



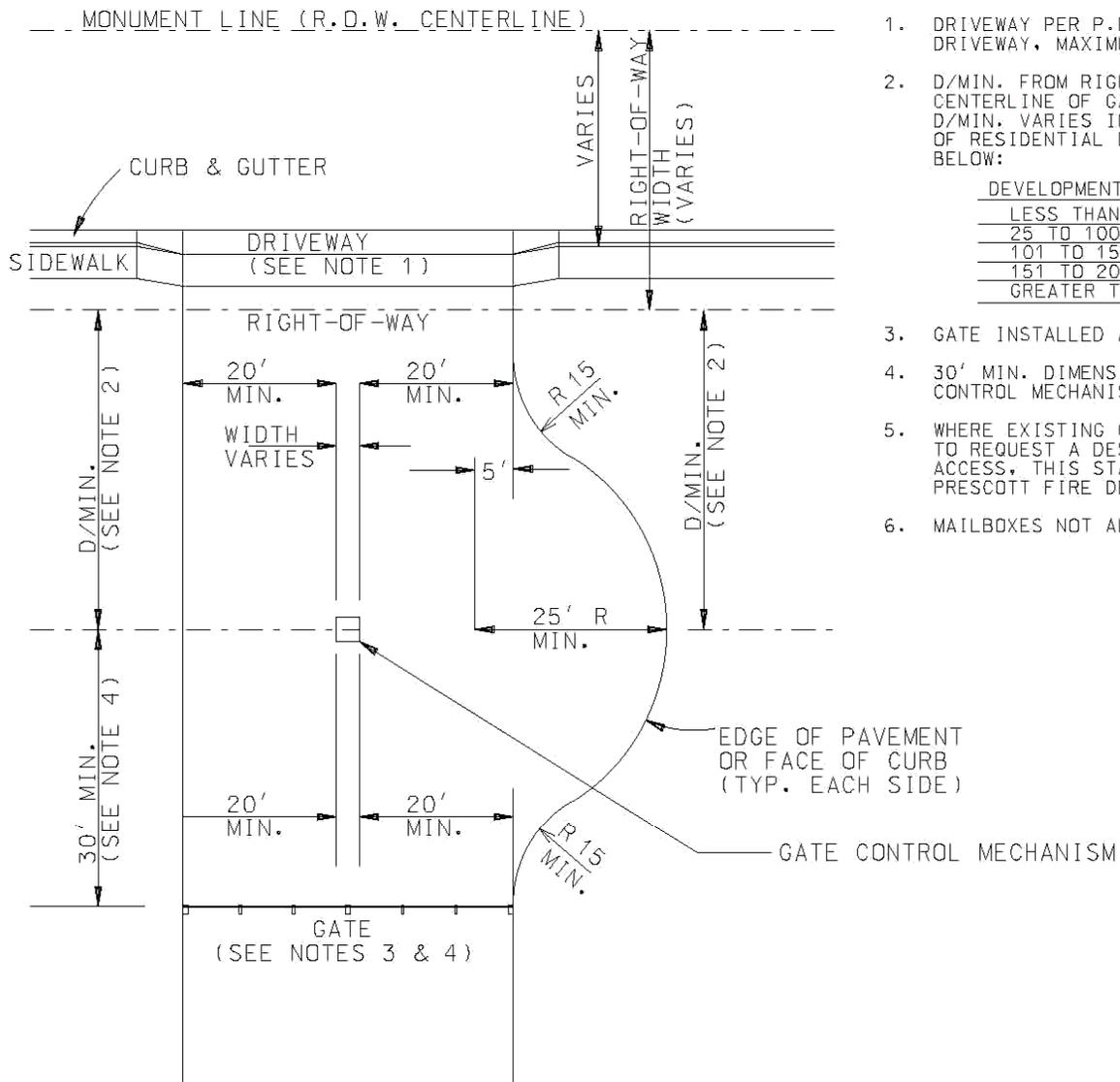
PRESCOTT FIRE DEPARTMENT

AUTOMATIC GATE REQUIREMENTS

1. A separate fire permit is required for the installation of any fire apparatus access control device.
2. A scaled shop drawing is required to be submitted to the fire department, for review and approval prior to the installation. The drawing shall include all roadways and obstructions within 150 feet radius of the proposed gate.
3. Plans shall be submitted to and approved by the Fire Marshal prior to the installation of the gate or traffic control arm.
4. The gate or arm, when fully opened shall provide a minimum clear width of 20 feet. The turning radius for Fire Department apparatus shall not be affected by the placement of the gate or arm.
5. Access gates shall be AC powered with a battery backup system to provide a continuous operation. In the event of a power failure, the access control device shall automatically open on battery back-up power and remain open until primary power is restored for residential/multifamily properties. Commercial/Industrial properties, the gate is to remain closed in the event of a power failure, until the emergency gate switch is activated by the Fire Department, then open on battery backup.
6. When a fire apparatus access control device is installed, it shall be a pre-emptive device when it serves any residential/multifamily property of 5 or more dwelling units.
7. The pre-emptive sensing device (Opticom) shall be compatible with our existing fire apparatus equipment. The sensing device shall open both ingress and egress gates at the same time when gates are in close proximity to each other.
8. The gate operator shall open at a rate of one foot per second. Parking barrier arms shall open or clear in approximately two seconds. The gates shall remain open for at least two minutes when:
 - a. The Fire Department strobe activated (Opticom) device is turned on from in the responding fire apparatus or
 - b. Any other opening procedure is initiated for Fire Department entry purposes.

9. An emergency gate switch, (Knox Key switch only) shall be used for 24-hour Fire Department access. The emergency key switch, when activated, shall by-pass any occupant control and loop switch system and maintain the gate(s) in the open position until deactivated by the Fire Department.
