all lands within the jurisdiction of the County of Missoula, State of Montana, shown on the Official Floodplain Maps as being located within the floodplain.

1.2 STATUTORY AND REGULATORY AUTHORITY

- 1. Floodplain and Floodway Management is codified at Montana Code Annotated (MCA) Title 76, Chapter 5 and describes the authority, procedures, and minimum standards for local regulations. Regulation for Floodplain Management established by the Montana Department of Natural Resources and Conservation (DNRC) are located in Administrative Rules of Montana (ARM), Chapter 36.15.
- **2.** The authority to regulate development in specifically identified flood hazard areas has been accepted pursuant to 76-5-301, MCA.

1.3 FINDINGS OF FACT

- 1. Flood hazard areas specifically adopted herein as Regulated Flood Hazard Areas have been delineated and designated by order or determination of the DNRC pursuant to 76-5-201, MCA et.seq.
- 2. These regulations have been reviewed by Montana Department of Natural Resources and Conservation and the Federal Emergency Management Agency. The Montana Department of Natural Resources and Conservation has found the regulations acceptable in meeting the Department minimum standards. The Federal Emergency Management Agency finds that these regulations are adequate and consistent with the comprehensive criteria for land management and use pursuant to the standards established in 44 CFR 60.

1.4 PURPOSE

The purpose of these regulations is to promote public health, safety, and general welfare, to minimize public and private flood losses in areas subject to flood hazards, and to promote wise use of the floodplain. These Regulations have been established with the following purposes intended:

- A. To guide development of the 100-year floodplain areas of Missoula County consistent with the enumerated findings by:
 - 1. Recognizing the right and need of water courses to periodically carry more than the normal flow of water;

- 2. Participating in coordinating efforts of federal, state and local management activities for 100- year floodplains; and
- 3. Ensuring that the regulations and minimum standards adopted, insofar as possible, balance the greatest public good with the least private injury.
- B. Specifically it is the purpose of these Regulations to:
 - 1. Protect human life and health:
 - 2. Minimize expenditure of public money for costly flood control projects;
 - Minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, streets and bridges.
 - 4. Restrict or prohibit uses which are dangerous to health, safety, and welfare of property in times of flood, or cause increase flood heights or velocities;
 - 5. Require that uses vulnerable to floods, including public facilities which serve such uses, be provided with flood protection at the time of initial construction:
 - 6. Utilize information which identifies lands which are unsuited for certain development purposes because of flood hazards;
 - 7. Minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
 - 8. Ensure that potential buyers are notified that property is within a 100-year floodplain and subject to the provisions of these Regulations;
 - 9. Minimize prolonged business and public service interruptions;
 - 10. Help maintain a stable tax base by providing for the sound use and development of floodprone areas in such a manner as to minimize future flood disruptions;
 - 11. Ensure compliance with the minimum standards for the continued participation in the National Flood Insurance program for the benefit of the residents; and
 - 12. Ensure that those who occupy 100-year floodplains assume responsibility for their actions.
 - 13. In formulating community development goals, the community shall consider the development of a plan for evacuating floodplain residents. This plan should be developed, filed with, and approved by appropriate community emergency management authorities.

1.5 METHODS TO REDUCE LOSSES

In accordance with 76-5-102, MCA, these regulations are intended to reduce flood losses through the following methods:

- 1. Restrict or prohibit uses that are dangerous to health, safety or property in times of flooding or that may cause excessive increases in flood heights or velocity;
- 2. Require that uses of land vulnerable to floods, including public facilities, be developed or constructed to at least minimum standards or to otherwise minimize flood damage;
- **3.** Regulate the alteration of natural floodplains, stream channels, and natural protective barriers which are needed to accommodate floodwaters;
- **4.** Regulate filling, grading, dredging and other development which may increase flood damage;
- **5.** Prevent or regulate the construction of flood barriers which will impact other land, flood water depth or velocity of floodwaters;
- **6.** Distinguish between the land use regulations applied to the floodway within the Regulated Flood Hazard Area and those applied to that portion of the Regulated Flood Hazard Area not contained in the floodway;
- **7.** Apply more restrictive land use regulations within the floodway of the Regulated Flood Hazard Area; and
- **8.** Ensure that regulations and minimum standards balance the greatest public good with the least private injury.

1.6 REGULATED AREA

These regulations apply only to the flood hazard areas specifically adopted herein as Regulated Flood Hazard Areas which are more fully and specifically described in Section 4. Requirements and approvals for alterations to the Regulated Flood Hazard Area are specified in Section 4. The Regulated Flood Hazard Area includes areas specifically identified, labeled, and illustrated on maps such as Floodplain, Floodway, or Flood Fringe that have differing uses allowed and minimum building standards that apply. The Regulated Flood Hazard Area is the geographic area inundated by the Flood of 100-year Frequency illustrated and depicted in the referenced studies and maps. The Regulated Flood Hazard Area includes areas designated as Shaded Zone-X by FEMA as described in Section 4.

The Regulated Flood Hazard Area supporting study and maps illustrating the regulatory area are based on studies and maps that have been specifically adopted pursuant to 76-5-201et.seq. The maps and accompanying study become the Regulated Flood Hazard Area only when formally adopted by DNRC and subsequently by the political subdivision by these regulations. The original source of studies and data may be from a Flood Insurance Study by FEMA, or other studies by Corps of Engineers, Soil Conservation, United States Geological Service or other federal or state agency.

1.7 FLOODPLAIN ADMINISTRATOR

A Floodplain Administrator is hereby the responsibility of the Missoula County Department of Planning, Development, and Sustainability. The Floodplain Administrator's duty is to administer and implement the provisions of these regulations.

The Floodplain Administrator must serve to meet and maintain the commitments pursuant to 44 CFR 59.22(a) to FEMA to remain eligible for National Flood Insurance for individuals and business within the political subdivision.

1.8 COMPLIANCE Development, New Construction, Alteration or Substantial Improvement may not commence without full compliance with the provisions of these regulations. No structure or land use shall be located, extended, converted, replaced, structurally altered, or substantially improved without full compliance with the provisions of these regulations and other applicable regulations.

1.9 ABROGATION AND GREATER RESPONSIBILITY

It is not intended by these regulations to repeal, abrogate, or impair any existing easements, covenants, deed restrictions, zoning or other regulations in effect. However, where these regulations impose greater restrictions, the provision of these regulations must prevail.

1.10 REGULATION INTERPRETATION

In the interpretation and application of these regulations, all provisions shall be: (1) considered as minimum requirements; (2) liberally construed in favor of the governing body; and (3) deemed neither to limit nor repeal any other powers granted under state statute or regulation.

1.11 WARNING AND DISCLAIMER OF LIABILITY

These regulations do not imply that land outside the Regulated Flood Hazard Areas or uses permitted within such areas will be free from flooding or flood damages. These regulations shall not create liability on the part of the community or any official or employee thereof for any flood damages that result from reliance on these regulations or any administrative decision lawfully made hereunder.

1.12 SEVERABILITY

If any section, clause, sentence, or phrase of these regulations is held to be invalid or unconstitutional by any court of competent jurisdiction, then said holding will in no way affect the validity of the remaining portions of these regulations.

1.13 DISCLOSURE PROVISION

All property owners or their agents in the Regulated Flood Hazard Areas shall notify potential buyers or their agents that such property, including any permitted uses transferred, is located within the Regulated Flood Hazard Area and is subject to regulation and any permitted uses that are transferred. Information regarding Regulated Flood Hazard Area and the repository for Floodplain maps is available in the Floodplain Administrator's office. Upon resale of property, the lending institution should notify potential buyers a minimum of ten days prior to closing that the property is located within a special flood hazard area. The lender should also notify potential buyers whether, in the event of a flood disaster, Federal disaster relief would be available to the property.

1.14 AMENDMENT OF REGULATIONS

These regulations may be amended after notice and public hearing in regard to the amendments to these regulations. The amendments must be found adequate and acceptable by DNRC and FEMA to be effective and must be submitted for review at least 30 days prior to official adoption.

1.15 PUBLIC RECORDS

Records, including permits and applications, elevation and floodproofing certificates, certificates of compliance, fee receipts, and other matters relating to these regulations must be maintained by the Floodplain Administrator and are public records and must be made available for inspection and for copies upon reasonable request. A reasonable copying cost for copying documents for members of the public may be charged and may require payments of the costs before providing the copies.

1.16 SUBDIVISION REVIEW

The requirements of the Missoula County Subdivision Regulations, in addition to those established in these regulations including but not limited to Section 10, apply to subdivisions within the Regulated Flood Hazard Area, including but not limited to new or expansion of existing manufactured home parks, must be designed to meet the following criteria:

- The Base Flood Elevations and boundary of the Regulated Flood Hazard area must be determined and considered during lot layout and building location design;
- **2.** Locations for future structures and development must be reasonably safe from flooding;
- **3.** Adequate surface water drainage must be provided to reduce exposure to flood hazards;
- **4.** Public utilities and facilities such as sewer, gas, electrical and water systems must be located and constructed to minimize or eliminate flood damage; and
- **5.** Floodplain permits must be obtained according to these regulations before development occurs that is within the Regulated Flood Hazard Area.

1.17 DISASTER RECOVERY

In the event of a natural or man-made disaster, the Floodplain Administrator should participate in the coordination of assistance and provide information to structure owners concerning Hazard Mitigation and Recovery measures with the Federal Emergency Management Agency, Montana Disaster Emergency Services, Montana Department of Natural Resources and Conservation, and other state, local and private emergency service organizations.

Upon completion of cursory street view structure condition survey of the Regulated Flood Hazard Area, the Floodplain Administrator shall notify property owners that a permit may be necessary for an alteration or substantial improvement before repair or reconstruction commences on damaged structures. These permitting requirements apply even when structures are damaged by natural or man-made disasters such as floods, earthquakes, fires or winds.

Owners should be advised that structures that have suffered substantial damage and will undergo substantial improvements require a floodplain application and permit and must be upgraded to meet the minimum building standards herein during repair or reconstruction.

SECTION 2. DEFINITIONS

Unless specifically defined below, words or phrases used in these regulations shall be interpreted as to give them the meaning they have in common usage and the most reasonable application. For the purpose of these regulations, the following definitions are adopted:

100-year Flood – One percent (1%) annual chance flood. See Base Flood

Alteration – Any change or addition to an artificial obstruction that either increases its external dimensions or increases its potential flood hazard.

Appurtenant or Accessory Structure – A structure in which the use is incidental or accessory to the use of a principal structure.

Artificial Obstruction – Any obstruction which is not natural and includes any development, dam, diversion, wall, riprap, embankment, levee, dike, pile, abutment, projection, revetment, excavation, channel rectification, road, bridge, conduit, culvert, building, refuse, automobile body, fill or other analogous structure or matter in, along, across, or projecting into any Regulated Flood Hazard Area that may impede, retard, or change the direction of the flow of water, either in itself or by catching or collecting debris carried by the water, or that is placed where the natural flow of the water would carry the same downstream to the damage or detriment of either life or property. See also Development.

Appeal - A request for a review of the Floodplain Administrator's interpretation of any provision of these Regulations.

Base Flood (Flood of 100 Year Frequency) – A flood having a one percent (1%) chance of being equaled or exceeded in any given year.

Base Flood Elevation (BFE) – The elevation above sea level of the Base Flood in relation to the National Geodic Vertical Datum of 1929 or the North American Vertical Datum of 1988 or unless otherwise specified.

Basement – Any area of a building, except a crawl space, as having its Lowest floor below ground level on all sides.

Building – A walled and roofed structure, including a gas or liquid storage tank that is principally above ground, as well as a manufactured home.

Channel – The geographical area within either the natural or artificial banks of a watercourse or drain way.

Channelization Project - The excavation and/or construction of an artificial channel for the purpose of diverting the entire flow of a stream from its established course, or the

placement of a stream in a culvert or artificially lined or armored channel other than for the purposes of perpendicular road crossings.

Crawl Space – An enclosure that has its interior floor area no more than 5 feet below the top of the next highest floor. See Enclosure and Sub Grade Crawlspace.

DNRC – Montana Department of Natural Resources and Conservation

Development –Any man-made change to improved or unimproved real estate, including but not limited to buildings or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations or storage of equipment or materials. See also Artificial Obstruction.

Elevated Building – A building that has no Basement and that has it lowest elevated floor raised above ground level by foundation walls, shear walls, posts, piers, pilings or columns. A building on a crawlspace may be considered an elevated building.

Enclosure – That portion below the lowest elevated floor of an elevated building that is either partially or fully shut in by rigid walls including a crawlspace, sub grade crawlspace, stairwell, elevator or a garage below or attached.

Encroachment – Activities or construction within the Regulated Flood Hazard Area including fill, new construction, substantial improvements, and other development.

Encroachment Analysis – A hydrologic and hydraulic analysis performed by an engineer to assess the effects of the proposed artificial obstruction or nonconforming use on Base Flood Elevation, flood flows and flood velocities.

Establish – To construct, place, insert, or excavate.

Existing Artificial Obstruction or Nonconforming Use – An artificial obstruction or nonconforming use that was established before land use regulations were adopted pursuant to Section 76-5-301(1), MCA.

Existing Manufactured Home Park or Subdivision - A manufactured home park or subdivision where the construction of facilities for servicing the manufactured homes lots is completed before the effective date of the floodplain management regulations. This includes, at a minimum, the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads.

FEMA – Federal Emergency Management Agency

Flood or Flooding - A general and temporary condition of partial or complete inundation of lands from the overflow of a stream, or the unusual and rapid accumulation or runoff of surface waters from any source.

Floodplain Administrator – The Director of the Missoula County Planning, Development, and Sustainability Department or his/her designee appointed to administer and implement the provisions of these regulations.

