

CHAPTER 85

FLOODPLAIN ZONING

Introduction

- 85.01 Statutory Authorization**
- 85.02 Findings of Fact**
- 85.03 Statement of Purpose**
- 85.04 Title**
- 85.05 General Provisions**
- 85.06 – 85.07 Reserved**

General Standards Applicable to All Floodplain Districts

- 85.08 General Standards Applicable to All Districts**
- 85.09 Hydraulic and Hydrologic Analyses**
- 85.10 Watercourse Alterations**
- 85.11 Chapter 30, 31 Wis. Stats Development**
- 85.12 Public or Private Campgrounds**
- 85.13 – 85.15 Reserved**

Floodway District

- 85.16 Applicability**
- 85.17 Permitted Uses**
- 85.18 Standards for Development in Floodway Areas**
- 85.19 Prohibited Uses**
- 85.20 – 85.22 Reserved**

Flood-fringe District (FF)

- 85.23 Applicability**
- 85.24 Permitted Uses**
- 85.25 Standards for Development in Flood-fringe**
- 85.26 – 85.28 Reserved**

General Floodplain District

- 85.29 Applicability**
- 85.30 Permitted Uses**
- 85.31 Standards for Development in the General Floodplain District**
- 85.32 Determining Floodway and Floodfringe Limits**
- 85.33 – 85.35 Reserved**

Nonconforming Uses

- 85.36** **Applicability; Conditions for Continued Use**
- 85.37** **Floodway District**
- 85.38** **Floodfringe District**
- 85.39 – 85.41** **Reserved**

Administration

- 85.42** **General Provisions**
- 85.43** **Zoning Administrator; Permits and Certificates**
- 85.44** **Plan Commission**
- 85.45** **Zoning Board of Appeals**
- 85.46** **To Review Appeals of Permit Denials**
- 85.47** **Floodproofing Standards for Nonconforming Structures or Uses**
- 85.48** **Public Information**
- 85.49 – 85.51** **Reserved**

Amendments

- 85.52** **General**
- 85.53** **Amendment Procedure**
- 85.54 – 85.56** **Reserved**

Enforcement

- 85.57** **Violations and Penalties**
- 85.58 – 85.59** **Reserved**

Definitions and Word Usage

- 85.60** **Word Usage**
- 85.61** **Definitions**

CHAPTER 85

FLOODPLAIN ZONING

Introduction

SECTION 85.01 Statutory Authorization.

This chapter is adopted pursuant to the authorizations afforded the Village of Cross Plains by Sections 61.35 and 62.23, Wis. Stats., and as required by Section 87.30, Wis. Stats.

SECTION 85.02 Findings of Fact.

Uncontrolled development and use of the floodplains, streams and creeks within the Village would impair the public health, safety, convenience, general welfare and tax base.

SECTION 85.03 Statement of Purpose.

This chapter is intended to regulate floodplain development to:

- (a) Protect life, health and property;
- (b) Minimize expenditures of public funds for flood-control projects;
- (c) Minimize rescue and relief efforts undertaken at the expense of the taxpayers;
- (d) Minimize business interruptions and other economic disruptions;
- (e) Minimize damage to public facilities in the floodplain;
- (f) Minimize the occurrence of future flood blight areas in the floodplain;
- (g) Discourage the victimization of unwary land and home buyers;
- (h) Prevent increases in flood heights that could increase flood damage and result in conflicts between property owners; and
- (i) Discourage development in a floodplain if there is any practicable alternative to locate the activity, use or structure outside of the floodplain.

SECTION 85.04 Title.

This chapter shall be known as the “Floodplain Zoning Ordinance for the Village of Cross Plains, Dane County, Wisconsin.”

SECTION 85.05 General Provisions.

- (a) **Areas to be Regulated.** This ordinance regulates all areas that would be covered by the regional flood or base flood as shown on the Flood Insurance Rate Map (FIRM) or other maps approved by DNR. Base flood elevations are derived from the flood profiles in the Flood Insurance Study (FIS) and are shown as AE, A1-30, and AH Zones on the FIRM. Other regulatory zones are displayed as A and AO zones.

Regional Flood Elevations (RFE) may be derived from other studies. If more than one map or revision is referenced, the most restrictive information shall apply.

- (b) **Official Maps and Revisions.** The boundaries of all floodplain districts are designated as A, AE, AH, AO or A1-30 on the maps based on the Flood Insurance Study (FIS) listed below. Any change to the base flood elevations (BFE) or any changes to the boundaries of the floodplain or floodway in the FIS or on the Flood Insurance Rate Map (FIRM) must be reviewed and approved by the DNR and FEMA through the Letter of Map Change process before it is effective. No changes to RFEs on non-FEMA maps shall be effective until approved by the DNR. These maps and revisions are on file in the office of the Village Clerk. If more than one map or revision is referenced, the most restrictive information shall apply.

The official maps, based on the Flood Insurance Study, include the following:

- (1) Flood Insurance Rate Map (FIRM), Community Panel Number 550081, including map panels 55025C0195G, 55025C0356G, 55025C0357G and 55025C0376G, made effective on January 2, 2009, and all future amendments thereto.
- (2) Flood Insurance Study (FIS) for Dane County, Wisconsin, numbered 55025CV001B and 55025CV002B made effective January 2, 2009.
- (3) Official Maps: Based on other studies. Any maps referenced in this section must be approved by the DNR and be more restrictive than those based on the FIS at the site of the proposed development.
- (4) Letter of Map Revisions approved by FEMA after January 2, 2009.
- (5) The floodway map dated May 5, 2020, flood profiles, and floodway data table, labeled below as Exhibits (5)A, (5)B and (5)C, relating to the floodplain analysis for Brewery Creek approved by the Wisconsin Department of Natural Resources on April 29, 2020.

Exhibit (5)A

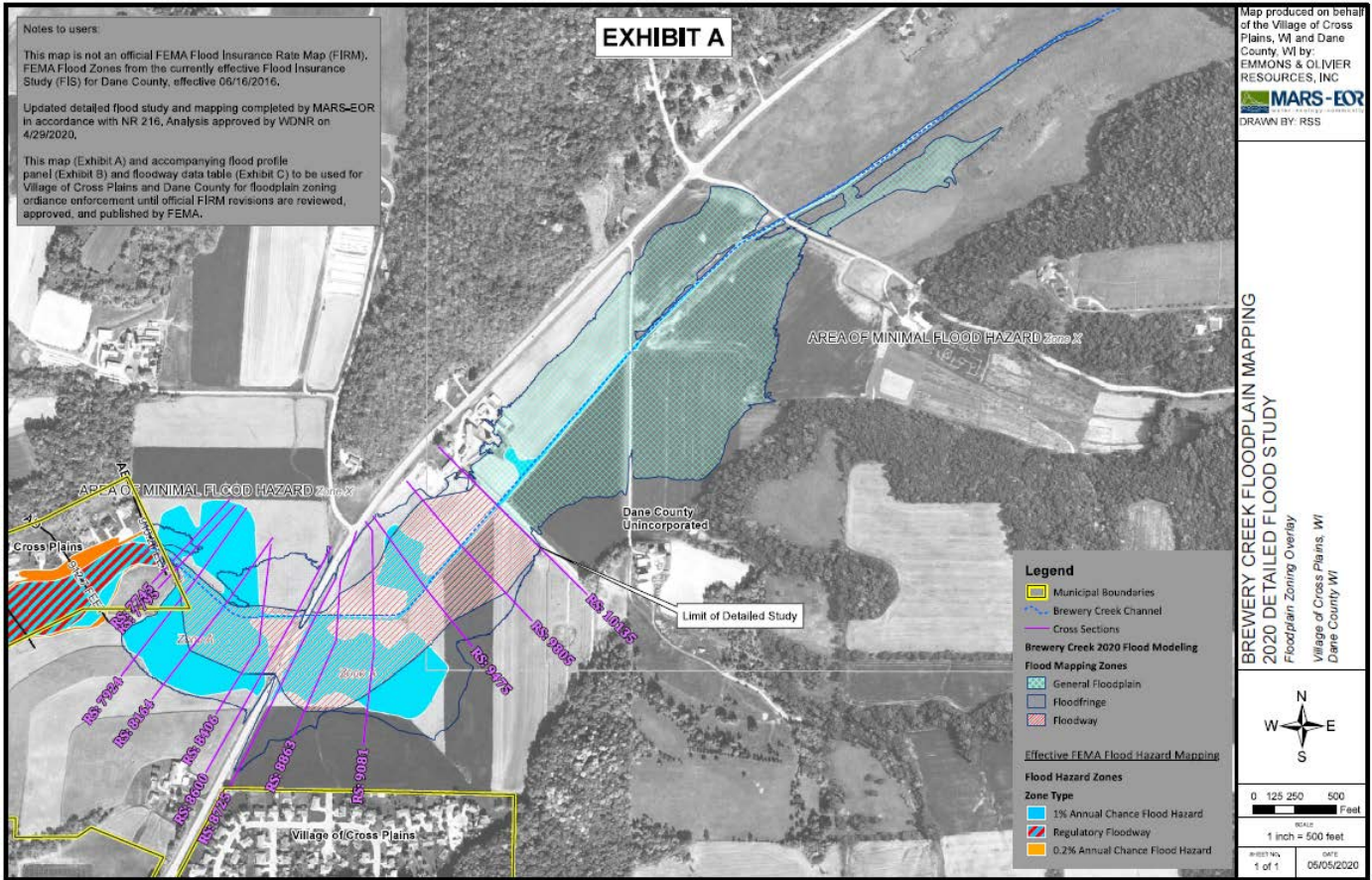
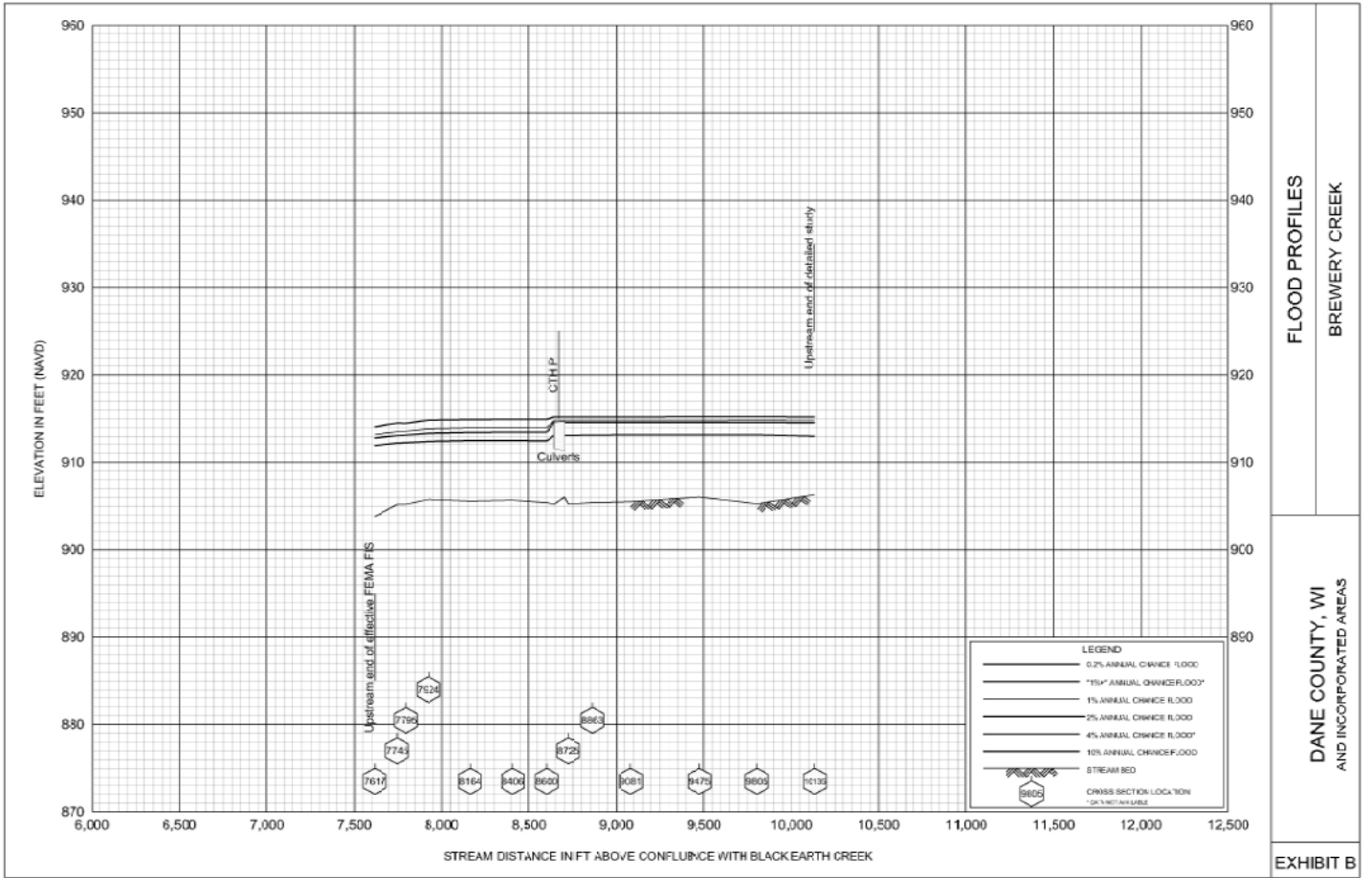


