



# FIRE DISTRICT CONSTRUCTION PERMIT INFORMATION

## FIRE ACCESS GATES & BARRIERS

### APPLICATION TYPE: Construction – Fire Access Gate/Barriers

### WHEN A PERMIT AND REVIEW IS REQUIRED

A permit/review shall be required when a gate or other barrier is installed across a required fire department access road or driveway, new or established development.

### ADDITIONAL REVIEW OR PERMITS

The applicant shall be responsible for contacting the city or county to complete all additional requirements.

### FEE

A fee of \$100.00 plus \$50.00 per gate or barrier is due at the time of application. The fee will cover the review, permit, and inspection. Additional inspection fees may apply.

A fee of \$150.00 will be added to all applications that have started work without a permit. In addition, a stop work order may apply until the permit is issued.

### APPLICATION ACCEPTANCE

The following is a list of essential requirements for plans submitted for permit approval. It is not intended to be considered a complete list of all applicable code requirements or to relieve the applicant from compliance with any code requirements.

- All sections of the application shall be correctly filled out.
- The applicant shall ensure the design specifications and plans are complete and in compliance with the requirements of the International Fire Code, NFPA, and all additional applicable standards.

### INSTRUCTIONS

- Complete the Project Information section and check the appropriate boxes. The plan review staff member will verify that all required information is included.
- The checklist is only complete if all information is filled out and all appropriate boxes are checked.

### NOTICE

Any overlooked hazardous condition or violation of the International Building or Fire Code does not imply approval of such state or violation.

### SUBMITTAL CHECKLIST

Project Name: \_\_\_\_\_

Project Location: \_\_\_\_\_

### REQUIRED DOCUMENTS (Upload via portal)

- Application
- Site plan
- Written Description of Gate or Barriers to include:
  - Emergency vehicle and pedestrian gate operation
  - Manual back-up operation
  - Gate and/or fence construction materials



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### SCOPE AND PURPOSE

AHJ: Middleton Rural Fire District and Star Fire Protection District

Code: International Fire Code 2018

Required Fire Department Access roads and fire lanes shall always be maintained unobstructed and in good condition for vehicular usage. The Fire Department may allow closure by approved gates that comply with the standards outlined within the document.

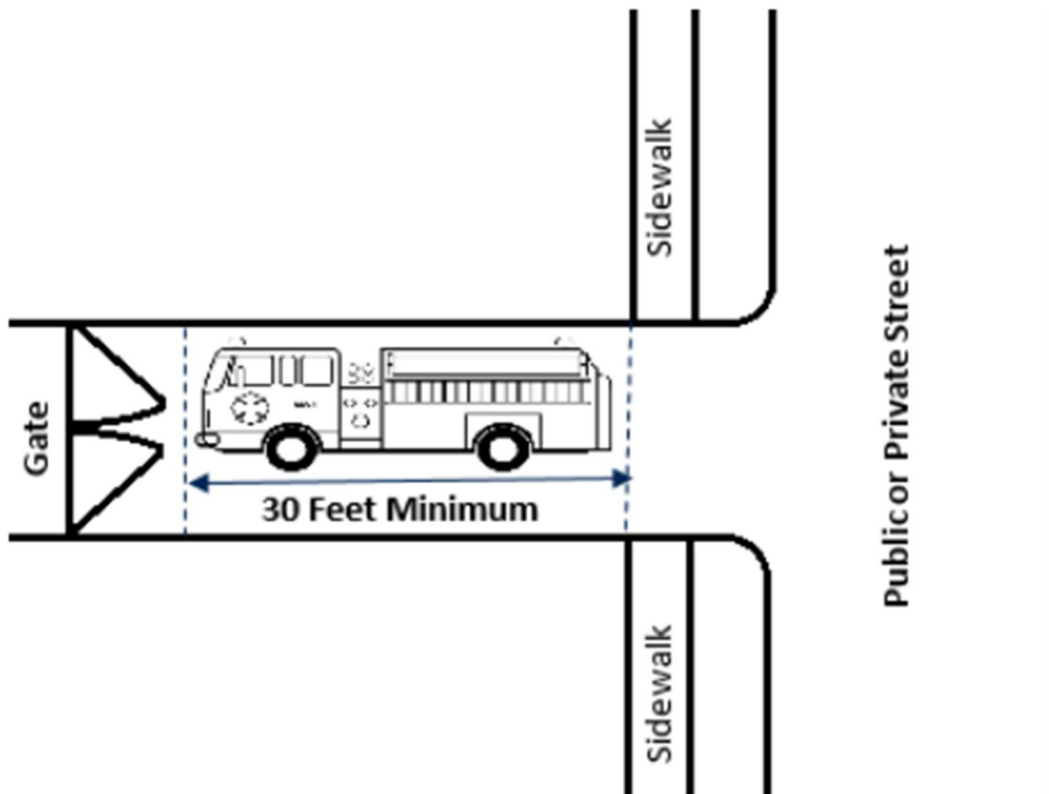
A gate or other barrier may only be installed across a required fire department access road or driveway after first submitting for a permit and being approved by the Fire Code Official and the City or County where the property is located.