Floodplain - The areas subject to these regulations, generally adjoining a stream, that would be covered by floodwater of a base flood including areas designated as A, AE, AH, AO, Floodway and Shaded Zone- X by FEMA.

Flood Fringe – The identified portion of the Floodplain of the Regulated Flood Hazard Area outside the limits of the Floodway.

Flood of 100 Year Frequency (Base Flood) – A flood magnitude expected to recur on the average of once every 100-years or a flood magnitude that has a 1% chance of occurring in any given year.

Flood Insurance Rate Map (FIRM) - Official map of a community on which FEMA has delineated the Special Flood Hazard Areas (SFHAs), the Base Flood Elevations (BFEs), and the risk premium zones applicable to the community.

Flood Insurance Study (FIS) - A compilation and presentation of flood risk data for specific watercourses, lakes, and coastal flood hazard areas within a community. When a flood study is completed for the NFIP, the information and maps are assembled into an FIS. The FIS report contains detailed flood elevation data in flood profiles and data tables.

Floodplain – The area of the Regulated Flood Hazard Area including and adjoining the watercourse or drainway that would be covered by the floodwater of a Base Flood. The area is partitioned into a Flood Fringe and Floodway where specifically designated. See Regulated Flood Hazard Area.

Floodway – The identified portion of the Floodplain of the Regulated Flood Hazard Area that is the channel and the area adjoining the channel that is reasonably required to carry the discharge of the Base Flood without cumulatively increasing the water surface by more than one half foot.

Floodplain Permit – The permit issued by the Floodplain Administrator that confirms a proposed Development, New Construction, Alteration or Substantial Improvement in the Regulated Flood Hazard Area is designed to comply with the requirements of these Regulations, either as proposed or with conditions.

Flood Proofing – Any combination of structural and non-structural additions, changes, or adjustments to structures which reduce or eliminate flood damage to real estate or improved real property, water and sanitary facilities, electrical, plumbing, HVAC systems, structures and their contents. The term includes wet flood proofing, dry flood proofing and elevation of structures.

Historic Structure- means any structure that is:

- (a) Listed individually in the National Register of Historic Places (a listing maintained by the Department of Interior) or preliminarily determined by the Secretary of the Interior as meeting the requirements for individual listing on the National Register. (b) Certified or preliminarily determined by the Secretary of the Interior as contributing to the historical significance of a registered historic district or a district preliminarily determined by the Secretary to qualify as a registered historic district; (c) Individually listed on a state inventory of historic places in states with historic
- preservation programs which have been approved by the Secretary of the Interior; or (d) Individually listed on a local inventory of historic places in communities with historic preservation programs that have been certified either:
 - (1) By an approved state program as determined by the Secretary of the Interior or
 - (2) Directly by the Secretary of the Interior in states without approved programs.

Letter of Map Change (LOMC) – An official response from FEMA that amends or revises the FEMA Special Flood Hazard Area and FEMA Flood Insurance Study for flood insurance purposes and/or flood risk hazard. FEMA Letters of Map Change specific to an amendment or revision include:

Letter of Map Amendment (LOMA) – A letter of determination from FEMA issued in response to a request that a property or structure is not subject to the mandatory flood insurance requirement because it was inadvertently located in the effective FEMA Special Flood Hazard Area. The material submitted and response from FEMA may be considered by the Floodplain Administrator for determining if a property or structure is within the Regulated Flood Hazard area and subject to these regulations.

Letter of Map Revision Based on Fill (LOMR-F) – A letter of approval from FEMA removing the mandatory requirement for flood insurance on property based on placement of fill or an addition. Placement of fill or an addition must be preceded by a permit pursuant to these regulations. Placement of fill does not remove the development from the Regulated Flood Hazard Area or these regulations.

Letter of Map Amendment Floodway Revision (LOMA-FW) – A letter of determination from FEMA issued in response to a request that a property or Structure mapped as being within the Floodway is not subject to the mandatory flood insurance requirement because it was inadvertently located in the effective FEMA Special Flood Hazard Area.

Letter of Map Revision (LOMR) – An official FEMA amendment to the currently effective FEMA Flood Insurance Rate Map or FEMA Flood Boundary Map based on a physical change to the floodplain of the Special Flood Hazard Area. It is issued by FEMA and changes flood zones, delineations, and elevations on the FEMA Flood Insurance Rate Map or FEMA Flood Boundary Map and may amend the FEMA Flood Insurance Study. It must be preceded by an approved alteration of the designated floodplain from DNRC and subsequently an amendment to the Regulated Flood Hazard Area.

Conditional Letter of Map Revision (CLOMR) – A FEMA letter of approval for a proposed physical change that when completed would propose to change the flood zones, delineation or elevations on the FEMA Flood Insurance Rate Map or FEMA Flood Boundary Map and may amend the FEMA Flood Insurance Study through a subsequent LOMR. The CLOMR may be considered in an evaluation by DNRC and the Floodplain Administrator during consideration of a proposed alteration to the Regulated Flood Hazard Area.

Conditional Letter of Map Revision – Based on Fill (CLOMR-F) – A FEMA letter of approval for a proposed physical change that when completed would propose to change the flood zones, delineation or elevations on the FEMA Flood Insurance Rate Map or FEMA Flood Boundary Map and may amend the FEMA Flood Insurance Study through a subsequent LOMR. The CLOMR may be considered in an evaluation by DNRC and the Floodplain Administrator during consideration of a proposed alteration to the Regulated Flood Hazard Area.

Conditional Letter of Map Amendment (CLOMA) – A FEMA letter of approval for a proposed physical change that when completed would propose to change the flood zones, delineation or elevations on the FEMA Flood Insurance Rate Map or FEMA Flood Boundary Map and may amend the FEMA Flood Insurance Study through a subsequent LOMR. The CLOMR may be considered in an evaluation by DNRC and the Floodplain Administrator during consideration of a proposed alteration to the Regulated Flood Hazard Area.

Lowest Floor – Any unfinished or finished floor of a building which may include a basement or crawlspace.

Maintenance - Any routine or regularly scheduled activity undertaken to repair or prevent the deterioration, impairment, or failure of any feature, component, or material referenced in these regulations, so long as the work substantially conforms to the most recent approved design or regulatory hydraulic model, whichever is newer. Maintenance also includes customary and historical cleaning and removal of silt, branches, trees, sticks, and other debris. Maintenance does not include expansion, enlargement, replacement, reconstruction, Substantial Modification, or Substantial Improvement of a building, Artificial Obstruction, or structure, including hydraulic structures. Maintenance does not include changing the use of a property or Artificial Obstruction.

Manufactured Home Park or Subdivision – Includes the construction of facilities for servicing the manufactured home lots and at a minimum includes the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads.

Manufactured or Mobile Home – A building that may be residential or non-residential, is transportable in one or more sections, built on a permanent chassis, and designed to be used with or without a permanent foundation when connected to the required utilities

and includes park trailers, travel trailers, and other similar vehicles placed on a site for greater than 180 consecutive days.

New Construction – Structures for which the commencement of clearing, grading, filling, or excavating to prepare a site for construction occurs on or after the effective date of these regulations and includes any replacements and subsequent improvements to such structures.

New Manufactured Home Park Or Subdivision – A manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed includes at a minimum, the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads and is completed on or after the effective date of floodplain management regulations adopted by a community.

Nonconforming Use – Development, use, or improvements that were lawful prior to the adoption, revision, or amendment to these Regulations, but that fails by reason of such adoption, revision or amendment to conform to the present requirements of these Regulations.

Non-Residential— Buildings including manufactured homes that are not residential including commercial, agricultural, industrial buildings and accessory buildings. See Residential.

Regulated Flood Hazard Area - The Flood Insurance Rate Maps provided by the Federal Emergency Management Agency (FEMA) for Missoula County that have been determined by the Department of Natural Resources and Conservation (DNRC) to meet the requirements of MCA 76-5-201 et.seq., FEMA- issued Letters Of Map Revision (LOMRs) and any other maps or flood information, such as best available data or information, adopted by the Board of County Commissioners for this purpose and identified in the Appendix. References in these regulations to the Official Floodplain Maps are also in reference to the Regulated Flood Hazard Area.

Owner – Any person who has dominion over, control of, or title to an artificial obstruction.

Permit Issuing Authority - Floodplain Administrator as designated by the County of Missoula.

Person – Includes any individual, or group of individuals, corporation, partnership, association, or any other entity, including State and local governments and agencies.

Recreational Vehicle – A park trailer, travel trailer, or other similar vehicle which is (a) built on a single chassis; (b) 400 square feet or less when measured at the largest horizontal projections; (c) designed to be self-propelled or permanently towable by a

motorized vehicle; and (d) designed primarily for use as temporary living quarters for recreation, camping, travel, or seasonal use, not for use as a permanent dwelling.

Regulated Flood Hazard Area – A Floodplain whose limits have been designated pursuant to Part 2, Chapter 5 of Title 76, MCA, and is determined to be the area adjoining the watercourse that would be covered by the floodwater of a Base Flood. The Regulated Flood Hazard Area consists of the Floodway and Flood Fringe where specifically designated, and also includes the Shaded-X floodplain.

Residential Building – A dwelling or building for living purposes or place of assembly or permanent use by human beings and including any mixed use of residential and non-residential use. All other buildings are **non-residential**.

Riprap – Stone, rocks, concrete blocks, or analogous materials that are placed along the bed or banks of a watercourse or drainway for the purpose of preventing or alleviating erosion.

Scour Depth – The maximum depth of streambed scour caused by erosive forces of the Base Flood.

Special Flood Hazard Area – Land area which has been specifically identified by the Federal Emergency Management Agency as the floodplain within a community subject to a 1 percent or greater chance of flooding in any given year. Federal flood insurance may be required in the Special Flood Hazard Area. It is useful for the purposes of identifying flood hazards by local subdivisions of government for regulatory purposes as well as use by the National Flood Insurance Program for establishing risk zones and is used in helping to establish flood insurance premium rates. The FEMA flood hazard area zone designation or flood risk potential is as illustrated on FEMA's Flood Hazard Boundary Map or Flood Insurance Rate Map.

Zone A	-No Base Flood Elevations determined.
Zone AE	-Base Flood Elevations determined.
Zone AH	-Flood depths of 1 to 3 feet (example areas of ponding); BFE determined.
Zone AO	-Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
Zone A99	-Area to be protected from 1% annual chance flood by a federal flood protection system under construction. No BEFs determined.
Zone C	-See Zone X
Shaded Zone X	- Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depts of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
Zone X	-Areas determined to be outside the 0.2% annual chance floodplain.
Zone D	-Areas in which flood hazards are undetermined, but possible.

Start of Construction- for purposes of these rules means the start of any substantial improvement, replacement of existing structure, or new construction, or the commencement of clearing, grading, filling or excavation for the purposes of preparing a site for construction.

Stemwall Foundation - A foundation system for a building including concrete walls extended two (2') feet above the base flood elevation where the area enclosed by the walls is filled with engineered compacted fill covered with a concrete slab.

Structure – Any Artificial Obstruction. Specifically, a walled and roofed building or portions thereof, mobile home, gas or liquid storage tank, bridge, culvert, dam, diversion, wall, revetment, dike, or other projection that may impede, retard, or alter the pattern of flow of water.

Sub grade Crawlspace – A crawlspace foundation enclosure that has the lowest interior floor elevation no more than 5 feet below the top of the next higher floor and no more than 2 feet below the lowest adjacent grade, proper flood openings, and constructed with flood resistant materials. A foundation exceeding either dimension or lacking proper flood openings and not constructed with flood resistant materials could be considered a basement.

Substantial Damage – Damage of any origin sustained by a structure during a 10-year period whereby the cumulative cost of restoring the structure to its before-damaged condition would equal or exceed 50 percent of the market value of the structure before the damage occurred.

Substantial Improvement – Any repair, reconstruction, rehabilitation, addition, or other improvement of a structure during a 10-year period, whereby the cumulative cost of which equals or exceeds fifty percent (50) of the market value of the structure before the start of construction of the improvement, including substantial damage structures regardless of the actual repair work performed.

- **1.** Substantial improvement is considered to occur when the first construction of any wall, ceiling, floor or other structural part of the building commences during the 10-year period.
- 2. For the purpose of Substantial Improvement, the actual start of construction means the first alteration of any wall, ceiling, floor, or other structural part of a building, whether or not that alteration affects the external dimension of the building.
- **3.** The term does not include:
 - 1. Any project for improvement of a structure to comply with existing state or local health, sanitary, or safety code specifications which are solely necessary to assure safe living conditions; or
 - 2. Any alteration of a structure listed on the national register of historic places or state inventory of historic places provided that the property owner(s) submits evidence to the floodplain administrator, for review and approval, that they

have done as much as they can to mitigate the flood risk and bring the structure into compliance to the maximum extent possible while maintaining the historic nature and determination of the structure.

Suitable Fill – Fill material which is stable, compacted, well graded, and pervious, not adversely affected and generally unaffected by water and frost, devoid of trash or similar foreign matter, tree stumps or other organic material; and is fitting for the purpose of supporting the intended use and/or permanent structure.

Variance –A grant or relief from the development requirements of these regulations which would permit construction in a manner that would be otherwise prohibited by these regulations.

Violation – A finding and order pursuant to the regulations against the owner or responsible party of the failure of a structure or other development to be fully compliant with these regulations.