Exhibit (5)B



FLOOD PROFILES
BREWERY CREEK

DANE COUNTY, WI
AND INCORPORATED AREAS

EXHIBIT B

EXHIBIT (5)C

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
7745	7,745	63	328	4.0	913.5	913.5	913.5	0.0
7795	7,795	48	270	4.0	913.6	913.6	913.6	0.0
7924	7,924	184	1,987	2.0	913.8	913.8	913.8	0.0
8164	8,164	404	2,412	0.7	913.9	913.9	913.9	0.0
8406	8,406	438	2,596	0.6	913.9	913.9	913.9	0.0
8600	8,600	438	2,543	0.6	914.0	914.0	914.0	0.0
8725	8,725	493	4,135	0.4	914.8	914.8	914.8	0.0
8863	8,863	751	4,065	0.3	914.8	914.8	914.8	0.0
9081	9,081	736	3,211	0.3	914.8	914.8	914.8	0.0
9475	9,475	626	2,455	0.4	914.8	914.8	914.8	0.0
9805	9,805	760	2,653	0.4	914.8	914.8	914.8	0.0
10135	10,135	553	785	1.2	914.8	914.8	914.8	0.0

- (c) **Establishment of Districts.** The regional floodplain areas are divided into the following:
- (1) The floodway district (FW) is the channel of a river or stream and those portions of the floodplain adjoining the channel required to carry the regional floodwaters and are contained within AE zones as shown on the FIRM.
 - (2) The flood-fringe district (FF) is that portion of the floodplain between the regional flood limits and the floodway and displayed as AE zones on the FIRM.
 - (3) The general floodplain district (GFP) is those areas that have been or may be covered by floodwater during the regional flood and does not have a BFE or floodway boundary determined, including A, AH and AO zones on the FIRM..
- (d) **Locating Floodplain Boundaries.** Discrepancies between boundaries on the Official Floodplain Zoning Map and actual field conditions shall be resolved using the criteria in Subsection (d)(1) or (2) below. If a significant difference exists, the map shall be amended according to Section 85.53. The Zoning Administrator can rely on a boundary derived from a profile elevation to grant or deny a land use permit, whether or not a map amendment is required. The Zoning Administrator shall be responsible for documenting actual predevelopment field conditions and the basis upon which the district boundary was determined and for initiating any

map amendments required under this subsection. Disputes between the Zoning Administrator and an applicant over the district boundary line shall be settled according to Section 85.45(c) and the criteria set forth in Subsection (d)(1) and (2) below. Where the flood profiles are based on established base flood elevations from a FIRM, FEMA must approve any map amendment or revision pursuant so Section 85.52:

- (1) If flood profiles exist, the map scale and the profile elevations shall determine the district boundary. The regional or base flood elevations shall govern if there are any discrepancies.
 - (2) Where flood profiles do not exist, the location of the boundary shall be determined by the map scale.
- (e) **Removal of Lands from Floodplain.** Compliance with the provisions of this chapter shall not be grounds for removing land from the floodplain unless it is filled at least two feet above the regional or base flood elevation, the fill is contiguous to land outside the floodplain, and the map is amended pursuant to Section 85.53.
- (f) **Compliance.** Any development or use within the areas regulated by this chapter shall be in compliance with the terms of this chapter and other applicable local, state, and federal regulations.
- (g) **Municipalities and State Agencies Regulated.** Unless specifically exempted by law, all cities, villages, towns, and counties are required to comply with this chapter and obtain all necessary permits. State agencies are required to comply if Section 13.48(13), Wis. Stats., applies. The construction, reconstruction, maintenance and repair of state highways and bridges by the Wisconsin Department of Transportation are exempt when Section 30.2022, Wis. Stats., applies.
- (h) **Abrogation and Greater Restrictions.**
- (1) This chapter supersedes all the provisions of any municipal zoning ordinance enacted under Section 61.35, Wis. Stats., for villages or Section 87.30, Wis. Stats., which relate to floodplains. A more restrictive ordinance shall continue in full force and effect to the extent of the greater restrictions, but not otherwise.
 - (2) This chapter is not intended to repeal, abrogate or impair any existing deed restrictions, covenants or easements. If this chapter imposes greater restrictions, the provisions of this chapter shall prevail.
- (i) **Interpretation.** In their interpretation and application, the provisions of this chapter are the minimum requirements liberally construed in favor of the governing body and are not a limitation on or repeal of any other powers granted by the Wisconsin Statutes. If a provision of this chapter required by Ch. NR 116, Wis. Adm. Code, is unclear, the provision shall be interpreted in light of the standards in effect on the date of the adoption of this chapter or in effect on the date of the most recent text amendment to this chapter.
- (j) **Warning and Disclaimer of Liability.** The flood protection standards in this chapter are based on engineering experience and research. Larger floods may occur or the flood height may be increased by man-made or natural causes. This chapter

does not imply or guarantee that non-floodplain areas or permitted floodplain uses will be free from flooding and flood damages. This chapter does not create liability on the part of, or a cause of action against, the Village or any officer or employee thereof for any flood damage that may result from reliance on this chapter.

- (k) **Severability.** Should any portion of this ordinance be declared unconstitutional or invalid by a court of competent jurisdiction, the remainder of this ordinance shall not be affected.
- (l) **Annexed Areas.** The Dane County floodplain zoning provisions in effect on the date of any annexation shall remain in effect and shall be enforced by the Village for all annexed areas until the Village adopts and enforces an ordinance which meets the requirements of Ch. NR 116, Wis. Adm. Code, and 44 CFR 59-72, the National Flood Insurance Program (NFIP). These annexed lands are described on the Village's Official Zoning Map. County floodplain zoning provisions are incorporated by reference for the purpose of administering this subsection and are on file in the office of the Village Zoning Administrator. All plats or maps of annexation shall show the regional flood elevation and the location of the floodway.
- (l)

SECTIONS 85.06 – 85.07 Reserved

General Standards Applicable to All Floodplain Districts

SECTION 85.08 General Standards Applicable to All Districts. The Village shall review all permit applications to determine whether proposed building sites will be reasonably safe from flooding. If a proposed building site is in a flood-prone area, all new construction and substantial improvements shall be designed or modified and adequately anchored to prevent flotation, collapse, or lateral movement of the structure resulting from hydrodynamic and hydrostatic loads; be constructed with flood resistant materials; be constructed to minimize flood damages; and to ensure that utility and mechanical equipment is designed and/or located so as to prevent water from entering or accumulating within the equipment during conditions of flooding.

Subdivisions shall be reviewed for compliance with the above standards. All subdivision proposals (including manufactured home parks) shall include regional flood elevation and floodway data for any development that meets the subdivision definition of this ordinance and all other requirements in s. 85.43(b). Adequate drainage shall be provided to reduce exposure to flood hazards and all public utilities and facilities, such as sewer, gas, electrical, and water systems are located and constructed to minimize or eliminate flood damages

SECTION 85.09 Hydraulic and Hydrologic Analyses.

- (a) Except as allowed in Subsection (c) below, no floodplain development shall:
 - (1) Obstruct flow, defined as development which blocks the conveyance of floodwaters by itself or with other development, increasing regional flood height; or
 - (2) Cause any increase in the regional flood height due to floodplain storage area lost.
- (b) The Zoning Administrator shall deny permits if it is determined the proposed development will obstruct flow or cause any increase in the regional flood height, based on the officially adopted FIRM or other adopted map, unless the provisions of section 85.53 are met.