10. When deactivated by the Fire Department using the Knox Key, only then will the gate resume normal operation.
11. The emergency gate switch shall open both the entrance and exit gate(s) when gate(s) are in close proximity to each other.
12. The emergency key switch shall be located at the card/code keypad pedestal.
13. The Knox key switch shall be mounted 5 ½ feet from grade (location shown on plan).
14. The key switch shall be located below a sign labeled "FD ACCESS." The sign shall be 8" x 4" with white reflective lettering on a red background.
15. **MAINTENANCE CONTRACT:** Proof of an annual maintenance contract for the property is required, so that the gate operations quality control can be maintained. A copy of the maintenance service contract shall be kept on file at the Division of Fire Prevention.
16. **INSPECTION:** All gate installations and modifications shall be subject to a final field test by the Prescott Fire Department.
17. **Obstructions:** No spikes or other roadway hindrances will be allowed.
18. **Approach Distances:** There shall be a minimum distance of 35 feet between the access control device and the turn-off from the main access roadway.
19. **Egress:** Emergency apparatus shall be capable of leaving the property at any time.
20. **Auxiliary Entrances:** Access control devices installed at property entry points, other than the recognized main entrance, shall be in accordance with these requirements.
21. **Manual Override Device:** An approved manual override mechanism shall be installed. The manual override mechanism shall disengage the device's operating system. The manual override shall be a simple, obvious, operation and be readily identifiable by signage or other means.
22. A 3 foot man gate is required with a Knox box that will provide access to the manual device.
23. Obtain electrical permit from City of Prescott Building Department.
24. The electrical site plan must show:
 - a. An individual branch-circuit of a minimum 15-ampere and raceway of a minimum ½ inch serving each automatic gate. (20 ampere and ¾ inch or larger raceway/conduit is recommended)
 - b. The service equipment location and/or panel board location.

