



ACCESS CONTROLLED GATE SYSTEM SUBMITTAL REQUIREMENTS

These guidelines are to be followed when a business, facility or organization proposes to install or modify emergency access-controlled gate system within the Lake Cities Fire Department Jurisdiction. This document shall assist in the preparation of a submittal for permit. These guidelines are not to be interpreted as containing all data required for proper design, installation, or approval.

All emergency access-controlled gate systems for the purposes of this guideline and the requirements of the Fire Department shall conform to the current adopted International Fire Code, and amendments by Hickory Creek, Shady Shores, Lake Dallas, and Corinth.

This guide does not replace, nor supersede any codes and/or ordinances adopted by Hickory Creek, Shady Shores, Lake Dallas, Corinth.

INCOMPLETE PERMIT APPLICATIONS WILL NOT BE REVIEWED.

Properties equipped with automatic security gates or vehicle access ingress/egress gates that are installed for property access or across any fire lane shall follow the following guidelines for emergency vehicle access.

Each Plan Submission Shall Include:

1. Two copies of site plan indicating the locations of all vehicle access gates. (One copy will be kept for fire department records and the second copy will be returned)
2. Type of gate to be used and a list or diagram of components shall be indicated at each location.
3. Scope of Work.
4. Manufacturer's Equipment Specification sheets.

General Notes

5. A permit is required for automatic gate. (An approved site plan is not a permit)
6. The gate shall be motorized and must be of the swing or slide type and shall have two forms of access one by Opticom/Tomar IR platform and two a manual disconnect.
7. A KS2 Knox® Switches is also required in addition to the Opticom/Tomar IR platform.
8. Opticom IR platform receiver switches and transmitters and Knox® Key Switch shall open both the entrance and exit gates when gates are in close proximity to each other.
9. The minimum clear opening width shall not be less than the required fire lane or access drive.
10. The gate and/or its components shall not encroach on the minimum fire lane width (24-feet or 26-feet) and the minimum unobstructed height of 14-feet shall be maintained.
11. Gate operator(s) shall open at a rate of one foot per second. Parking barrier arms will open or clear in approximately two seconds.
12. In the event of a power failure or gate motor failure, the gate shall have a manual disconnect and it shall be capable of manual opening by one person of average stature.
13. Gate systems shall comply with UL 325 and ASTM F2200.

Primary or Main Gate

14. Primary gate is defined as the drive or access point(s) designed as a primary point of ingress/egress for emergency vehicles.

15. The following access systems shall be installed on all Primary Gates:

- a. Gates shall be motorized and shall have an Opticom/Tomar IR platform receiver switches and transmitters. When activated via the Opticom/Tomar receiver, the gate(s) shall open.
- b. KS2 Knox® Switches (in addition and not in leu of IR platform)
- c. Manual Gate Disconnect

Secondary Access Gates

16 A Secondary gate is the drive or access point designed as a secondary or back-up means of ingress/egress for emergency vehicles.

17. The following access systems shall be installed on all Secondary Gates:

- a. Gates shall be motorized and shall have and Opticom/Tomar IR platform receiver switches and transmitters. When activated via the Opticom/Tomar receiver, the gate(s) shall open.
- b. KS2 Knox® Switches (in addition and not in leu of IR platform)
- c. Manual Gate Disconnect.
- d. A sign with red background and white lettering reading "Emergency Vehicle Access Only" and shall be visible on both sides of gate.

Opticom/Tomar IR Platform Receiver

18. Shall be mounted 8 to 10-feet from grade.

19. Shall be located near the access gate.

20. Shall be mounted on a 4" x 4" metal post, not on guidepost, and shall be cemented 18" below grade or a secure structure to withstand impact.

21. Detectors shall activate 150-feet from gate.

22. Each gate shall have two individual detectors or an approved Tomar dual strobe switch if free access is not provided from the egress side.

23. Detectors shall point toward the APPROACH and EXIT path of the emergency vehicle.

24. Detectors' sight path shall be free of visual obstructions such as signs, covered parking canopies, and vegetation.

25. Individual detectors shall be mounted together with the power module in a dual detector-mounting box, or with an approved Tomar dual strobe switch. Three head detectors shall be used for 90 degree turning layouts.

26. The Opticom/Tomar IR platform shall open both the entrance and exit gates when gates are in close proximity to each other.

Numbered Keypad

27. Primary or main gates shall have a numbered keypad for emergency service access.

28. Public safety access shall be installed at a readily accessible location at each automated drive gate for public safety personnel who may require entry in other emergencies.

29. The numbers making up the code shall be determined by the Fire Code Official and shall be consistent on all gate systems installed throughout the Towns. The numbers shall not be changed unless ordered by a written, notarized directive from the Fire Marshal's Office.