SECTION 85.10 Watercourse Alterations.

- (a) No land use permit to alter or relocate a watercourse in a mapped floodplain shall be issued until the Zoning Administrator has notified in writing all adjacent municipalities, the Department and FEMA regional offices and required the applicant to secure all necessary state and federal permits. The standards of section 85.08 must be met and the flood-carrying capacity of any altered or relocated watercourse shall be maintained.
- (b) As soon as is practicable, but not later than six months after the date of the watercourse alteration or relocation, and pursuant to section 85.53, the Zoning Administrator shall apply for a Letter of Map Revision (LOMR) from FEMA. Any such alterations must be reviewed and approved by FEMA and the DNR through the LOMC process.

SECTION 85.11 Chapter 30, 31Wis. Stats., Development.

Development which requires a permit from the Department under Chs. 30 or 31, Wis. Stats., such as docks, piers, wharves, bridges, culverts, dams and navigational aids, may be allowed if the necessary permits are obtained and amendments to the floodplain zoning ordinance are made according to Section 85.53 of this Chapter.

SECTION 85.12 Public or Private Campgrounds.

Public or private campgrounds shall have a low flood damage potential and shall meet the following provisions:

- (a) The campground is approved by the Department of Health Services.
- (b) A land use permit for the campground is issued by the Zoning Administrator.
- (c) The character of the water system and the elevation of the campground are such that a seventy-two-hour warning of an impending flood can be given to all campground occupants.

- (d) There is an adequate flood warning procedure for the campground that offers the minimum notice required under this section to all persons in the campground. This procedure shall include a written agreement between the campground owner, the Village emergency government coordinator and the Village Police Chief which specifies the flood elevation at which evacuation shall occur, personnel responsible for monitoring flood elevations, types of warning systems to be used and the procedures for notifying at-risk parties, and the methods and personnel responsible for conducting the evacuation.
- (e) This agreement shall be for no more than one calendar year, at which time the agreement shall be reviewed and updated, by the officials identified in Subsection (d), to remain in compliance with all applicable regulations, including those of the State Department of Health Services and all other applicable regulations.
- (f) Only camping units that are fully licensed, if required, and ready for highway use are allowed.
- (g) The camping units shall not occupy any site in the campground for more than 180 consecutive days, at which time the camping unit must be removed from the floodplain for a minimum of 24 hours.
- (h) All camping units that remain on site for more than 30 days shall be issued a limited authorization by the campground operator, a written copy of which is kept on file at the campground. Such authorization shall allow placement of a camping unit for a period not to exceed 180 days and shall ensure compliance with all the provisions of this section.
- (i) The Village shall monitor the limited authorizations issued by the campground operator to assure compliance with the terms of this section.
- (j) All camping units that remain in place for more than 180 consecutive days must meet the applicable requirements for the floodplain district in which the structure is located.
- (k) The campground shall have signs clearly posted at all entrances warning of the flood hazard and the procedures for evacuation when a flood warning is issued.
- (l) All service facilities, including but not limited to refuse collection, electrical service, natural gas lines, propane tanks, sewage systems and wells, shall be properly anchored and placed at or floodproofed to the flood protection elevation.

SECTIONS 85.13 – 85.15 Reserved

Floodway District

SECTION 85.16 Applicability.

This article applies to all floodway areas on the floodplain zoning maps and those identified pursuant to Section 85.31.

SECTION 85.17 Permitted Uses.

The following open space uses are allowed in the floodway district and the floodway areas of the general floodplain district if they are not prohibited by any other ordinance, they meet the standards in sections 85.18 and 85.19, and all permits have been issued according to section 85.43:

- (a) Agricultural uses, such as farming, outdoor plant nurseries, horticulture, viticulture and wild crop harvesting.
- (b) Nonstructural industrial and commercial uses, such as loading areas, parking areas and airport landing strips.
- (c) Nonstructural recreational uses, such as golf courses, tennis courts, archery ranges, picnic grounds, boat ramps, swimming areas, parks, wildlife and nature preserves, game farms, fish hatcheries, shooting, trap and skeet activities, hunting and fishing areas and hiking and horseback riding trails, subject to the fill limitations of Section 85.18(d).
- (d) Uses or structures accessory to open space uses or classified as historic structures that comply with Section 85.18, and are not prohibited by Section 85.19.
- (e) Extraction of sand, gravel or other materials that complies with Section 85.18(d).
- (f) Functionally water-dependent uses, such as docks, piers or wharves, dams, flowage areas, culverts, navigational aids and river crossings of transmission lines, and pipelines that comply with Chs. 30 and 31, Wis. Stats.
- (g) Public utilities, streets and bridges that comply with Section 85.18(c).

SECTION 85.18 Standards for Development in Floodway Areas.

(a) General.

- (1) Any development in floodway areas shall comply with Sections 85.09 – 85.12 and have a low flood damage potential.
- (2) Applicants shall provide the following data to determine the effects of the proposal according to Section 85.09:
 - a. A cross-section elevation view of the proposal, perpendicular to the watercourse, showing if the proposed development will obstruct flow;
or
 - b. An analysis calculating the effects of this proposal on regional flood height.

- (3) The Zoning Administrator shall deny the permit application if the project will cause any increase in the flood elevations upstream or downstream, based on the data submitted for Subsection (a)(2) above.
- (b) **Structures.** Structures accessory to permanent open space uses or functionally dependent on a waterfront location may be allowed by permit if the structures comply with the following criteria:
 - (1) The structure is not designed for human habitation, does not have a high flood damage potential, and is constructed to minimize flood damage;
 - (2) It must be anchored to resist flotation, collapse, and lateral movement;
 - (3) Mechanical and utility equipment must be elevated or floodproofed to or above the flood protection elevation; and
 - (4) It must not obstruct the flow of floodwaters or cause any increase in flood levels during the occurrence of the regional flood.
 - (5) Shall have a minimum of two openings on different walls having a total net area not less than one square inch for every square foot of enclosed area, and the bottom of all such openings being no higher than one foot above grade. The openings shall be equipped with screens, louvers, or other coverings or devices provided that they permit the automatic entry and exit of floodwaters.
- (c) **Public Utilities, Streets and Bridges.** Public utilities, streets and bridges may be allowed by permit if:
 - (1) Adequate floodproofing measures are provided to the flood protection elevation; and
 - (2) Construction meets the development standards of Section 85.09.
- (d) **Fills or Deposition of Materials.** Fills or deposition of materials may be allowed by permit if:
 - (1) The requirements of Section 85.09 are met;
 - (2) No material is deposited in the navigable waters unless a permit is issued by the Department pursuant to Ch. 30, Wis. Stats., and a permit pursuant to Section 404 of the Federal Water Pollution Control Act, Amendments of 1972, 33 U.S.C. Section 1344 has been issued, if applicable, and the other requirements of this section are met;
 - (3) The fill or other materials will be protected against erosion by riprap, vegetative cover, sheet piling or bulkheading; and
 - (4) The fill is not classified as a solid or hazardous material.

SECTION 85.19 Prohibited Uses.

All uses not listed as permitted uses in Section 85.17 are prohibited, including the following uses:

- (a) Habitable structures, structures with high flood damage potential, or those not associated with permanent open space uses.

- (b) Storage of materials that are buoyant, flammable, explosive, or injurious to property, water quality, or human, animal, plant, fish or other aquatic life.
- (c) Uses not in harmony with or detrimental to uses permitted in the adjoining districts.
- (d) Any private or public sewage systems, except portable latrines that are removed prior to flooding and systems associated with recreational areas and Department-approved campgrounds that meet the applicable provisions of local ordinances and Ch. SPS 383, Wis. Adm. Code.
- (e) Any public or private wells which are used to obtain potable water, except those for recreational areas that meet the requirements of local ordinances and Chs. NR 811 and NR 812, Wis. Adm. Code.
- (f) Any solid or hazardous waste disposal sites.
- (g) Any wastewater treatment ponds or facilities, except those permitted under Section NR 110.15(3)(b), Wis. Adm. Code.
- (h) Any sanitary sewer or water supply lines, except those to service existing or proposed development located outside the floodway which complies with the regulations for the floodplain area occupied.

SECTIONS 85.20 – 85.22 Reserved

Flood-Fringe District (FF)

SECTION 85.23 Applicability.

This article applies to all flood-fringe areas shown on the floodplain zoning maps and those identified pursuant to Section 85.31.

SECTION 85.24 Permitted Uses.

Any structure, land use, or development is allowed in the flood-fringe district if the standards in Section 85.25 are met, the use is not prohibited by this chapter or any other ordinance or regulation and all permits or certificates specified in Section 85.43 have been issued.

SECTION 85.25 Standards for Development in Flood-fringe.

Section 85.09 shall apply in addition to the following requirements according to the use requested. Any existing structure in the floodfringe must meet the requirements of section 85.36:

- (a) **Residential Uses.** Any structure, including a manufactured home, which is to be newly constructed or moved into the flood-fringe shall meet or exceed the following

standards. Any existing structure in the floodfringe must meet the requirements of section 85.36:

- (1) The elevation of the lowest floor shall be at or above the flood protection elevation on fill unless the requirements of section (b) can be met. The fill shall be one foot or more above the regional flood elevation extending at least 15 feet beyond the limits of the structure.
 - (2) The basement or crawlway floor may be placed at the regional flood elevation if it is floodproofed to the flood protection elevation. No basement or crawlway floor is allowed below the regional flood elevation.
 - (3) Contiguous dryland access shall be provided from a structure to land outside of the floodplain, except as provided in Subsection (a)(4).
 - (4) In developments where existing street or sewer line elevations make compliance with Subsection (a)(3) impractical, the municipality may permit new development and substantial improvements where access roads are at or below the regional flood elevation if:
 - a. The municipality has written assurance from police, fire and emergency services that rescue and relief will be provided to the structure(s) by wheeled vehicles during a regional flood event; or
 - b. The Village has a DNR approved emergency evacuation plan.
- (b) **Accessory Structures or Uses.** Accessory structures shall be constructed on fill with the lowest floor at or above the regional flood elevation.
- (c) **Commercial Uses.** Any commercial structure which is erected, altered or moved into the flood-fringe shall meet the requirements of Subsection (a). Subject to the requirements of Subsection (e), storage yards, surface parking lots and other such uses may be placed at lower elevations if an adequate warning system exists to protect life and property.
- (d) **Manufacturing and Industrial Uses.** Any manufacturing or industrial structure which is erected, altered or moved into the flood-fringe shall have the lowest floor elevated to or above the flood protection elevation or meet the floodproofing standards in Section 85.47. Subject to the requirements of Subsection (e), storage yards, surface parking lots and other such uses may be placed at lower elevations if an adequate warning system exists to protect life and property.
- (e) **Storage of Materials.** Materials that are buoyant, flammable, explosive, or injurious to property, water quality or human, animal, plant, fish or aquatic life shall be stored at or above the flood protection elevation or floodproofed in compliance with Section 85.47. Adequate measures shall be taken to ensure that such materials will not enter the water body during flooding.
- (f) **Public Utilities, Streets and Bridges.** All utilities, streets and bridges shall be designed to be compatible with comprehensive floodplain development plans and:
 - (1) When failure of public utilities, streets and bridges would endanger public health or safety, or where such facilities are deemed essential, construction or repair of such facilities shall only be permitted if they are floodproofed in compliance with Section 85.47.

