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Fire Prevention Standard

Title: Temporary Fire Department Access and Water Supply During Construction			
Standard: # 06-06	Effective Date: 01-01-2007	Revised Date: 06-30-2011	
Code References: 2010 California Fire Code, Chapter 14; Chapter 5 Sec. 507			
Note: <i>This guideline is a summary of Fire Department clarifications of County and State Codes. Information contained herein applies to typical circumstances and may not address all situations.</i>			
Author: Committee	Date:	Approved: T. Hobday, FM	Date:
Sign:	10-01-07	Sign: On File	01-01-07

Scope

This standard has been developed to assist development applicants, architects, and contractors in determining the minimum requirements for providing temporary fire department access and permanent water supply during construction.

Codes and Standards

This standard has been based upon the 2010 California Fire (CFC), Chapter 14 – Fire Safety During Construction, Chapter 5 – Fire Service Feature and Riverside County Ordinance 787.

1410/503 Required Access. Approved vehicle access for firefighting shall be provided to all construction or demolition sites. Fire department access roads shall be established and maintained in accordance with Chapter 5 -Section 503.

1412.1 Water Supply. Water mains and hydrants shall be installed and operational in accordance with Section 1412, Chapter 5 - Section 507 and County Ordinance 787.

Plans Required

Detailed plans shall be submitted to the Riverside County Fire Department Fire Protection Planning Section (RCFD FPPS) for review and approval prior to construction in accordance with Appendix Chapter 1, Sec. 105.4. A copy of RCFD FPPS stamped approved plans shall be available at the time inspection. Two copies of the site plan drawn to scale shall be submitted for review and approval with the following information:

- 1) Project number
- 2) Project address
- 3) City
- 4) Hydrant locations
- 5) Appropriate details of all materials and equipment
- 6) Roadway locations
- 7) Letter or statement on plans, wet stamped and signed by a registered engineer for roadway design

Specific Requirements

Temporary access roadways:

- 1) Fire access roadways shall be engineered

- 2) Roadway shall be an all-weather surface
- 3) Roadways shall facilitate the weight of 60,000 lbs over 2 axles
- 4) Turning radius shall be a minimum of 45 feet
- 5) Gradient shall be no greater than a 15% up or down grade
- 6) Vertical clearance shall be 15 feet
- 7) Horizontal width shall be 24 feet
- 8) Dead-end access roadways in excess of 150 feet shall be provided with an approved turn around or hammerheads

Permanent water for fire protection:

- 1) Hydrant(s) located within 400 or 600 feet of all exterior portions of the structure(s) as measured along vehicular access.
- 2) Standard Hydrant (6"x4"x2½") shall be required with a minimum fire flow of:
 - a) 1000 GPM @ 20 psi for Group R3 and U occupancies
 - b) 1500 GPM @ 20 psi for all other occupancy classifications
- 3) The size of Fire Main pipes shall be a minimum of 6" in diameter. Hydraulic calculations, along with flow test information, shall be provided to determine the actual pipe size required to provide the minimum required fire flow with a maximum velocity not to exceed 20 feet per second.
- 4) The required water system, including all fire hydrants, shall be installed and accepted by the appropriate local water purveyor and the RCFD FPPS prior to any combustible material is placed on the site.
- 5) The water system shall be for fire department use only.