SECTION 3. FORMS AND FEES

- **3.1 Forms** The following forms may be required by the Floodplain Administrator:
 - 1. Floodplain Permit Application Form –The "Joint Application for Proposed Work in Montana's Steams, Wetlands, Regulated Flood Hazard Areas, and Other Water Bodies", or other designated application form. A completed FEMA MT-1 form may be required to accompany the application when required by the Floodplain Administrator.
 - 2. Floodplain Permit Compliance Report A report required to be submitted by the Applicant to the Floodplain Administrator once the permitted project in the Regulated Flood Hazard Area is completed or within the designated time stipulated on the Floodplain permit. A compliance report including an elevation and or flood proofing certificate may be required where specified for the purpose of documenting compliance with the requirements of the permit.
 - 3. Floodplain Variance Application Form An application submitted by the Applicant to the Floodplain Administrator to initiate a proposed variance from the requirements of these regulations as described in Section 12.
 - **4. Floodplain Appeal Notice Form** A form submitted by the Applicant or an aggrieved party to initiate the appeal process described in Section 13.
 - **5. Floodplain Emergency Notification Form** A written notification form required pursuant to Section 11 of these regulations.
 - **6. Official Complaint Form** A form that may be used by any person to notify the Floodplain Administrator of an activity taking place that appears to be noncompliant with the requirements of these regulations.

3.2 Fees

A processing fee is required for processing permits, appeals, and variances, and shall cover the cost of provided public notice, processing permits and variances, performing sufficient field inspections to ensure compliance with this regulations, and certifications or other administrative actions. Land use fees are established by Resolution 2022-075, as amended, unless otherwise noted.

SECTION 4. REGULATED FLOOD HAZARD AREA

4.1 REGULATED FLOOD HAZARD AREAS

- **1.** The Regulated Flood Hazard Areas are the floodplains of the 100-year flood and the Shaded-X floodplain illustrated and referenced in the specific studies and reports described in Appendix A.
 - a. For Shaded Zone X areas only, when no other data, base flood elevation(s) (BFE), or water surface elevations for the area have been determined, the Highest Adjacent Grade (HAG) may be considered as the BFE for regulatory purposes. Development in these areas must follow the requirements for Regulated Flood Hazard Areas with no Floodway as applicable. Additional data, review, and determination can be made by the Floodplain Administrator on a case-by-case basis in the Shaded Zone X floodplain based on information including but not limited to grade, surrounding studies, water elevations, additional drainage data, scientific data, and review factors in these regulations.
 - b. The Regulated Flood Hazard Area includes land designated as Shaded-X on the FIRM, including where base flood elevation(s) have been determined. Development within the Shaded-X may be exempt from floodplain permitting if the Floodplain Administrator determines the existing terrain is above the base flood elevation and the proposal substantially complies with the purpose of these regulations in Section 1 and applicable review criteria in Section 8.
- 2. The Regulated Flood Hazard Areas specifically described above have been delineated, designated, and established pursuant to 76-5-201 et.seq., MCA.
- **3.** The Floodplain Administrator may obtain, review, and reasonably use any Base Flood Elevation or Floodway data available from a Federal, State, or other reliable source to administer and enforce these Regulations.
 - a. However, when special flood hazard area designations and water surface elevations have been furnished by the Federal Insurance Administration, the more restrictive shall apply.
- **4.** Sections 5, 6, 9, and 10 of these regulations establish allowable uses and requirements for projects depending on the specific location within the Regulated Flood Hazard Area. (e.g. Floodway, Flood Fringe, etc.)

4.2 INTERPRETATION OF REGULATED FLOOD HAZARD AREA BOUNDARIES

1. The mapped boundaries of the Floodplain illustrated in the referenced studies and maps in this Section are a guide for determining whether property is within the Regulated Flood Hazard Area. Base Flood Elevations and other supporting documentation in the flood study, if such documentation exists, take precedence over any map illustrations. Requirements for determining the exact

- boundaries of the Regulated Flood Hazard Area and Floodway are provided below.
- 2. The Regulated Flood Hazard Area boundary is delineated by the Base Flood Elevation. The physical regulatory boundary of the Regulated Flood Hazard Area is the actual intersection of the applicable study Base Flood Elevation with the existing adjacent terrain of the watercourse or drainway, except as noted below.
 - A. Any structure or land area shown on the Flood Insurance Rate Map as being in the 100-year floodplain is still governed by these regulations even if it is determined by FEMA to be above the 100-year flood elevation naturally and is supported by a Letter of Map Amendment or by fill and has received a Letter of Map Revision based on Fill unless:
 - i. A valid Letter of Map Amendment or Letter of Map Revision Based on Fill was issued prior to February 23, 2000; or
 - ii. The area is not in danger from flooding caused by migration of a nearby creek or river as determined by an engineer of qualified hydrologist and that vehicle access has a flood depth and velocity within the Low Danger Zone as identified in Figure 1.
- **3.** A computed base flood elevation must be provided by an engineer for Zone A floodplains.
- **4.** The Floodway boundary, where identified within the Regulatory Flood Hazard Area, is as illustrated on the referenced maps and studies. The location of the Floodway boundary may be physically located by referencing the study data to a ground feature. The boundaries of the floodway may be determined by scaling distances on the official floodplain maps and using the floodway data table contained in the Flood Insurance Study. Supporting study material for Base Flood Elevations take precedence over any map illustrations. The Floodplain Administrator's interpretation of the boundary and decision may be appealed as set forth in Section 13.
- **5.** The Floodplain Administrator may require an applicant to provide additional information described below to determine whether or not the proposed development, use, or artificial obstruction is within the Regulated Flood Hazard Area:
 - A. Where Base Flood Elevations exist, the property owner and/or applicant may provide additional information which may include elevation information provided by an engineer or land surveyor in order to determine if the proposed development, use, or artificial obstruction is subject to these regulations.

- B. Where Base Flood Elevations do not exist, the property owner and/or applicant must provide a computed Base Flood Elevation provided by an engineer.
- C. The Floodplain Administrator's interpretation of the boundaries and decision may be appealed as set forth in Section 13.

Any owner or lessee of property who believes his property has been inadvertently included in the Regulated Flood Hazard Area including the Floodway or Flood Fringe may submit scientific and/or technical information to FEMA in the form of an application for a Letter of Map Change. Scientific or technical information submitted to FEMA for insurance purposes may be considered by the Floodplain Administrator, although a determination by the Floodplain Administrator whether a property is located within the Regulated Flood Hazard Area and subject to these regulations is independent of any determination made by FEMA.

4.3 ALTERATION OF REGULATED FLOOD HAZARD AREA

- 1. The Regulated Flood Hazard Area may be altered pursuant to Section 76-5-201 et. seq. MCA and the requirements of these regulations. Alterations to FEMA studies and maps can only be approved by FEMA through the Letter of Map Change (LOMC) process.
- **2.** Any change to the Regulated Flood Hazard Area shall only become effective upon amendment to Section 4.1.1 and the appendix of these regulations.
- 3. Substantial physical change or new technical or scientific flood data showing that the Base Flood Elevation has or may be changed or was erroneously established shall be brought to the attention of DNRC and FEMA;
- **4.** Any Floodplain permit application for a proposed development or artificial obstruction that will result in an increase of 0.5 feet or more to the Base Flood Elevation of a Regulated Flood Hazard Area without a Floodway, or an increase of more than 0.00 feet to the Base Flood Elevation of a Floodway, shall not be approved by the Floodplain Administrator until a Conditional Letter of Map Revision (CLOMR) is approved by FEMA.
 - a. Certification that no buildings are located in the areas which would be impacted by the increased Base Flood Elevation;
 - b. Evidence of notice to all property and landowners of the proposed impacts to their properties explaining the proposed impact on their property;
 - c. Information that demonstrates that alternatives are not feasible;
 - d. The Floodplain Administrator may represent the permit authority for any necessary applications, approvals or endorsements such as the FEMA Community Acknowledgement Form to FEMA where affecting the FEMA Special Flood Hazard Area;

- e. Any other supporting information and data as needed for approvals.
- f. Any other supporting information and data as needed for approvals.
- **5.** The Regulated Flood Hazard Areas is not officially altered until a Letter of Map Revision (LOMR) has been approved by FEMA.
- **6.** A floodplain permit implementing a physical change to the floodplain cannot be approved until a CLOMR has been issued by FEMA.
- **7.** For Regulated Flood Hazard Areas not designated by FEMA, alterations of the Regulated Flood Hazard Area shall meet ARM 36.15.505.
- 8. A determination by the Floodplain Administrator that land areas located within the Regulated Flood Hazard Area are naturally above the Base Flood Elevation as proven by a certified elevation survey does not constitute or require an alteration of the Regulated Flood Hazard Area and may be maintained as a public record that more explicitly defines the Regulated Flood Hazard Area boundary. (ARM 36.15.505(2)) The material submitted and response from FEMA may be considered by the Floodplain Administrator for determining if a property or structure is within the Regulated Flood Hazard area and subject to these regulations.
- **9.** Elevating with suitable fill as permitted does not alter the Regulated Flood Hazard Area or remove the elevated area from the Regulated Flood Hazard Area.

SECTION 5. USES ALLOWED WITHOUT A PERMIT WITHIN THE REGULATED FLOOD HAZARD AREA

- <u>5.1 GENERAL</u> Within the Regulated Flood Hazard Area established by these Regulations, there are Existing Artificial Obstructions and uses that were lawful prior to the adoption or amendment of these Regulations, but no longer conform to the present requirements of these Regulations. It is the intent of these Regulations to allow such Artificial Obstructions and nonconforming uses to remain in the state and location to which they existed at the time of adoption or amendment of these Regulations without need for a permit. However, Alteration or Substantial Improvement of an Existing Artificial Obstruction or Nonconforming Use requires a Floodplain Permit.
- **5.2 OPEN SPACE USES** The following open space uses shall be allowed without a permit in the Regulated Flood Hazard Area, provided that such uses are not prohibited by any other regulation or statute, do not require structures, do not require a No-Rise if in the floodway, and do not require fill, grading, excavation or storage of materials or equipment:
 - **1.** Agricultural uses, not including related structures, such as tilling, farming, irrigation, ranching, harvesting, grazing, etc;
 - **2.** Accessory uses, not including structures, such as loading and parking areas, or emergency landing strips associated with industrial or commercial facilities;
 - **3.** Forestry, including processing of forest products with portable equipment;
 - 4. Recreational vehicle use provided that the vehicle is on the site for fewer than 180 consecutive days and the vehicle is fully licensed and ready for highway use. A recreational vehicle is ready for highway use if it is on its wheels or jacking system with wheels intact, is attached to the site only by quick disconnect type utilities and security devices, and has no permanently attached additions;
 - **5.** Residential uses such as lawns, gardens, parking areas, and play areas;
 - 6. Routine or regularly scheduled maintenance of the existing state of an existing open space uses including preventive maintenance activities such as bridge deck rehabilitation and roadway pavement preservation activities if not within the regulatory floodway. Maintenance cannot increase the external size or increase the hazard potential of the existing open space use;
 - 7. Public or private recreational uses not requiring structures such as picnic grounds, swimming areas, boat ramps, parks, campgrounds, at-grade golf courses, driving ranges, archery ranges, wildlife management and natural areas, alternative livestock ranches (game farms), fish hatcheries, shooting preserves, target ranges, trap and skeet ranges, hunting and fishing areas, and hiking and horseback riding trails;

- **8.** Fences that have a low impact to the flow of water such as barbed wire fences and wood rail fences, and not including permanent fences crossing channels. Fences that have the potential to stop or impede flow or debris such as a chain link or privacy fence requires a floodplain permit and meet the requirements of Section 9.11;
- **9.** Addition of highway guard rail, signing and utility poles that have a low impact to the flow of water along an existing roadway if not within a regulatory floodway.
- **10.** Irrigation and livestock supply wells, provided that they are located at least 500 feet from domestic water supply wells and with the top of casing 18" above the Base Flood Elevation.
- **11.** If an artificial obstruction is left in a state of disrepair or deterioration for a period of one (1) year or more, it shall be considered to be abandoned and its reconstruction or repair shall require a Floodplain Permit in compliance with these regulations;

SECTION 6. PROHIBITED USES, ACTIVITIES AND STRUCTURES WITHIN THE REGULATED FLOOD HAZARD AREA

- **6.1 FLOODWAY** The following artificial obstructions and nonconforming uses are prohibited in the Floodway of the Regulated Flood Hazard Area, except for those established before land use regulations pursuant to Section 76-5-301, MCA have been adopted:
 - **1.** A building for residential, non-residential, commercial, or industrial purposes, including mobile homes;
 - 2. Encroachments including fill, new construction, substantial improvements, alterations, and other development that would result in erosion of embankment, obstruction of the natural flow of waters or increase the base flood elevation except as what may be authorized through an alteration of the Floodway per Section 4.
 - **3.** An artificial obstruction (e.g. structure, fill, etc.), or excavation that would cause water to be diverted from the Floodway, cause erosion, obstruct the natural flow of waters or reduce the carrying capacity of the Floodway. Notwithstanding these requirements, excavation or fill may be allowed subject to floodplain permit approval when it is a component to a permitted use allowed in these regulations and complies with all applicable requirements of these regulations;
 - **4.** The construction or storage of an object (artificial obstruction) subject to flotation or movement during flood level periods;
 - 5. Solid and hazardous waste disposal, water distribution systems, and individual and multiple family sewage disposal systems except as allowed or approved under the laws and standards administered by the Montana Department of Environmental Quality and the Missoula City/County Health Department, and when permitted pursuant to these regulations and are designed to minimize or eliminate infiltration of flood waters and avoid impairment or contamination;
 - 6. Storage of toxic, flammable, hazardous or explosive materials; and
 - **7.** Cemeteries, mausoleums, or any other burial grounds.
 - **8.** Channelization projects
 - **9.** Clearing of native vegetation within 50 feet from the ordinary high water mark of a stream
 - 10. Permanent fences crossing streams

11. The operation or use of any tractor, backhoe, bulldozer, or other blade or bucket equipped vehicle within a stream or along the stream bank, unless authorized by a floodplain development permit in accordance with these regulations.