- (2) Minor roads or nonessential utilities may be constructed at lower elevations if they are designed to withstand flood forces to the regional flood elevation.
- (g) **Sewage Systems.** All sewage disposal systems shall be designed to minimize or eliminate infiltration of flood water into the system, pursuant to Section 85.47(3), to the flood protection elevation and meet the provisions of all local ordinances and Ch. SPS 383, Wis. Adm. Code.
- (h) **Wells.** All wells shall be designed to minimize or eliminate infiltration of flood waters into the system, pursuant to Section 85.47(3), to the flood protection elevation and shall meet the provisions of Chs. NR 811 and NR 812, Wis. Adm. Code.
- (i) **Solid Waste Disposal Sites.** Disposal of solid or hazardous waste is prohibited in flood-fringe areas.
- (j) **Deposition of Materials.** Any deposited material must meet all the provisions of this chapter.
- (k) **Manufactured Homes.**
 - (1) Owners or operators of all manufactured home parks and subdivisions shall provide adequate surface drainage to minimize flood damage, and prepare, secure approval and file an evacuation plan, indicating vehicular access and escape routes, with local emergency management authorities.
 - (2) In existing manufactured home parks, all new homes, replacement homes on existing pads, and substantially improved homes shall:
 - a. have the lowest floor elevated to the flood protection elevation; and
 - b. be anchored so they do not float, collapse or move laterally during a flood
 - (3) Outside of existing manufactured home parks, including new manufactured home parks and all single units outside of existing parks, all new, replacement and substantially improved manufactured homes shall meet the residential development standards for the floodfringe in section (a).
- (l) **Mobile Recreational Vehicles.** All mobile recreational vehicles that are on site for 180 consecutive days or more or are not fully licensed and ready for highway use shall meet the elevation and anchoring requirements in Subsections (k)(2) and (3). A mobile recreational vehicle is ready for highway use if it is on its wheels or jacking system, is attached to the site only by quick-disconnect utilities and security devices and has no permanently attached additions.

SECTIONS 85.26 – 85.28

Reserved

General Floodplain District

SECTION 85.29 Applicability.

The provisions of this Chapter shall apply to all floodplains mapped as A, AO or AH zones.

SECTION 85.30 Permitted Uses.

Pursuant to Section 85.31, it shall be determined whether the proposed use is located within a floodway or flood-fringe. Those uses permitted in the Floodway or Floodfringe Districts are allowed within the General Floodplain District, according to the standards of section 85.31 provided that all permits or certificates required under section 85.43 have been issued.

SECTION 85.31 Standards for Development in the General Floodplain District

Sections 85.16-85.19 apply to floodway areas. Sections 85.23-85.25 apply to floodfringe areas. The rest of this ordinance applies to either district.

- (a) In AO/AH Zones, provide plans showing adequate drainage paths to guide floodwaters around structures and the structure's lowest floor must meet one of the conditions listed below whichever is higher:
1. at or above the flood protection elevation; or
 2. two (2) feet above the highest adjacent grade around the structure; or
 3. the depth as shown on the FIRM

SECTION 85.32 Determining Floodway and Flood-fringe Limits.

Upon receiving an application for development within the general floodplain district, the Zoning Administrator shall:

- (a) Require the applicant to submit two copies of an aerial photograph or a plan which shows the proposed development with respect to the general floodplain district limits, stream channel, and existing floodplain developments, along with a legal description of the property, fill limits and elevations, building floor elevations and floodproofing measures, and the flood zone as shown on the FIRM..
- (b) Require the applicant to furnish any of the following information deemed necessary by the Department to evaluate the effects of the proposal upon flood height and flood flows and regional flood elevation and to determine floodway boundaries:
- (1) A Hydrologic and Hydraulic Study as specified in section 85.43.
 - (2) Plan (surface view) showing elevations or contours of the ground; pertinent structure, fill or storage elevations; size, location and layout of all proposed and existing structures on the site; location and elevations of streets, water supply, and sanitary facilities; soil types; and other pertinent information.

- (3) Specifications for building construction and materials, floodproofing, filling, dredging, channel improvement, storage, water supply and sanitary facilities.

SECTIONS 85.33 – 85.35 Reserved

Nonconforming Uses

SECTION 85.36 Applicability; Conditions for Continued Use.

- (a) If these standards conform with Wis. Stats. Section 62.23 (7)(h), they shall apply to all modifications or additions to any nonconforming use or structure and to the use of any structure or premises which was lawful before the passage of this chapter or any amendment thereto.
- (b) The existing lawful use of a structure or its accessory use which is not in conformity with the provisions of this chapter may continue subject to the following conditions:
 - (1) No modifications or additions to a nonconforming use or structure shall be permitted unless they comply with this chapter. The words “modification” and “addition” include, but are not limited to, any alteration, addition, modification, structural repair, rebuilding or replacement of any such existing use, structure or accessory structure or use. Maintenance is not considered a modification; this includes painting, decorating, paneling and other nonstructural components and the maintenance, repair or replacement of existing private sewage or water supply systems or connections to public utilities. Any costs associated with the repair of a damaged structure are not considered maintenance. The construction of a deck that does not exceed 200 square feet and that is adjacent to the exterior wall of a principal structure is not an extension, modification or addition. The roof of the structure may extend over a portion of the deck in order to provide safe ingress or egress to the principal structure.
 - (2) If a nonconforming use or the use of a nonconforming structure is discontinued for 12 consecutive months, it is no longer permitted and any future use of the property, and any structure or building thereon, shall conform to the applicable requirements of this chapter.
 - (3) The Village shall keep a record which lists all nonconforming uses and nonconforming structures, their present equalized assessed value, the cost of all modifications or additions which have been permitted, and the percentage of the structure's total current value those modifications represent.
 - (4) No modification or addition to any nonconforming structure or any structure with a nonconforming use which over the life of the structure would equal or exceed 50% of its present equalized assessed value shall be allowed unless the entire structure is permanently changed to a conforming structure with a conforming use in compliance with the applicable requirements of this

chapter. Contiguous dry land access must be provided for residential and commercial uses in compliance with Section 85.25(a). The costs of elevating the lowest floor of a nonconforming building or a building with a nonconforming use to the flood protection elevation are excluded from the 50% provisions of this subsection.

- (5) No maintenance to any nonconforming structure or any structure with a nonconforming use, the cost of which would equal or exceed 50% of its present equalized assessed value, shall be allowed unless the entire structure is permanently changed to a conforming structure with a conforming use in compliance with the applicable requirements of this ordinance. Contiguous dry land access must be provided for residential and commercial uses in compliance with Section 85.25
- (6) If on a per event basis the total value of the work being done under (d) and (e) equals or exceeds 50% of the present equalized assessed value the work shall not be permitted unless the entire structure is permanently changed to a conforming structure with a conforming use in compliance with the applicable requirements of this ordinance. Contiguous dry land access must be provided for residential and commercial uses in compliance with Section 85.25
- (7) Except as provided in subd. (h), if any nonconforming structure or any structure with a nonconforming use is destroyed or is substantially damaged, it cannot be replaced, reconstructed or rebuilt unless the use and the structure meet the current ordinance requirements. A structure is considered substantially damaged if the total cost to restore the structure to its pre-damaged condition equals or exceeds 50% of the structure's present equalized assessed value.
- (8) For nonconforming buildings that are substantially damaged or destroyed by a nonflood disaster, the repair or reconstruction of any such nonconforming building shall be permitted in order to restore it to the size and use in effect prior to the damage event, provided that the minimum federal code requirements below are met and all required permits have been granted prior to the start of construction.
 - a. Residential Structures.
 1. Shall have the lowest floor, including basement, elevated to or above the base flood elevation using fill, pilings, columns, posts or perimeter walls. Perimeter walls must meet the requirements of Section 85.47.
 2. Shall be anchored to prevent flotation, collapse, or lateral movement of the structure resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy and shall be constructed with methods and materials resistant to flood damage.

3. Shall be constructed with electrical, heating, ventilation, plumbing and air conditioning equipment and other service facilities that are designed and/or elevated so as to prevent water from entering or accumulating within the components during conditions of flooding.
 4. In A Zones, obtain, review and utilize any flood data available from a federal, state or other source.
 5. In AO Zones with no elevations specified, shall have the lowest floor, including basement, meet the standards in Section 85.31.
 6. in AO Zones, shall have adequate drainage paths around structures on slopes to guide floodwaters around and away from the structure.
- b. Nonresidential Structures.
1. Shall meet the requirements of this section.
 2. Shall either have the lowest floor, including basement, elevated to or above the regional flood elevation; or, together with attendant utility and sanitary facilities, shall meet the standards in Section 85.47(a) or (b).
 3. In AO Zones with no elevations specified, shall have the lowest floor, including basement, meet the standards in Section 85.31.
- c. Historic Structures. A nonconforming historic structure may be altered if the alteration will not preclude the structure's continued designation as a historic structure, the alteration will comply with Section 85.18 flood resistant materials are used, and construction practices and floodproofing methods that comply with section 85.47 are used. Repair or rehabilitation of historic structures shall be exempt from the development standards of paragraph (8) of this section if it is determined that the proposed repair or rehabilitation will not preclude the structure's continued designation as a historic structure and is the minimum necessary to preserve the historic character and design of the structure.

