# CHAPTER 7 AUTOMATIC GATES

## **CONTENTS:**

- Steps To Obtain Permits
- Installation Requirements
- Electrical Requirements
- Gate Construction
- Key Switch Placement And Installation
- Preemption
- Automatic Gate Signage

## **PURPOSE:**

Emergency responders need uniform and dependable access through gates to deliver prompt service to the community.

Automatic Vehicle Access Gate (F157)
Plan Requirements and
Submittal Guide

#### STEPS TO OBTAIN AUTOMATIC VEHICLE ACCESS GATE PERMIT

- □ Bring **two** sets of plans to City Hall (200 W. Washington), 2<sup>nd</sup> floor.
- □ Obtain "approved" Zoning stamp for plans at Counter 6
- Take the two sets of approved plans to the Fire Plan Review Office 10<sup>th</sup> floor.
- Complete the plan review application.
- Identify the number of gates to be installed.
  - Provide name and address of property / owner.
  - Provide name and address of the installing contractor.
  - New contractors will need to provide the following 3 items:

State Contractors License(s) / State Privilege Number / City Privilege Number

- The owner may be listed as the contractor, on manual gates ONLY.
- After plan review is completed plans and permit(s) can be picked up at the Fire Prevention Office. At this time a minimum inspection fee will be collected.
- A <u>separate</u> Fire permit and electrical permit is required for each automatic gate.
   (An approved site plan **is not** a permit.)
- □ If applying for an automatic gate permit bring **two** sets of plans, after receiving Fire approval, to 2<sup>nd</sup> floor **Counter 5** for electrical and building safety review and permit. (See "Automatic Gate Electrical Requirements" for further information)
- Electrical green tag must be obtained for <u>GATE OPERATORS</u> prior to final gate inspection.
- Stamped, approved plans and permit must be on site for final inspection.

RU 05/10/08

#### **AUTOMATIC VEHICLE ACCESS GATE SPECIFIC PLAN REQUIREMENTS**

- Site plans, showing street address, location of gate(s), orientation to streets, property line and point of compass.
- Drawing to be to scale and include a graphic representation of the scale.
- Drawing should be legible and dedicated to the specific system being installed.
   (Vehicle Access Gates)
- Minimum of 20-foot wide, clear access opening on <u>ENTRANCE</u> and <u>EXIT</u> or a combined 24-foot wide 2 directional clear access opening.
- □ Forty-five (45) foot centerline radius on curves. (Fire Department may require additional width opening when a 45-foot fire apparatus turning radius cannot be met.)
- □ When road is over 300 feet, a twenty-five foot (50') vehicle passing point must be provided.
- □ A Fire Department approved Knox key switch is located 5½ feet above grade on **ENTRANCE** and **EXIT** side of gate.
- □ The entrance Knox switch shall be located above the residence's keypad, 5 ½ feet from grade
- □ The City of Phoenix approved Knox key switch shall be used for 24 hour Fire Department access. When activated, the gate will remain in the open position until de-activated by the Fire Department. Only when deactivated will the gate resume normal operation.
- □ Fire Department approved Knox key switch will open both the entrance and exit side of gate when activated.
- Fire Department approved Knox switch must bypass all free access loop systems.
- The key switch shall be located below the sign labeled "FD ACCESS". The sign shall be 8" X 4" with a thickness of .080 aluminum and with rounded corners. The sign face shall have a <a href="white-3M-diamond grade reflective sheeting">white 3M-diamond grade reflective sheeting</a> (DG³ 4090 series or equivalent) applied as a background to the aluminum plates. Lettering and graphics shall be one of the following:

RU 05/10/08 2

- A. 3M Scotchlite acrylic, transparent, electronic cuttable film (red 1172 series) inverse cut to allow white reflective background to show through.
- B. Screen-printed using 3M 880I or 880-00 series traffic sign red translucent ink.
- Battery backup is installed on <u>ENTRANCE</u> and <u>EXIT</u> Gates.
- □ Residential/Multifamily: Gate will open on battery backup during loss of power and remain open until the power is restored.
- Commercial/Industrial: Properties remain closed until the emergency gate switch is activated, then open on battery backup.
- Activated access gate shall open at a rate of one foot per second. Parking barrier arms will open or clear in approximately two seconds.
- □ All multifamily housing developments, including single-family homes (5 or more), shall have preemption devices on each gate.

#### REQUIREMENTS FOR PREEMPTION DEVICES

Preemption device shall be installed on ALL apartments, condominiums, town homes, garden homes, mobile home parks, and developments of five or more single-family homes constructed after January 1, 2001.

- Detectors shall be mounted 8 to 10 feet from grade.
- Detectors shall be located behind the access gate (property side).
- Detectors shall be mounted on a 4"x 4" metal post, not on guidepost.
- Post shall be cemented 18" below grade.
- Detectors shall activate 150 ft from gate.
- □ Each gate shall have two individual detectors or an approved Tomar dual strobe switch, model 2795-2.
- Detectors shall point toward the APPROACH and EXIT path of the emergency vehicle.
- Detectors' sight path shall be free of visual obstructions such as signs, covered parking canopies, and vegetation.

RU 05/10/08

- Individual detectors shall be mounted together with the power module in a dual detector mounting box, or with an approved Tomar dual strobeswitch, model 2795-2.
- Knox key switches shall still be provided as a manual backup.
- □ The entrance Knox switch shall be located above the residence's keypad, 5 ½ feet from grade.
- □ The exit Knox switch shall be located on the 4"x 4" preemption post, recessed 5 ½ feet from grade, with the detectors.

#### **AUTOMATIC VEHICLE ACCESS GATE ELECTRICAL REQUIREMENTS**

- □ Obtain electrical permit from the City of Phoenix, Development Services Department, 200 W. Washington Street, 2<sup>nd</sup> floor, Counter 5.
- □ The Electrical Site Plan must show:
  - An individual branch-circuit (minimum 20 ampere) and raceway (minimum ¾ inch) serving each automatic gate.
  - 2. The service equipment location and/or panel board location.
  - 3. The panel board schedule and new and/or revised load calculations.
  - 4. The location of the automatic gate operator(s), control equipment and actuation devices.
- □ 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.
- Have conduit depth inspected for the gate operators, preemption detectors, resident keypad and Knox key switches. Obtain a "Rough Electrical Green Tag" that reads "Underground Electric for Gates." Marking on the plans will not be accepted by the Fire Department. Without this, when the electrical final is done, the conduits will need to be re-exposed.
- Have final electrical inspection for gates. Green tag must read "Final Electrical for Gates." Marking this on the plans will not be accepted by the Fire Department.
   This green tag must be obtained before the gate company can call for a Fire Department inspection.