6.2 FLOOD FRINGE OR REGULATED FLOOD HAZARD AREA WITHOUT A

FLOODWAY The following artificial obstructions and nonconforming uses are prohibited in the Flood Fringe or Regulated Flood Hazard Area without a Floodway, except for those established before land use regulations have been adopted:

- 1. Solid and hazardous waste disposal, water distribution systems, and individual and multiple family sewage disposal systems except as allowed or approved under the laws and standards administered by the Montana Department of Environmental Quality and the Missoula City/County Health Department, and when permitted pursuant to these regulations and are designed to minimize or eliminate infiltration of flood waters and avoid impairment or contamination;
- 2. Storage of toxic, flammable, hazardous or explosive materials.;
- **3.** The construction or storage of an artificial obstruction subject to flotation or movement during flood level periods;
- 4. Cemeteries, mausoleums, or any other burial grounds; and
- **5.** Critical facilities, including buildings and associated structures that provide essential community care and emergency operation functions such as schools, hospitals, nursing home facilities, fire stations and police stations.
- **6.** Construction or placement of a new residence with directly attributable vehicular access having a flood depth and velocity outside of the Low Danger Zone identified in Figure 1.

SECTION 7. FLOODPLAIN PERMIT APPLICATION REQUIREMENTS

7.1 GENERAL

- A Floodplain permit is required for a person to establish, alter or substantially improve an artificial obstruction, nonconforming use or development within the Regulated Flood Hazard Area;
- 2. Any development or artificial obstruction within the official floodplain mapped area requires the issuance of a permit, including but not limited to the substantial improvement or alteration of existing artificial obstructions or uses and substantial improvement and alteration of existing private levees and floodwalls and shall not be initiated, established, or undertaken until a permit has been issued by the Floodplain Administrator.
- **3.** A Floodplain permit is required for artificial obstructions, developments and uses not specifically listed in Sections 9 and 10, except as allowed without a Floodplain permit in Section 5, or as prohibited as specified in Section 6, within the Regulated Flood Hazard Area.
- **4.** Artificial obstructions and nonconforming uses in a Regulated Flood Hazard Area not exempt under Section 5 are public nuisances unless a Floodplain permit has been obtained:
- **5.** A Floodplain permit is required for an alteration of an existing artificial obstruction or nonconforming use that increases the external size or increases its potential flood hazard and not exempt under Section 5;
- **6.** A Floodplain permit is required to reconstruct or repair an existing artificial obstruction that has experienced damage; and
- **7.** Maintenance of an existing artificial obstruction or use that is a substantial improvement or an alteration requires a Floodplain permit, outside of open space uses as listed in Section 5.2.6.

7.2 REQUIRED FLOODPLAIN PERMIT APPLICATION INFORMATION

- **1.** A Floodplain permit application shall include, but is not limited to the following:
 - 1. A completed and signed Floodplain Permit Application.
 - 2. The required review fees.
 - 3. Plans in duplicate drawn to scale showing the nature, location, dimensions, and elevation of the proposed lot and project including landscape alterations, existing and proposed structures, fill, storage or materials site, flood proofing

- measures, first floor of proposed structures in mean sea level elevation, location of the channel, and the location of the foregoing in relation to the Regulated Flood Hazard Areas and if applicable the Floodway boundary;
- 4. A copy of other applicable permits or pending applications required by Federal or State law as submitted which may include but are not limited to a 310 permit, SPA 124 permit, Section 404 Permit, 318 Authorization, 401 Certification or a Navigable Rivers Land Use License or Easement for the proposed project; and the applicant must show that the Floodplain permit application is not in conflict with the relevant and applicable permits; and
- 5. Additional information related to the specific use or activity that demonstrates the design criteria and construction standards are met or exceeded as specified in Sections 9 and 10, the additional factors in Section 7.2.2 of these regulations, and any additional information specifically requested by the Floodplain Administrator to ensure compliance with these regulations.
- 2. ADDITIONAL FACTORS: Permit applicants shall be required to furnish as much of the following as is deemed necessary by the Floodplain Administrator for determining completeness of the application:
 - a. A plan view of the proposed development indicating external dimensions of structures, street or road finished grade elevations, well location and individual sewage treatment and disposal site, excavation and/or fill quantity estimates, site plan and/or construction plans.
 - b. Specifications for flood-proofing, filling, excavating, grading, riprapping or bank stabilization, storage of materials and utilities location.
 - c. A professional engineer's or registered architect's design calculations and certification that the proposed activity has been designed to be in compliance with these regulations.
 - d. A pre-construction FEMA elevation certificate and/or certification of floodproofing prepared and stamped by a registered professional engineer, architect, or licensed land surveyor shall be provided.
 - e. The applicant is required to submit with the permit application a Conditional Letter of Map Revision issued by FEMA and approval from DNRC for development where the encroachment increases the Base Flood Elevation by more than 0.00 feet within the floodway or an encroachment of more than 0.5 feet in a floodplain without a floodway.
- **3.** If the Floodplain Administrator determines in the course of reviewing the permit application submittal that a technical review is needed to ensure compliance with these Regulations, the cost shall be borne by the applicant.

SECTION 8. FLOODPLAIN PERMIT APPLICATION EVALUATION

8. 1 FLOODPLAIN PERMIT APPLICATION REVIEW

- 1. As provided in these regulations, the Floodplain Administrator has been designated by the Board of County Commissioners and has all the responsibility of such positions as outlined in these regulations.
- **2.** The Floodplain Administrator is hereby appointed with the authority to review floodplain development permit applications and issue or deny permits as well as review proposed uses or construction to determine compliance with these Regulations.
- **3.** The Floodplain Administrator shall review and evaluate the Floodplain permit application and shall approve, approve with conditions, or deny the application within 180 days (or time specified) of receipt of a correct and complete application.
- **4.** The Floodplain Administrator shall determine whether the Floodplain permit application contains the applicable elements required in these regulations and shall notify the applicant of the Floodplain Administrator's determination.
 - If the Floodplain permit application is found to be missing the required elements and if the applicant corrects the identified deficiencies and resubmits the Floodplain application, the Floodplain Administrator shall notify the applicant whether the resubmitted Floodplain application contains all the elements required by these regulations, as applicable.
- 5. The Floodplain Administrator may require whatever additional information is necessary to determine whether the proposed activity meets the requirements of these regulations. Additional information may include hydraulic calculations assessing the impact on base flood elevations or velocities; assessment by an independent hydrologist; level survey; or certification by a registered land surveyor, professional engineer, or licensed architect that the requirements of these regulations are satisfied.
 - **6.** This process shall be repeated until the applicant submits a completed Floodplain permit application containing all the elements required by these regulations, or the application is withdrawn.
 - 7. If after a reasonable effort the Floodplain Administrator determines that the Floodplain application remains incomplete, the Floodplain Administrator shall deny the Floodplain permit application and notify the applicant of missing elements. No further action shall be taken on the Floodplain permit application by the Floodplain Administrator until the Floodplain permit application is resubmitted.

- **8.** A determination that a Floodplain permit application is correct and complete for review does not ensure that the Floodplain permit application will be approved or conditionally approved and does not limit the ability of the Floodplain Administrator to request additional information during the review process.
- **9.** The proposed use shall comply with existing zoning.
- **10.** The Floodplain Administrator shall maintain such files and records as may be necessary to document non-conforming uses, base flood elevations, fee receipts, the issuance of permits, agendas, minutes, records of public meetings, and any other matters related to floodplain management in the County of Missoula. Such files and records shall be open for public inspection.
- **11.** Copies of all permits granted shall be sent to the Department of Natural Resources and Conservation in Helena, Montana.
- 12. Notifications by the Floodplain Administrator shall be made to adjacent communities, the DNRC Floodplain Management Section and the Federal Emergency Management Agency prior to any alteration or relocation of a stream having a designated floodplain to assure that the flood-carrying capacity within the altered or relocated portion of any stream is maintained. Approval by the DNRC and FEMA is required.

8.2. NOTICE REQUIREMENTS FOR FLOODPLAIN PERMIT APPLICATIONS:

- 1. Upon receipt of a complete application for a Floodplain permit, the Floodplain Administrator shall prepare a notice containing the facts pertinent to the Floodplain permit application and shall:
 - 1. Publish the notice at least once in a newspaper of general circulation in the area;
 - 2. Serve notice by first-class mail upon adjacent property owners;
 - 3. Serve notice to the State National Flood Insurance Program Coordinator located in DNRC by the most efficient method. Notice to other permitting agencies or other impacted property owners may be provided; and
 - 4. Prior to any alteration or relocation of a watercourse in the Regulated Flood Hazard Area, additionally provide notice to FEMA and adjacent communities.
- **2.** The notice shall provide a reasonable period of time, not less than 15 days, for interested parties to submit comments on the proposed activity.

8.3 FLOODPLAIN PERMIT CRITERIA

- 1. Floodplain development permits shall be granted, granted with conditions or denied by the Floodplain Administrator on the basis of whether the proposed artificial obstruction or development or alteration or substantial improvement of an existing artificial obstruction or non-conforming use meets the requirements of these Regulations. The additional following factors that shall be addressed in the application during application of the specific standards in these regulations and considered in the Floodplain Administrator's decision for every permit are:
 - I. The danger to life and property due to increased flood heights, increased flood water velocities or alterations in the pattern of flood flow caused by encroachments;
 - II. The danger that materials may be swept onto other lands or downstream to the injury of others;
- III. The proposed water supply and sanitation systems and the ability of these systems to prevent disease, contamination and unsanitary conditions;
- IV. The susceptibility of the proposed facility and its contents to flood damage and the effects of such damage on the individual owner;
- V. The effect of the project on other properties;
- VI. The likelihood that the structure or building will be threatened due to its proximity to the stream or potential lateral movement of the stream;
- VII. The effect of the project on streamside vegetation and the stability of the stream bank;
- VIII. The importance of the services provided by the facility to the community;
 - IX. The requirement of the facility for a water-front location;
 - X. The availability of alternative locations on the parcel not subject to flooding for the proposed use:
 - XI. The compatibility of the proposed use with existing development and anticipated development in the foreseeable future;
- XII. The permanence of the obstruction or use and if it is reasonably safe from flooding;
- XIII. The relationship of the proposed use in the flood fringe to the Growth Policy as provided for in ARM 36.15.701(3)b in unzoned areas. In assessing compatibility, the following factors should be considered: the goals and objectives expressed by the plan, the more specific land uses recommended in the plan, the availability of services to support additional development in the project area, and whether or not the current development pattern in the project area—if different from the plan's recommended land use pattern for that area—is consistent with the plan's goals and objectives. A floodplain permit cannot be denied based solely on non-compliance with the Growth Policy;
- XIV. The safety of access to property in times of flooding for ordinary and emergency services determined through flood depth and flood velocities published in the Flood Insurance Study or independent hydraulic analysis in Zone A floodplains with no base flood elevations and Figure 1;
- XV. The effect of the project on water rights;

- XVI. The cumulative effect of the proposed project along with other existing projects;
- XVII. The danger to life and property due to channel migration, backwater or diverted flow caused by the obstruction or use;
- XVIII. The construction or alteration of the obstruction or use in such manner as to lessen the flooding danger;
 - XIX. The potential that the stream bank material will cause erosion;
 - XX. The amount of channel constriction caused by the project;
- XXI. The use of flood-resistant materials:
- XXII. The effects on species protected by the Endangered Species Act or of special interest or concern to the State of Montana; and
- XXIII. Supporting documentation to ensure that the property owner or representative is duly authorized and/or the project manager/preparer is properly licensed or qualified; and
- XXIV. The project is in harmony with the purposes of these Regulations, the Montana Floodplain and Floodway Management Act and regulations and the National Flood Insurance Program.
 - 2. A Flood Plain permit application for a development that will cause an increase of more than 0.00 feet to the Base Flood Elevation of the Floodway or more than 0.50 feet to the Base Flood Elevation of the Regulated Flood Hazard Area without a Floodway shall not be approved until approval for an Alteration pursuant to Section 4.3 has been approved, the Regulated Flood Hazard Area is amended and a FEMA CLOMR where required is issued.
 - **3.** The Floodplain Administrator shall determine that all necessary permits have been received from those governmental agencies from which approval is required by Federal or State law, including section 404 of the Federal Water Pollution Control Act Amendment of 1972, 36 U.S.C. 1334.

8.4 DECISION

- 1. The Floodplain Administrator shall approve, conditionally approve, or deny the proposed Floodplain permit application. The Floodplain Administrator shall notify the applicant of his action and the reasons thereof within 180 days (or time specified) of receipt of a correct and complete Floodplain permit application unless otherwise specified. A copy of the approved Floodplain permit must be provided to DNRC.
- 2. The approval of a Floodplain permit application does not affect any other type of approval required by any other statute or ordinance of the state or any political subdivision or the United States but is an added requirement.

