



**BUCKEYE
FIRE-MEDICAL-RESCUE
DEPARTMENT
EMERGENCY AUTOMATIC
GATE ACCESS**

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.



STEPS TO OBTAIN AUTOMATIC FIRE DEPARTMENT ACCESS GATE PERMIT

- Contact assigned Building Permit Technician.
- Electronic submission via Blue Beam.
- 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 Development Services department. At this time a minimum inspection fee will be collected.
- A **separate** electrical permit is required for each automatic gate. (An approved site plan **is not** a permit.)
- Electrical green tag must be obtained for **GATE OPERATORS** prior to final gate inspection.
- Stamped, approved plans and permit must be on site for final inspection.
- Manual gates require parking signage and either a Fire Department Knox Box 3200 or a Knox All-Weather Lock.

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.

(North Arrow)



- 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 **ENTRANCE** and **EXIT** 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.)
- Provide a WB50 auto turn exhibit
- 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, 5½ feet from grade
- The City of Buckeye approved Knox key switch shall be used for 24 hour Fire Department access. When activated, the gate will remain in the open position until deactivated 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 white 3M-diamond grade reflective sheeting (DG³ 4090 series or equivalent) applied as a background to the aluminum plates. Lettering and graphics shall be one of the following:

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 **ENTRANCE** and **EXIT** 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 fifteen seconds.
- Fail Safe Operation Battery back-up for all motorized gates is required, unless the gate fails safe (open) in the event of a power failure.
- 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.

- 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 Buckeye, Development Services Department, 350 W. Monroe Avenue, 2nd floor.
- The Electrical Site Plan must show:
 1. 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.**



**BUCKEYE FIRE-MEDICAL-
RESCUE DEPARTMENT**
Fire Prevention
Emergency Access

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 **ENTRANCE** 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 **ENTRANCE** and **EXIT** 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.**

Multi Family Preempted Automatic Gate



VIEW FROM THE PROPERTY SIDE



EQUIPMENT PROTECTION BOLLARD

REQUIRES

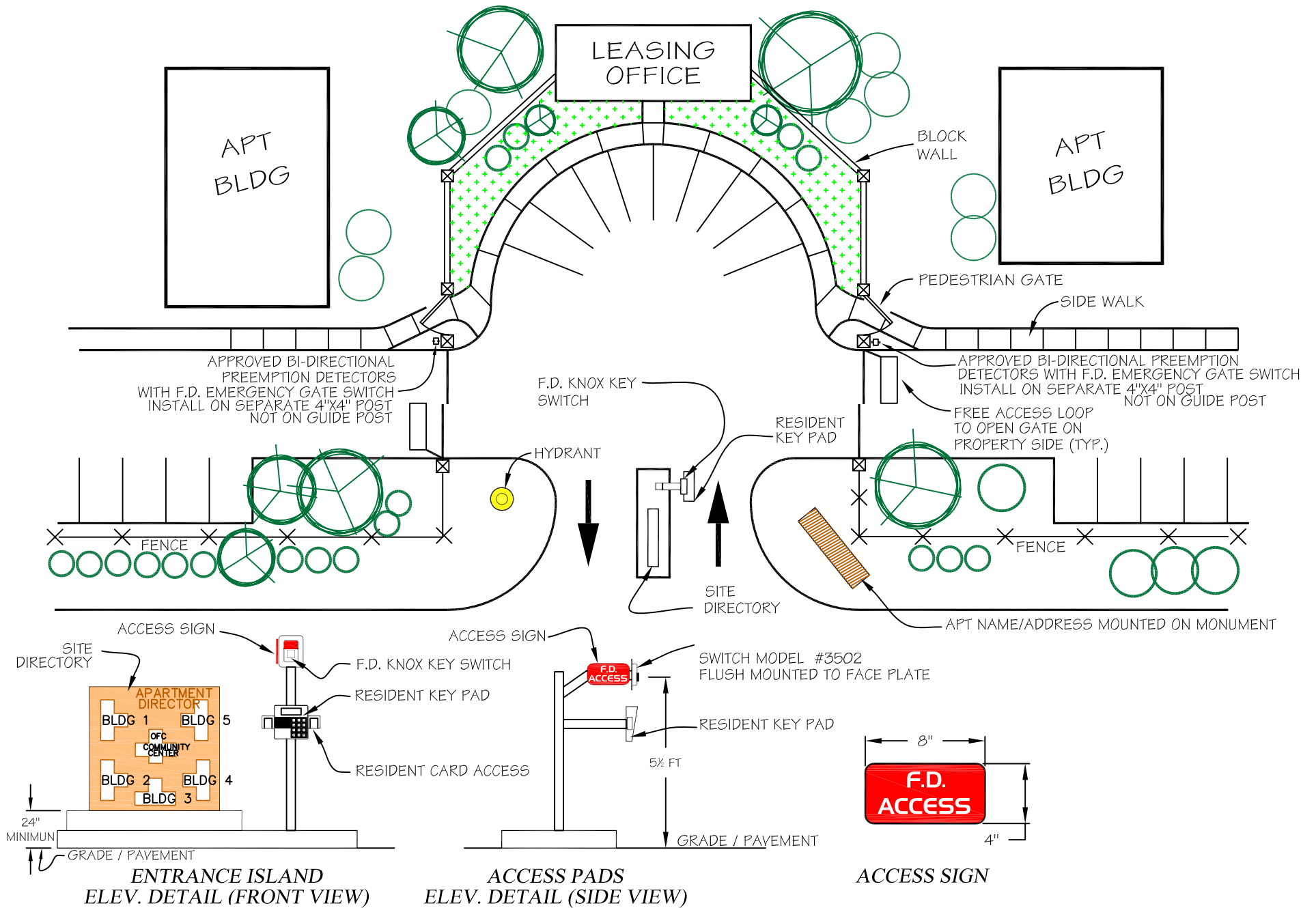
PERMIT

NOTES:

- 1** DETECTORS SHALL BE MOUNTED ON 4" X 4" POST 8FT TO 10 FT FROM GRADE
- 2** FIRE DEPT. APPROVED DUAL STROBE SWITCH DETECTOR MODEL 2795-2
- 3** F.D. APPROVED KNOX KEY SWITCH MODEL #3000 FLUSH MOUNTED IN 4" X 4" POST

CALL THE CITY OF BUCKEYE
FIRE PREVENTION DIVISION
FOR QUESTIONS OR ASSISTANCE
623-349-6700

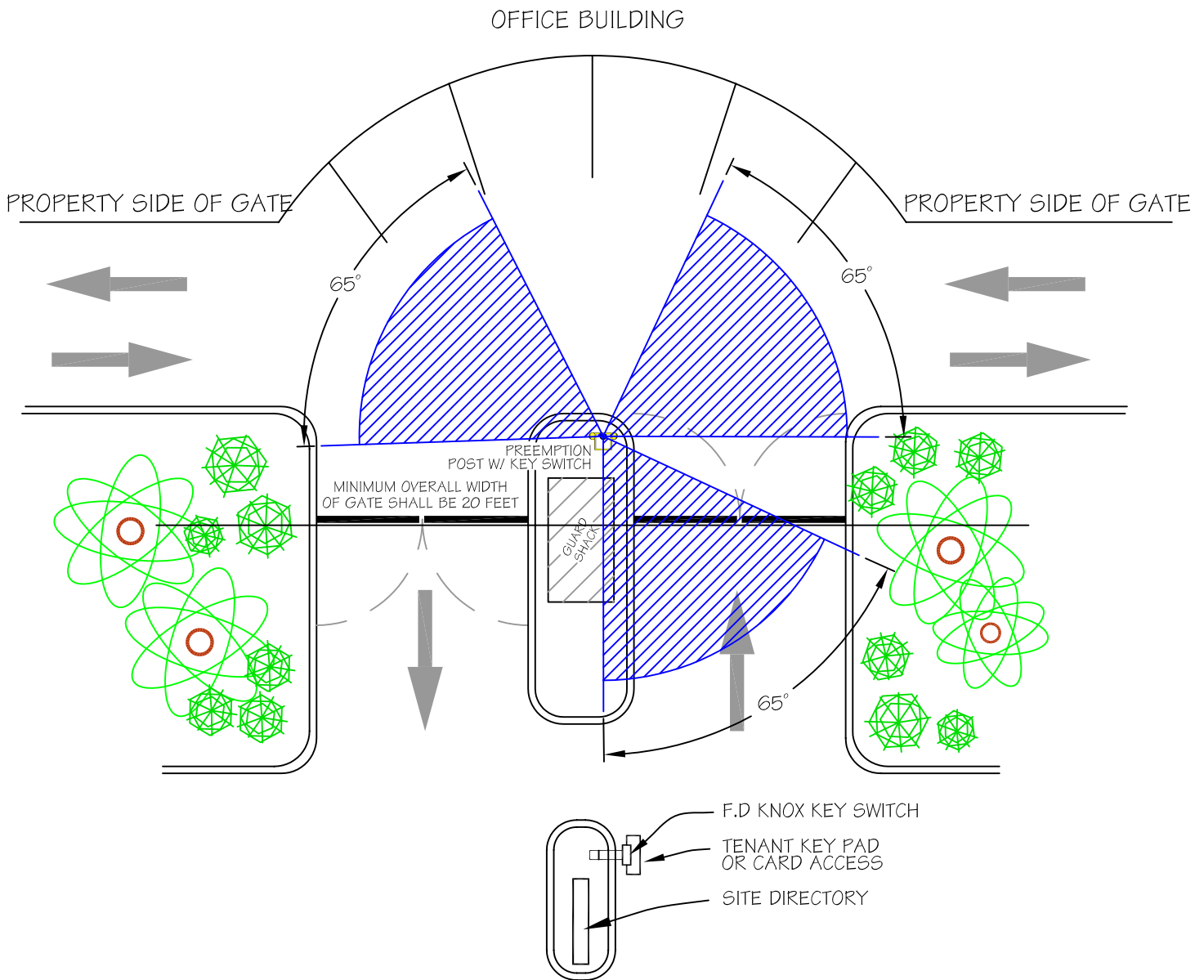
Typical Entrance to Multiple Residential Community with Automatic Gates