Gate installations and modifications shall be subject to final field inspection Electrical green tag for gate must be obtained prior to field inspection

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# Single-Family Residence Gate Installations

- Prior to work being started, plans shall be submitted to the Fire
   Department for approval and permit. (See "Vehicle Access Gate Plan Submittal Guide" for further information)
- Electrical permit and electrical inspection shall be obtained prior to installation of gate. (See "Automatic Gate Electrical Requirements" for further information)
- Gate must meet 20-ft clear access minimum.
- Knox key switch shall be provided on <u>ENTRANCE</u> side of gate if residence is less than 150 ft from gate. Key switch may be located on fence or gate column.
- Knox key switch shall be installed on the <u>ENTRANCE</u> and <u>EXIT</u> side of gates if:
  - 1. Residence has more than one gate with joining driveways.
  - 2. Gate entrance exceeds 150 ft from furthest point inside the residence.
- Battery backup shall be provided on gate operators.
- Remote activated gate openers shall be used if gate is less than 25 ft from the street.
- No spikes allowed on openings of gate.

#### Alternatives:

- Preemption device may be installed to provide faster response into residence.
- Battery backup will not be required on a DC system controller.

Gate installations and modifications shall be subject to final field inspection Electrical green tag for gate must be obtained prior to field inspection





DETECTORS SHALL BE MOUNTED ON 4" X 4" POST 8FT TO 10 FT FROM GRADE



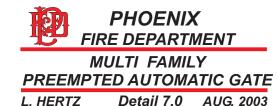
PHOENIX FIRE DEPT. APPROVED DUAL STROBE SWITCH DETECTOR MODEL 2795-2

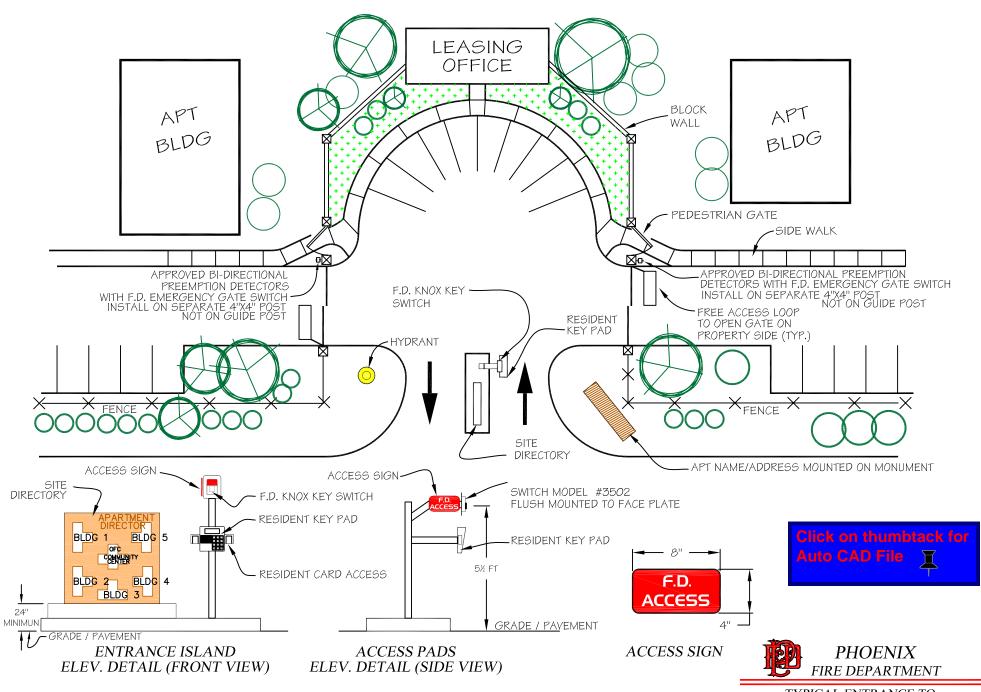


F.D. APPROVED KNOX KEY SWITCH MODEL #3502 FLUSH MOUNTED IN 4" X 4" POST





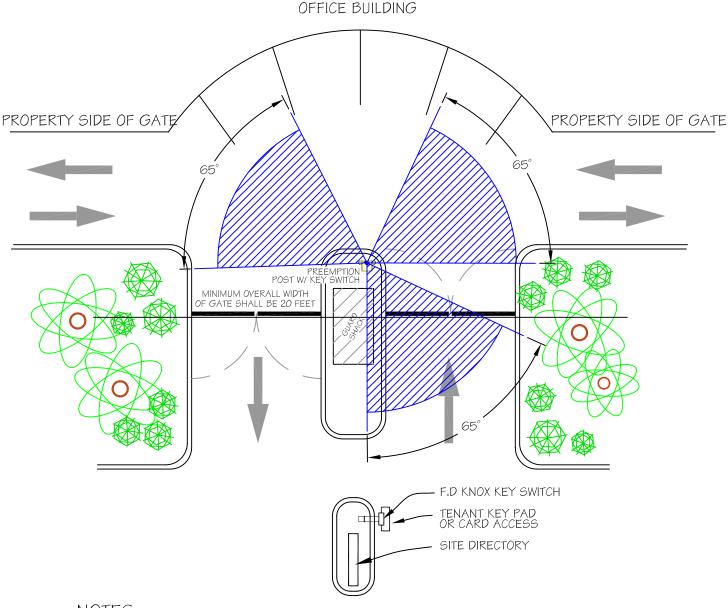




FILE NAME: Acces\_pl.dwg CALL FIRE PREVENTION-ACCESS OFFICER FOR QUESTIONS OR ASSISTANCE 602-256-3382 OR 602-262-6771 **REQUIRES PERMIT** 

TYPICAL ENTRANCE TO MULTIPLE RESIDENTIAL COMMUNITY WITH AUTOMATIC GATES

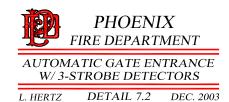
#### TOMAR MODEL 2795-3

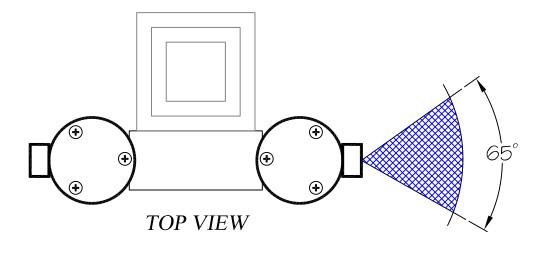


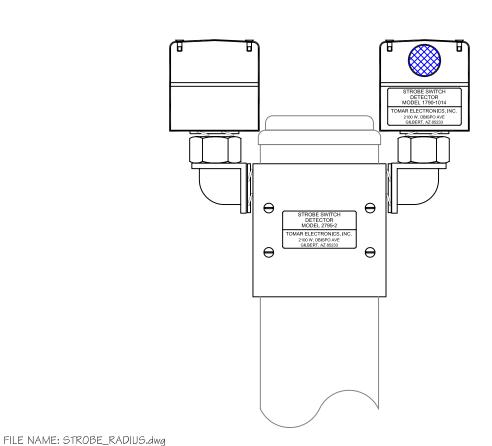
#### NOTES:

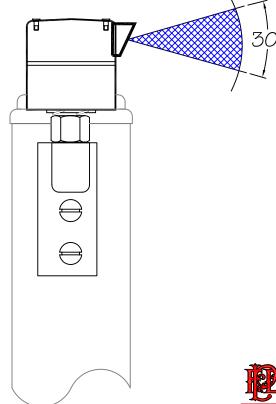
- 1. DETECTORS SHALL BE MOUNTED 8 TO 10 FEET FROM GRADE ON A 4" X 4" METAL POST. NO MIRRORS SHALL SUBSTITUTE THE REQUIREMENTS OF TWO DETECTORS PER GATE.
- 2. DETECTORS SHALL POINT TOWARD THE APPROACH PATH AND EXIT PATH OF THE EMERGENCY VEHICLES. DETECTORS MUST ACTIVATE 150 FEET FROM GATE.
- 3. THE POWER MODULE SHALL BE MOUNTED IN AN ELECTRICAL JUNCTION BOX, UNDER THE DETECTORS ON THE SAME 4" X 4" METAL POST.
- 4. THE 4" X 4" SQUARE POST WITH DETECTOR AND POWER MODULE SHALL BE INSTALLED ON THE PROPERTY SIDE OF THE GATE. ( NOT ON GUIDE POST )
- 5. APPROVED EMERGENCY KEY SWITCH SHALL BE INSTALLED ON THE ENTRANCE AND EXIT SIDE OF EACH ACCESS GATE. ENTRANCE SWITCH SHALL BE LOCATED ABOVE THE RESIDENCE KEY PAD 5½ FT FROM GRADE. EXIT SWITCH SHALL BE LOCATED ON THE 4" X 4" POST WITH THE DUAL DETECTORS AND POWER MODULE UNIT.











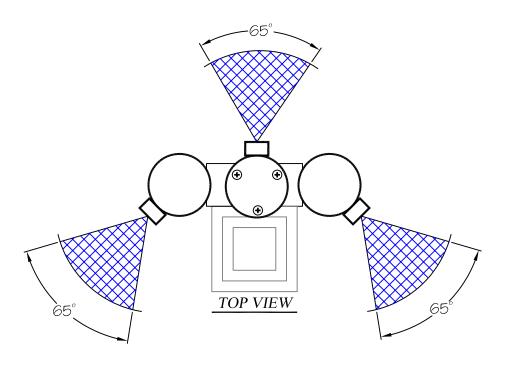
FRONT VIEW

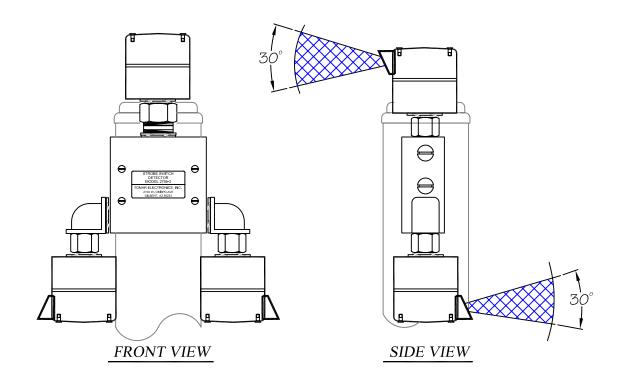
SIDE VIEW



CALL FIRE PREVENTION-ACCESS OFFICER FOR QUESTIONS OR ASSISTANCE 602-256-3382 OR 602-262-6771

L. HERTZ

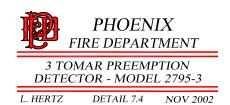


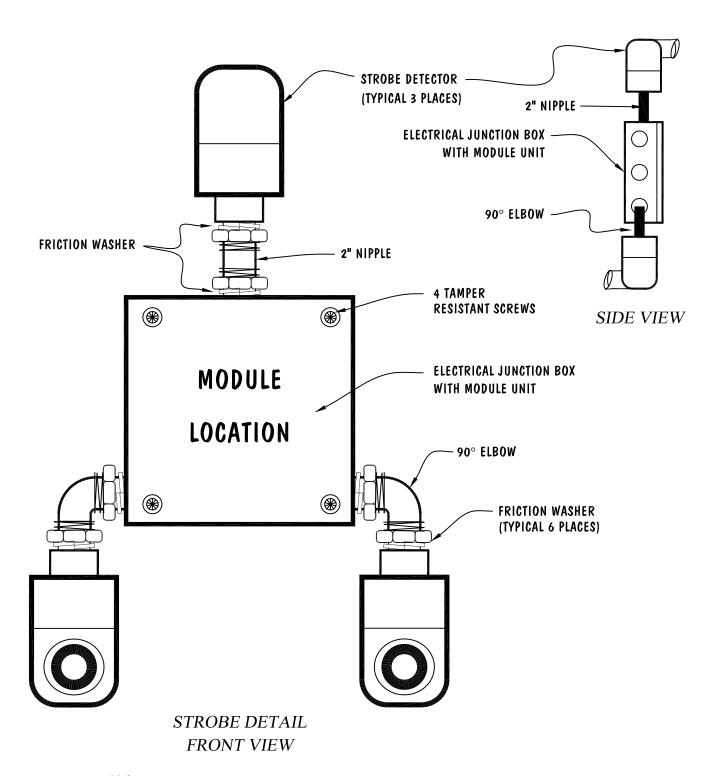


#### NOTE:

3 HEADS ARE REQUIRED WITH 90° TURNING LAYOUTS







NOTE:

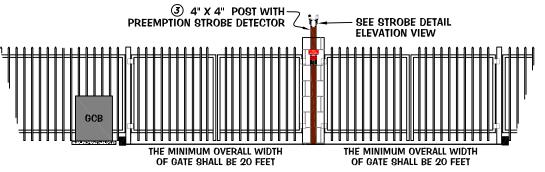
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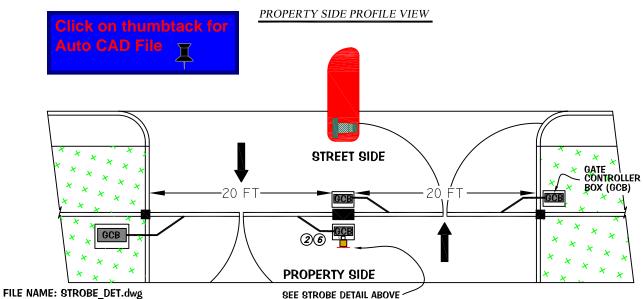




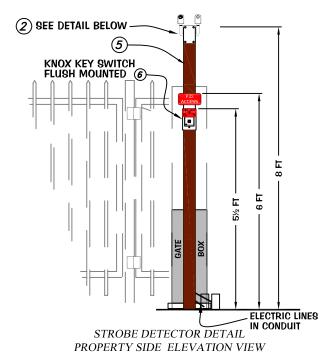
# APPROVED AUTOMATIC VEHICLE ACCESS GATE PREEMPTION DETECTORS WITH KNOX KEY SWITCHES

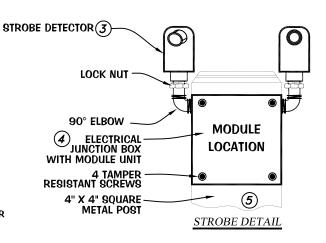
- (1) EACH AUTOMATIC GATE SHALL HAVE 2 DETECTORS OR A BI DIRECTIONAL DETECTOR.
- ② DETECTORS SHALL BE MOUNTED 8 TO 10 FEET FROM GRADE ON A 4" X 4" METAL POST. DETECTORS SHALL BE ON SEPARATE POST, NOT ON GUIDE POST.
- JETECTORS SHALL POINT TOWARD THE APPROACH PATH AND EXIT PATH OF THE EMERGENCY VEHICLES. DETECTORS MUST ACTIVATE WITHIN 150 FEET FROM GATE.
- THE POWER MODULE SHALL BE MOUNTED IN AN ELECTRICAL JUNCTION BOX, UNDER THE DETECTORS ON THE SAME 4" X 4" METAL POST.
- 5 THE 4" X 4" SQUARE POST WITH DETECTOR AND POWER MODULE SHALL BE INSTALLED ON THE PROPERTY SIDE OF THE GATE.
- APPROVED EMERGENCY KEY SWITCH SHALL BE INSTALLED ON THE ENTRANCE AND EXIT SIDE OF EACH ACCESS GATE. ENTRANCE SWITCH SHALL BE LOCATED ABOVE THE RESIDENCE KEY PAD 5½ FT FROM GRADE. EXIT SWITCH SHALL BE RECESSED INTO THE 4" X 4" POST WITH THE DUAL DETECTORS AND POWER MODULE UNIT.