8.5 FLOODPLAIN PERMIT CONDITIONS AND REQUIREMENTS

- 1. Upon approval or conditional approval of the Floodplain permit application, the Floodplain Administrator shall provide the applicant with a Floodplain permit with applicable specific requirements and conditions including but not limited to the following:
 - 1. The Floodplain permit will become valid when all other necessary permits required by Federal or State law or County ordinance(s) and/or resolution(s) are in place;
 - 2. Completion of the development pursuant to the Floodplain permit shall be completed within 180 days from the date of Floodplain permit issuance or a time limit commensurate with the project construction timeline for completion of the project or development, unless a longer or shorter period is specified when the permit is issued. The applicant may request an extension by the Floodplain Administrator. The request must be made at least 30 days prior to the permitted completion deadline with an applicable fee.
 - 3. The applicant shall notify subsequent property owners and their agents and potential buyers of the Floodplain development permit issued on the property and that such property is located within a Regulated Flood Hazard Area and shall record the notice with the Floodplain Administrator;
 - 4. The applicant and the applicant's assigns or representative shall maintain the artificial obstruction or use to comply with the conditions and specifications of the permit.
 - 5. The applicant shall allow the Floodplain Administrator to perform onsite inspections at select intervals during construction or completion.
 - 6. The applicant shall provide periodic engineering oversight and/or interim reports during the construction period to be submitted to the Floodplain Administrator to confirm constructed elevations and other project elements.
 - 7. The applicant shall submit a compliance report including certifications where required and applicable including a post-construction FEMA elevation certificate prepared and stamped by a registered professional engineer or licensed land surveyor of all new, altered, or substantially improved structures, flood proofing, elevation, surface drainage, proper enclosure openings and materials to the Floodplain Administrator within 30 days of completion or other time as specified.
 - 8. If floodproofing techniques were utilized for the structure, then the elevation in NAVD88 to which the flood-proofing was accomplished must be similarly certified within 30 days of completion.

- 9. In the case of flood control works and within 30 days of completion, certification from a registered professional engineer or licensed land surveyor shall be provided stating that the structure meets the requirements of the floodplain regulations
- 10. Engineering certification must be provided within 30 days of completion where anchoring of a manufactured or mobile home is required.
- 11. The applicant shall submit an annual performance and maintenance report on bank stabilization or other projects utilizing maturing vegetative components to the Floodplain Administrator for a period of 5 years or a time specified in the permit; or
- 12. The applicant shall submit evidence of a submittal of a FEMA Letter of Map Revision (LOMR) to FEMA and applicable fees within 6 months of project completion and proceed with due diligence for acceptance of the document and necessary supporting materials by FEMA.

SECTION 9. DEVELOPMENT REQUIREMENTS IN THE FLOODWAY

- **9.1 USES REQUIRING PERMITS** Artificial obstructions including alterations and substantial improvements_ specifically listed in Sections 9.3 to 9.15 may be allowed by permit within the Floodway, provided the General Requirements in Section 9.2 and the applicable requirements in Sections 9.3 to 9.15 are met.
- <u>9.2 GENERAL REQUIREMENTS</u> The following applicable minimum development standards listed in this section are to be demonstrated to be met by the applicant for flood hazard areas including those designated as the floodway, flood fringe, and floodplain of the 100-year floodplain as delineated on the Flood Insurance Rate Maps and correspond to the A, AE, AH, AO, and Shaded-X zones depicted. An application for a permit shall meet the following requirements:
 - 1. All projects shall be designed and constructed to ensure that they do not adversely affect the flood hazard on other properties and are reasonably safe from flooding.
 - **2.** All projects shall ensure that the carrying capacity of the Floodway is not reduced. All projects in the Floodway shall meet the following:
 - 1. Demonstrate that the project does not increase the Base Flood Elevation by conducting an encroachment analysis certified by an engineer. A minimal or qualitative encroachment analysis may be accepted when the project or development does not require a structure, alteration of the Floodway, involve fill, grading, excavation or storage of materials or equipment but is also certified by an engineer to not exceed the allowable encroachment to the Base Flood Elevation; and
 - 2. The allowable encroachment to the Base Flood Elevation is 0.00 feet, and no significant increase to the velocity or flow of the stream or water course unless approval of an alteration of the Regulated Flood Hazard Area pursuant to Section 4.3 and an approved FEMA Conditional Letter of Map Revision occurs before permit issuance; and
 - 3. An application for a Floodplain permit must also demonstrate the following factors are considered and incorporated into the design of the use or artificial obstruction in the Floodway:
 - 1. The danger to life and property due to backwater or diverted flow caused by the obstruction or use;
 - 2. The danger that the obstruction or use may be swept downstream to the injury of others:
 - 3. The availability of alternative locations;

- 4. Construct or alter the obstruction or use in such manner as to lessen the flooding danger;
- 5. The permanence of the obstruction or use and is reasonably safe from flooding;
- 6. The anticipated development in the foreseeable future of the area which may be affected by the obstruction or use;
- 7. Relevant and related permits for the project have been obtained;
- 8. Such other factors as are in harmony with the purposes of these regulations, the Montana Floodplain and Floodway Management Act, and the accompanying Administrative Rules of Montana; and
- 9. The safety of access to property in times of flooding for ordinary and emergency services.

<u>9.3 MINING OF MATERIAL REQUIRING EXCAVATION FROM PITS OR POOLS</u> provided, in addition to the requirements of Section 9.2, that:

- A buffer strip of undisturbed land of sufficient width as determined by an engineer to prevent flood flows from channeling into the excavation is left between the edge of the channel and the edge of the excavation;
- 2. The excavation meets all applicable laws and regulations of other local and state agencies; and
- **3.** Excavated material may be processed on site but is stockpiled outside the Floodway.
- <u>9.4 RAILROAD</u>, <u>HIGHWAY AND STREET STREAM CROSSINGS</u>, including other transportation related crossings provided, in addition to the requirements of Section 9.2, that:
 - 1. Crossings are designed to offer minimal obstructions to the flood flow;
 - 2. Where failure or interruption of public transportation facilities would result in danger to public health or safety and where practicable and in consideration of FHWA Federal-Aid Policy Guide 23CFR650A:
 - 1. Bridge lower chords shall have freeboard to at least two (2) feet above the Base Flood Elevation to help pass ice flows, the base flood discharge and any debris associated with the discharge; and

- 2. Culverts shall be designed to pass the Base Flood discharge and maintain at least two (2) feet freeboard on the crossing surface.
- **3.** Normal overflow channels, if possible are preserved to allow passage of sediments to prevent aggradations; and
- **4.** Overflow channels are preserved to allow passage of the base flood.
- **5.** Mid-stream supports for bridges, if necessary, must have footings buried below the maximum scour depth during the base flood.
- **6.** The crossings do not increase the base flood elevation nor cause a change in normal or flood-stage stream velocities that would likely cause a problematic change in erosion or deposition patterns.
- **7.** Except for spans on which a mid-stream support is essential, all obstructions are outside the natural stream banks. Anticipated lateral migration of the stream will be considered in the location of the abutments.
- **8.** The applicant demonstrates to the Floodplain Administrator and County Public Works Director that there is adequate freeboard to convey ice jams, the 100-year flood, and any debris associated with such a flood. This freeboard shall be at least two feet above the base flood elevation; and
- **9.** Reasonable alternatives to the stream crossing do not exist.
- **9.5 LIMITED FILLING FOR ROAD AND RAILROAD EMBANKMENTS,** including other transportation related embankments not associated with stream crossings and bridges provided, in addition to the requirements of Section 9.2, that:
 - 1. The fill is suitable fill.
 - **2.** Reasonable alternate transportation routes outside the floodway are not available: and
 - **3.** The encroachment is located as far from the stream channel as possible and shall not increase the base flood elevation.
 - **4.** Where failure or interruption of transportation facilities would result in danger to the public health or safety, the facility shall be located two (2) feet above the base flood elevation.

9.6 BURIED OR SUSPENDED UTILITY TRANSMISSION LINES provided, in addition to the requirements of Section 9.2, that:

- 1. Suspended utility transmission lines are designed such that the lowest point of the suspended line is at least fifteen (15) feet higher than the Base Flood Elevation on the Bitterroot, Blackfoot, Clark Fork, and Swan Rivers, and at least ten (10) feet on other streams;
- **2.** Towers and other appurtenant structures are designed and placed to withstand and offer minimal obstruction to flood flows;
- **3.** Whenever technically feasible and in consideration of the costs in relation to the scope of the project, crossings will not disturb the bed or banks of the stream. Alternatives such as alternative routes, directional drilling, and aerial crossings are considered when technically feasible and in light of all relevant issues; and
- 4. Underground utility transmission lines carrying toxic or flammable materials are buried to a depth of at least twice the calculated maximum potential scour depth during the base flood. The maximum depth of scour shall be determined from any of the accepted hydraulic engineering methods, but final calculated figures shall be subject to approval by the Floodplain Administrator. The length of maximum burial shall take into account likely channel migration; and

9.7 STORAGE OF MATERIALS AND EQUIPMENT provided, in addition to the requirements of Section 9.2, that:

- **1.** The material or equipment is not subject to major damage by flooding and is properly anchored to prevent flotation or downstream movement; or
- 2. The material or equipment is readily removable within the limited time available after flood warning. Storage of flammable, toxic or explosive materials shall not be permitted.

<u>9.8</u> <u>DOMESTIC WATER SUPPLY WELLS</u> provided, in addition to the requirements of Section 9.2, that:

- **1.** They are driven or drilled wells located on ground higher than surrounding ground to assure positive drainage from the well;
- **2.** They require no other structures (e.g., a well house);
- 3. Well casings are water tight to a distance of at least twenty five (25) feet below the ground surface and the wellhead and/or well casing height is a minimum of 18 inches above the ground and two (2) feet above the Base Flood Elevation or

- capped with a watertight seal and vented two (2) feet above the Base Flood Elevation;
- **4.** Water supply lines and electrical lines have a watertight seal where the lines enter the casing;
- **5.** All pumps and electrical lines and equipment are either of the submersible type or are adequately flood proofed; and
- **6.** Check valves are installed on main water lines at wells and at all building entry locations
- **9.9 BURIED AND SEALED VAULTS FOR SEWAGE DISPOSAL IN CAMPGROUNDS AND RECREATIONAL AREAS** provided, in addition to the requirements of Section 9.2, demonstrate approval by Montana Department of Environmental Quality and Missoula City/County Health Department.
- <u>9.10 PUBLIC AND PRIVATE CAMPGROUNDS</u> provided, in addition to the requirements of Section 9.2, that:
 - **1.** Access roads require only limited fill, do not increase the base flood elevation, and do not obstruct or divert flood waters;
 - 2. The project meets the accessory structures requirements in this Section.
 - **3.** No dwellings or permanent mobile homes are allowed;
 - **4.** Recreational vehicles and travel trailers are licensed and ready for highway use with wheels intact, with only quick disconnect type utilities and securing devices, and have no permanently attached additions; and
 - **5.** There is no large-scale clearing of riparian vegetation within 50 feet of the mean annual high-water mark.
- **9.11 STRUCTURES ACCESSORY OR APPURTENANT** to permitted uses such as boat docks, loading and parking areas, marinas, sheds, airstrips, fences that have the potential to stop or impede flow or debris such as a chain link or privacy fence, picnic shelters and tables and lavatories, that are incidental to a principal structure or use, provided in addition to the requirements of Section 9.2, that:
 - **1.** The structures are not intended for human habitation or supportive of human habitation:
 - 2. The structures will have low flood damage potential;

- **3.** The structures will, insofar as possible, be located on ground higher than the surrounding ground and as far from the channel as possible;
- **4.** The structures will be constructed and placed so as to offer a minimal obstruction to flood flows:
- **5.** Only those wastewater disposal systems that are approved under health and sanitation regulations are allowed.
- **6.** Service facilities within these structures such as electrical, heating and plumbing are flood proofed according to the requirements in Section 10;
- **7.** The structures are firmly anchored to prevent flotation;
- **8.** The structures do not require fill and/or substantial excavation.
- 9. The structures or use cannot be changed or altered without permit approval; and
- **10.** There is no clearing of riparian vegetation within 50 feet of the mean annual highwater mark.

9.12 CONSTRUCTION OF OR MODIFICATIONS TO SURFACE WATER

<u>DIVERSIONS</u> provided, in addition to the requirements of Section 9.2, that the design is reviewed and approved by an engineer and includes:

- 1. Measures to minimize potential erosion from a Base Flood; and
- 2. Designs and plans that demonstrate the project and/or any permanent structure in the stream is designed to safely withstand up to the Base Flood considering the forces associated with hydrodynamic and hydrostatic pressures including flood depths, velocities, impact, ice, buoyancy, and uplift forces associated with the Base Flood.
- 3. The structure is designed to pass bedload and large debris; and
- 4. The development does not increase the base flood elevation more than 0.00 feet as certified by an engineer unless a Conditional Letter of Map Revision (CLOMR) accompanies the application, the Official Floodplain Maps herein are amended before the permit can be issued and a subsequent Letter of Map Revision (LOMR) is issued by FEMA upon project completion.

9.13 FLOOD CONTROL AND STREAM BANK STABILIZATION MEASURES

provided, in addition to the requirements of Section 9.2, that the design is reviewed and approved by an engineer and constructed to substantially resist or withstand the forces associated with hydrodynamic and hydrostatic pressures, including flood depths, velocities, impact, ice, buoyancy, and uplift associated with the Base Flood. The

applicant must also demonstrate in an encroachment analysis that any encroachment by the development does not increase the base flood elevation more than 0.00 feet as certified by an engineer unless a Conditional Letter of Map Revision (CLOMR) accompanies the application, the Official Floodplain Maps herein are amended before the permit can be issued and a subsequent Letter of Map Revision (LOMR) is issued by FEMA upon project completion. The design must also show compliance with the following applicable criteria to the satisfaction of the Floodplain Administrator:

1. EXISTING LEVEE OR FLOODWALL MAINTENANCE, improvements, or alteration:

- The length of the levee is the minimum required to protect the existing structures it is meant to serve. The analysis should detail the flood heights and velocities that would be experienced during a base flood if the levee were not present or were to fail; and
- 2. The cost of the project would not exceed 75% of the cost of elevating, floodproofing, and/or relocating the structures protected by the levee. The costs of these repairs are cumulative over 20 years from the date of the first repairs; and
- 3. A hydrologist or other qualified professional evaluates the effects of the levee both upstream and downstream and demonstrates that it would not cause foreseeable impacts to nearby property owners.
- 4. The Floodplain Administrator may waive 9.13.1.1-3 [the 3 things above] if an existing stream bank levee is to be moved back from the stream bank to provide the maximum amount of flood storage.
- 5. Must be designed and constructed with suitable fill and be designed to safely convey a Base Flood;
- 6. Must be constructed at least 3 feet higher than the elevation of the Base Flood unless the levee or floodwall protects agricultural land only;
- 7. The cumulative effect of the levee or floodwall does not increase the base flood elevation or significantly change velocities at any point in the vicinity of the project.
- 8. Must meet state and federal levee engineering and construction standards and be publicly owned and maintained if it protects structures of more than one landowner; and
- 9. For any increase in the elevation of the Base Flood, an alteration of the Regulated Flood Hazard Area requires approvals pursuant to Section 4.3.