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 623-349-6700

REQUIRES PERMIT

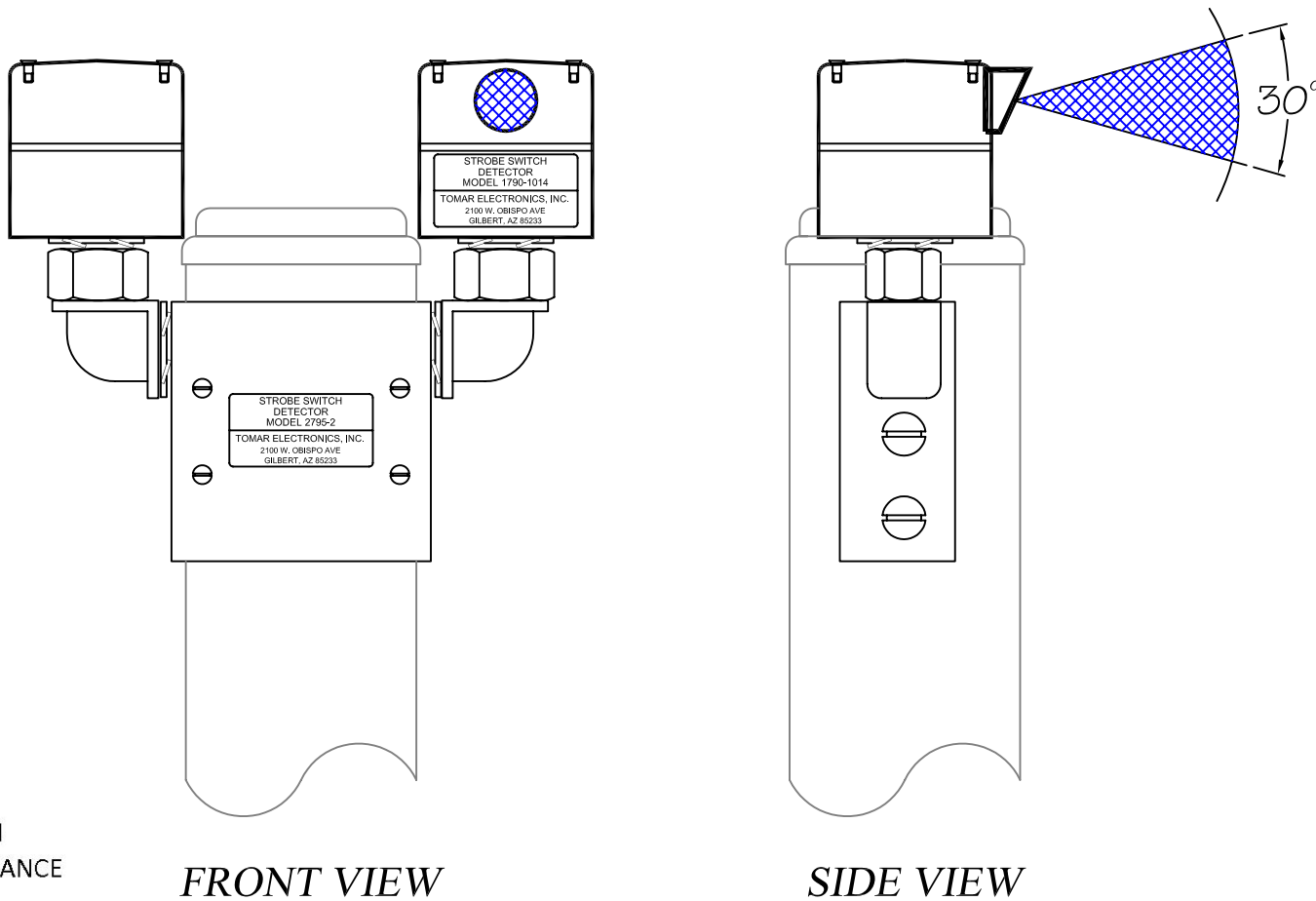
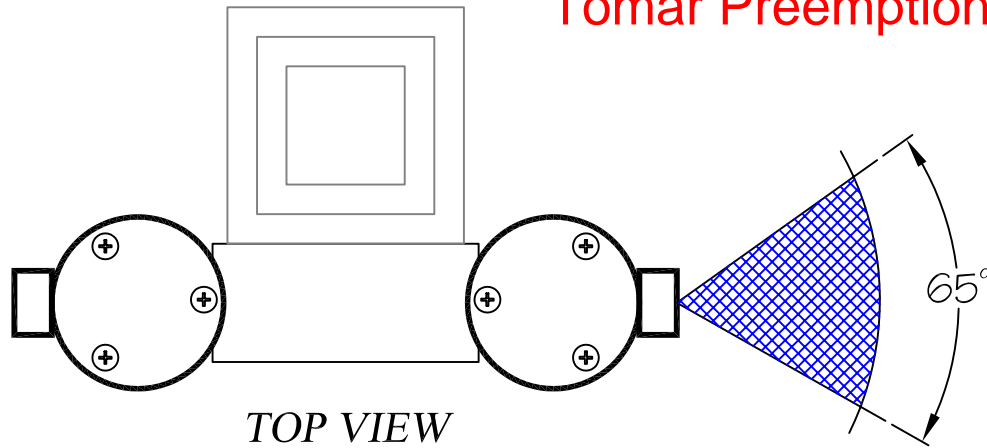
TOMAR MODEL 2795-3



NOTES:

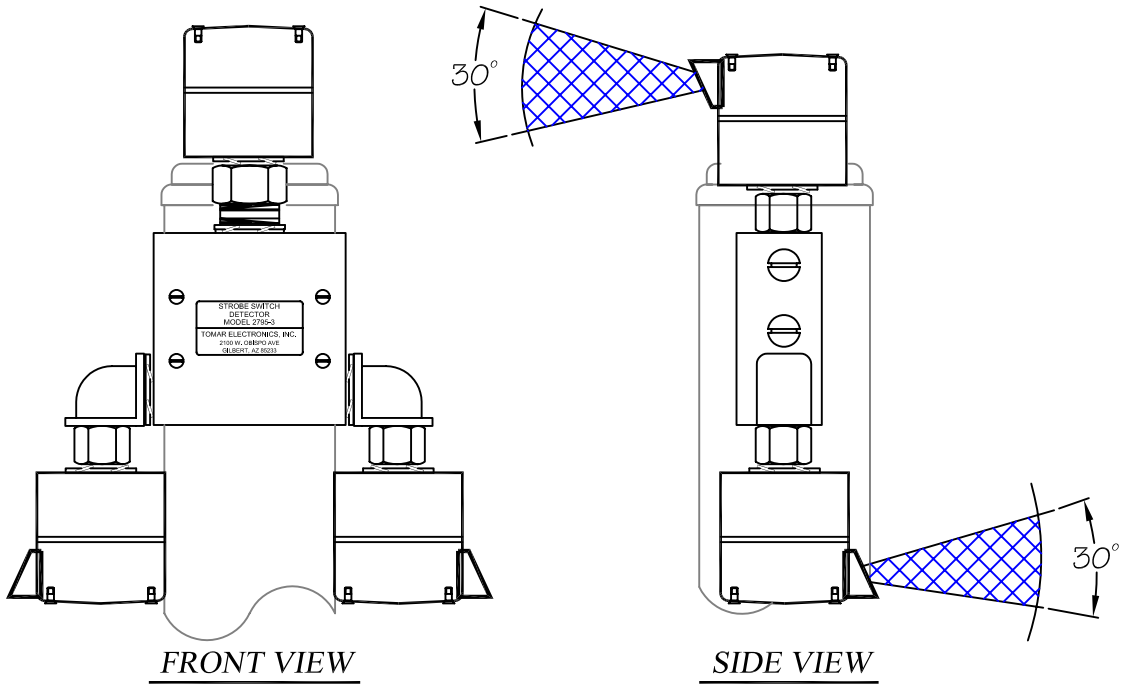
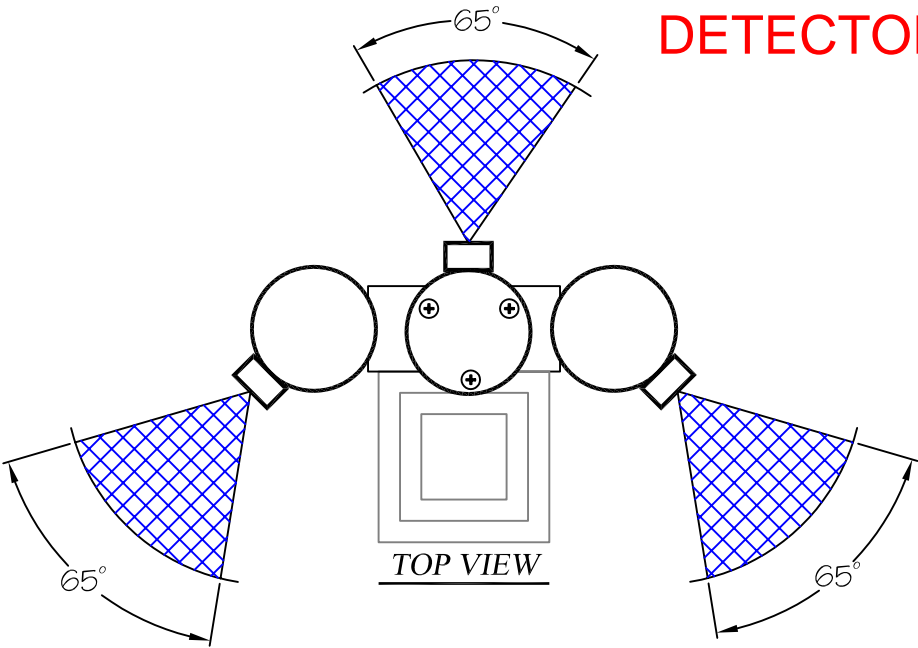
1. DETECTORS SHALL BE MOUNTED 8 TO 10 FEET FROM GRADE ON A 4" X 4" METAL POST. NO MIRRORS SHALL SUBSTITUTE THE REQUIREMENTS OF TWO DETECTORS PER GATE.
2. DETECTORS SHALL POINT TOWARD THE APPROACH PATH AND EXIT PATH OF THE EMERGENCY VEHICLES. DETECTORS MUST ACTIVATE 150 FEET FROM GATE.
3. THE POWER MODULE 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.