PLAN VIEW







Requires Permit

K

KNOX KEY SWITCH

**(6)** 

NOTES:



NOTES:

Filename: RETRO\_FITTING.cdr

for Questions or Assistance 602-256-3382 or 602-262-6771

Call Fire Prevention - Access Officer

1. EACH AUTOMATIC GATE SHALL HAVE 2 DETECTORS.

DETECTORS SHALL BE MOUNTED 8 TO 10 FEET FROM GRADE ON A 4" X 4" METAL POST. NO MIRRORS SHALL SUBSTITUTE THE REQUIREMENTS OF 2 DETECTORS PER GATE.

- DETECTORS SHALL POINT TOWARD THE APPROACH PATH AND EXIT PATH OF EMERGENCY VEHICLES. DETECTORS MUST ACTIVATE WITHIN 150 FEET FROM GATE.
- THE POWER MODULE SHALL BE MOUNTED IN AN ELECTRICAL JUNCTION BOX, UNDER THE DETECTORS ON THE SAME 4"X4" METAL POST.
- 5. THE 4" X 4" SQUARE POST WITH DETECTOR AND POWER MODULE SHALL BE INSTALLED ON THE PROPERTY SIDE OF THE GATE, NOT ON GUIDEPOST.
- 6. APPROVED EMERGENCY KNOX KEY SWITCH SHALL BE INSTALLED ON THE ENTRANCE AND EXIT SIDE OF EACH ACCESS GATE. SWITCH SHALL BE LOCATED 5½FT ABOVE GRADE RECESSED IN THE 4" X 4" POST WITH DUAL DETECTORS AND POWER MODULE UNIT.
- 8. REQUIRES PRE-APPROVAL BY PFD-EMERGENCY ACCESS OFFICER.
- 7. ORDER FORMS FOR F.D. KNOX KEY SWITCH ARE AVAILABLE THROUGH EITHER THE ACCESS OR GATE INSPECTORS IN FIRE PREVENTION. CALL 602-256-3382 FOR ORDER FORMS.

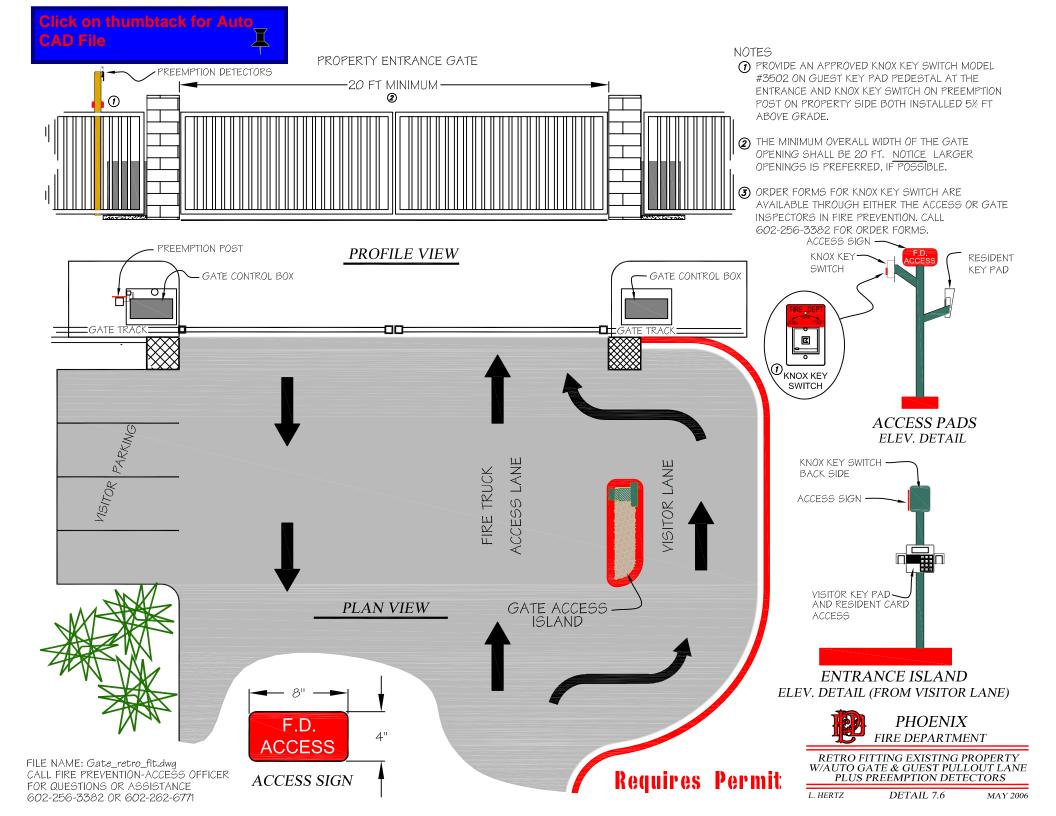


L. HERTZ

8" X 8" X 3/8" FOOT PLATE

> Phoenix Fire Department

SPECIAL APPLICATION FOR RETRO FITTING WITH PREEMPTION

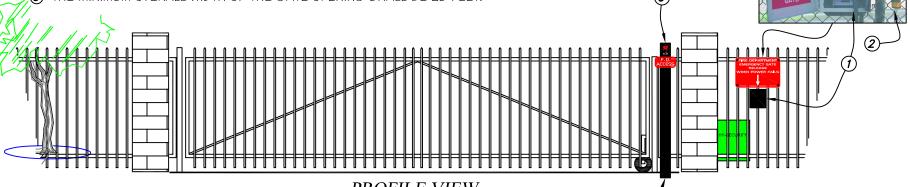




# AUTOMATIC GATE WITHOUT BATTERY BACKUP

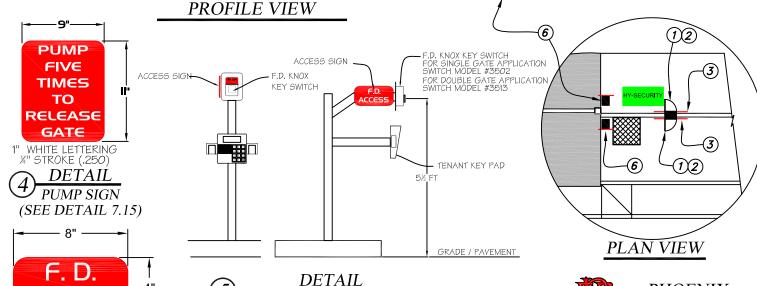
NOTES:

- @ GATE RELEASE PUMP TO BE ACCESSIBLE FROM BOTH SIDES OF GATE, 3 FEET FROM GATE.
- (2) LOCK CABINET DOORS WITH KNOX PADLOCK, ONE FOR EACH DOOR.
- 3 LOCATE EMERGENCY GATE RELEASE SIGN ABOVE PUMP BOX, ON BOTH SIDES OF GATE.
- (4) LOCATE PUMP SIGN ON INSIDE OF PUMP BOX DOORS.
- (3) ALL RESIDENTIAL PROPERTIES REQUIRE A BATTERY BACK-UP/ NO MANUAL RELEASE.
- 6 FOR COMMERCIAL PROPERTIES KEY SWITCH SHALL BE RECESSED IN 4"X4" SQUARE POST ADJACENT TO GATE (ON BOTH SIDES).
- (7) KEY SWITCHES AND FÎRE DEPT. KNOX PAD LOCKS CAN BE PURCHASED AT PFD FIRE PREVENTION 150 SOUTH 12th ST., HRS. 8AM 4:30PM MUST HAVE ORIGINAL ORDER FORM & F.D. PERMIT.
- (8) THE MINIMUM OVERALL WIDTH OF THE GATE OPENING SHALL BE 20 FEET.









ACCESS SIGN DETAIL

Irity.dwg
N-ACCESS OFFICER

(REFER TO APPROVED PFD ACCESS DETAIL)

APPEAL REQUIRED

PEDESTAL KEY SWITCH



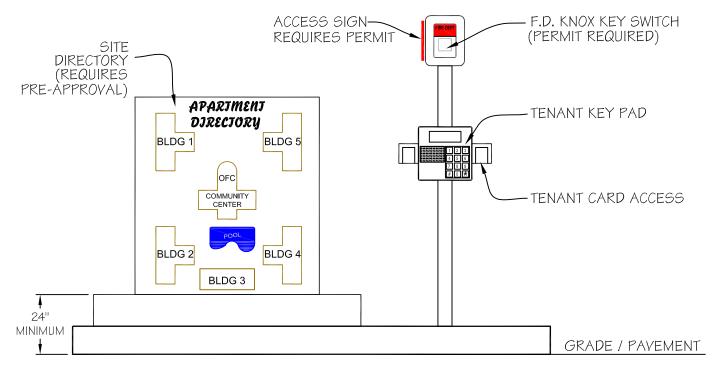
HY-SECURITY OPERATOR MANUAL PUMP RELEASE

3

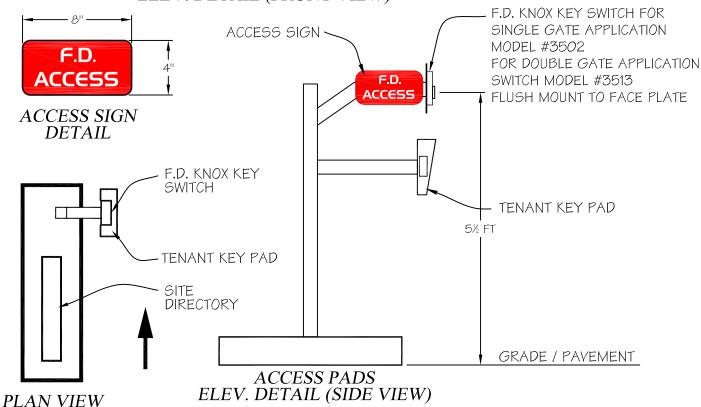
VHEN POWER FAILS

K

KNOX KEY SWITCH



ENTRANCE ISLAND ELEV. DETAIL (FRONT VIEW)



NOTES:

Click on thumbtack for Auto CAD File

1. MUST HAVE AN ORIGINAL ORDER FORM AND FIRE DEPT. GATE PERMIT TO PURCHASE KEY SWITCH.

2. ORDER FORMS FOR KNOX KEY SWITCHES ARE AVAILABLE THROUGH EITHER THE ACCESS OR GATE INSPECTORS IN FIRE PREVENTION. CALL 602-256-3382 FOR ORDER FORMS

# **Permit Required**

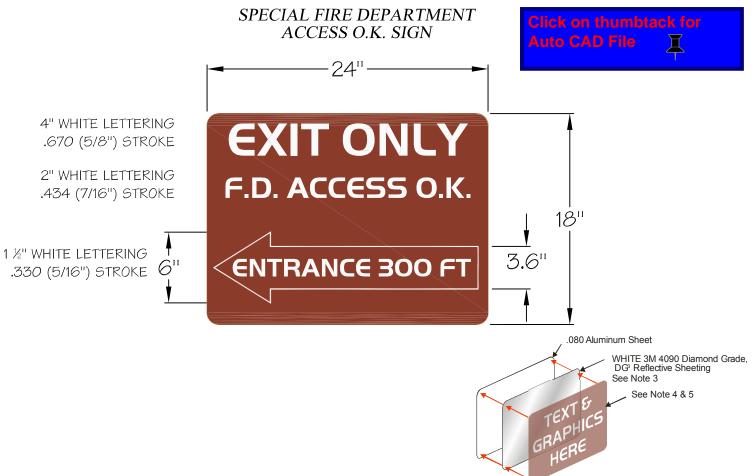


DETAIL 7.8

MAY 2006

L. HERTZ

FILE NAME: KEYPAD\_ISLAND.dwg CALL FIRE PREVENTION-ACCESS OFFICER FOR QUESTIONS OR ASSISTANCE 602-256-3382 OR 602-262-6771



#### NOTES:

- 1. THE SIGN FACE SHALL BE 24" X 18" AND FABRICATED FROM .080 ALUMINUM SHEET WITH 1½" RADIUS CORNERS.
- 2. FONT STYLE USED IS HANDEL GOTHIC BT CAPITAL FONTS
- 3. THE SIGN FACE SHALL HAVE A WHITE 3M DIAMOND GRADE REFLECTIVE SHEETING (DG3 4090 SERIES OR EQUIVALENT) APPLIED AS A BACKGROUND TO THE ALUMINUM PLATES.
- 4. LETTERING / GRAPHICS SHALL BE DONE ONE OF THE FOLLOWING WAYS:
  - A. 3M SCOTCHLITE ACRYLIC, TRANSPARENT. ELECTRONIC CUTTABLE FILM. (BROWN 1179 SERIES) INVERSE CUT TO ALLOW WHITE REFLECTIVE BACKGROUND TO SHOW THROUGH.
  - B. SCREEN PRINTED USING 3M 880I OR 880-00 SERIES TRAFFIC SIGN BROWN TRANSLUCENT INK.

BOTH PROCESSES ( A OR B ) WILL ACCOMPLISH A DARK FIELD WITH WHITE COPY.