10. The project shall not otherwise conflict with these regulations, Missoula County policies and/or other adopted regulations.

2. STREAM BANK STABILIZATION, PIER AND ABUTMENT PROTECTION projects:

- 1. Must be designed and constructed using methods and materials that are the least environmentally damaging yet practicable and should be designed to withstand a Base Flood once the project's vegetative components are mature within a period of up to 5 years or other time as required by the Floodplain Administrator. Once vegetation is mature and established it should not require substantial yearly maintenance after the initial period;
- 2. Materials for the project may be designed to erode over time but not fail catastrophically and impact others. Erosion, sedimentation, and transport of the materials may be designed to be at least similar in amount and rate of existing stable natural stream banks during the Base Flood;
- 3. Must not increase erosion upstream, downstream, across from or adjacent to the site in excess of the existing stable natural stream bank during the Base Flood; and
- 4. Bank stabilization utilizing new, reconstructed, or repaired riprap and other predominantly rock structures provided:
 - a. The project is necessary to protect an existing residence, commercial building, industrial use, or necessary private or public infrastructure that is in imminent danger. A structure is considered to be in imminent danger when the ground beneath it is likely to be eroded or collapsed by a flood of 10-year frequency or smaller, as estimated by a qualified hydrologist or engineer. Riprap may be permitted as preventative maintenance for bridge abutments, roads, industrial uses, and public infrastructure; and
 - The cost of the project would not exceed 75% of the cost of relocating the structures to be protected. The costs of the project are cumulative over 20 years from the date of the first construction and/or repairs; and
 - c. The structure to be protected was constructed before February 23, 2000; and
 - d. A hydrologist or other qualified professional evaluates the stream/river upstream and downstream to determine the likely cause of bank erosion, and demonstrates that the cause of the problem cannot be feasibly fixed using other reliable stabilization techniques; and
 - e. The project is certified by an engineer to withstand the base flood; and
 - f. The project does not increase the base flood elevation; and

- g. The project will not substantially affect vertical bed stability or substantially increase erosion upstream, downstream, or adjacent to the site; and
- h. When practical and in situations where the integrity of the project will not be compromised, the project incorporates anchored woody debris or other design features to slow water velocities, and also incorporates revegetation on the upper bank and upstream and downstream of the project. The applicant shall submit an annual performance and maintenance report on bank stabilization or other projects utilizing maturing vegetation components to the Floodplain Administrator for a period of 5 years or a time specified in the permit.
- 5. Other bank stabilization techniques, such as bio-engineering or green infrastructure that require engineering certification and utilize elements including or similar to root wads, brush mattresses, willow wattling, and tree revetments provided:
 - a. The project is certified by an engineer that anticipated erosion, sedimentation, and transport of the materials are no more than the amount and rate of existing natural stream banks during the base flood; and
 - b. The project does not increase the base flood elevation; and
 - c. The project results in long-term revegetation of the stream bank and adjacent areas with native vegetation; and
 - d. The floodplain is reserved to create or hold stream discharges greater than bankfull flows; and
 - e. The owner maintains the project to achieve long-term goals. The applicant shall submit an annual performance and maintenance report on bank stabilization or other projects utilizing maturing vegetative components to the Floodplain Administrator for a period of 5 years or a time specified in the permit.

3. DAMS:

- The design and construction shall be in accordance with the Montana Dam Safety Act and applicable safety standards; and
- 2. The project shall not increase flood hazards downstream either through operational procedures or improper hydrologic/hydraulic design.
- 3. The project shall not otherwise conflict with these regulations, Missoula County policies and/or other adopted regulations.

9.14 STREAM AND BANK RESTORATION projects intended to reestablish the terrestrial and aquatic attributes of a natural stream and not for protection of a structure or development provided, in addition to the requirements of Section 9.2, that:

- **1.** The project will not increase velocity or erosion upstream, downstream, across from or adjacent to the site;
- 2. Materials may include but are not limited to native stream bed materials, root wads, brush mattresses, willow wattles, natural woody debris or combinations of analogous materials and that reasonably replicates the bed and bank of the natural stream;
- **3.** Erosion, sedimentation, and transport of the materials are not more than the amount and rate of existing natural stream banks during the Base Flood; and
- **4.** The project may be designed to allow vegetative materials to mature within a period up to 5 years or other time as required by the Floodplain Administrator. Once vegetation is mature and established it should not require substantial yearly maintenance after the initial period.
- **5.** The project is not considered channelization as defined in these regulations and complies with applicable provisions of Section 9.13.2.5.

9.15 EXISTING RESIDENTIAL AND NON-RESIDENTIAL BUILDINGS IN THE

FLOODWAY: Any alteration or substantial improvement to an existing building must meet the requirements of Section 9.2 and the applicable requirements in Section 10 for residential or non-residential buildings. Substantial improvement or alteration of any legal artificial obstruction which existing prior to the delineation of the regulatory floodway may be permitted provided all the applicable provisions for such use are met. Substantial improvement of an existing building in the floodway must be elevated on a permanent stemwall foundation rather than on fill. Flood-proofing shall be accomplished in accordance with these regulations.

Replacement, alteration, or substantial improvement of an existing mobile home on a developed site with servicing utilities may be approved with a floodplain permit provided that:

- **1.** The replacement home must be elevated on a permanent foundation so the lowest floor is 2 feet above the base flood elevation.
- **2.** The foundation must be reinforced concrete, reinforced mortared block or poured piers, or other foundation elements of equal strength.
- **3.** The chassis must be securely anchored to the foundation system with anchoring components capable of carrying a force of 4,800 pounds so that it will resist

- flotation, collapse or lateral movement. Methods of anchoring may include, but are not limited to, use of over-the-top frame ties to ground anchors.
- **4.** Mobile homes proposed for use as commercial or industrial structures must be elevated 2 feet above the base flood elevation and cannot be dry floodproofed.
- **5.** Adequate surface drainage and access for a hauler are provided.

SECTION 10. DEVELOPMENT REQUIREMENTS IN THE FLOOD FRINGE OR REGULATED FLOOD HAZARD AREA WITH NO FLOODWAY

10.1 USES REQUIRING PERMITS – All uses allowed by permit in the Floodway shall also be allowed by permit within the Flood Fringe or Regulated Flood Hazard Area with no Floodway. Such uses are subject to the requirements in Section 9, with the exception of the encroachment limit of Section 9.2.2. Instead, such uses are subject to the encroachment limits of this Section 10.2.9. In addition, individual or multiple family subsurface sewage disposal systems are allowed only when they are reviewed and approved under laws and regulations administered by the Department of Health.

Except for prohibited artificial obstructions in Section 6.2, all other artificial obstructions including new construction, substantial improvements, alterations to residential, and nonresidential structures including manufactured homes, and related suitable fill or excavation shall be allowed by permit and are subject to the requirements in this Section and General Requirements of Section 9.2, with the exception of the encroachment limit of Section 9.2.2.

The minimum floodplain development standards listed in this chapter also to the designated floodplains with no base flood elevations and identified as Zone A floodplains on the Missoula County Flood Insurance Rate Maps including parcels divided off another parcel containing Zone A floodplain after August 15, 1983.

10.2 GENERAL REQUIREMENTS The following applicable minimum development standards listed in this chapter are to be demonstrated to be met by the applicant for flood hazard areas including those delineated on the Flood Insurance Rate Maps as A, AE, AH, AO, and Shaded-X zones. An application for a Floodplain permit must demonstrate or meet the following applicable requirements:

- 1. Base Flood Elevation Where necessary to meet the appropriate elevation requirement in these regulations, the Base Flood Elevation(s) must be determined by an engineer and utilized in the design and layout of the project demonstrating the design and construction criteria herein are met. For Regulated Flood Hazard Areas that do not have computed and published Base Flood Elevations in the adopted flood hazard study referenced in Section 4, a Base Flood Elevation must be determined or obtained from a reliable source, utilizing appropriate engineering methods and analyses;
- 2. <u>Divisions of Land</u> The base flood elevation shall be determined by an engineer for subdivision proposals and subdivision exemptions in the Zone A floodplain as per the Missoula County Subdivision Regulations. The elevation data shall be utilized to ensure compliance with these Regulations. Subdivision proposals shall also provide for adequate drainage to minimize potential flood hazards. Subdivision requirements listed in Section 1.16 are also applicable to all divisions of land including those exempt from subdivision review.

- Flood Damage Structures must be constructed by methods and practices that minimize flood damage and structures must be reasonably safe from flooding;
- **4. <u>Surface Drainage</u>** Adequate surface drainage must be provided around structures;
- Materials Structures must be constructed with materials resistant to flood damage;
- **6.** <u>Artificial Obstructions</u> Structures, excavation or fill must not be prohibited by any other statute, regulation, ordinance, or resolution; and must be compatible with subdivision, zoning, the Missoula County Growth Policy in unzoned areas, and any other land use regulations, if any;
- 7. <u>Anchoring</u> All construction and substantial improvements must be designed and adequately anchored to prevent flotation, collapse, or lateral movement of the structure resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy;
- 8. <u>Certification</u> Certification by an engineer, architect, land surveyor, or other qualified person must accompany the application where required including for an encroachment analysis, adequacy of structural elevations, Base Flood Elevation determinations, flood-proofing, enclosure flood openings and design and construction to withstand the hydrodynamic forces and hydrostatic pressures of flood depths, velocities, impact, buoyancy, uplift forces associated with the Base Flood and surface drainage. A certification is not intended to constitute a warranty or guarantee of performance, expressed or implied;
- 9. <u>Access</u> Structures must have safe access during times of flooding up to the Base Flood for ordinary and emergency services provided there are no reasonable alternate locations for structures;

10. Encroachment Analysis

- A. All applications in the Regulated Flood Hazard Area without a Floodway must be supported by an encroachment analysis of the proposed use, a thorough hydrologic and hydraulic analysis except as provided in following paragraph 4, Section 10.2.9.4, prepared by an engineer to demonstrate the effect of the structure on flood flows, velocities, and the Base Flood Elevation;
- B. The maximum allowable encroachment is certified to be at or less than 0.5 feet increase to the Base Flood Elevation unless approval of an alteration of the Regulated Flood Hazard Area pursuant to Section 4 and an approved FEMA Conditional Letter of Map Revision occurs before permit issuance;

- C. The data for the encroachment analysis may include, but is not limited to, any of the following:
 - A hydraulic study documenting the probable effects on upstream, downstream, or adjacent property owners caused by the proposed development;
 - 2. The calculated increase in the 100-year flood water surface profile caused by the proposed development.
- D. An encroachment analysis is not required for any development in the Flood Fringe where an accompanying Floodway has been designated within the Regulated Flood Hazard Area; and
- E. Although all other development standards herein apply, a minimal or qualitative encroachment analysis may be accepted when the project or development does not require a structure, alteration of the Floodplain, involve fill, grading, excavation or storage of materials or equipment and also is certified by an engineer to not exceed the allowable encroachment.
- **11.** <u>Electrical Systems Flood Proofing</u> All electrical service materials, equipment and installation for uses in a Regulated Flood Hazard Area must be certified to meet the following requirements:
 - 1. All incoming power service equipment including all metering equipment, control centers, transformers, distribution and lighting panels and all other stationary equipment must be located at least two feet above the Base Flood Elevation:
 - 2. Portable and movable electrical equipment may be placed below the Base Flood Elevation, provided that the equipment can be disconnected by a single plug and socket assembly of the submersible type;
 - 3. The main power service lines must have automatically operated electrical disconnect equipment or manually operated electrical disconnect equipment located at an accessible remote location outside the Regulated Flood Hazard Area or two feet above the Base Flood Elevation; and
 - 4. All electrical wiring systems installed below the Base Flood Elevation must be suitable for continuous submergence and may not contain fibrous components.
- **12.** <u>Heating and Cooling Systems Flood Proofing</u> Heating and cooling systems for uses in a Regulated Flood Hazard Area must be certified to meet the following requirements:

- 1. Float operated automatic control valves must be installed so that fuel supply is automatically shut off when flood waters reach the floor level where the heating and cooling systems are located;
- 2. Manually operated gate valves must be installed in gas supply lines. The gate valves must be operable from a location above the Base Flood Elevation;
- 3. Electrical Systems flood proofing must be met; and
- 4. Heating and cooling systems including furnaces and cooling units must be installed at least two (2) feet above the Base Flood Elevation and all ductwork installed at least two (2) above the Base Flood Elevation.
- **13.** Plumbing Systems Flood Proofing Plumbing systems for uses in the Regulated Flood Hazard Area must be certified to meet the following requirements:
 - 1. Sewer lines, except those to a buried and sealed vault, must have check valves installed to prevent sewage backup into permitted structures; and
 - 2. All toilets, stools, sinks, urinals, vaults, and drains must be located so the lowest point of possible flood water entry is at least two (2) feet above the Base Flood Elevation.
- **14.** <u>Fill Material and Structural Fill Flood Proofing</u> Fill material placed in the Regulated Flood Hazard Area and fill used to elevate accessory structures, not including residential and non-residential buildings must be certified to meet the following requirements:
 - 1. For structural fill, the filled area must be at or above the Base Flood Elevation and extend at least fifteen (15) feet beyond the structure in all directions;
 - 2. For all fill, material must be suitable fill, that is stable, compacted, well graded, and pervious, not adversely affected by water and frost, devoid of trash or similar foreign matter, tree stumps or other organic material; and is fitting for the purpose of supporting the intended use and/or permanent structure.
 - 3. The fill must be compacted, when used to elevate a structure or when deemed necessary for other fill, to minimize settlement and compacted to 95 percent of the maximum density obtainable with the standard proctor test method per ASTM Standard D698 or AASHTO T99. Compaction of earthen fill must be certified by an engineer;
 - 4. No portion of the fill is allowed within the floodway;