Tomar Preemption Detector - Model 2795-2



CALL THE CITY OF BUCKEYE
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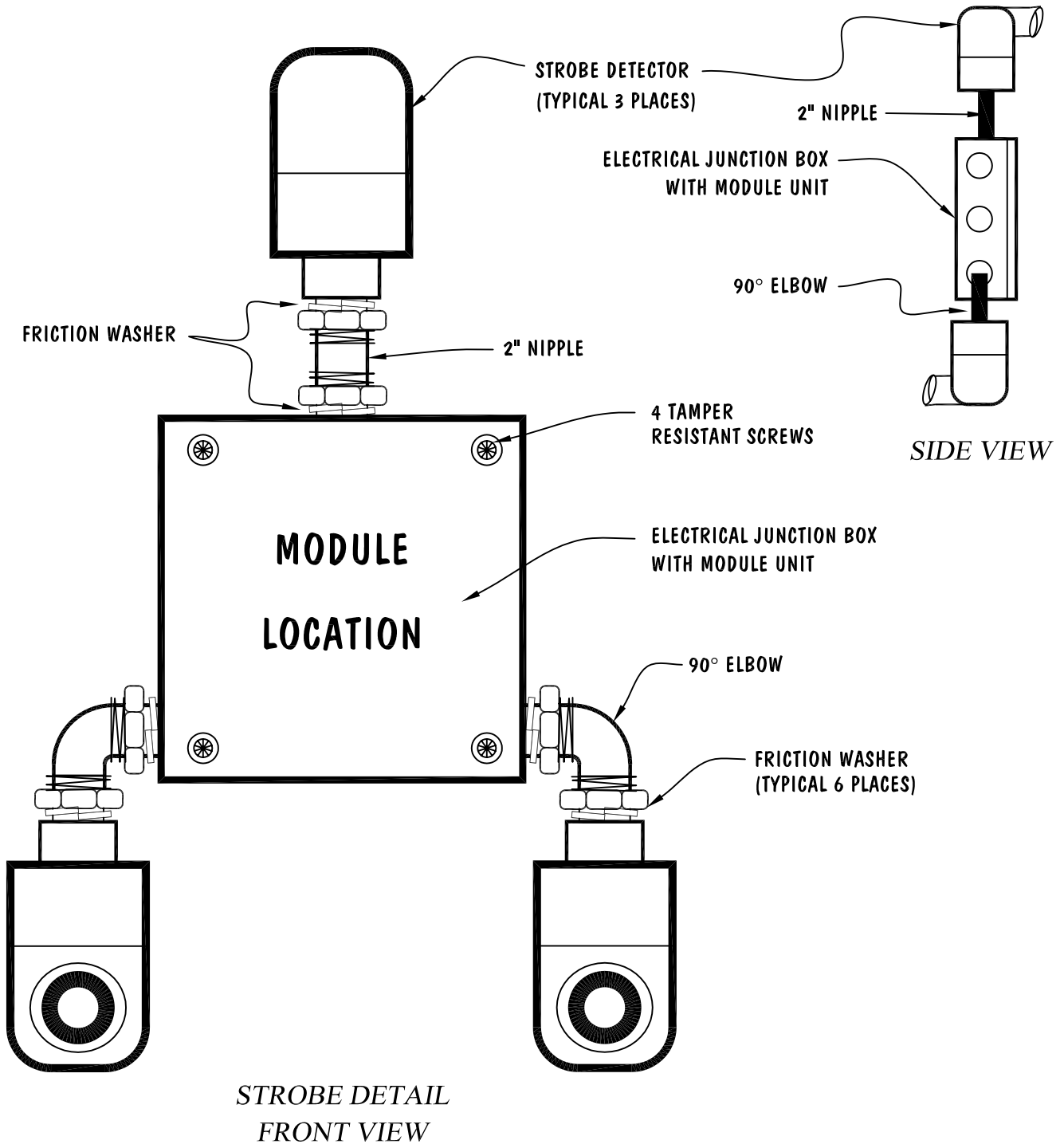
TOMAR PREEMPTION DETECTOR - MODEL 2795-3



NOTE:

3 HEADS ARE REQUIRED WITH 90° TURNING LAYOUTS

Automatic Gate Strobe Detail



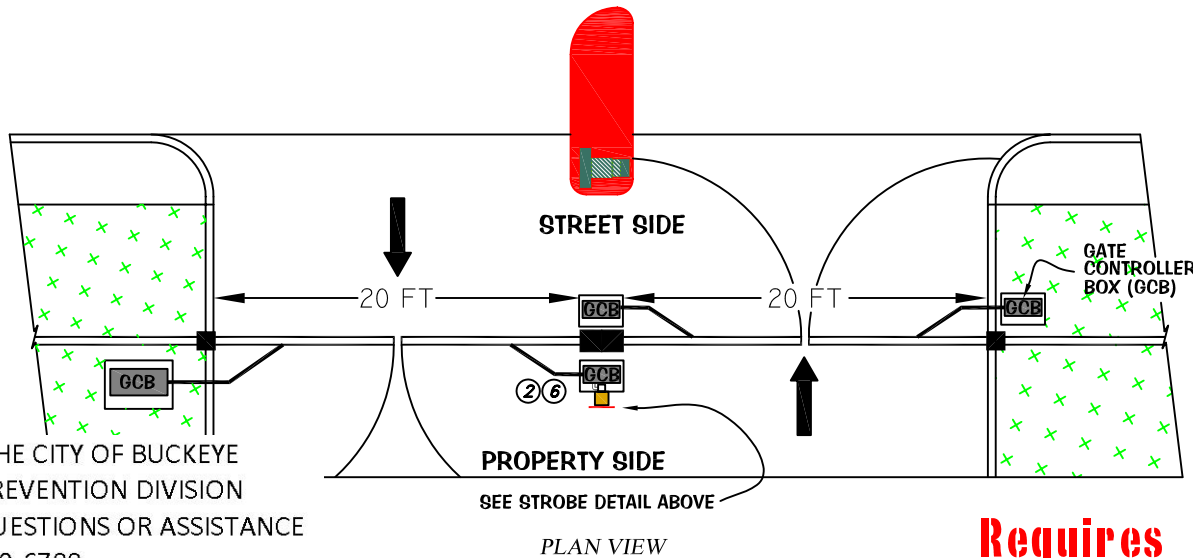
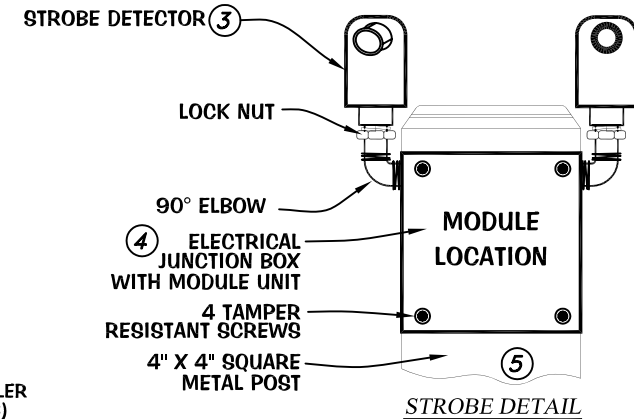
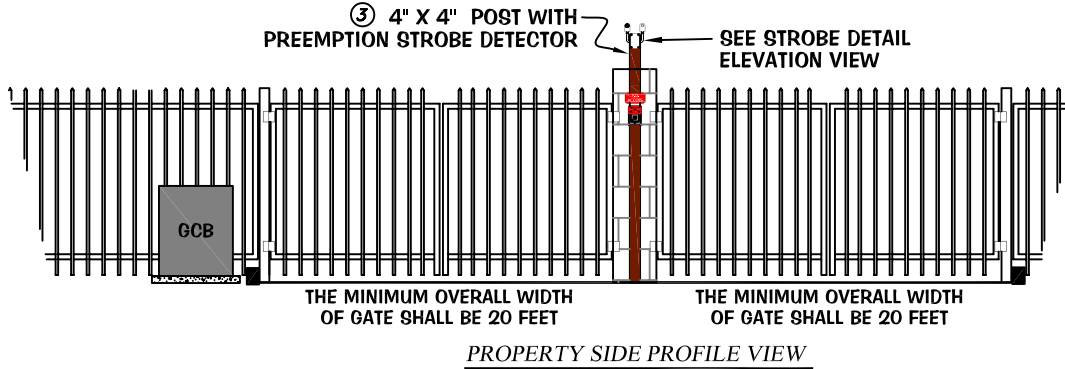
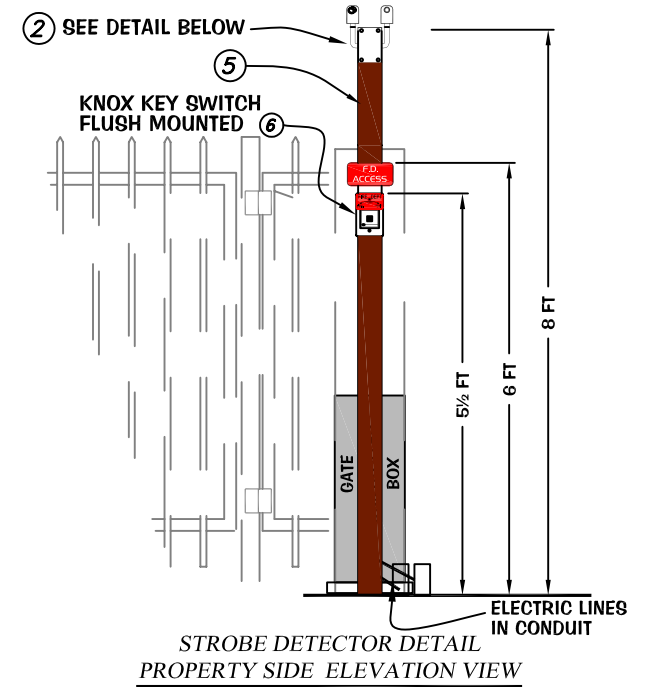
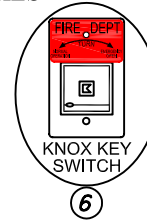
NOTE:

3 HEADS ARE REQUIRED WITH 90° TURNING LAYOUTS.

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

NOTES:

- 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.
- ③ DETECTORS SHALL POINT TOWARD THE APPROACH PATH AND EXIT PATH OF THE EMERGENCY VEHICLES. DETECTORS MUST ACTIVATE WITHIN 150 FEET FROM GATE.
- ④ 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.
- ⑥ 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.