### WIDTH

Gate width shall be a minimum of 20 feet unobstructed. When open, gates shall not obstruct any portion of the required driveway or access road width.

### GATE SET BACK (STACKING LANE)

Entry gates shall be set back from the nearest curb line of any public or private street to provide a minimum of 30 feet from the face of the curb or back of the sidewalk when there is a sidewalk so as not to obstruct vehicular or pedestrian traffic. In cases where the gate swings toward the staged fire apparatus, the additional distance shall be accounted for, and the setback increased.





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### ELECTRONICALLY OPERATED GATES

#### **Key Switch (KnoxBox® Key Switch eCore Series)**

All gates electronically controlled shall have an approved fire department override key switch (KnoxBox® KLS-350 and KLS-3502). Activation of an approved key switch for an electronically controlled gate shall open gate/gates to the fully open position within 10 seconds and remain in the open position until reset by fire department personnel. Contact the Fire Code Official before ordering.

#### **APPROVED**



Single Gate & Key Switch with cover



Single Gate & Key Switch on Mounting Plate

#### **PROHIBITED**



#### **Automatic Traffic Control – Activating Strobe Light Sensor**

In addition to the Key Switch (KnoxBox®), gates accessing more than three residences or residential lots, or gates accessing hazardous, institutional, educational, multi-family, assembly occupancy group structures, or by order of the Fire Code Official, shall be equipped with an approved automatic traffic control - activating strobe light sensor capable of detecting emergency vehicle Opticom IR emitter as the vehicle approaching (exterior), overriding all commands and opening the gate(s).



An example of the above criteria that the fire districts have tested is the Fire Strobe 2000. For more information, visit <https://www.firestrobe.com>

#### **Fail-Safe Operation Requirements**

In the event of a power failure, including battery back-up, the gate(s) shall automatically open, be spring tension or other non-electrical method, or the gate must be capable of being pushed open without additional steps having to be performed.

### MANUALLY (NON-AUTOMATIC) OPERATED GATES

All manually operated gates shall be designed to remain in the open position when left unattended. Manual locking mechanisms, such as padlocks, shall be Knox brand only.

Manual gates are subject to the same opening width and plan approval process as automatic gates. Manual gates shall be provided with an approved method for emergency access. Approved methods shall consist of one of the following:

- High-security padlock (Knox Brand) Keyed to the Fire Department emergency access keyway, or (Daisy Chain of locks is permitted)
- Installation of a Knox rapid access key box containing the gate key.
  - If a key is used, it shall be installed on a gate support pillar or post adjacent to the gate. The box must be visible to anyone approaching the gate at all times.





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### GATE SIGNAGE



An approved "No Parking Fire Lane" signage shall be installed to prevent the obstruction of the gate. Signs to be posted on both sides of the gate.

**FIRE LANE**



### BOLLARDS

When used to limit access to a fire department access roadway or designated fire lane, Bollards shall comply with the following.



Bollards shall be Maxiforce Wrench Operated Bollards. <https://maxiforcebollards.com/>

Bollards shall be Safety Yellow in color with Five Rows High Intensity Prismatic 1-inch-wide reflective tape (Red, White, Red, White, Red)

For traffic regulation and compliance with the Americans with Disabilities Act (ADA), it is recommended to space bollards no less than 3 feet apart. This ensures accessibility while maintaining safety. To effectively block the minimum width of a vehicle, spacing bollards no more than 5 feet apart is recommended.

### BOLLARD SIGNAGE

An approved "No Parking Fire Lane Authorized Vehicles Only" signage shall be installed to prevent the obstruction of the bollards and unauthorized access



### MAINTENANCE

The gate opening system shall be maintained in approved operating conditions as delineated below:

- The mechanical components shall be serviced regularly and maintained in an approved operating condition.
- The electrical components shall be maintained in an approved operating condition.
- A power supply shall be continuously maintained to electronic components.
- All components of the gate operating system, including Knox Switches, Automatic Traffic Control, signage, and other gate devices, shall be provided, installed, and maintained by the property owner.