SECTION 85.37 Floodway District.

- (a) No modification or addition shall be allowed to any nonconforming structure or any structure with a nonconforming use in a floodway district, unless such modification or addition:
 - (1) Has been granted a permit or variance which meets all requirements of this chapter.
 - (2) Meets the requirements of Section 85.36.
 - (3) Shall not increase the obstruction to flood flows or regional flood height.
- (b) Any addition to the existing structure shall be floodproofed, pursuant to Section 85.47, by means other than the use of fill, to the flood protection elevation.
- (c) If any part of the foundation below the flood protection elevation is enclosed, the following standards shall apply:
 - (1) The enclosed area shall be designed by a registered architect or engineer to allow for the efficient entry and exit of floodwaters without human intervention. A minimum of two openings must be provided with a minimum net area of at least one square inch for every one square foot of the enclosed area. The lowest part of the opening can be no more than 12 inches above the adjacent grade;
 - (2) The parts of the foundation located below the flood protection elevation must be constructed of flood-resistant materials;
 - (3) Mechanical and utility equipment must be elevated or floodproofed to or above the flood protection elevation; and
 - (4) The use must be limited to parking or limited storage.
- (d) No new on-site sewage disposal system, or addition to an existing on-site sewage disposal system, except where an addition has been ordered by a government agency to correct a hazard to public health, shall be allowed in a floodway district. Any replacement, repair or maintenance of an existing on-site sewage disposal system in a floodway area shall meet the applicable requirements of all Village ordinances and Ch. SPS 383, Wis. Adm. Code.
- (e) No new well or modification to an existing well used to obtain potable water shall be allowed in a floodway district. Any replacement, repair or maintenance of an existing well in a floodway district shall meet the applicable requirements of all Village ordinances and Chs. NR 811 and NR 812, Wis. Adm. Code.

SECTION 85.38 Floodfringe District.

- (a) No modification or addition shall be allowed to any nonconforming structure or any structure with a nonconforming use unless such modification or addition has been granted a permit or variance by the Village, and meets the requirements of Section 85.25, except where Subsection (b) is applicable.
- (b) Where compliance with the provisions of Subsection (a) would result in unnecessary hardship and only where the structure will not be used for human habitation or be

associated with a high flood damage potential, the Zoning Board of Appeals, using the procedures established in Section 85.45, may grant a variance from those provisions of Subsection (a) for modifications or additions, using the criteria listed below. Modifications or additions which are protected to elevations lower than the flood protection elevation may be permitted if:

- (1) No floor is allowed below the regional flood elevation for residential or commercial structures;
 - (2) Human lives are not endangered;
 - (3) Public facilities, such as water or sewer, will not be installed;
 - (4) Flood depths will not exceed two feet;
 - (5) Flood velocities will not exceed two feet per second; and
 - (6) The structure will not be used for storage of materials as described in Section 85.25(e).
- (c) All new private sewage disposal systems, or addition to, replacement, repair or maintenance of a private sewage disposal system, shall meet all the applicable provisions of all local ordinances and Ch. SPS 383, Wis. Adm. Code.
- (d) All new wells, or addition to, replacement, repair or maintenance of a well, shall meet the applicable provisions of this chapter and Chs. NR 811 and NR 812, Wis. Adm. Code.

SECTIONS 85.39 – 85.41 Reserved

Administration

SECTION 85.42 General Provisions.

The Village Zoning Administrator, Plan Commission and Zoning Board of Appeals shall administer this Chapter as set forth in this Chapter.

SECTION 85.43 Zoning Administrator; Permits and Certificates.

- (a) **Zoning Administrator.** The Zoning Administrator is authorized to administer this chapter and shall have the following duties and powers:
- (1) Advise applicants of the provisions of this chapter, assist in preparing permit applications and appeals, and assure that the regional flood elevation for the proposed development is shown on all permit applications.
 - (2) Issue permits and inspect properties for compliance with the provisions of this chapter and issue certificates of compliance where appropriate.
 - (3) Inspect all damaged floodplain structures and perform a substantial damage assessment to determine if substantial damage to the structures has occurred.
 - (4) Keep records of all official actions such as:
 - a. All permits issued, inspections made, and work approved;

- b. Documentation of certified lowest floor and regional flood elevations;
 - c. water surface profiles, floodplain zoning maps and ordinances, and nonconforming uses and structures, including changes, appeals, variances and amendments.
 - d. All substantial damage assessment reports for floodplain structures.
 - e. floodproofing certificates
 - f. list of nonconforming structures and uses.
- (5) Submit copies of the following items to the Department regional office:
- a. Within 10 days of the decision, a copy of any decisions on variances, appeals for map or text interpretations, and map or text amendments.
 - b. Copies of any case-by-case analyses and any other information required by the Department, including an annual summary of the number and types of floodplain zoning actions taken.
 - c. Copies of substantial damage assessments performed and all related correspondence concerning the assessments.
- (6) Investigate, prepare reports, and report violations of this chapter to the Plan Commission and Attorney for prosecution. Copies of the reports shall also be sent to the Department regional office.
- (7) Submit copies of text and map amendments and biennial reports to the FEMA regional office.
- (b) **Land Use Permit.** A land use permit shall be obtained before any new development or any structural repair or change in the use of a building or structure, including sewer and water facilities, may be initiated. The application to the Zoning Administrator shall include:
- (1) **General Information.**
 - a. Name and address of the applicant, property owner and contractor.
 - b. Legal description, proposed use, and whether it is new construction or a modification.
 - (2) **Site Development Plan.** A site plan drawn to scale shall be submitted with the permit application form and shall contain:
 - a. Location, dimensions, area and elevation of the lot;
 - b. Location of the ordinary high-water mark of any abutting navigable waterways;
 - c. Location of any structures with distances measured from the lot lines and street center lines;
 - d. Location of any existing or proposed on-site sewage systems or private water supply systems;
 - e. Location and elevation of existing or future access roads;
 - f. Location of floodplain and floodway limits as determined from the Official Floodplain Zoning Maps;
 - g. The elevation of the lowest floor of proposed buildings and any fill using the vertical datum from the adopted study, either National

- Geodetic Vertical Datum (NGVD) or North American Vertical Datum (NAVD);
- h. Data sufficient to determine the regional flood elevation in NGVD or NAVD at the location of the development and to determine whether or not the requirements regarding Floodway Districts and Flood Fringe Districts are met; and
 - i. Data to determine if the proposed development will cause an obstruction to flow or an increase in regional flood height or discharge according to Section 85.09. This may include any of the information noted in Section 85.18(a).
- (c) **Certificate of Compliance.** No land shall be occupied or used and no building which is hereafter constructed, altered, added to, modified, repaired, rebuilt or replaced shall be occupied until a certificate of compliance is issued by the Zoning Administrator, except where no permit is required, subject to the following provisions:
- (1) The certificate of compliance shall show that the building or premises or part thereof and the proposed use conform to the provisions of this chapter.
 - (2) Application for such certificate shall be concurrent with the application for a permit.
 - (3) If all provisions of this chapter are met, the certificate of compliance shall be issued within 10 days after written notification that the permitted work is completed.
 - (4) The applicant shall submit a certification signed by a registered professional engineer, architect or land surveyor that the fill, lowest floor and floodproofing elevations are in compliance with the permit issued. Floodproofing measures also require certification by a registered professional engineer or architect that floodproofing measures meet the requirements of Section 85.47.
- (d) **Other Permits.** The applicant must secure all necessary permits from federal, state, and local agencies, including those required by the U.S. Army Corps of Engineers under Section 404 of the Federal Water Pollution Control Act, Amendments of 1972, 33 U.S.C. Section 1344.
- (e) **Hydraulic and Hydrologic Studies to Analyze Development.** All hydraulic and hydrologic studies shall be completed under the direct supervision of a professional engineer registered in the State. The study contractor shall be responsible for the technical adequacy of the study. All studies shall be reviewed and approved by the Department.
- (1) Zone A floodplains:
 - a. Hydrology
 - i. The appropriate method shall be based on the standards in ch. NR 116.07(3), Wis. Admin. Code, *Hydrologic Analysis: Determination of Regional Flood Discharge*.

- b. Hydraulic modeling. The regional flood elevation shall be based on the standards in ch. NR 116.07(4), Wis. Admin. Code, *Hydraulic Analysis: Determination of Regional Flood Elevation* and the following:
- i. determination of the required limits of the hydraulic model shall be based on detailed study information for downstream structures (dam, bridge, culvert) to determine adequate starting WSEL for the study.
 - ii. channel sections must be surveyed.
 - iii. minimum four foot contour data in the overbanks shall be used for the development of cross section overbank and floodplain mapping.
 - iv. a maximum distance of 500 feet between cross sections is allowed in developed areas with additional intermediate cross sections required at transitions in channel bottom slope including a survey of the channel at each location.
 - v. the most current version of HEC_RAS shall be used.
 - vi. a survey of bridge and culvert openings and the top of road is required at each structure.
 - vii. additional cross sections are required at the downstream and upstream limits of the proposed development and any necessary intermediate locations based on the length of the reach if greater than 500 feet.
 - viii. standard accepted engineering practices shall be used when assigning parameters for the base model such as flow, Manning's N values, expansion and contraction coefficients or effective flow limits. The base model shall be calibrated to past flooding data such as high water marks to determine the reasonableness of the model results. If no historical data is available, adequate justification shall be provided for any parameters outside standard accepted engineering practices.
 - ix. the model must extend past the upstream limit of the difference in the existing and proposed flood profiles in order to provide a tie-in to existing studies. The height difference between the proposed flood profile and the existing study profiles shall be no more than 0.00 feet.
- c. Mapping. A work map of the reach studied shall be provided, showing all cross section locations, floodway/floodplain limits based on best available topographic data, geographic limits of the proposed development and whether the proposed development is located in the floodway.