**Approved Automatic
Vehicle Access Gate**

Requires Permit

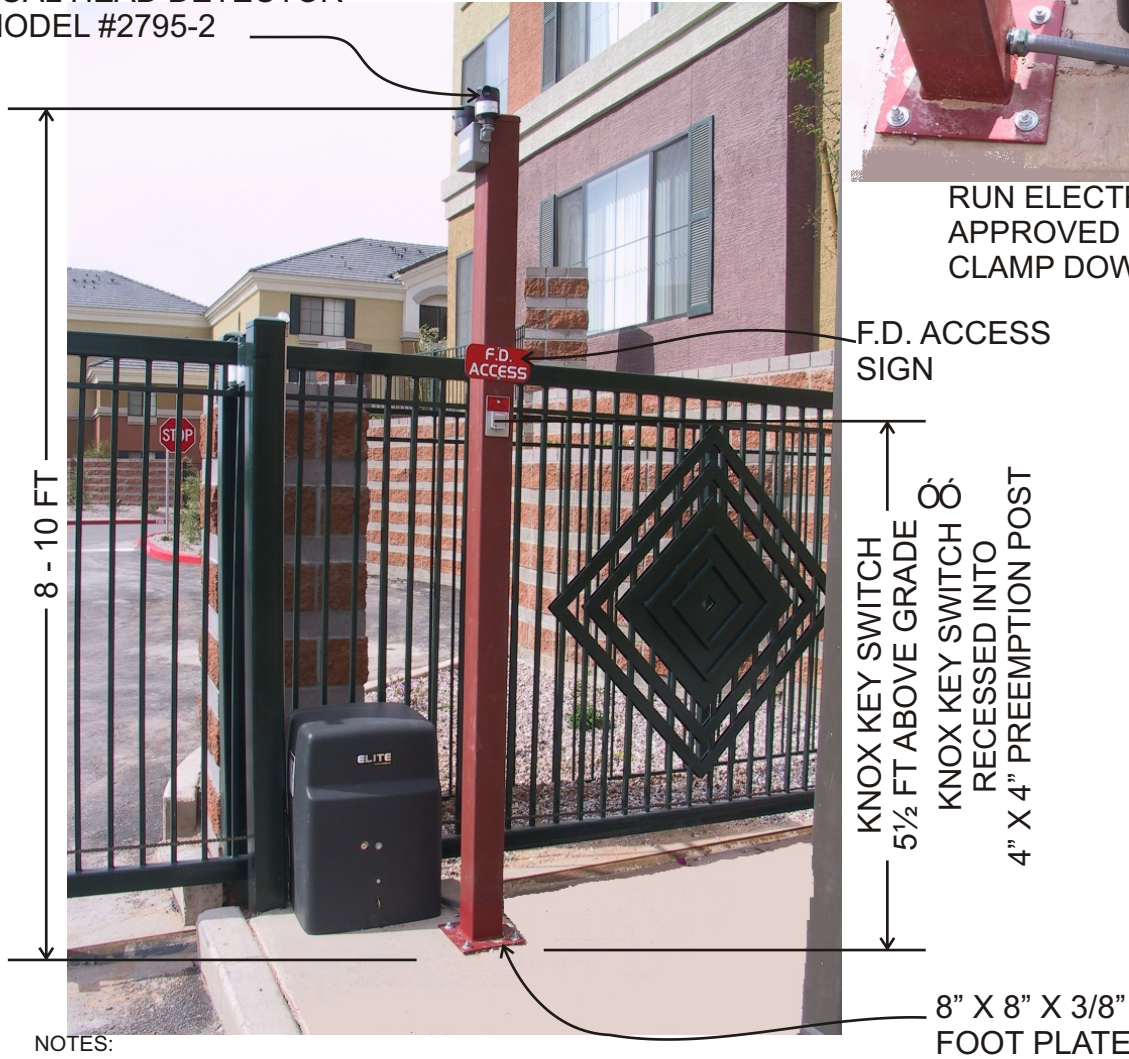
CALL THE CITY OF BUCKEYE
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FOR QUESTIONS OR ASSISTANCE
623-349-6700

FOOT PLATE DESIGN IS ONLY FOR PRE-EXISTING PROPERTIES THAT UPDATE WITH PREEMPTION.

APPROVED TOMAR PREEMPTION DUAL HEAD DETECTOR MODEL #2795-2



RUN ELECTRICAL IN APPROVED CONDUIT, CLAMP DOWN TO SECURE.



NOTES:

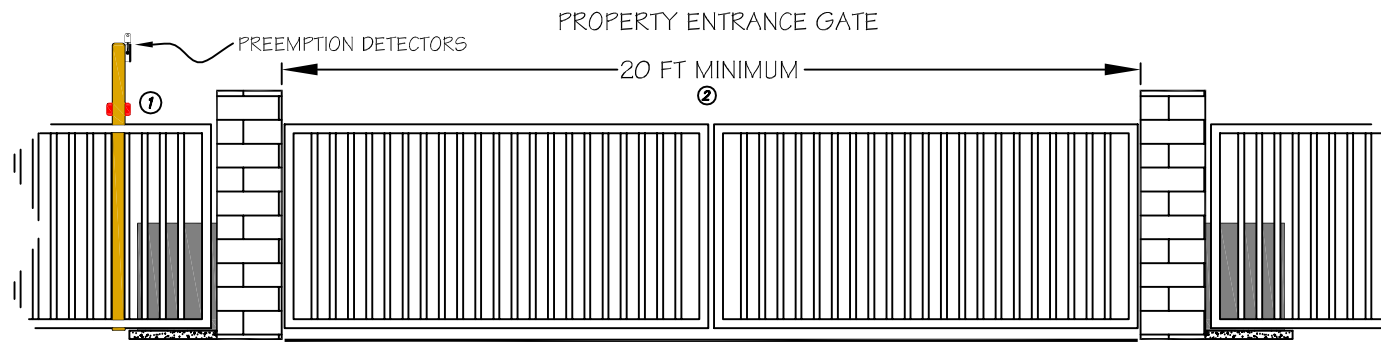
1. EACH AUTOMATIC GATE SHALL HAVE 2 DETECTORS.
2. DETECTORS SHALL BE MOUNTED 8 TO 10 FEET FROM GRADE ON A 4" X 4" METAL POST. NO MIRRORS SHALL SUBSTITUTE THE REQUIREMENTS OF 2 DETECTORS PER GATE.
3. DETECTORS SHALL POINT TOWARD THE APPROACH PATH AND EXIT PATH OF EMERGENCY VEHICLES. DETECTORS MUST ACTIVATE WITHIN 150 FEET FROM GATE.
4. 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 AT WWW.KNOXBOX.COM

At www.knoxbox.com the Fire Department Agency Name is: **Buckeye Fire Dept – BUCKEYE, AZ**

CALL THE CITY OF BUCKEYE FIRE PREVENTION DIVISION FOR QUESTIONS OR ASSISTANCE 623-349-6700

Special Application for Retro Fitting with Preemption

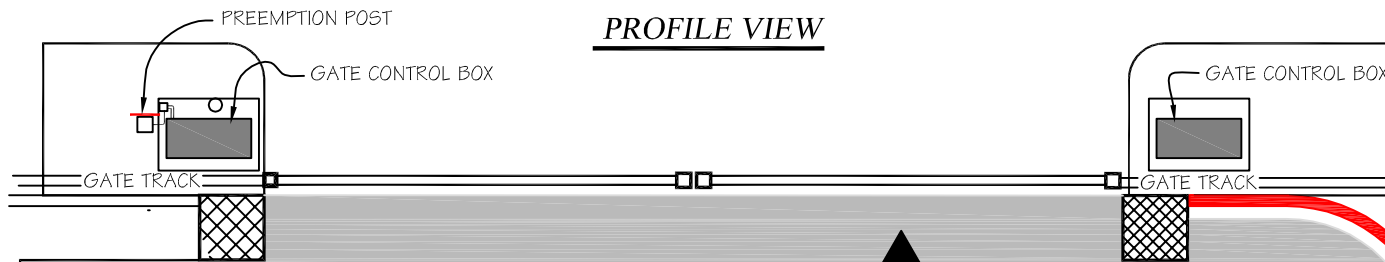
Retro Fitting Existing Property w/ Auto Gate & Guest Pullout Lane Plus Preemption Detectors