- 5. ALL SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFLECTIVE SHEETING MANUFACTURES MATCH COMPONENT SYSTEM.
- 6. THE SIGN SHALL IDENTIFY THE CORRECT LANE FOR FIRE DEPT. EMERGENCY APPARATUS TO ACCESS AT RESTRICTED GATE LOCATIONS.
- 7. REQUIRES PRE-APPROVAL BY FIRE PREVENTION EMERGENCY ACCESS OFFICER.



#### SPECIAL FIRE DEPARTMENT ACCESS O.K. SIGN

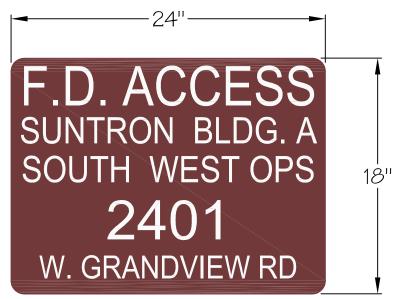
3" WHITE LETTERING STROKE

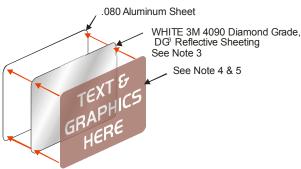
2" WHITE LETTERING STROKE

2" WHITE LETTERING STROKE

3" WHITE LETTERING STROKE

1.75" WHITE LETTERING STROKE





#### NOTES:

- 1. THE SIGN FACE SHALL BE 24" X 18" AND FABRICATED FROM .080 ALUMINUM SHEET WITH 1½" RADIUS CORNERS.
- 2. FONTS USED FOR ADDRESSING MUST BE LEGIBLE AND EASY TO READ.
- THE SIGN FACE SHALL HAVE A WHITE 3M DIAMOND GRADE REFLECTIVE SHEETING (DG<sup>3</sup> 4090 SERIES OR EQUIVALENT) APPLIED AS A BACKGROUND TO THE ALUMINUM PLATES.
- 4. LETTERING / GRAPHICS SHALL BE 3M SCOTCHLITE ACRYLIC, TRANSPARENT, ELECTRONIC CUTTABLE FILM, (BROWN 1179 SERIES) INVERSE CUT TO ALLOW WHITE REFLECTIVE BACKGROUND TO SHOW THROUGH.
- 5. ALL SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFLECTIVE SHEETING MANUFACTURES MATCH COMPONENT SYSTEM.
- 6. THE SIGN SHALL IDENTIFY THE NAME OF THE APARTMENT OR BUSINESS COMPLEX AND THE LOCATION OF THE MAIN ACCESS ENTRANCE.
- REQUIRES PRE-APPROVAL BY FIRE PREVENTION EMERGENCY ACCESS OFFICER.

Click on thumbtack for Auto CAD File

Special Application for Suntron Bldg. A



#### SPECIAL FIRE DEPARTMENT ACCESS O.K. SIGN

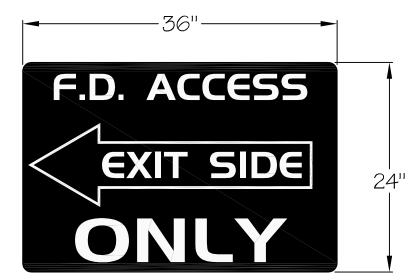


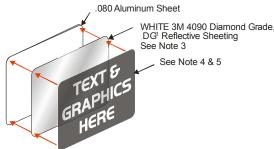
3" WHITE LETTERING

3" WHITE LETTERING

ARROW LINE THICKNESS OF 5/16" (.3125)

5" WHITE LETTERING





#### NOTES:

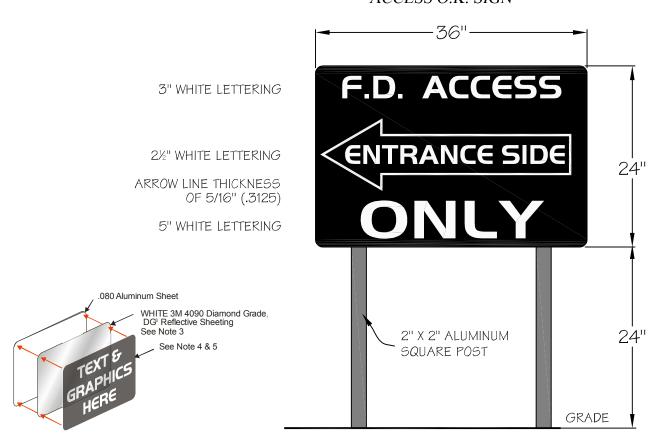
- 1. THE SIGN FACE SHALL BE 36" X 24" AND FABRICATED FROM .080 ALUMINUM SHEET WITH 1½" RADIUS CORNERS.
- 2. FONT STYLE USED IS HANDEL GOTHIC BT CAPITAL FONTS
- 3. THE SIGN FACE SHALL HAVE A WHITE 3M DIAMOND GRADE REFLECTIVE SHEETING (DG3 4090 SERIES OR EQUIVALENT) APPLIED AS A BACKGROUND TO THE ALUMINUM PLATES.
- 4. LETTERING / GRAPHICS SHALL BE DONE ONE OF THE FOLLOWING WAYS:
  - A. 3M SCOTCHLITE ACRYLIC, TRANSPARENT, ELECTRONIC CUTTABLE FILM, (BLACK 1178 SERIES) INVERSE CUT TO ALLOW WHITE REFLECTIVE BACKGROUND TO SHOW THROUGH.
  - B. SCREEN PRINTED USING 3M 880I OR 880-00 SERIES TRAFFIC SIGN BLACK TRANSLUCENT INK.

BOTH PROCESSES ( A OR B ) WILL ACCOMPLISH A DARK FIELD WITH WHITE COPY.

- 5. ALL SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFLECTIVE SHEETING MANUFACTURES MATCH COMPONENT SYSTEM.
- 6. THE SIGN SHALL IDENTIFY THE CORRECT LANE FOR FIRE DEPT. EMERGENCY APPARATUS TO ACCESS AT RESTRICTED GATE LOCATIONS.
- 7. REQUIRES PRE-APPROVAL BY FIRE PREVENTION EMERGENCY ACCESS OFFICER.



#### SPECIAL FIRE DEPARTMENT ACCESS O.K. SIGN



#### NOTES:

- 1. THE SIGN FACE SHALL BE 36" X 24" AND FABRICATED FROM .080 ALUMINUM SHEET WITH 11/2" RADIUS CORNERS.
- 2. FONT STYLE USED IS HANDEL GOTHIC BT CAPITAL FONTS
- 3. THE SIGN FACE SHALL HAVE A WHITE 3M DIAMOND GRADE REFLECTIVE SHEETING (DG3 4090 SERIES OR EQUIVALENT) APPLIED AS A BACKGROUND TO THE ALUMINUM PLATES.
- 4. LETTERING / GRAPHICS SHALL BE DONE ONE OF THE FOLLOWING WAYS:
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- 7. REQUIRES PRE-APPROVAL BY FIRE PREVENTION EMERGENCY ACCESS OFFICER.