- 5. The fill slope must not be steeper than 1 ½ horizontal to 1 vertical unless substantiating data justifying a steeper slope is provided and adequate erosion protection is provided for fill slopes exposed to floodwaters; and
- 6. When deemed necessary by the Floodplain Administrator to reduce cumulative impacts to public health and safety of adding fill in the regulated flood hazard area, pursuant to the purpose of these regulations in Section 1 and applicable review criteria in Section 8, compensatory flood storage shall be provided on-site in a location and manner that mitigates adverse impacts; and
- 7. Where necessary, a filled approach shall be culverted to minimize the obstruction of flow.
- **15.** <u>Wet Flood Proofing</u> Building designs with an enclosure below the lowest floor, designed to allow internal flooding of areas below the lowest floor, must be certified to meet the following:
 - Materials used for walls and floors are resistant to flooding to an elevation two
 feet or more above the Base Flood Elevation;
 - 2. The use of this space shall be limited to parking, loading areas, building access, and storage of equipment or materials not appreciably affected by flood waters.
 - 3. The enclosure must be designed to equalize hydrostatic forces on walls by allowing for entry and exit of floodwaters. Opening designs must either be certified by an engineer or architect or meet or exceed the following:
 - 1. Automatically allow entry and exit of floodwaters through screens, louvers, valves, and other coverings or devices;
 - 2. Have two (2) or more openings with a total net area of not less than one (1) square inch for every one (1) square foot of enclosed area below the Lowest Floor, except if the enclosure is partially subgrade, a minimum of 2 openings may be provided on a single wall; and
 - 3. Have the bottom of all openings no higher than one (1) foot above the higher of the exterior or interior adjacent grade or floor immediately below the openings.
- **16. <u>Dry Flood Proofing</u>** Building designs that do not allow internal flooding, and whose lowest floors are used for a purpose other than parking, loading, or storage of materials resistant to flooding must be certified according to these regulations to meet the following:

- 1. Building use must be for non-residential use only and does not include mixed residential and non-residential use;
- 2. Be Flood Proofed to an elevation no lower than two (2) feet above the Base Flood Elevation;
- 3. Be constructed of impermeable membranes or materials for floors and walls and have watertight enclosures for all windows, doors and other openings; and
- 4. Be designed to withstand the hydrostatic pressures and hydrodynamic forces resulting from the Base Flood and the effects of buoyancy.
- 17. <u>Elevation of the Lowest Floor</u> Elevating the lowest floor of a residential or non-residential structure including commercial or industrial structures may be only by stemwall foundation. A detached accessory residential garage or agricultural structure may be elevated on suitable fill. When approved by the Floodplain Administrator, the lowest floor may be elevated by pilings, posts, piers, or columns.;
- 18. <u>Crawl Spaces</u> Crawl space foundation enclosures including sub grade crawlspace enclosures below the lowest floor must meet the wet flood proofing requirements and be designed so that the crawl space floor is at or above the Base Flood Elevation. Crawl space foundations must have an inside dimension of not more than five (5) feet from the ground to the top of the living floor level and a sub grade crawlspace must also have the interior ground surface no more than two (2) feet below the exterior lowest adjacent ground surface on all sides. A sub grade foundation exceeding either dimension is a basement;
- **19.** Manufactured or Mobile Home Anchors
 Substantial improvement or replacement of all manufactured or mobile homes for residential or nonresidential use including additions, the chassis must be secure and must resist flotation, collapse or lateral movement by anchoring with anchoring components capable of carrying a force of 4,800 pounds and as follows:
 - 1. The lowest floor must be elevated 2 feet above the base flood elevation on a permanent stemwall foundation, reinforced mortared block or poured piers or other open foundation elements of at least equivalent strength.
 - 2. For manufactured homes less than fifty (50) feet long, over-the-top ties to ground anchors are required at each of the four (4) corners of the home, with two additional ties per side at intermediate locations; or
 - 3. For manufactured homes more than fifty (50) feet long, frame ties to ground anchors are required at each corner of the home with five (5) additional ties per side at intermediate points; and

20. Access for emergency vehicles is provided. For manufactured homes, access for a manufactured home hauler is also provided.

10.3 RESIDENTIAL BUILDING, EXCEPTIONS OR ADDITIONAL REQUIREMENTS New construction, alterations, and substantial improvements of residential dwellings, mobile or manufactured homes, including replacement of mobile or manufactured homes, must have any directly attributable access be compliant with Figure 1 and be constructed on stemwall foundations, or elevated by pilings, posts, piers, or columns when approved by the Floodplain Administrator, such that:

- Elevation of the Lowest Floor The Lowest Floor of the building including an attached garage or basement must be two (2) feet or more above the Base Flood Elevation;
- 2. <u>Enclosure</u> Enclosures of elevated buildings cannot be dry flood proofed. Use for an enclosure is limited to facilitating building component access. The enclosure including a crawlspace must be wet flood proofed and the enclosure floor must be at or above the Base Flood Elevation. An attached garage floor must be two (2) or more feet above the Base Flood Elevation; and
- **3.** <u>Recreation Vehicles</u> Recreational vehicles on site for more than 180 days or not ready for highway use must meet the requirements for manufactured homes for residential use.
- **4.** <u>Flood Proofing</u> Flood-proofing of electrical, heating, and plumbing systems shall be accomplished in accordance with Sections 10.11, 10.23, and 10.13; and

10.4 NON-RESIDENTIAL BUILDING, EXCEPTIONS OR ADDITIONAL

REQUIREMENTS New construction, alterations, and substantial improvements of non-residential including agricultural, commercial, and industrial buildings and residential and non-residential accessory buildings must be constructed such that:

- 1. <u>Elevation of the Lowest Floor</u> The Lowest Floor of the building must be elevated two (2) feet above the Base Flood Elevation or adequately dry flood proofed according to Section 10.2.15.;
- 2. <u>Enclosure</u> Enclosures below the Lowest Floor on elevated buildings must be wet flood proofed according to Section 10.2.14 and the use must be limited to parking, access or storage or must be adequately dry flood proofed according to this Section 10.2.15;
- 3. <u>Manufactured or mobile homes</u> Manufactured homes proposed for use as non-residential buildings cannot be dry flood proofed. Mobile homes proposed for use as commercial or industrial structures must be elevated at least 2 feet above the

base flood elevation in a manner consistent with structural elevation requirements in these regulations; and

- 4. The new construction, alteration, and substantial improvement of commercial and industrial buildings must be constructed on stemwall foundations or be adequately flood-proofed as specified in these regulations; and
- 5. <u>Agricultural structures</u> The following additional requirements and exceptions from the requirements of Section 10.4 apply to agricultural structures not intended to be insurable, used solely for agricultural purposes, having low flood damage potential, used exclusively in connection with the production, harvesting, storage, drying, or raising of agricultural commodities including raising of livestock and animal confinement facilities, and not intended for human habitation:
 - 1. Such structures may be exempted by the Floodplain Administrator from the Lowest Flood Elevation requirements established in Section 10.4.1 provided the Lowest Floor of the structures is elevated to at least the Base Flood Elevation or adequately dry floodproofed in conformance with the requirements of Section 10.2.15; and
 - 2. Such Structures shall comply with the requirements of Section 9.11.
 - 6. Additional Accessory Structures including Detached Garages Accessory structures that are on the same parcel of property as a principal structure, the use of which is incidental to the use of the principal structure. Accessory structures must be used for parking or storage, be small and represent a minimal investment by owners, and have low damage potential. Small structures referenced in FEMA Technical Bulletin P-2140 means not larger than a one-story two-car garage.
 - a. Such structures may be exempted by the Floodplain Administrator from the Lowest Flood Elevation requirements established in Section 10.4.1 provided the Lowest Floor of the structure is elevated to at least the Base Flood Elevation and adequately wet floodproofed in conformance with requirements of parts 1 and 2 of Section 10.2.14 or adequately dry floodproofed in conformance with the requirements of Section 10.2.15; and
 - b. Such Structures shall comply with the requirements of Section 9.11.
 - c. The new construction, alteration, and substantial improvement of detached garages shall be constructed with concrete perimeter walls or materials resistant to flooding, extending two (2) feet above the base flood elevation.

10.5 ZONE AH & AO FLOODPLAINS The provisions of these Regulations apply to Zone AH and AO floodplains. The base flood elevation is either identified in the Flood Insurance Study or the depth number is designated on the Flood Insurance Rate Maps and shall be referenced to the highest adjacent grade in determining flood proofing heights in applying these regulations. The encroachment limit does not apply and an encroachment analysis is not required for any development in the AH and AO floodplain. Adequate surface drainage must be provided around structures.

SECTION 11. EMERGENCIES

11.1 General

- 1. Emergency repair and replacement of severely damaged artificial obstructions and development in the Regulated Flood Hazard Area, including public transportation facilities, public water and sewer facilities, flood control works, and private projects are subject to the permitting requirements of these regulations.
- **2.** The provisions of these regulations are not intended to affect other actions that are necessary to safeguard life or structures during periods of emergency.

11.2 Emergency Notification and Application Requirements

- 1. The property owner and or the person responsible for taking emergency action must notify the Floodplain Administrator prior to initiating any emergency action in a Regulated Flood Hazard Area normally requiring a Floodplain permit. An Emergency Notification Form must be submitted to the Floodplain Administrator within five (5) days of the action taken as a result of an emergency.
- 2. Unless otherwise specified by the Floodplain Administrator, within 30 days of initiating the emergency action, a person who has undertaken an emergency action must submit a Floodplain Permit Application that describes what action has taken place during the emergency and describe any additional work that may be required to bring the project in compliance with these regulations.
- **3.** A person who has undertaken an emergency action may be required to modify or remove the project in order to meet the permit requirements.

SECTION 12. VARIANCES

<u>12.1 GENERAL</u> - A variance from the minimum development standards of these regulations may be allowed. An approved variance would permit construction in a manner otherwise as required or prohibited by these regulations. The Missoula Board of County Commissioners shall serve as the Missoula County Floodplain Board of Appeals. Requests for variances may be brought to the Missoula County Floodplain Board of Appeals at any time.

12.2 VARIANCE APPLICATION REQUIREMENTS:

- Prior to any consideration of a variance from any development standard in these regulations, a completed Floodplain Permit application and required supporting material must be submitted.
- 2. Additionally, supporting materials in a Variance application specific to the variance request including facts and information addressing the criteria in this Section must be submitted.
- 3. If the Floodplain permit application and Variance application is deemed not correct and complete, the Floodplain Administrator shall notify the applicant of deficiencies within a reasonable time not to exceed 30 days. Under no circumstances should it be assumed that the variance is automatically granted.

12.3 NOTICE REQUIREMENTS FOR FLOODPLAIN VARIANCE APPLICATIONPublic Notice of the Floodplain permit application and Variance application shall be given pursuant to Section 8.2.

12.4 EVALUATION OF VARIANCE APPLICATION

- 1. Within 180 working days (or time specified) after the receipt of a complete and correct Floodplain Permit Application and a determination by the Floodplain Administrator that a permit can likely be issued except for the requested variance, the variance request shall be submitted to the Missoula Floodplain Regulation Board of Appeals. The Floodplain Administrator shall provide the Missoula Floodplain Regulation Board of Appeals with recommended findings of fact and conclusions of law and a recommendation to approve, approve with conditions, or deny the variance.
- 2. Montana Department of Natural Resources and Conservation, if requested by the community, will provide technical assistance, and provide comment prior to the Missoula Board of County Commissioners taking action on the requested variance.

- **3.** A Floodplain permit and Variance shall only be issued upon a determination that the variance is the minimum allowance necessary, considering the flood hazard, to afford relief from these regulations and provided all of the following criteria are met:
 - 1. There is a good and sufficient cause. Financial hardship is not a good and sufficient cause;
 - 2. Failure to grant the variance would, because of exceptional circumstances, cause a unique or undue hardship to the applicant or community involved;
 - Residential and nonresidential buildings are not in the Floodway except for alterations or substantial improvement to existing buildings. Residential dwellings including basements and attached garages do not have the lowest floor elevation below the Base Flood Elevation;
 - 4. Any enclosure including a crawl space must meet the requirements of Section 10.2.14, Wet Flood Proofing if the enclosure interior grade is at or below the Base Flood Elevation;
 - 5. Granting of a variance will not result in increased flood heights to existing buildings, additional threats to public safety, extraordinary public expense, create nuisances, cause fraud on or victimization of the public, or conflict with other existing local laws or ordinances;
 - 6. The proposed use is adequately flood proofed;
 - 7. The variance is the minimum necessary, considering the flood hazard, to afford relief;
 - 8. Reasonable alternative locations including an alternative location outside of the floodplain are not available;
 - 9. An encroachment does not cause an increase to the Base Flood Elevation that is beyond that allowed in these regulations; and
 - 10. All other criteria for a Floodplain permit besides the specific development standard requested by variance are met.
- 4. An exception to the variance criteria may be allowed as follows:
 - For either new construction of a structure outside of the Floodway only or for substantial improvements or an alteration of a structure, on a lot of one-half acres or less that is contiguous to and surrounded by lots with existing structures constructed below the Base Flood Elevation; or

2. For Historic Structures – variances may be issued for the repair or rehabilitation of historic structures upon a determination that the proposed repair or rehabilitation will not preclude the structure's continued designation as a historic structure and the variance is the minimum relief necessary to preserve the historic character and design of the structure. The historic nature of the building must be designated as a preliminary or historic structure by U.S. Secretary of Interior or an approved state or local government historic preservation program.