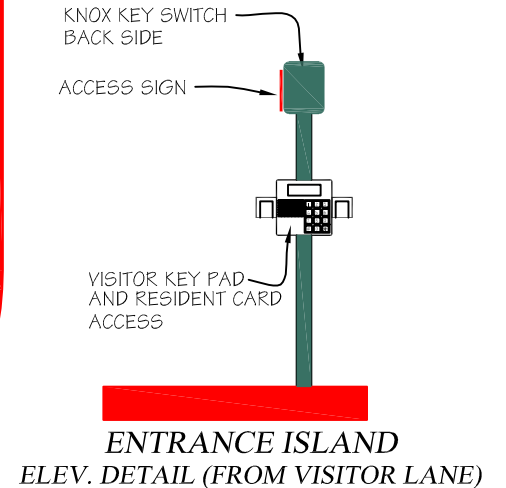
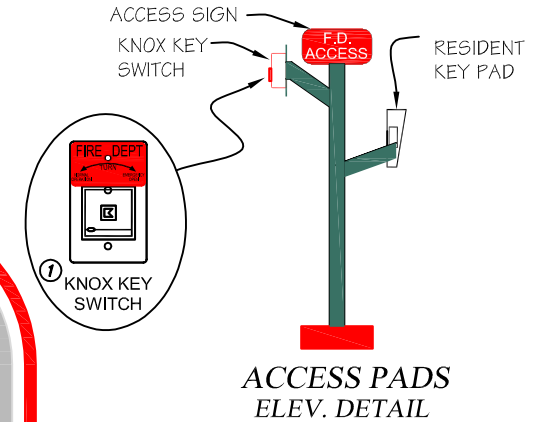
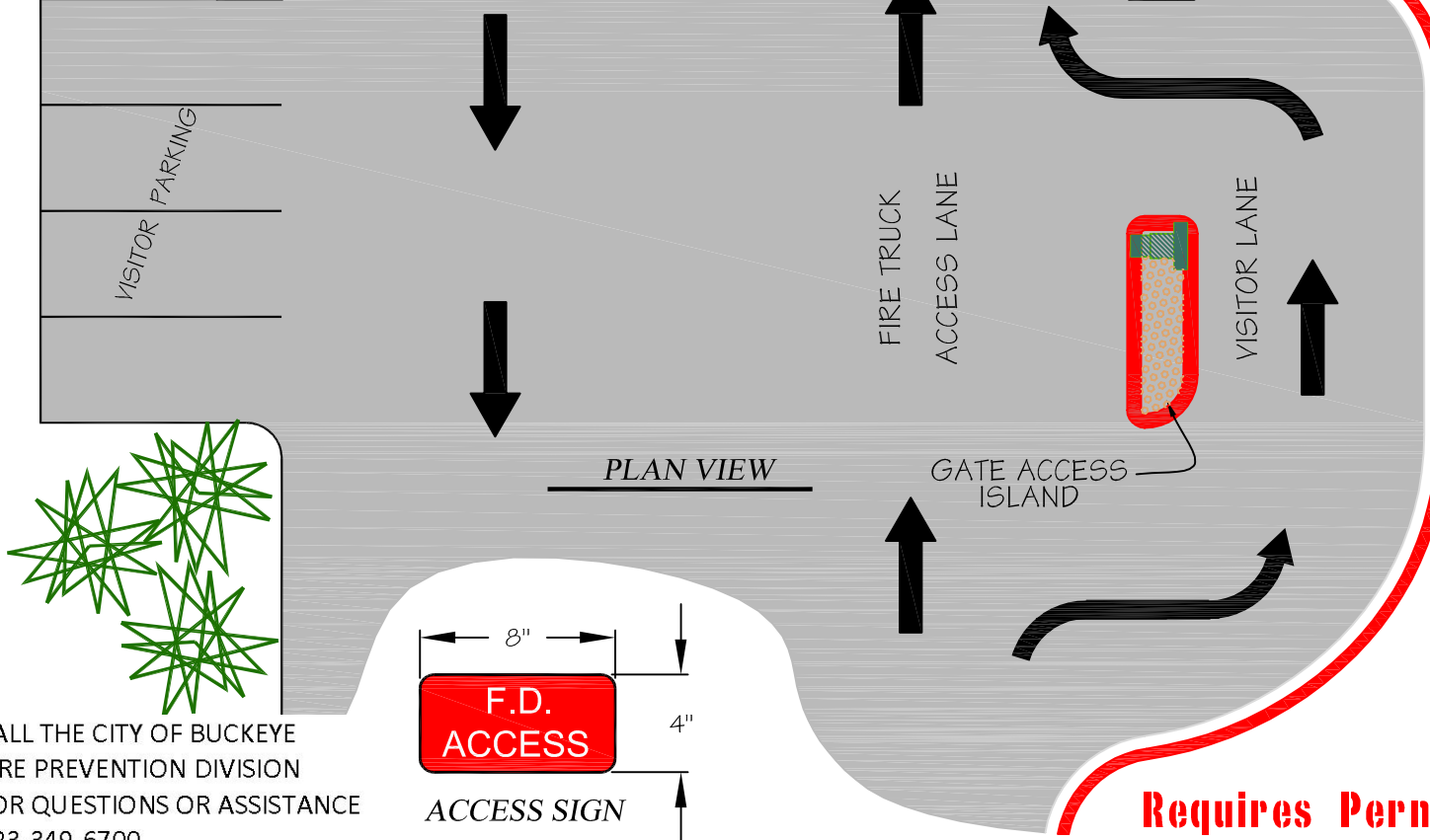
NOTES

- ① PROVIDE AN APPROVED KNOX KEY SWITCH MODEL #3502 ON GUEST KEY PAD PEDESTAL AT THE ENTRANCE AND KNOX KEY SWITCH ON PREEMPTION POST ON PROPERTY SIDE BOTH INSTALLED 5 1/2 FT ABOVE GRADE.
- ② THE MINIMUM OVERALL WIDTH OF THE GATE OPENING SHALL BE 20 FT. NOTICE LARGER OPENINGS IS PREFERRED, IF POSSIBLE.
- ③ ORDER FORMS FOR KNOX KEY SWITCH ARE AVAILABLE AT WWW.KNOXBOX.COM

PROFILE VIEW



PLAN VIEW



At www.knoxbox.com the
Fire Department Agency Name is:
Buckeye Fire Dept – BUCKEYE, AZ

CALL THE CITY OF BUCKEYE
FIRE PREVENTION DIVISION
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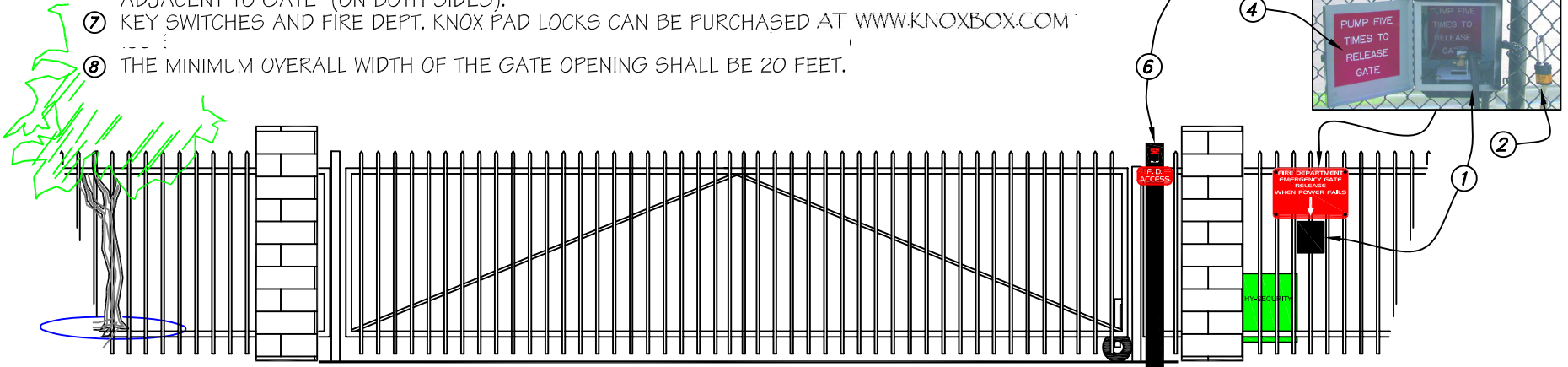
Requires Permit.

AUTOMATIC GATE WITHOUT BATTERY BACKUP

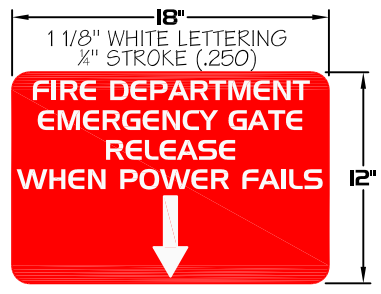
At www.knoxbox.com the
Fire Department Agency Name is:
Buckeye Fire Dept – BUCKEYE, AZ

NOTES:

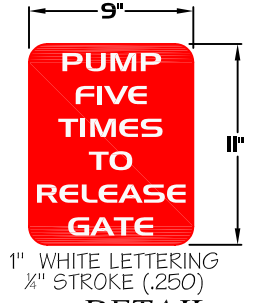
- ① GATE RELEASE PUMP TO BE ACCESSIBLE FROM BOTH SIDES OF GATE, 3 FEET FROM GATE.
- ② LOCK CABINET DOORS WITH KNOX PADLOCK, ONE FOR EACH DOOR.
- ③ LOCATE EMERGENCY GATE RELEASE SIGN ABOVE PUMP BOX, ON BOTH SIDES OF GATE.
- ④ LOCATE PUMP SIGN ON INSIDE OF PUMP BOX DOORS.
- ⑤ ALL RESIDENTIAL PROPERTIES 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 FIRE DEPT. KNOX PAD LOCKS CAN BE PURCHASED AT WWW.KNOXBOX.COM
- ⑧ THE MINIMUM OVERALL WIDTH OF THE GATE OPENING SHALL BE 20 FEET.



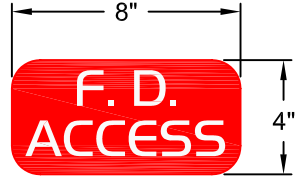
PROFILE VIEW



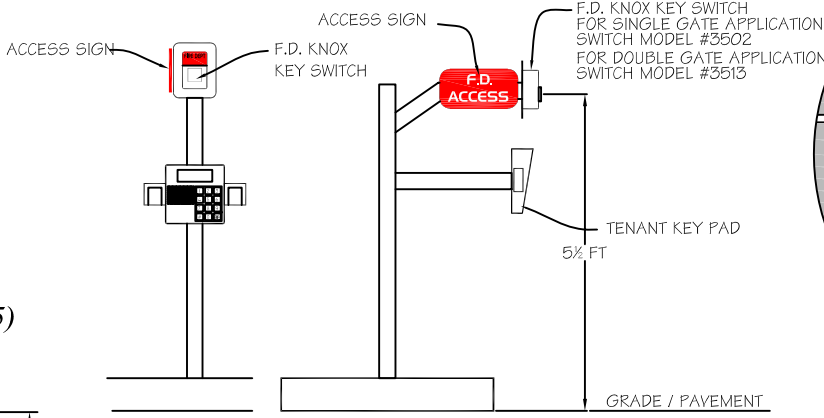
③ **DETAIL**
GATE RELEASE
(SEE DETAIL 7.15)