- c. The panel board schedule and new and/or revised load calculations.
 - d. The location of the automatic gate operator(s), control equipment and actuation devices.
25. A separate electrical permit shall be obtained for each automatic vehicle gate, unless the vehicle gate(s) are shown on the scope of work for another permit. If the gates are included in another permit, make sure the gates are scheduled for a final electrical inspection before that permit is closed out.
26. Have conduit depth inspected for the gate operator, preemption detectors, resident keypad and Knox key switches. Obtain a rough electrical "Green Tag" that reads "Underground Electrical for Gates." Markings on the plan will not be accepted by the Fire Department as a substitute for the rough green tag. Without the rough electrical Green Tag, when the electrical final is done, the conduit will need to be re-exposed.
27. Have final electrical inspection for gates. Green tag must read "Final Electrical for Gates." Markings on the plan will not be accepted by the Fire Department as a substitute for the final green tag. The Green Tag must be obtained before the Gate Company can call for a Fire Department inspection.
- a. Items that will be inspected for electrical final:
 - b. Rough electrical green tag for underground
 - c. Proper grounding
 - d. 110-volt connections
 - e. Disconnect provided within site (NEC)



NOTES:

1. DRIVEWAY PER P.F.D. STANDARD DOUBLE DRIVEWAY, MAXIMUM WIDTH = 60'.
 2. D/MIN. FROM RIGHT-OF-WAY LINE TO CENTERLINE OF GATE CONTROL MECHANISM. D/MIN. VARIES IN ACCORDANCE TO DENSITY OF RESIDENTIAL DEVELOPMENT AS SHOWN BELOW:
- | DEVELOPMENT UNITS | D/MIN. |
|-------------------|--------|
| LESS THAN 25 | 20' |
| 25 TO 100 | 40' |
| 101 TO 150 | 60' |
| 151 TO 200 | 80' |
| GREATER THAN 200 | 100' |
3. GATE INSTALLED AT BEGINNING OF 15' RADIUS.
 4. 30' MIN. DIMENSION FROM CENTERLINE OF GATE CONTROL MECHANISM TO FACE OF GATE
 5. WHERE EXISTING CONDITIONS DEEM IT NECESSARY TO REQUEST A DESIGN EXCEPTION OF THE GATED ACCESS, THIS STANDARD MAY BE MODIFIED BY THE PRESCOTT FIRE DEPARTMENT.
 6. MAILBOXES NOT ALLOWED IN CENTER OF DRIVEWAY.

PRESCOTT FIRE DEPARTMENT

TYPICAL DRIVEWAY ACCESS
PRIVATE GATED COMMUNITY

DETAIL NO.