12.5 DECISION

- 1. The Missoula County Floodplain Board of Appeals shall:
 - 1. After receiving the variance request from the Floodplain Administrator but before acting on the same, the Missoula Floodplain Regulation Board of Appeals shall hold a public hearing on the variance request. Missoula County shall provide notice of the time and date of the hearing to adjacent property owners and the Montana Department of Natural Resources and by publication in a newspaper of general circulation in the County not less than fifteen (15) days prior to the date of the hearing.
 - 2. Evaluate the Floodplain permit application and Variance application using the criteria in Section 12.4, and the application requirements and minimum development standards in Section 9 and 10;
 - 3. Make findings, and approve, conditionally approve or deny a Floodplain permit and variance within 180 days (or time specified) of a complete application.
 - 4. If approved, attach conditions to the approval of Floodplain permit and Variance including findings of fact, conclusions of law a project completion date and inspections during and after construction.
 - 5. If denied, attach findings of fact and conclusions of law for the basis of variance denial.
 - 6. Notify the applicant that the issuance of a Floodplain permit and Variance to construct a structure not meeting the minimum building requirements in these regulations may result in increased risks to life and property, and increased premium rates for flood insurance and that flood insurance premiums are determined by actuarial risk and will not be modified by the granting of a variance.
 - 7. Submit to the Floodplain Administrator a record of all actions involving a Floodplain permit and variance, including the findings and decision and send a copy of each variance granted to DNRC.

8. The Floodplain Administrator shall maintain the records of variance notification, variance actions, justification for their issuance and forward copies of all variances, including actions, to the Montana Department of Natural Resources and the Federal Emergency Management Agency (FEMA).

12.6 JUDICIAL REVIEW

Any person or persons aggrieved by the Floodplain permit and variance decision may appeal such decision in a court of competent jurisdiction.

SECTION 13. ADMINISTRATIVE APPEALS

13.1 GENERAL The Missoula Board of County Commissioners shall serve as the Missoula Floodplain Regulation Board of Appeals. Appeals from any decision made by the Floodplain Administrator may be made to the Missoula Floodplain Regulation Board of Appeals within 30 days of such decision by an aggrieved person or persons, jointly or separately aggrieved. An administrative appeal may be brought before the Missoula Floodplain Regulation Board of Appeals for review of the Floodplain Administrator's order, decision to grant, condition or deny a floodplain permit or interpretation of the Regulated Flood Hazard Area boundary.

13.2 APPEALS REQUIREMENTS The following provisions apply to administrative appeals:

- 1. An appeal shall include the basis of the appeal and supporting information including specific findings and conclusions of the Floodplain Administrator's decision being appealed;
- 2. An appeal may be submitted by an applicant and/or anyone who may be aggrieved by the Floodplain Administrator's decision or order;
- **3.** Appeals must be received within 30 days of the date of the decision or order of the Floodplain Administrator; and
- **4.** Additional information specific to the appeal request may be requested by the review panel.

13.3 NOTICE AND HEARING

- 1. Notice of the pending appeal and hearing shall be given by publication in a newspaper of general circulation in the County not less than 15 days prior to the date of the hearing and provided pursuant to Section 8.2. The Floodplain Administrator shall notify DNRC and FEMA of pending appeals.
- **2.** A public hearing on the appeal must be held within 30 days of the Notice unless set otherwise.

13.4 DECISION

A judgment on an appeal shall be made within 180 days (or time specified) of the hearing unless set otherwise. The decision may affirm, modify, or overturn the Floodplain Administrator's decision. A decision on an appeal of a permit cannot grant or issue a variance. A decision may support, reverse or remand an order or determination of a boundary of the Regulated Flood Hazard Area by the Floodplain Administrator.

The Floodplain Administrator shall maintain the records of appeals and forward copies of all appeals to the Montana Department of Natural Resources and the Federal Emergency Management Agency.

13.5 JUDICIAL REVIEW

Any person or persons aggrieved by the decision on an administrative appeal may appeal such decision in a court of competent jurisdiction.

SECTION 14. ENFORCEMENT

- **14.1 INVESTIGATION REQUEST** An investigation to determine compliance with these regulations for an artificial obstruction or nonconforming use within the Regulated Flood Hazard Area may be made either on the initiative of the Floodplain Administrator or on the written request of three titleholders of land which may be affected by the activity. The names and addresses of the persons requesting the investigation shall be released if requested.
- **14.2 NOTICE TO ENTER AND INVESTIGATE LANDS OR WATERS** The Floodplain Administrator may make reasonable entry upon any lands and waters for the purpose of making an investigation, inspection or survey to verify compliance with these regulations.
 - **1.** The Floodplain Administrator shall provide notice of entry by mail, electronic mail, phone call, or personal delivery to the owner, owner's agent, lessee, or lessee's agent whose lands will be entered.
 - **2.** If none of these persons can be found, the Floodplain Administrator shall affix a copy of the notice to one or more conspicuous places on the property.
 - **3.** If the owners do not respond, cannot be located, or refuse entry to the Floodplain Administrator, the Floodplain Administrator may initiate a Search Warrant.
- 14.3 NOTICE TO RESPOND AND ORDER TO TAKE CORRECTIVE ACTION When the Floodplain Administrator determines that a violation may have occurred, the Floodplain Administrator may issue written notice to the owner or an agent of the owner, either personally or by certified mail. Such notice shall cite the regulatory offense and include an order to take corrective action within a reasonable time or to respond by requesting an administrative review by the Floodplain Administrator.
- **14.4 ADMINISTRATIVE REVIEW** The order to take corrective action is final, unless within five (5) working days or any granted extension, after the order is received, the owner submits a written request for an administrative review by the Floodplain Administrator. A request for an administrative review does not stay the order.
- **14.5 APPEAL OF ADMINISTRATIVE DECISION** Within ten (10) working days or any granted extension of receipt of the Floodplain Administrator's decision concluding the administrative review, the property owner or owner's agent may appeal the decision pursuant to Section 13.
- **14.6 FAILURE TO COMPLY WITH ORDER TO TAKE CORRECTIVE ACTION** If the owner fails to comply with the order for corrective action, remedies may include administrative or legal actions, or penalties through court.

- **14.7 OTHER REMEDIES** This section does not prevent efforts to obtain voluntary compliance through warning, conference, or any other appropriate means. Action under this part shall not bar enforcement of these regulations by injunction or other appropriate remedy.
- **14.8 VIOLATION NOTICE** The Floodplain Administrator shall bring any alleged violation of these Regulations to the attention of the County Attorney and the Montana Department of Natural Resources and Conservation.
- **14.9 COMPLIANCE** Any use, arrangement, or construction not in compliance with that authorized by permit shall be deemed a violation of these Regulations and punishable as provided in this section or enforced as provided in MCA 76-5-110.

SECTION 15. PENALTIES

15.1 MISDEMEANOR Violation of the provisions of these regulations or failure to comply with any of the requirements, including failure to obtain permit approval prior to development in the Regulated Flood Hazard Area except for an emergency, shall constitute a misdemeanor and may be treated as a public nuisance.

Any person who violates these regulations or fails to comply with any of its requirements shall, upon conviction thereof, be fined not more than \$100 or imprisoned for not more than 10 days or both. Each day's continuance of a violation shall be deemed a separate and distinct offense.

15.2 DECLARATION TO THE FEDERAL FLOOD INSURANCE ADMINISTRATOR

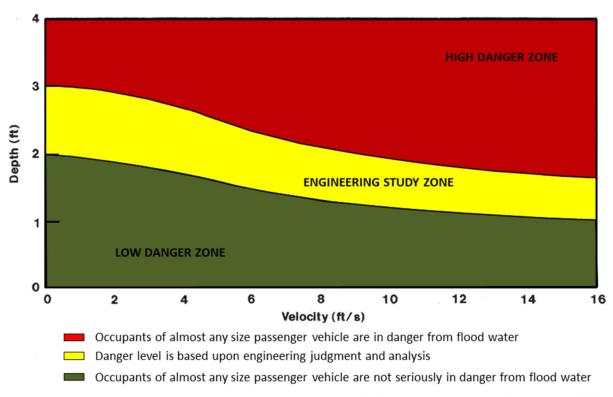
Upon finding of a violation and failure of the owner to take corrective action as ordered, the Floodplain Administrator may submit notice and request a 1316 Violation Declaration to the Federal Insurance Administrator. The Federal Insurance Administrator has the authority to deny new and renewal flood insurance for a structure upon finding a valid violation declaration.

The Floodplain Administrator shall provide the Federal Insurance Administrator the following:

- **1.** The name(s) of the property owner(s) and address or legal description of the property sufficient to confirm its identity and location;
- **2.** A clear and unequivocal declaration that the property is in violation of a cited State or local law, regulation or ordinance:
- **3.** A clear statement that the public body making the declaration has authority to do so and a citation to that authority;
- **4.** Evidence that the property owner has been provided notice of the violation and the prospective denial of insurance; and
- **5.** A clear statement that the declaration is being submitted pursuant to section 1316 of the National Flood Insurance Act of 1968, as amended.

FIGURE 1

DEPTH-VELOCITY FLOOD DANGER LEVEL FOR AUTOMOBILES & PICKUP TRUCKS



Adapted From Montana DNRC Dam Safety Program, Technical Note 2 (August, 2010)

<u>APPENDIX</u>

Regulated Flood Hazard Area Reference Guide

Missoula County Community Number: 300048

Table 1: Missoula County Flood Insurance Study				
Study #	Suffix	Effective Date		
30063CV001	С	October 5, 2023		
30063CV002	С	October 5, 2023		
30063CV003	С	October 5, 2023		

Table 2: Missoula County Flood Insurance Rate Maps				
FIRM Panel #	Suffix	Effective Date		
30063C0032	F	March 7, 2019		
30063C0034	F	March 7, 2019		
30063C0042	F	March 7, 2019		
30063C0053	F	March 7, 2019		
30063C0061	F	March 7, 2019		
30063C0062	F	March 7, 2019		
30063C0063	F	March 7, 2019		
30063C0064	F	March 7, 2019		
30063C0177	F	March 7, 2019		
30063C0181	F	March 7, 2019		
30063C0183	F	March 7, 2019		
30063C0191	F	March 7, 2019		
30063C0717	F	October 5, 2023		
30063C0736	F	October 5, 2023		
30063C0738	F	October 5, 2023		
30063C0739	F	October 5, 2023		
30063C0825	E	July 6, 2015		
30063C0850	E	July 6, 2015		
30063C0865	E	July 6, 2015		
30063C0870	E	July 6, 2015		
30063C0875	E	July 6, 2015		
30063C0890	E	July 6, 2015		
30063C1027	E	July 6, 2015		
30063C1031	E	July 6, 2015		
30063C1125	E	July 6, 2015		
30063C1135	E	July 6, 2015		
30063C1155	E	July 6, 2015		

30063C1160	Е	July 6, 2015	
30063C1165	E	July 6, 2015	
30063C1170	E	July 6, 2015	
30063C1180	E	July 6, 2015	
30063C1185	E	July 6, 2015	
30063C1190	Е	July 6, 2015	
30063C1195	E	July 6, 2015	
30063C1205	E	July 6, 2015	
30063C1215	E	July 6, 2015	
30063C1220	E	July 6, 2015	
30063C1240	E	July 6, 2015	
30063C1245	E	July 6, 2015	
30063C1275	E	July 6, 2015	
30063C1395	E	July 6, 2015	
30063C1425	E	July 6, 2015	
30063C1435	Е	July 6, 2015	
30063C1450	Е	July 6, 2015	
30063C1455	E	July 6, 2015	
30063C1460	Е	July 6, 2015	
30063C1465	E	July 6, 2015	
30063C1470	Е	July 6, 2015	
30063C1480	E	July 6, 2015	
30063C1485	E	July 6, 2015	
30063C1490	E	July 6, 2015	
30063C1505	E	July 6, 2015	
30063C1510	Е	July 6, 2015	
30063C1520	Е	July 6, 2015	
30063C1540	Е	July 6, 2015	
30063C1730	Е	July 6, 2015	
30063C1735	Е	July 6, 2015	
30063C1755	Е	July 6, 2015	
30063C1760	Е	July 6, 2015	
30063C1765	Е	July 6, 2015	
30063C1770	E	July 6, 2015	
30063C1830	E	July 6, 2015	
30063C1835	E	July 6, 2015	
30063C1845	E	July 6, 2015	
30063C1855	E	July 6, 2015	
30063C1860	E	July 6, 2015	

Table 3: Missoula County Recognized Letters of Map Revision					
FEMA Case	Type	Effective Date	Affected Map	Watercourse(s)	
Number			Panel(s)		
15-08-1043P	LOMR	July 29, 2015	30063C1220E	Blackfoot River,	
			30063C1240E	Clark Fork River	
			30063C1485E		
			30063C1505E		
21-08-0781P	LOMR	June 27, 2022	30063C1215E	Rattlesnake Creek	
21-08-0878P	LOMR	April 27, 2022	30063C1195E	Grant Creek	
22-08-0126P	LOMR	May 27, 2023	30063C1190E	Butler Creek	
			30063C1180E		