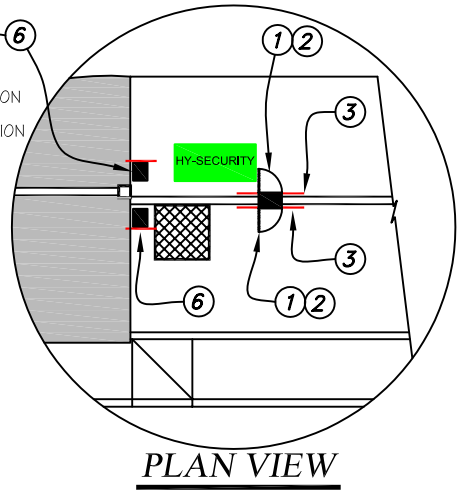
④ **DETAIL**
PUMP SIGN
(SEE DETAIL 7.15)



ACCESS SIGN DETAIL
(REFER TO APPROVED PFD ACCESS DETAIL)



⑤ **DETAIL**
PEDESTAL KEY SWITCH



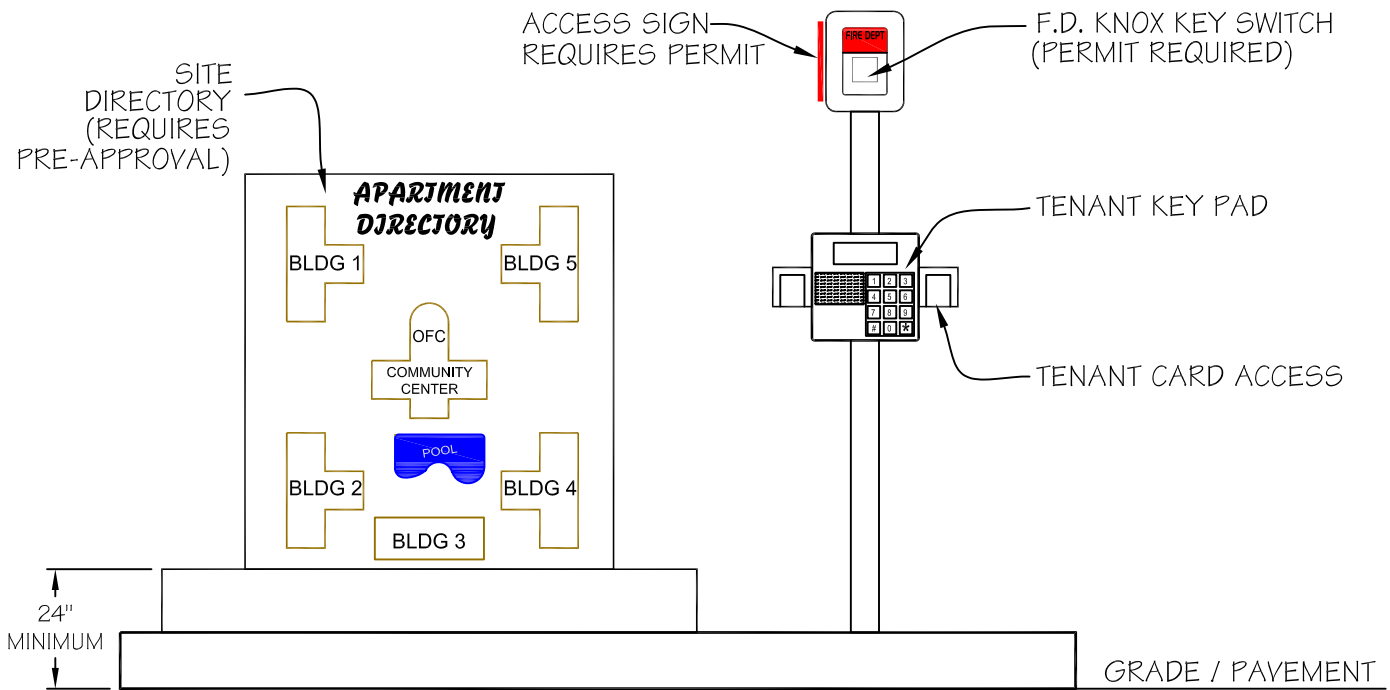
PLAN VIEW

CALL THE CITY OF BUCKEYE
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623-349-6700

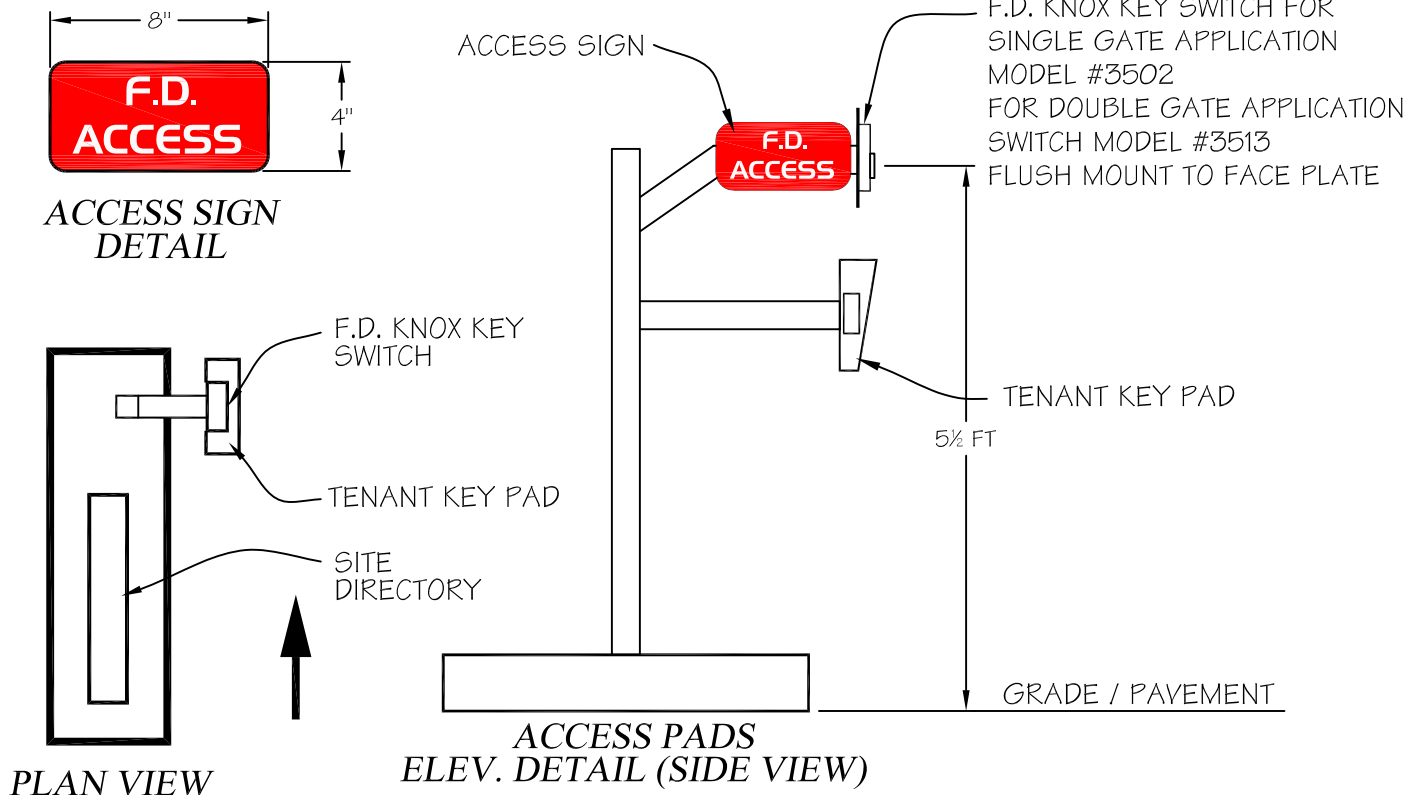
APPEAL REQUIRED

HY-Security Operator
Manual Pump Release

Entrance Island Details to Residential Community with Automatic Gates



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



NOTES:

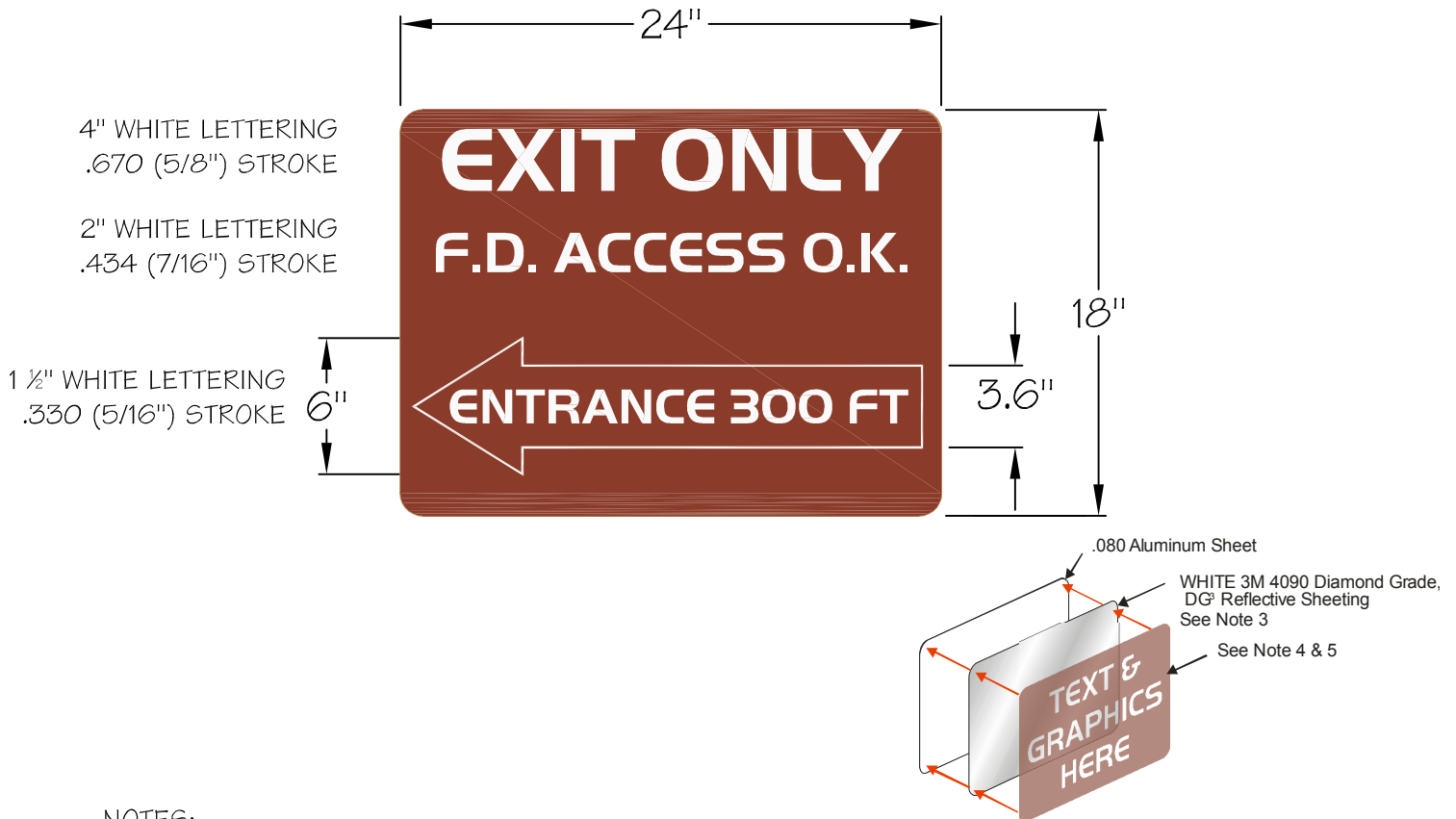
1. MUST HAVE AN ORIGINAL ORDER FORM AND FIRE DEPT. GATE PERMIT TO PURCHASE KEY SWITCH.
2. ORDER FORMS FOR KNOX KEY SWITCHES ARE AVAILABLE AT WWW.KNOXBOX.COM