ARIZONA

**BLUE STAKE** 

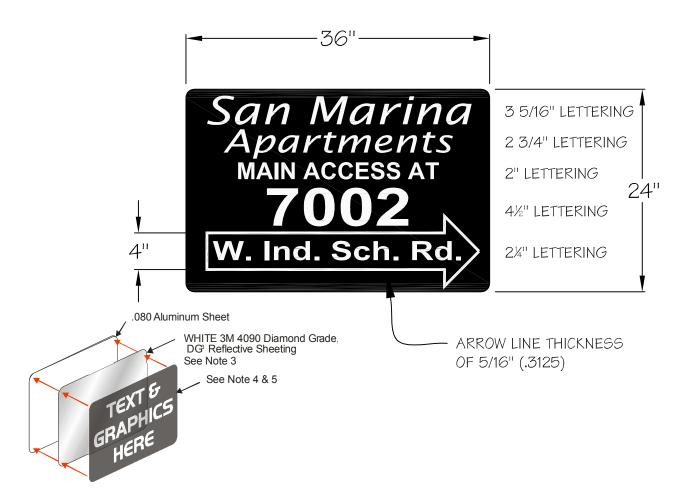
CALL TWO WORKING DAYS

BEFORE YOU DIG

(602) 263-1100 1-800-STAKE-IT

(OUTSIDE MARICOPA COUNTY) www.azbslnc.com

FILE NAME: Vehicle\_Access\_Enter.dwg CALL FIRE PREVENTION-ACCESS OFFICER FOR QUESTIONS OR ASSISTANCE 602-256-3382 OR 602-262-6771



#### NOTES:

- 1. THE SIGN FACE SHALL BE 36" X 24" AND FABRICATED FROM .080 ALUMINUM SHEET WITH 1½" RADIUS CORNERS.
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- 3. THE SIGN FACE SHALL HAVE A WHITE 3M DIAMOND GRADE REFLECTIVE SHEETING (DG3 4090 SERIES OR EQUIVALENT) APPLIED AS A BACKGROUND TO THE ALUMINUM PLATES.
- 4. LETTERING / GRAPHICS SHALL BE DONE ONE OF THE FOLLOWING WAYS:
  - A. 3M SCOTCHLITE ACRYLIC, TRANSPARENT, ELECTRONIC CUTTABLE FILM, (BLACK 1178 SERIES) INVERSE CUT TO ALLOW WHITE REFLECTIVE BACKGROUND TO SHOW THROUGH.
  - B. SCREEN PRINTED USING 3M 880I OR 880-00 SERIES TRAFFIC SIGN BLACK TRANSLUCENT INK.
  - BOTH PROCESSES ( A OR B ) WILL ACCOMPLISH A DARK FIELD WITH WHITE COPY.
- 5. ALL SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFLECTIVE SHEETING MANUFACTURES MATCH COMPONENT SYSTEM.
- 6. THE SIGN SHALL IDENTIFY THE NAME OF THE APARTMENT OR BUSINESS COMPLEX AND THE LOCATION OF THE MAIN ACCESS ENTRANCE.
- 7. REQUIRES PRE-APPROVAL BY FIRE PREVENTION EMERGENCY ACCESS OFFICER.



CALL FIRE PREVENTION-ACCESS OFFICER

FOR QUESTIONS OR ASSISTANCE

602-256-3382 OR 602-262-6771

Special Application for San Marina Apts.



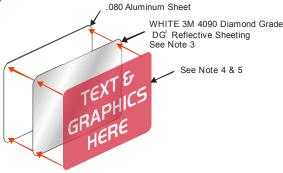
## SPECIAL FIRE DEPARTMENT ACCESS SIGN



3.75" (3 3/4") LETTERING .515" STROKE

3.75" (3 3/4") LETTERING .790" STROKE

1.75" (1 3/4") LETTERING .375" STROKÉ



#### NOTES:

- THE SIGN FACE SHALL BE 24" X 18" AND FABRICATED FROM .080 ALUMINUM SHEET WITH ½" RADIUS CORNERS.
- 2. FONT STYLE USED IS HANDEL GOTHIC BT CAPITAL FONTS.
- 3. THE SIGN FACE SHALL HAVE A WHITE 3M DIAMOND GRADE REFLECTIVE SHEETING (DG3 4090 SERIES OR EQUIVALENT) APPLIED AS A BACKGROUND TO THE ALUMINUM PLATES.
- 4. LETTERING SHALL BE DONE ONE OF THE FOLLOWING WAYS:
  - A. 3M SCOTCHLITE ACRYLIC, TRANSPARENT. ELECTRONIC CUTTABLE FILM (RED 1172 SERIES) INVERSE CUT TO ALLOW WHITE REFLECTIVE BACKGROUND TO SHOW THROUGH.
  - B. SCREEN PRINTED USING 3M 880 I OR 880-00 SERIES TRAFFIC SIGN RED TRANSLUCENT INK.

BOTH PROCESSES ( A OR B ) WILL ACCOMPLISH A RED FIELD WITH WHITE COPY.

- 5. ALL SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFLECTIVE SHEETING MANUFACTURES MATCH COMPONENT SYSTEM.
- 6. REQUIRES PRE-APPROVAL BY FIRE PREVENTION EMERGENCY ACCESS OFFICER.

Auto CAD File

SPECIAL APPLICATION



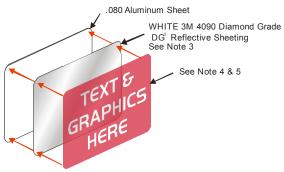
# FOR PORTE COCHERE APPLICATIONS



4.375" (4 3/8") LETTERING 1" STROKE

4.5" (4½") LETTERING 1" STROKE

3.75" (3 3/4") LETTERING 7/8" STROKE



#### NOTES:

- 1. THE SIGN FACE SHALL BE 48" X 24" AND FABRICATED FROM .080 ALUMINUM SHEET WITH ½" RADIUS CORNERS.
- 2. FONT STYLE USED IS HANDEL GOTHIC BT CAPITAL, ADDITIONAL KERNING BETWEEN LETTERS AS SHOWN.
- 3. THE SIGN FACE SHALL HAVE A WHITE 3M DIAMOND GRADE REFLECTIVE SHEETING (DG<sup>3</sup> 4090 SERIES OR EQUIVALENT) APPLIED AS A BACKGROUND TO THE ALUMINUM PLATES.
- 4. LETTERING SHALL BE DONE ONE OF THE FOLLOWING WAYS:
  - A. 3M SCOTCHLITE ACRYLIC, TRANSPARENT, ELECTRONIC CUTTABLE FILM (RED 1172 SERIES) INVERSE CUT TO ALLOW WHITE REFLECTIVE BACKGROUND TO SHOW THROUGH.
  - B. SCREEN PRINTED USING 3M 880 I OR 880-00 SERIES TRAFFIC SIGN RED TRANSLUCENT INK.

