

500.7 - Water Facilities: A central water system shall be required in subdivisions of 15 or more lots in Suburban Residential, Low Density Residential and Planned Unit Developments and the following information shall be required:

1. Domestic Use

- a. Written authorization from a local water supplier that adequate water is available to serve the proposed subdivision.
- b. Water supply systems providing domestic water shall be submitted to the South Dakota Department of Environment and Natural Resources for review and approval.
- c. All water supply improvements must be shown on the construction plans. All water supply systems shall be designed by a South Dakota Registered Professional Engineer.
- d. Design calculation reports shall be submitted with construction plans.
- e. Under Layout, Preliminary, and Final Plat: a Master Plan is required for unplatted balances to prevent piecemeal water system development.
- f. A water system serving 14 or fewer lots may also be subject to State and/or Federal regulations.

- 2. Fire Protection:** For purposes of initial attack and fire control the following are the minimum water supply requirements:
- a. One and two family dwellings. The required fire flow for one and two family dwellings shall be 1,000 gallons per minute for a minimum duration of 30 minutes.
 - b. Buildings other than one and two family dwellings. The fire flow required for a building other than one and two family dwellings shall be approved by the County Fire Administrator but shall not be less than 1,500 gallons per minute for a minimum duration of two (2) hours.
 - c. The developer will provide the engineers design calculations of the fire flow for each fire hydrant in the subdivision for review and approval. These calculations will be based on the storage tank at 50% and 100% of capacity.
 - d. All water storage tanks, either above or below grade, fire hydrants and related infrastructure shall be installed and operational prior to building permits being issued.
 - e. All water capacities for fire protection shall be above and beyond the anticipated domestic and landscape water consumption.
 - f. All fire hydrants shall be designed and installed in accordance with the City of Rapid City specifications. The location of fire hydrants shall be approved by the County Fire Coordinator. No property shall be more than 750 feet from the nearest fire hydrant without prior approval from the Pennington County Fire Coordinator.
 - g. The fire flow requirement will be reduced by 50 percent if all structures referenced in Section 500.7-2-a and 500.7-2-b have an operational fire sprinkler system, per NFPA Standards.
 - h. A surety shall be provided in sufficient amount to cover the costs of all required improvements per 400.3-o-2.

500.8 - Fire Mitigation Plan: For any subdivision consisting of more than seven (7) lots that is deemed to be in a moderate, high, or extreme fire hazard area. A Fire Mitigation Plan shall be developed and presented to the County Fire Administrator for review and approval prior to approval of the Preliminary Plat.

A Fire Mitigation Plan shall describe action that will be taken to prevent a fire from being carried toward or through a subdivision. A Fire Mitigation Plan should include the following information:

- a. Copy of the subdivision site plan.
- b. Methods and timetables for controlling, changing, or modifying areas on the property. Elements of the plans shall include removal of slash, snags, vegetation that may grow into overhead electrical lines, other ground fuels, ladder fuels, dead trees, and the thinning of live trees.
- c. A plan for maintaining the proposed fuel reduction measure. To be considered a fuel modification plan for purposes of this ordinance, continuous maintenance of the clearance is required.
- d. Type of general building construction materials being used for roof covering, exterior walls, and decks.
- e. Copy of Homeowner's Association requirements or covenants for the subdivision where applicable.