- i. If the proposed development is located outside of the floodway, then it is determined to have no impact on the regional flood elevation.
 - ii. If any part of the proposed development is in the floodway, it must be added to the base model to show the difference between existing and proposed conditions. The study must ensure that all coefficients remain the same as in the existing model, unless adequate justification based on standard accepted engineering practices is provided.
- (2) Zone AE Floodplains.
 - a. Hydrology. If the proposed hydrology will change the existing study, the appropriate method to be used shall be based on ch. NR 116.07(3), Wis. Admin. Code, *Hydrologic Analysis: Determination of Regional Flood Discharge*.
 - b. Hydraulic model. The regional flood elevation shall be based on the standards in ch. NR 116.07(4), Wis. Admin. Code, *Hydraulic Analysis: Determination of Regional Flood Elevation* and the following:
 - i. Duplicate Effective Model. The effective model shall be reproduced to ensure correct transference of the model data and to allow integration of the revised data to provide a continuous FIS model upstream and downstream of the revised reach. If data from the effective model is available, models shall be generated that duplicate the FIS profiles and the elevations shown in the Floodway Data Table in the FIS report to within 0.1 foot.
 - ii. Corrected Effective Model. The Corrected Effective Model shall not include any man-made physical changes since the effective model date, but shall import the model into the most current version of HEC-RAS for Department review.
 - iii. Existing (Pre-Project Conditions) Model. The Existing Model shall be required to support conclusions about the actual impacts of the project associated with the Revised (Post-Project) Model or to establish more up-to-date models on which to base the Revised (Post-Project) Model.
 - iv. Revised (Post-Project Conditions) Model. The Revised (Post-Project Conditions) Model shall incorporate the Existing Model and any proposed changes to the topography caused by the proposed development. This model shall reflect proposed conditions.
 - v. All changes to the Duplicate Effective Model and subsequent models must be supported by certified topographic

SECTION 85.44 Plan Commission.

- (a) The Village Plan Commission shall:
 - (1) Oversee the functions of the office of the Zoning Administrator; and
 - (2) Review and advise the Village Board on all proposed amendments to this chapter, maps and text.
- (b) The Plan Commission shall not:
 - (1) Grant variances to the terms of this chapter in place of action by the Zoning Board of Appeals; or
 - (2) Amend the text or zoning maps in place of official action by the Village Board.

SECTION 85.45 Zoning Board of Appeals.

The Zoning Board of Appeals (the “Board”), created under Section 62.23(7)(e), Wis. Stats., for villages, is hereby authorized and is appointed to act for the purposes of this chapter. The Board shall exercise the powers conferred by Wisconsin Statutes and adopt rules for the conduct of business. The Zoning Administrator may not be the Secretary of the Board.

- (a) **Powers and Duties.** The Zoning Board of Appeals shall:
 - (1) **Appeals.** Hear and decide appeals where it is alleged there is an error in any order, requirement, decision or determination made by an administrative official in the enforcement or administration of this chapter.
 - (2) **Boundary Disputes.** Hear and decide disputes concerning the district boundaries shown on the Official Floodplain Zoning Map.
 - (3) **Variances.** Hear and decide, upon appeal, variances from the standards of this chapter.
- (b) **Appeals to the Board.**
 - (1) **Filing.** Appeals to the Board may be taken by any person aggrieved or by any officer or department of the municipality affected by any decision of the Zoning Administrator or other administrative officer. Such appeal shall be taken within 30 days, unless otherwise provided by the rules of the Board, by filing with the official whose decision is in question, and with the Board, a notice of appeal specifying the reasons for the appeal. The official whose decision is in question shall transmit to the Board all records regarding the matter appealed.
 - (2) **Notice and Hearing.**
 - a. **Notice.** The Board shall:
 - 1. Fix a reasonable time for the hearing.
 - 2. Publish adequate notice pursuant to Wisconsin Statutes, specifying the date, time, place and subject of the hearing.

3. Assure that notice shall be mailed to the parties in interest and the Department regional office at least 10 days in advance of the hearing.
- b. **Hearing.** Any party may appear in person or by agent. The Board shall:
 1. Resolve boundary disputes according to Subsection (c) .
 2. Decide variance applications according to Subsection (d).
 3. Decide appeals of permit denials according to Section 85.46.
- (3) **Decision.** The final decision regarding the appeal or variance application shall:
 - a. Be made within a reasonable time.
 - b. Be sent to the Department regional office within 10 days of the decision.
 - c. Be a written determination signed by the Chairperson of the Board.
 - d. State the specific facts which are the basis for the Board’s decision.
 - e. Either affirm, reverse, vary or modify the order, requirement, decision or determination appealed, in whole or in part, dismiss the appeal for lack of jurisdiction or grant or deny the variance application.
 - f. Include the reasons for granting an appeal, describing the hardship demonstrated by the applicant in the case of a variance, clearly stated in the recorded minutes of the Board proceedings.
- (c) **Boundary Disputes.** The following procedure shall be used by the Board in hearing disputes concerning floodplain district boundaries:
 - (1) If a floodplain district boundary is established by approximate or detailed floodplain studies, the flood elevations or profiles shall prevail in locating the boundary. If none exist, other evidence may be examined.
 - (2) In all cases, the person contesting the boundary location shall be given a reasonable opportunity to present arguments and technical evidence to the Board.
 - (3) If the boundary is incorrectly mapped, the Board should inform the Plan Commission or the person contesting the boundary location to petition the governing body for a map amendment according to Section 85.53.
- (d) **Variance.**
 - (1) The Board may, upon appeal, grant a variance from the standards of this chapter if an applicant convincingly demonstrates that:
 - a. Literal enforcement of the provisions of this chapter will cause unnecessary hardship;
 - b. The hardship is due to adoption of this chapter and unique property conditions not common to adjacent lots or premises; in such case the chapter or map must be amended;
 - c. The variance is not contrary to the public interest; and
 - d. The variance is consistent with the purpose of this chapter as set forth in Section 85.03.

- (2) In addition to the criteria in Subsection (d)(1), to qualify for a variance under FEMA regulations, the following criteria must be met:
 - a. The variance may not cause any increase in the regional flood elevation.
 - b. Variances can only be granted for lots that are less than 1/2 acre and are contiguous to existing structures constructed below the RFE.
 - c. Variances shall only be granted upon a showing of good and sufficient cause, shall be the minimum relief necessary, shall not cause increased risks to public safety or nuisances, shall not increase costs for rescue and relief efforts and shall not be contrary to the purpose of this chapter.
- (3) A variance shall not:
 - a. Grant, extend or increase any use prohibited in the zoning district.
 - b. Be granted for a hardship based solely on an economic gain or loss.
 - c. Be granted for a hardship which is self-created.
 - d. Damage the rights or property values of other persons in the area.
 - e. Allow actions without the amendments to this chapter or map(s) required in Sections 85.52 – 85.53.
 - f. Allow any alteration of an historic structure, including its use, which would preclude its continued designation as an historic structure.
- (4) When a floodplain variance is granted, the Board shall notify the applicant in writing that it may increase flood insurance premiums and risks to life and property. A copy shall be maintained with the variance record.

SECTION 85.46 To Review Appeals of Permit Denials.

- (a) The Board shall review all data related to the appeal. This may include:
 - (1) Permit application data listed in Section 85.43(b).
 - (2) Floodway/flood-fringe determination data in Section 85.31.
 - (3) Data listed in Section 85.18(a)(2) where the applicant has not submitted this information to the Zoning Administrator.
 - (4) Other data submitted with the application or submitted to the Board with the appeal.
- (b) For appeals of all denied permits the Board shall:
 - (1) Follow the procedures of Section 85.45;
 - (2) Consider Plan Commission recommendations; and
 - (3) Either uphold the denial or grant the appeal.
- (c) For appeals concerning increases in regional flood elevation the Board shall:
 - (1) Uphold the denial where the Board agrees with the data showing an increase in flood elevation. Increases may only be allowed after amending the flood profile and map and all appropriate legal arrangements are made with all adversely affected property owners as per the requirements of section 85.53.

- (2) Grant the appeal where the Board agrees that the data properly demonstrates that the project does not cause an increase, provided that no other reasons for denial exist.

SECTION 85.47 Floodproofing Standards for Nonconforming Structures or Uses.

- (a) No permit or variance shall be issued for a non-residential structure designed to be watertight below the regional flood elevation until the applicant submits a plan certified by a registered professional engineer or architect that the floodproofing measures will protect the structure or development to the flood protection elevation and submits a FEMA Floodproofing Certificate.
- (b) Floodproofing measures shall be designed, as appropriate, to:
 - (1) Withstand flood pressures, depths, velocities, uplift and impact forces and other regional flood factors;
 - (2) Protect structures to the flood protection elevation;
 - (3) Anchor structures to foundations to resist flotation and lateral movement; and
 - (4) Minimize or eliminate infiltration of flood waters
 - (5) Minimize or eliminate discharges into floodwaters..
- (c) For a structure designed to allow the entry of floodwaters, no permit or variance shall be issued until the applicant submits a plan either:
 - (1) certified by a registered professional engineer or architect, or.
 - (2) meets or exceeds the following standards:
 - a. a minimum of two openings having a total net net area of not less than one square inch for every square foot of enclosed area subject to flooding;
 - b. the bottom of all openings shall be no higher than one foot above grade; and
 - c. openings may be equipped with screens, louvers, valves, or other coverings or devices provided they permit the automatic entry and exit of floodwaters.

SECTION 85.48 Public Information

- (a) Place marks on structures to show the depth of inundation during the regional flood.
- (b) All maps, engineering data and regulations shall be available and widely distributed.
- (c) Real estate transfers should show what floodplain district any real property is in.

SECTIONS 85.49 – 85.51 Reserved

Amendments

SECTION 85.52 General.

Obstructions or increases may only be permitted if amendments are made to this ordinance, the official floodplain zoning maps, floodway lines and water surface profiles, in accordance with section 85.53.

- (a) In AE Zones with a mapped floodway, no obstructions or increases shall be permitted unless the applicant receives a Conditional Letter of Map Revision from FEMA and amendments are made to this ordinance, the official floodplain zoning maps, floodway lines and water surface profiles, in accordance with section 85.53. Any such alterations must be reviewed and approved by FEMA and the DNR.
- (b) In A Zones increases equal to or greater than 1.0 foot may only be permitted if the applicant receives a Conditional Letter of Map Revision from FEMA and amendments are made to this ordinance, the official floodplain maps, floodway lines, and water surface profiles, in accordance with section 85.53.
- (c) The governing body shall change or supplement the floodplain zoning district boundaries and this ordinance in the manner outlined in section 85.53 below. Actions which require an amendment to the ordinance and/ or submittal of a Letter of Map Change (LOMC) include, but are not limited to, the following:
 - (1) Any fill or floodway encroachment that obstructs flow causing any increase in the regional flood height;
 - (2) Any change to the floodplain boundaries and/or watercourse alterations on the FIRM;
 - (3) Any changes to any other officially adopted floodplain maps listed in 1.5 (2)(b);
 - (4) Any floodplain fill which raises the elevation of the filled area to a height at or above the flood protection elevation and is contiguous to land lying outside the floodplain;
 - (5) Correction of discrepancies between the water surface profiles and floodplain maps;
 - (6) Any upgrade to a floodplain zoning ordinance text required by s. NR 116.05, Wis. Adm. Code, or otherwise required by law, or for changes by the municipality; and
 - (7) All channel relocations and changes to the maps to alter floodway lines or to remove an area from the floodway or the floodfringe that is based on a base flood elevation from a FIRM requires prior approval by FEMA.

