

East Manatee Fire: Rural Water Supply

- A. In all developments, the adequacy of fire protection services, water capacity, hydrant locations, fire lanes, and maneuvering areas shall be subject to the approval of the Fire Marshal with the requirements set forth herein determined as minimum provisions.
- B. All dry hydrants shall be installed in accordance with the requirements of NFPA 1142 Standard on Water Supplies for Suburban on Rural Water Firefighting.
- C. A Permit shall be applied for through East Manatee Fire Rescue in accordance with NFPA 1142 Chapter 8. The permit shall include the site plan (or survey) with the location and size of the lake/pond along with the material specification used.
- D. Dry hydrants shall be installed in all new developments which meet any of the following criteria:
 - 1. All developments which cannot have the water distribution system extended.
 - 2. All developments which require the submission of a preliminary site plan as set forth in the Manatee County Land Development Code.
 - 3. Any property with three (3) or more commercial or residential buildings as determined by the A.H.J (Authority Having Jurisdiction).
 - 4. When, in the opinion of the A.H.J., access to or distance from other dry hydrants would hamper or impair firefighting operations.
- E. Except as specifically accepted, required dry hydrants shall be no more than eight hundred (800') feet apart and within four hundred (400') feet of the main entrance of all principal buildings in the development as measured from normal access routes. All hydrants shall be in addition to any internal sprinkler or standpipe system serving the development. Except for hydrants located within public street rights-of-way, all hydrants shall be located at least forty (40') feet from any building, except one-story single-family residential buildings. Paved or stabilized access shall be required to within 8 feet of all dry hydrants.
- F. Approved Dry Hydrant: An approved dry hydrant shall mean a connection to an approved rural static water supply. Dry hydrants shall meet the construction requirements of NFPA 1142 and shall meet the performance standards established therein. In addition, exposed piping shall be made of iron and painted red. Dry hydrant connections shall have one (1) 4 1/2-inch male hose connections. All hydrant installations shall be approved by East Manatee Fire Rescue as pertains to the availability of water capacity, volume, and reliability of water service.
- G. Rural Water Supplies: Those rural static water supplies approved to supply a dry hydrant system are as follows:
 - 1. Natural or man-made lakes or ponds at least a 1/2 acre in size and at least 12 feet deep. Side slope shall allow dry hydrants to accept water from a depth of two feet from the bottom yet within 100 horizontal feet from that end to the fire department connection. Such supplies shall be engineered and certified to withstand a 50-year drought. A written water use agreement shall be entered with East Manatee Fire Rescue for use of such supply both on and off the premises.
 - 2. Cisterns or ground storage vessels with a capacity as determined by NFPA 1142 but not less than

3,000 gallons. Such vessels shall have the capability to be refilled or topped off automatically at a rate of not less than 50 gallons per minute from a reliable water supply. Dry hydrants shall be painted orange and the capacity of the tank stenciled on the barrel in black to indicate a limited water supply. A written water use agreement shall be entered with EMFR for use of such supply both on and off the premises.

H. Other Water Supplies: Those water supplies approved for use with a fire protection system and standard fire hydrants are as follows.

1. Pressure tanks with a capacity as determined by NFPA 1142 but not less than 3,000 gallons. Such vessels shall have the capability to be refilled or topped off automatically at a rate of not less than 100 gallons per minute from a reliable water supply. Such tanks shall have an approved air compressor system that shall maintain the required air pressure to ensure maximum use of water from the tank. In addition, a standard fire hydrant shall be placed on the system to allow external use of the system. Such hydrants shall be painted orange and the capacity of the tank stenciled on the barrel in black to indicate a limited water supply. A written water use agreement shall be entered with EMFR for use of such supply both on and off the premises.
2. Elevated gravity tanks with a capacity as determined by NFPA 1142 but not less than 3000 gallons. Such vessels shall have the capability to be refilled or topped off automatically at a rate of not less than 100 gallons per minute from a reliable water supply. In addition, a standard fire hydrant shall be placed on the system to allow external use of the system. Such hydrants shall be painted orange and the capacity of the tank stenciled on the barrel in black to indicate a limited water supply. A written water use agreement shall be entered with East Manatee Fire Rescue for use of such supply both on and off the premises.

I. Existing buildings that are occupied at the time of adoption of the code may be continued in use without additional fire protection water supply provided:

1. The occupancy classification remains the same, and
2. No serious life safety hazard exists that would constitute an imminent threat.
3. Only those requirements whose application would be impractical in the judgment of the authority having jurisdiction shall be modified.