



# Flood Control District

## of Maricopa County

**Date:** August 31, 2015

### MEMORANDUM FOR THE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY'S OPERATIONS AND MAINTENANCE ACCESS ROAD REQUIREMENTS

The Operations and Maintenance Division (O&M) of the Flood Control District (District) of Maricopa County is responsible for maintaining the District's real property and structures located thereon. In order to accomplish this task, it is essential that the District has sufficient access to the structures for maintenance and repairs vehicles and equipment. This memorandum is being published to establish those standards for new and existing structures. For structures sponsored by federal agencies (i.e. COE, NRCS), the sponsoring agency's standards may take precedence over these standards.

#### **Definitions:**

**Drivable width:** The clear distance between obstructions (e.g. the distance from the inside of a safety rail to inside of a light pole, etc.)

**Vertical Clearance:** The vertical clear distance from the top surface of the access road across the entire Drivable Width to the bottom of any overhanging obstruction.

#### **For modifications to existing structures:**

- Maintain the drivable width of the existing structure or at least 16 feet whichever is less.
- Maintain a minimum allowable drivable width of 12 feet around obstructions that cannot be relocated.
- Minimum vertical clearance is 13-feet 6-inches.
- Maximum cross slope of 2%
- Existing drivable surfaces shall be maintained or improved, if damaged.
- Provide drainage as necessary to protect structures and maintain access.

#### **For New Structures:**

- Unless otherwise mandated by a sponsoring agency, provide 16 feet of drivable width.
- Minimum surface treatment will be 12-feet with 6-inches of aggregate base with 2-foot shoulders of compacted dirt.
- Minimum vertical clearance of 13-feet 6-inches.
- Maximum cross slope of 2%

**Gates and Fencing:**

- Install District standard gates as needed to prevent public access and provide District access to structures.
- Gates should be located at 65-feet from the public access road to allow a tractor-trailer to pull completely off the road without having to stop to open the gate.

**Drainage:**

- Drainage should be designed to allow access along the road during a 100-year storm event.

**Ramps:**

- Ramps shall have a maximum slope of 10%
- The Drivable Width on a ramp is 12-feet.

**Land Rights:**

- As needed, permanent land rights shall be provided to meet these requirements.

**Turning Radii:**

- The minimum turning radii for new and modified structures is 33-feet inside radius and 55-feet outside radius so that large equipment and transports can safely make the turns.

**Driveway Access:**

- Access off a paved street will either be over a thickened asphalt edge MAG Standard Detail 201 Type A or Ribbon Curb MAG Standard Detail 220-1 Type B unless a standard Driveway is provided. Standard Driveways may use MAG Standard Detail 250-1 or 250-2 or any Standard Driveway detail approved by the City or Town with jurisdiction in the project area.
- Minimum access width for driveways is 24 feet to allow for large vehicle turning radii.