Permit Required

At www.knoxbox.com the
Fire Department Agency Name is:
Buckeye Fire Dept – BUCKEYE, AZ

CALL THE CITY OF BUCKEYE
FIRE PREVENTION DIVISION
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623-349-6700

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



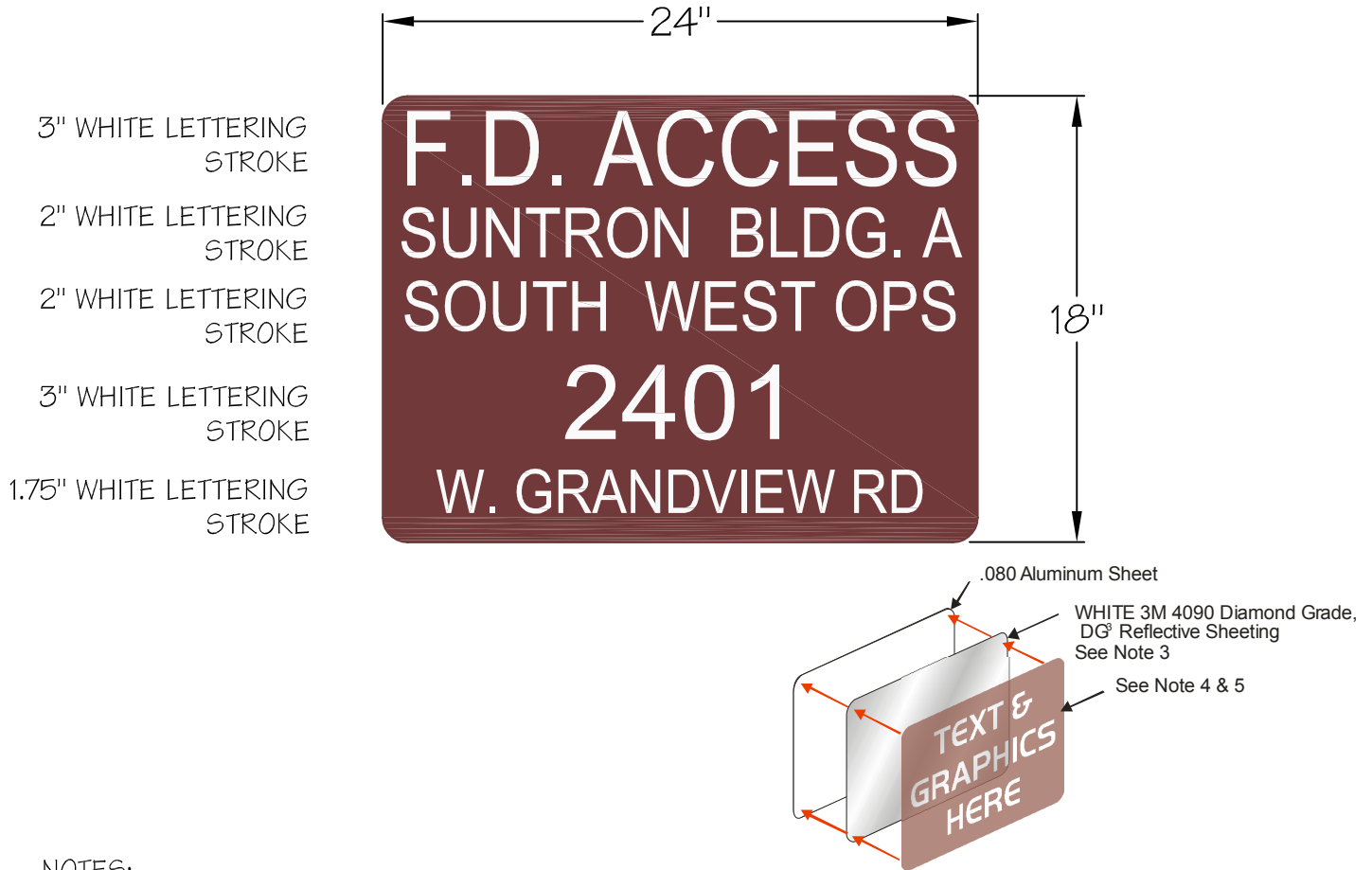
NOTES:

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 CITY OF BUCKEYE FIRE PREVENTION DIVISION.

CALL THE CITY OF BUCKEYE
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623-349-6700

**SPECIAL APPLICATION:
Fire Department Access Gate Sign**

*SPECIAL FIRE DEPARTMENT
ACCESS O.K. SIGN*

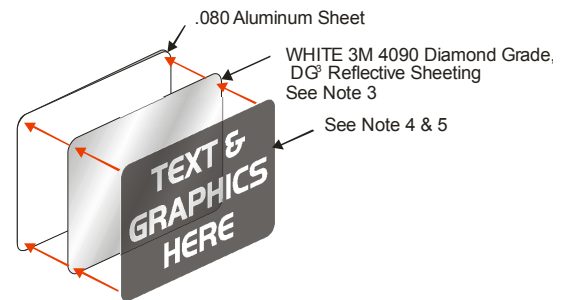
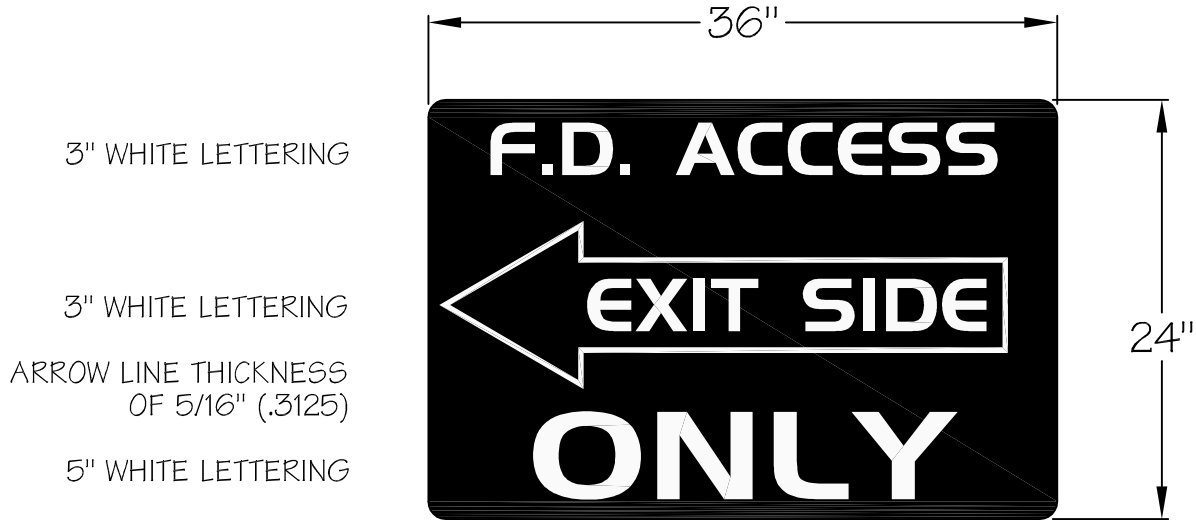


NOTES:

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.
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 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 MANUFACTURERS 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 CITY OF BUCKEYE FIRE PREVENTION DIVISION.