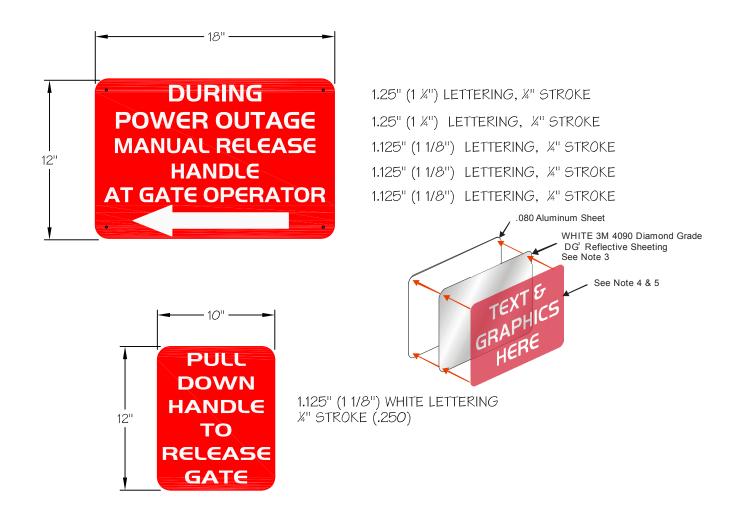
BOTH PROCESSES (A OR B) WILL ACCOMPLISH A RED FIELD WITH WHITE COPY.

- 5. ALL SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFLECTIVE SHEETING MANUFACTURES MATCH COMPONENT SYSTEM.
- REQUIRES PRE-APPROVAL BY FIRE PREVENTION EMERGENCY ACCESS OFFICER.



**Special Application Appeal Variance Required** 





#### NOTES:

- 1. THE SIGN FACE SHALL BE FABRICATED FROM .080 ALUMINUM SHEET WITH ½" RADIUS CORNERS.
- 2. FONT STYLE USED IS HANDEL GOTHIC BT CAPITAL FONTS.
- 3. THE SIGN FACE SHALL HAVE A WHITE 3M DIAMOND GRADE REFLECTIVE SHEETING (DG<sup>3</sup> 4090 SERIES OR EQUIVALENT) APPLIED AS A BACKGROUND TO THE ALUMINUM PLATES.
- 4. LETTERING SHALL BE DONE ONE OF THE FOLLOWING WAYS:
  - A. 3M SCOTCHLITE ACRYLIC, TRANSPARENT, ELECTRONIC CUTTABLE FILM (RED 1172 SERIES) INVERSE CUT TO ALLOW WHITE REFLECTIVE BACKGROUND TO SHOW THROUGH.
  - B. SCREEN PRINTED USING 3M 880I OR 880-00 SERIES TRAFFIC SIGN RED TRANSLUCENT INK.

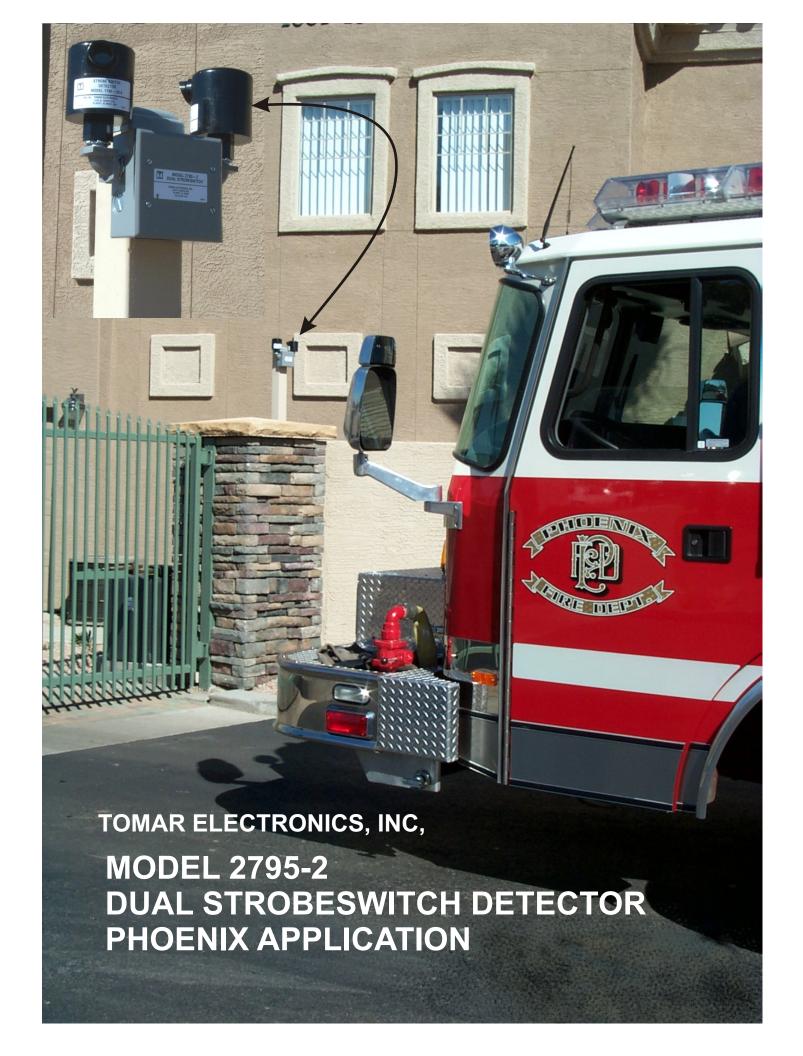
BOTH PROCESSES ( A OR B ) WILL ACCOMPLISH A RED FIELD WITH WHITE COPY.

- 5. ALL SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFLECTIVE SHEETING MANUFACTURES MATCH COMPONENT SYSTEM.
- 6. THE SIGN SHALL IDENTIFY THE LOCATION OF THE HANDLE TO RELEASE HYDRAULIC PRESSURE FOR OPENING GATE (SEE DETAIL 7.7)
- 7. REQUIRES PRE-APPROVAL BY FIRE PREVENTION EMERGENCY ACCESS OFFICER.



SPECIAL APPLICATION FOR MANUAL PUMP RELEASE APPEAL REQUIRED





# PRELIMINARY INFORMATION Phoenix-Approved Strobeswitch Gate Access System

STROBESWITCH™ is a compact low cost detector which recognizes a coded strobe light signal from special emitters mounted on fire vehicles and ambulances. The system provides an output activation of the emergency access switch. In the Phoenix-approved configuration, two detectors are used-one to sense entering emergency vehicles and another to facilitate quick exit. Both detectors are mounted on a rugged weatherproof power module that contains all additional processing circuitry. The assembly provides a dry relay closure signal to the gate operator, and requires only 24 VAC input power to operate.

#### **HOW IT WORKS:**

The emergency vehicle uses a special strobe light to transmit a continuously flashing optical signal. The TOMAR Model 2795-2 STROBESWITCH™ receives this signal, and if the signal format is correct, activates a relay. The relay contacts may be used to control security gates, fire department garage doors, and other devices. Signaling is optical by line of sight, and the 2795-2 can operate indoors or outdoors, in bright sunlight, or in any weather. The unit is not susceptible to radio frequency interference, and uses digital frequency discrimination to reject unwanted signals, such as flashlights, emergency vehicle lighting systems, flashing signs, etc.

#### **AVAILABLE FROM:**

Any **Authorized** Gate Company Licensed by the Arizona Registrar of Contractors as L-5 or C-5 License.

Refer to Yellow pages under Gates & Operating Devices

Emergency Access Officer Richard Tritch 602-256-3382 (Cell)



**Emergency Access Gate Inspector** 

602-618-0856 (Cell)