Knox Key Switch

30. The Lake Cities Fire Department approved Knox® key switch (KS2) Series 3502 shall be used for 24-hour Fire Department access. The emergency key switch, when activated, shall by-pass any occupant control and/or loop systems. When activated, the gate will remain in the open position till switch is placed back in normal operating position.

31. The key switch shall open both the entrance and exit gates when gates are in close proximity to each other.

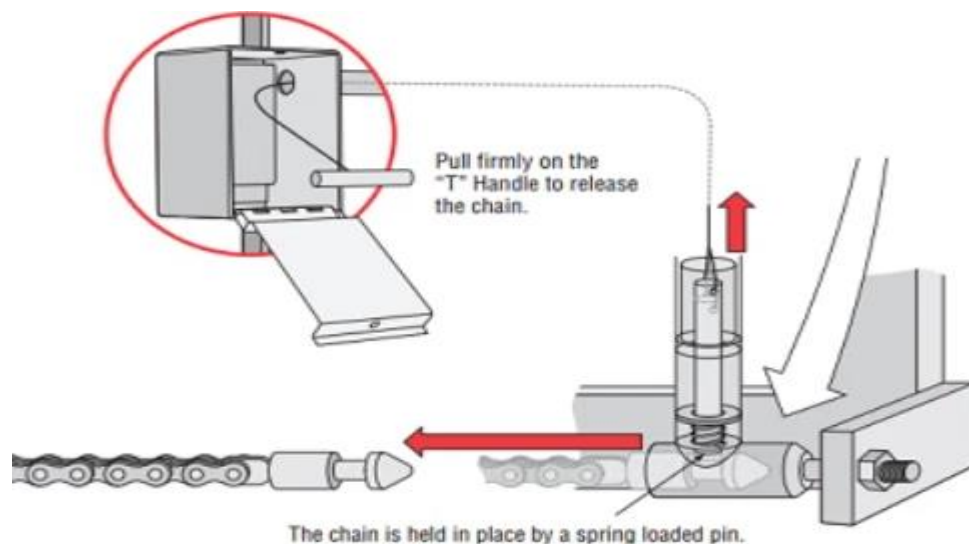
32. The Knox® switch shall be located on the ingress side and placed 5 ½-feet from grade on the 4"x 4" pre-emption post or a secure structure to withstand impact on the same side as the IR platform receiver.

33. Upon activation of the key switch, the affected gate shall automatically open to a locked open and disabled condition. The gates will remain open till the switch is place back in normal operating position.

Manual Cable Release for Chain Driven Gates

34. The chain driven gates shall be opened by means of cable release:

- a. The cable release shall be housed in a Fire Access Box
- b. The box shall be red and clearly labeled "Fire Dept." in white letters one inch tall with one-quarter inch stroke minimum.
- c. The box shall be mounted on the gate.
- d. The box shall be dual side access to provide owner access for service or disconnect without contacting the fire department.
- e. A Knox® padlock shall secure the box on the ingress side.
- f. There shall be one for each gate when gates are in close proximity to each other.



Manual Release 911 Pin-Lock System for Swing Type Gates

35. The 911 Pin-Lock system shall be incorporated into all swing type security gates to provide a manual release for the fire department. In addition, the owner can disconnect the swing arm without contacting the fire department.

36. A Knox® padlock shall secure the 911 Pin-Lock System.

37. There shall be one for each gate when gates are in close proximity to each other.

The 911 Pin-Lock Too™ allows a swing gate to meet fire department requirements for a manual release, while still allowing the consumer to disconnect the gate arm from their gate without having to call the fire department.



The 911 Pin-Lock Too™ incorporates two blocks and one double pin.



Secure the bottom block with a 3/8" diameter and a 1" x 1" shackle padlock. Insert the other end of the pin up through the gate bracket and the swing gate arm.



Place the other block on the pin and secure with a Knox™ Padlock.

Performance Test

38. Gates and gate systems shall be tested by the Fire Code Official upon completion of the installation.

39. Gates shall not be placed in operation until acceptance test is complete and approved.

NOTE:

40. Re-inspection fee – If it does not meet the requirements or fails to operate, there may be a re-inspection fee.

The issuance of a Fire Department Construction Permit from the Lake Cities Fire Department does not relieve the applicant of any permits required by the Cities of Hickory Creek, Shady Shores, Lake Dallas, or Corinth Building Department.

Submit Plans To
Lake Cities Fire Department
3501 FM 2181 Suite B Corinth, TX 76210
Phone: 940-279-4590 Fax: 940-497-3455