SECTION 85.53 Amendment Procedure.

Amendments to this chapter may be made upon petition of any interested party according to the provisions of Section 62.23, Wis. Stats. Such petitions shall include all necessary

data required by Sections 85.31 and 85.43(b). The Land Use Permit shall not be issued until a Letter of Map revision is issued by FEMA for the proposed changes.

- (a) The proposed amendment shall be referred to the Plan Commission for a public hearing and recommendation to the Village Board. The amendment and notice of public hearing shall be submitted to the Department regional office for review prior to the hearing. The amendment procedure shall comply with the provisions of Section 62.23, Wis. Stats.
- (b) No amendments shall become effective until reviewed and approved by the Department.
- (c) All persons petitioning for a map amendment that obstructs flow, causing any increase in the regional flood height shall obtain flooding easements or other appropriate legal arrangements from all adversely affected property owners and notify local units of government before the amendment can be approved by the governing body.

SECTIONS 85.54 – 85.56 Reserved

Enforcement and Penalties

SECTION 85.57 Violations and Penalties.

Any violation of the provisions of this chapter by any person shall be unlawful and shall be referred to the Village Attorney who shall expeditiously prosecute all such violators. A violator shall, upon conviction, forfeit to the municipality a penalty of not less than \$25 and not more than \$50, together with a taxable cost of such action. Each day of continued violation shall constitute a separate offense. Every violation of this chapter is a public nuisance and the creation may be enjoined and the maintenance may be abated by action at suit of the Village, the State of Wisconsin or any citizen thereof pursuant to Section 87.30, Wis. Stats.

SECTIONS 85.58 – 85.59 Reserved

Definitions and Word Usage

SECTION 85.60 Word Usage.

Unless specifically defined, words and phrases in this chapter shall have their common law meaning and shall be applied in accordance with their common usage. Words used in the present tense include the future, the singular number includes the plural, and the plural

number includes the singular. The word “may” is permissive; “shall” is mandatory and is not discretionary.

SECTION 85.61 Definitions.

- (a) **Accessory Structure or Use.** A facility, structure, building or use which is accessory or incidental to the principal use of a property, structure or building.
- (b) **A Zones.** Those areas shown on the Official Floodplain Zoning Map which would be inundated by the regional flood. These areas may be numbered or unnumbered A Zones. The A Zones may or may not be reflective of flood profiles, depending on the availability of data for a given area.
- (c) **AH Zone.** See “Area of Shallow Flooding”
- (d) **AO Zone.** See “Area of Shallow Flooding”
- (e) **Alteration.** An enhancement, upgrading or substantial change or modifications other than an addition or repair to a dwelling or to electrical, plumbing, heating, ventilating, air conditioning or other systems within a structure.
- (f) **Area of Shallow Flooding.** A designated AO, AH, AR/AO, AR/AH, or VO zone on a community’s Flood Insurance Rate Map (FIRM) with a 1 percent or greater annual chance of flooding to an average depth of 1 to 3 feet where a clearly defined channel does not exist, where the path of flooding is unpredictable, and where velocity flood may be evident. Such flooding is characterized by ponding or sheet flow
- (g) **Base Flood.** The flood having a one-percent chance of being equaled or exceeded in any given year, as published by FEMA as part of a FIS and depicted on a FIRM.
- (h) **Basement.** Any enclosed area of a building having its floor subgrade, i.e., below ground level, on all sides.
- (i) **Building.** See “Structure.”
- (j) **Bulkhead Line.** A geographic line along a reach of navigable water that has been adopted by a municipal ordinance and approved by the Department pursuant to Section 30.11, Wis. Stats., and which allows limited filling between this bulkhead line and the original ordinary high-water mark, except where such filling is prohibited by the floodway provisions of this chapter.
- (k) **Campground.** Any parcel of land which is designed, maintained, intended or used for the purpose of providing sites for nonpermanent overnight use by four or more camping units or which is advertised or represented as a camping area.
- (l) **Camping Unit.** Any portable device, no more than 400 square feet in area, used as a temporary shelter, including but not limited to a camping trailer, motor home, bus, van, pickup truck, tent or other mobile recreational vehicle.
- (m) **Certificate of Compliance.** A certification that the construction and the use of land or a building, the elevation of fill or the lowest floor of a structure is in compliance with all of the provisions of this chapter.
- (n) **Channel.** A natural or artificial watercourse with definite bed and banks to confine and conduct normal flow of water.

- (o) **Crawlways or Crawl Space.** An enclosed area below the first usable floor of a building, generally less than five feet in height, used for access to plumbing and electrical utilities.
- (p) **Deck.** An unenclosed exterior structure that has no roof or sides but has a permeable floor which allows the infiltration of precipitation.
- (q) **Department.** The Wisconsin Department of Natural Resources.
- (r) **Development.** Any artificial change to improved or unimproved real estate, including but not limited to the construction of buildings, structures or accessory structures; the construction of additions or alterations to buildings, structures or accessory structures; the repair of any damaged structure or the improvement or renovation of any structure, regardless of percentage of damage or improvement; the placement of buildings or structures; subdivision layout and site preparation; mining, dredging, filling, grading, paving, excavation or drilling operations; the storage, deposition or extraction of materials or equipment; and the installation, repair or removal of public or private sewage disposal systems or water supply facilities.
- (s) **DryLand Access.** A vehicular access route which is above the regional flood elevation and which connects land located in the floodplain to land outside the floodplain, such as a road with its surface above regional flood elevation and wide enough for wheeled rescue and relief vehicles.
- (t) **Encroachment.** Any fill, structure, equipment, building, use or development in the floodway.
- (u) **Federal Emergency Management Agency (FEMA).** The federal agency that administers the National Flood Insurance Program.
- (v) **Flood Insurance Rate Map (FIRM).** A map of a community on which the Federal Insurance Administration has delineated both the floodplain and the risk premium zones applicable to the community. This map can only be amended by FEMA.
- (w) **Flood or Flooding.** A general and temporary condition of partial or complete inundation of normally dry land areas caused by one of the following conditions:
- The overflow or rise of inland waters;
 - The rapid accumulation or runoff of surface waters from any source;
 - The inundation caused by waves or currents of water exceeding anticipated cyclical levels along the shore of Lake Michigan or Lake Superior; or
- The sudden increase caused by an unusually high water level in a natural body of water, accompanied by a severe storm, or by an unanticipated force of nature, such as a seiche, or by some similarly unusual event
- (x) **Flood Frequency.** The probability of a flood occurrence which is determined from statistical analyses. The frequency of a particular flood event is usually expressed as occurring, on the average, once in a specified number of years or as a percent chance of occurring in any given year.
- (y) **Floodfringe.** That portion of the floodplain outside of the floodway which is covered by floodwaters during the regional flood and associated with standing water rather than flowing water.

- (z) **Flood Hazard Boundary Map.** A map designating approximate flood hazard areas. Flood hazard areas are designated as unnumbered A Zones and do not contain floodway lines or regional flood elevations. This map forms the basis for both the regulatory and insurance aspects of the National Flood Insurance Program (NFIP) until superseded by a Flood Insurance Study and a Flood Insurance Rate Map.
- (aa) **Flood Insurance Study.** A technical engineering examination, evaluation, and determination of the local flood hazard areas. It provides maps designating those areas affected by the regional flood and provides both flood insurance rate zones and base flood elevations and may provide floodway lines. The flood hazard areas are designated as numbered and unnumbered A Zones. Flood Insurance Rate Maps that accompany the Flood Insurance Study form the basis for both the regulatory and the insurance aspects of the National Flood Insurance Program.
- (bb) **Floodplain.** Land which has been or may be covered by floodwater during the regional flood. It includes the floodway and the flood fringe and may include other designated floodplain areas for regulatory purposes.
- (cc) **Floodplain Island.** A natural geologic land formation within the floodplain that is surrounded, but not covered, by floodwater during the regional flood.
- (dd) **Floodplain Management.** Policy and procedures to ensure wise use of floodplains, including mapping and engineering, mitigation, education, and administration and enforcement of floodplain regulations.
- (ee) **Flood Profile.** A graph or a longitudinal profile line showing the relationship of the water surface elevation of a flood event to locations of land surface elevations along a stream or river.
- (ff) **Floodproofing.** Any combination of structural provisions, changes or adjustments to properties and structures, water and sanitary facilities and contents of buildings subject to flooding for the purpose of reducing or eliminating flood damage.
- (gg) **Flood Protection Elevation.** An elevation of two feet of freeboard above the water surface profile elevation designated for the regional flood. (Also see “freeboard.”)
- (hh) **Flood Storage.** Those floodplain areas where storage of floodwaters has been taken into account during analysis in reducing the regional flood discharge.
- (ii) **Floodway.** The channel of a river or stream and those portions of the floodplain adjoining the channel required to carry the regional flood discharge.
- (jj) **Freeboard.** A safety factor expressed in terms of a specified number of feet above a calculated flood level. “Freeboard” compensates for any factors that cause flood heights greater than those calculated, including ice jams, debris accumulation, wave action, obstruction of bridge openings and floodways, the effects of watershed urbanization, loss of flood storage areas due to development and aggregation of the river or stream bed.
- (kk) **Habitable Structure.** Any structure or portion thereof used or designed for human habitation.
- (ll) **Hearing Notice.** Publication or posting meeting the requirements of Ch. 985, Wis. Stats. For appeals, a Class 1 notice, published once at least one week (seven days) before the hearing, is required. For all zoning ordinances and amendments, a Class

