

6115.1340 DESIGN CRITERIA.

Subpart 1. **Dike setbacks and elevation.** Dikes are to be constructed at a location and elevation so as not to cause an increase in elevation of the 100-year frequency flood of more than one-half foot at any point along the river. Calculation of the effects of the dikes shall be based on an assumed equal degree of encroachment along the opposite side of the river. If mutual agreement has been reached between persons on both sides of the river, dikes on one side may utilize up to the entire increase in flood elevation allowable. In all instances the applicants maintain the liability for damages resulting from any and all activities.

Subp. 2. **Dike dimensions.** Dike top width shall not be less than six feet. Side slopes shall not be steeper than 3:1, except where slope stability analysis and slope erosion control can justify steeper slopes. No organic soil or material shall be allowed in the foundation of the fill of dikes.

Subp. 3. **Vegetative cover and riprap.** A protective cover of grasses shall be established on all exposed surfaces of the dike. Riprap shall be used where required for control of erosion.

Subp. 4. **Interior drainage.** Dikes shall have provisions for interior drainage. The design shall include plans to handle the discharge from the drainage area based on drainage design requirements for the local area.

Statutory Authority: *MS s 103G.105; 103G.315; 105.415; 105.49; 471.59*

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