503.6

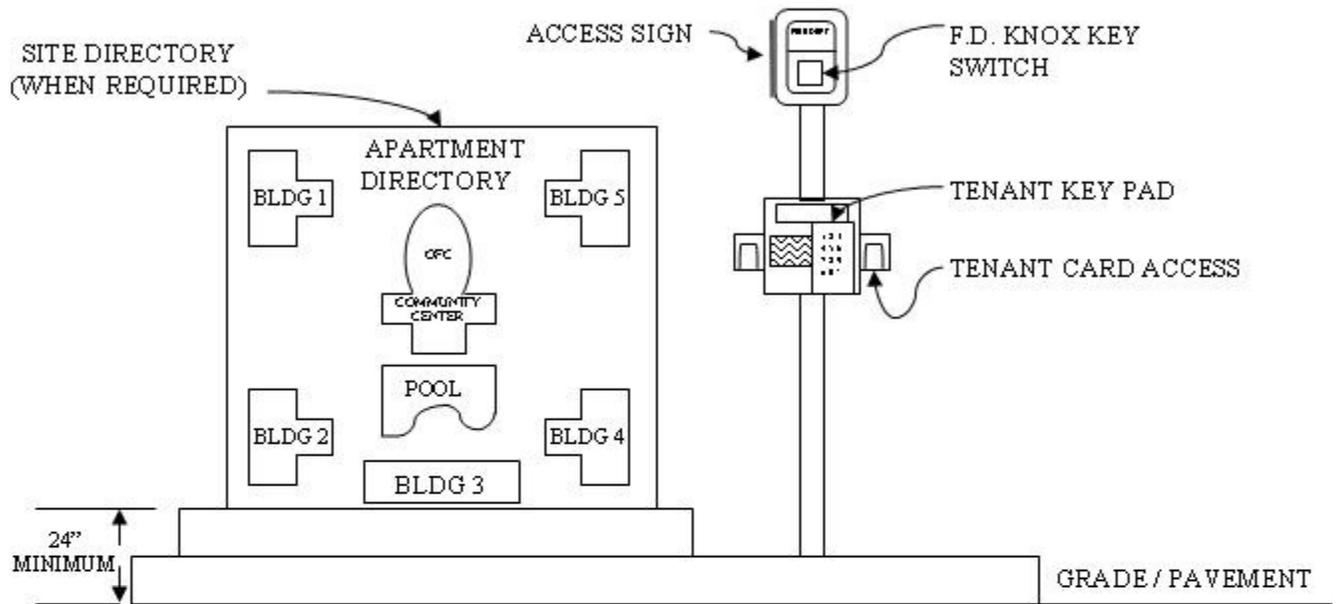
REV. DATE

01-09-06

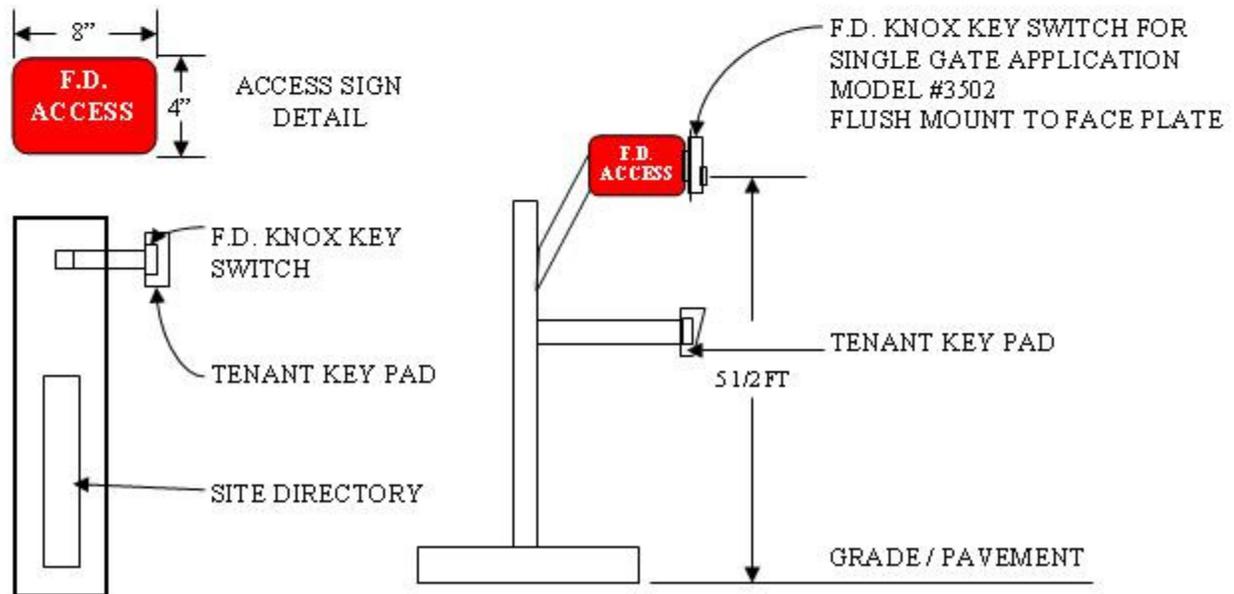


PRESCOTT FIRE DEPARTMENT

KNOX KEY PEDESTAL



**ENTRANCE ISLAND
ELEV. DETAIL (FRONT VIEW)**



PLAN VIEW

**ACCESS PAD
ELEV. DETAIL (SIDE VIEW)**