- 2 notice, published twice, once each week consecutively, the last at least a week (seven days) before the hearing, is required. Local ordinances or bylaws may require additional notice, exceeding these minimums.
- (mm) **High Flood Damage Potential.** Damage that could result from flooding that includes any danger to life or health or any significant economic loss to a structure or building and its contents.
 - (nn) **Highest Adjacent Grade.** The highest natural elevation of the ground surface prior to construction next to the proposed walls of a structure.
 - (oo) **Historic Structure.** Any structure that is either:
 - (1) Listed individually in the National Register of Historic Places or preliminarily determined by the Secretary of the Interior as meeting the requirements for individual listing on the National Register;
 - (2) 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;
 - (3) 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
 - (4) Individually listed on a local inventory of historic places in communities with historic preservation programs that have been certified either by an approved state program, as determined by the Secretary of the Interior, or by the Secretary of the Interior in states without approved programs.
 - (pp) **Increase in Regional Flood Height.** A calculated upward rise in the regional flood elevation, equal to or greater than 0.00 foot, based on a comparison of existing conditions and proposed conditions, which is directly attributable to development in the floodplain but not attributable to manipulation of mathematical variables such as roughness factors, expansion and contraction coefficients and discharge.
 - (qq) **Land Use.** Any nonstructural use made of unimproved or improved real estate. (Also see “development.”)
 - (rr) **Lowest Adjacent Grade.** Elevation of the lowest ground surface that touches any of the exterior walls of a building.
 - (ss) **Lowest Floor.** The lowest floor of the lowest enclosed area (including basement). An unfinished or flood resistant enclosure, usable solely for parking of vehicles, building access or storage in an area other than a basement area is not considered a building’s lowest floor; provided that such enclosure is not built so as to render the structure in violation of the applicable non-elevation design requirements of 44 CFR 60.3.
 - (tt) **Maintenance.** The act or process of restoring to original soundness, including redecorating, refinishing, non structural repairs, or the replacement of existing fixtures, systems or equipment with equivalent fixtures, systems or structures
 - (uu) **Manufactured Home.** A structure, transportable in one or more sections, which is built on a permanent chassis and is designed to be used with or without a permanent

foundation when connected to required utilities. The term “manufactured home” includes a mobile home but does not include a mobile recreational vehicle.

- (vv) **Mobile Recreational Vehicle.** A vehicle which is built on a single chassis, 400 square feet or less when measured at the largest horizontal projection, designed to be self-propelled, carried or permanently towable by a licensed, light-duty vehicle, is licensed for highway use if registration is required and is designed primarily not for use as a permanent dwelling but as temporary living quarters for recreational, camping, travel or seasonal use. Manufactured homes that are towed or carried onto a parcel of land but do not remain capable of being towed or carried, including park model homes, do not fall within the definition of “mobile recreational vehicle.”
- (ww) **Mobile/Manufactured Home Park or Subdivision.** A parcel (or contiguous parcels) of land, divided into two or more manufactured home lots for rent or sale.
- (xx) **Mobile/Manufactured Home Park or Subdivision, Existing.** A parcel of land, divided into two or more manufactured home lots for rent or sale, on which the construction of facilities for servicing the lots is completed before the effective date of this ordinance. At a minimum, this would include the installation of utilities, the construction of streets and either final site grading or the pouring of concrete pads.
- (yy) **Mobile/Manufactured Home Park Expansion to Existing.** The preparation of additional sites by the construction of facilities for servicing the lots on which the manufactured homes are to be affixed. This includes installation of utilities, construction of streets and either final site grading, or the pouring of concrete pads.
- (zz) **Model, Corrected Effective.** A hydraulic engineering model that corrects any errors that occur in the Duplicate Effective Model, adds any additional cross sections to the Duplicate Effective Model, or incorporates more detailed topographic information than that used in the current effective model.
- (aaa) **Model, Duplicate Effective.** A copy of the hydraulic analysis used in the effective FIS and referred to as the effective model.
- (bbb) **Model, Effective.** The hydraulic engineering model that was used to produce the current effective Flood Insurance Study.
- (ccc) **Model, Existing (Pre-Project).** A modification of the Duplicate Effective Model or Corrected Effective Model to reflect any man made modifications that have occurred within the floodplain since the date of the effective model but prior to the construction of the project for which the revision is being requested. If no modification has occurred since the date of the effective model, then this model would be identical to the Corrected Effective Model or Duplicate Effective Model.
- (ddd) **Model, Revised (Post Project).** A modification of the Existing or Pre-Project Conditions Model, Duplicate Effective Model or Corrected Effective Model to reflect revised or post-project conditions.
- (eee) **Municipality or Municipal.** The Village governmental unit enacting, administering and enforcing this chapter
- (fff) **NAVD or North American Vertical Datum.** Elevations referenced to mean sea level datum, 1988 adjustment.

- (ggg) **New Construction.** For floodplain management purposes, “new construction” means structures for which the start of construction commenced on or after the effective date of floodplain zoning regulations adopted by this community and includes any subsequent improvements to such structures. For the purpose of determining flood insurance rates, it includes any structures for which the start of construction commenced on or after the effective date of an initial FIRM or after December 31, 1974, whichever is later, and includes any subsequent improvements to such structures.
- (hhh) **NGVD or National Geodetic Vertical Datum.** Elevations referenced to mean sea level datum, 1929 adjustment.
- (iii) **Nonconforming Structure.** An existing lawful structure or building which is not in conformity with the dimensional or structural requirements of this chapter for the area of the floodplain which it occupies. (For example, an existing residential structure in the flood-fringe district is a conforming use. However, if the lowest floor is lower than the flood protection elevation, the structure is nonconforming.)
- (jjj) **Nonconforming Use.** An existing lawful use or accessory use of a structure or building which is not in conformity with the provisions of this chapter for the area of the floodplain which it occupies (such as a residence in the floodway).
- (kkk) **Obstruction to Flow.** Any development which blocks the conveyance of floodwaters such that this development alone or together with any future development will cause an increase in regional flood height.
- (lll) **Official Floodplain Zoning Map.** That map, adopted and made part of this chapter, as described in Section 85.05(b), which has been approved by the Department and FEMA.
- (mmm) **Open Space Use.** Those uses having a relatively low flood damage potential and not involving structures.
- (nnn) **Ordinary High-Water Mark.** The point on the bank or shore up to which the presence and action of surface water are so continuous as to leave a distinctive mark such as by erosion, destruction or prevention of terrestrial vegetation, predominance of aquatic vegetation, or other easily recognized characteristic.
- (ooo) **Person.** An individual, or group of individuals, corporation, partnership, association, municipality or state agency.
- (ppp) **Private Sewage System.** A sewage treatment and disposal system serving one structure with a septic tank and soil absorption field located on the same parcel as the structure. It also means an alternative sewage system approved by the Department of Commerce, including a substitute for the septic tank or soil absorption field, a holding tank, a system serving more than one structure or a system located on a different parcel than the structure.
- (qqq) **Public Utilities.** Those utilities using underground or overhead transmission lines, such as electric, telephone and telegraph, and distribution and collection systems, such as water, sanitary sewer and storm sewer.
- (rrr) **Reasonably Safe From Flooding.** Base flood waters will not inundate the land or damage structures to be removed from the special flood hazard area and any

subsurface waters related to the base flood will not damage existing or proposed buildings.

- (sss) **Regional Flood.** A flood determined to be representative of large floods known to have occurred in Wisconsin. A regional flood is a flood with a one-percent chance of being equaled or exceeded in any given year, and, if depicted on the FIRM, the RFE is equivalent to the BFE.
- (ttt) **Start of Construction.** The date the building permit was issued, provided that the actual start of construction, repair, reconstruction, rehabilitation, addition, placement, or other improvement was within 180 days of the permit date. The actual start means either the first placement of permanent construction on a site, such as the pouring of slab or footings, the installation of piles, the construction of columns, or any work beyond initial excavation, or the placement of a manufactured home on a foundation. Permanent construction does not include land preparation, such as clearing, grading and filling, nor does it include the installation of streets and/or walkways, nor does it include excavation for a basement, footings, piers or foundations or the erection of temporary forms, nor does it include the installation on the property of accessory buildings, such as garages or sheds not occupied as dwelling units or not part of the main structure. For an alteration, 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 dimensions of the building.
- (uuu) **Structure.** Any man-made object with form, shape and utility either permanently or temporarily attached to, placed upon or set into the ground, streambed or lake bed, including but not limited to roofed and walled buildings, gas or liquid storage tanks, bridges, dams and culverts.
- (vvv) **Subdivision.** Has the meaning given in Section 236.02(12), Wis. Stats.
- (www) **Substantial Damage.** Damage of any origin sustained by a structure, whereby the cost of restoring the structure to its predamaged condition would equal or exceed 50% of the equalized assessed value of the structure before the damage occurred.
- (xxx) **Substantial Improvement.** Any repair, reconstruction, rehabilitation, addition or improvement of a building or structure, the cost of which equals or exceeds 50 percent of the equalized assessed value of the structure before the improvement or repair is started. If the structure has sustained substantial damage, any repairs are considered substantial improvement regardless of the work performed. The term does not, however, include either any project for the improvement of a building required to correct existing health, sanitary or safety code violations identified by the building official and that are the minimum necessary to assure safe living conditions; or any alteration of a historic structure provided that the alteration will not preclude the structure's continued designation as a historic structure.
- (yyy) **Unnecessary Hardship.** Where special conditions affecting a particular property, which were not self-created, have made strict conformity with restrictions governing areas, setbacks, frontage, height or density unnecessarily burdensome or unreasonable in light of the purposes of this chapter.

- (zzz) **Variance.** An authorization by the Zoning Board of Appeals for the construction or maintenance of a building or structure in a manner which is inconsistent with dimensional standards (not uses) contained in this chapter.
- (aaaa) **Violation.** The failure of a structure or other development to be fully compliant with this chapter. A structure or other development without required permits, lowest floor elevation documentation, floodproofing certificates or required floodway encroachment calculations is presumed to be in violation until such time as that documentation is provided.
- (bbbb) **Watershed.** The entire region contributing runoff or surface water to a watercourse or body of water.
- (ccc) **Water Surface Profile.** A graphical representation showing the elevation of the water surface of a watercourse for each position along a reach of river or stream at a certain flood flow. A water surface profile of the regional flood is used in regulating floodplain areas.
- (dddd) **Well.** An excavation opening in the ground made by digging, boring, drilling, driving or other methods to obtain groundwater, regardless of its intended use.