**SPECIAL APPLICATION:
Fire Department Access Gate Sign**

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



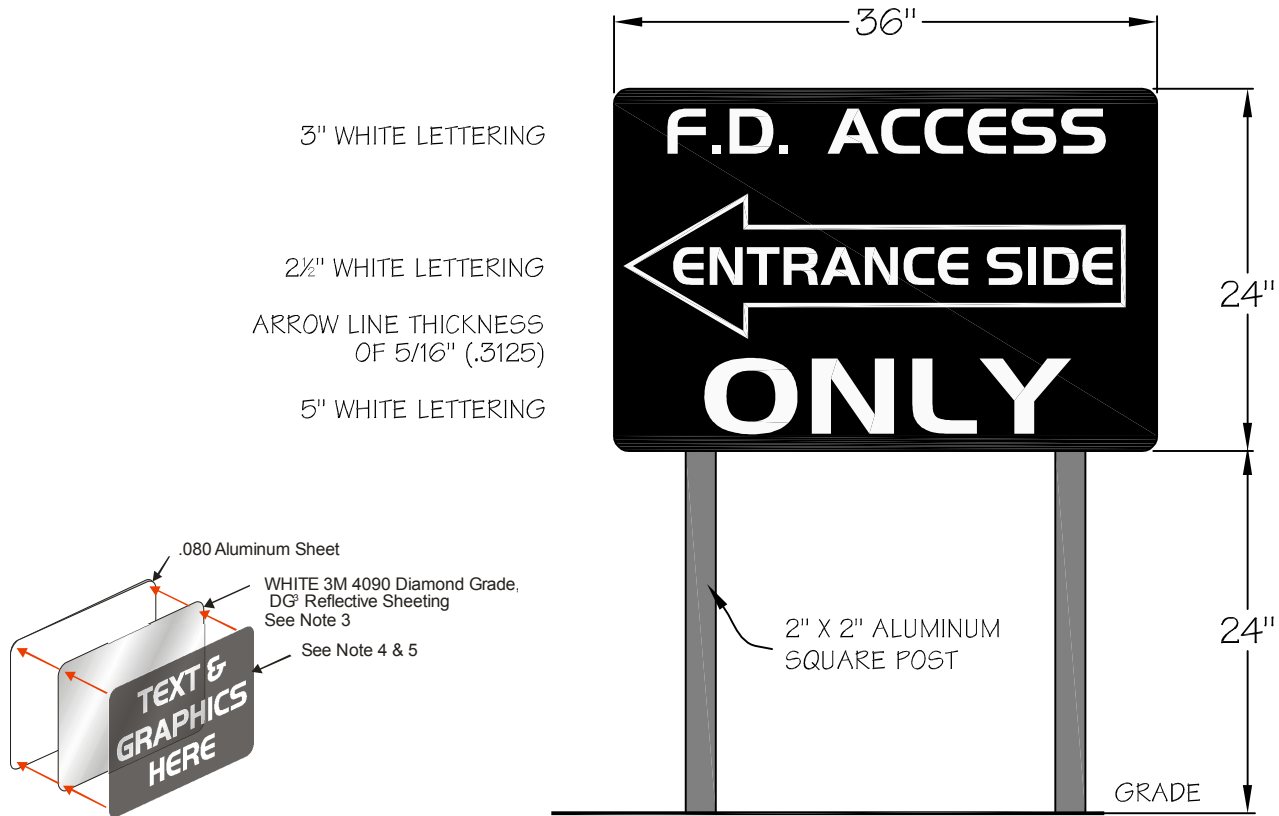
NOTES:

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 CITY OF BUCKEYE FIRE PREVENTION DIVISION.

**SPECIAL APPLICATION:
Fire Department Directional
Sign for Vehicle Access**

CALL THE CITY OF BUCKEYE
FIRE PREVENTION DIVISION
FOR QUESTIONS OR ASSISTANCE
623-349-6700

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



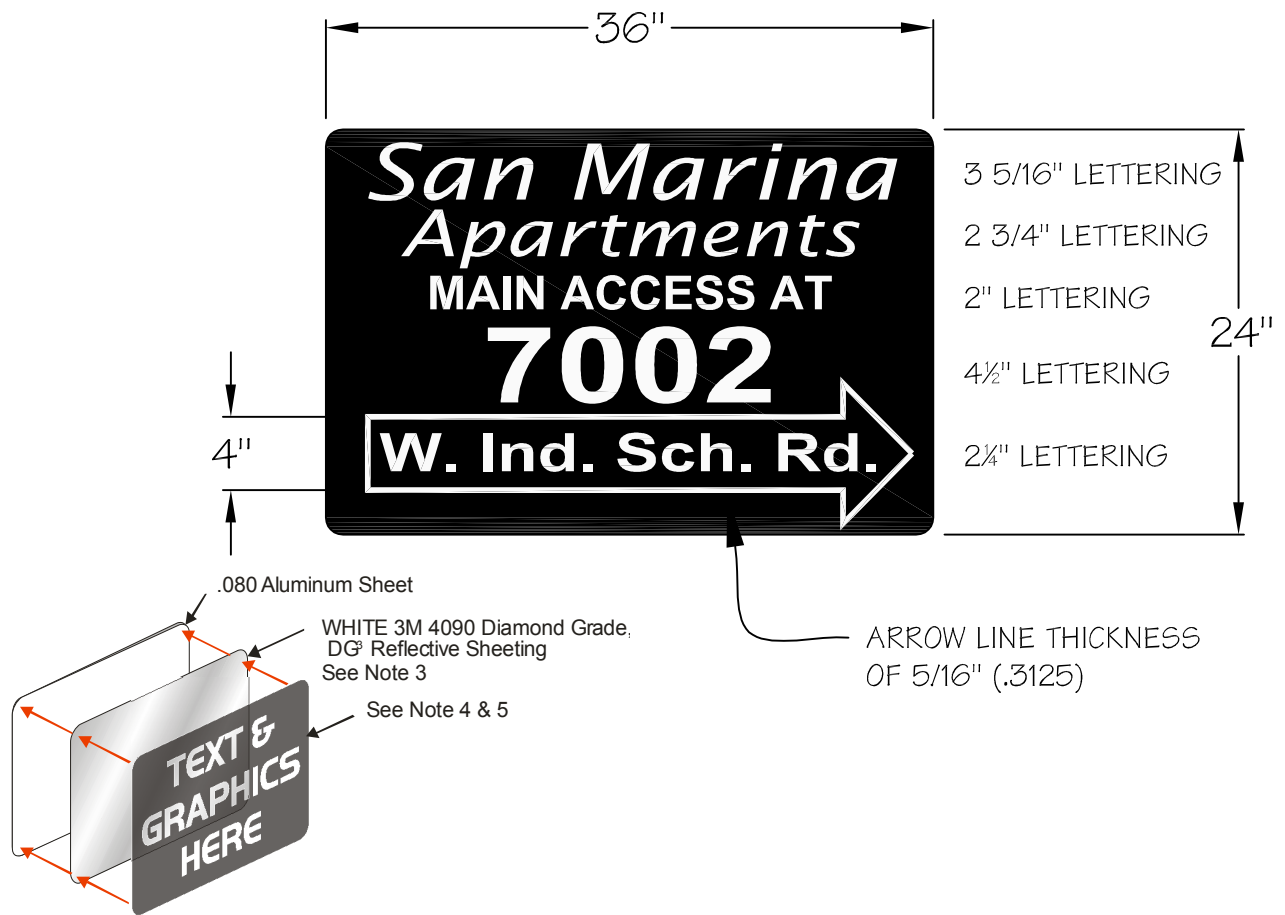
NOTES:

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.
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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 CITY OF BUCKEYE FIRE PREVENTION DIVISION.



**SPECIAL APPLICATIONS:
Fire Department Directional
Sign for Vehicle Access**

CALL THE CITY OF BUCKEYE
FIRE PREVENTION DIVISION
FOR QUESTIONS OR ASSISTANCE
623-349-6700



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 NAME OF THE APARTMENT OR BUSINESS COMPLEX AND THE LOCATION OF THE MAIN ACCESS ENTRANCE.
7. REQUIRES PRE-APPROVAL BY CITY OF BUCKEYE FIRE PREVENTION DIVISION.

**SPECIAL APPLICATION:
Manual Gate Application
F.D. Access Directional Sign**

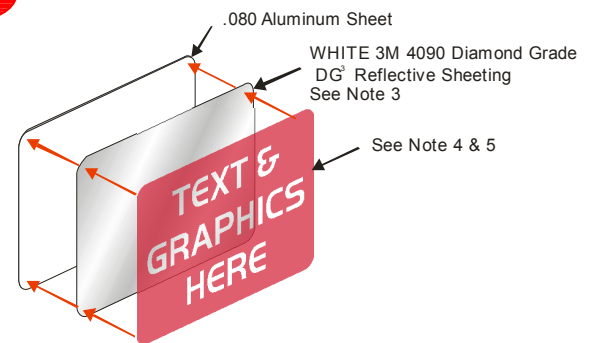
SPECIAL FIRE DEPARTMENT ACCESS SIGN



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

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

1.75" (1 3/4") LETTERING
.375" STROKE



NOTES:

1. THE SIGN FACE SHALL BE 24" X 18" AND FABRICATED FROM .080 ALUMINUM SHEET WITH 1/2" 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 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. REQUIRES PRE-APPROVAL BY CITY OF BUCKEYE FIRE PREVENTION DIVISION.

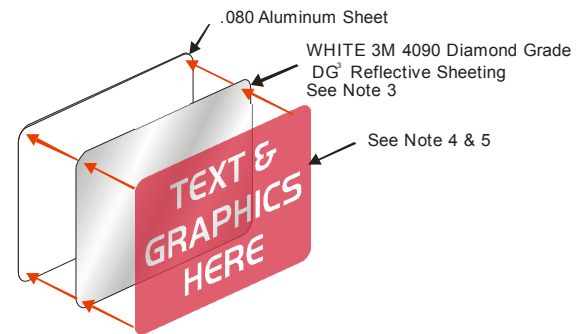
FOR PORTE COCHERE APPLICATIONS



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

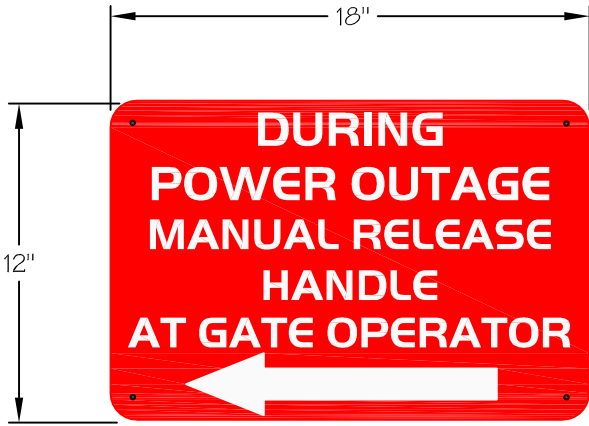
4.5" (4 1/2") LETTERING
1" STROKE

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

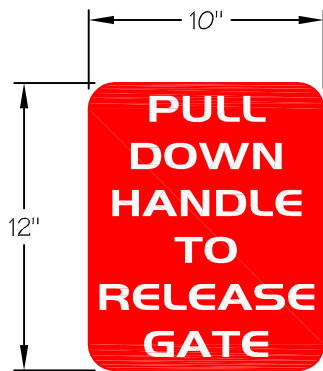
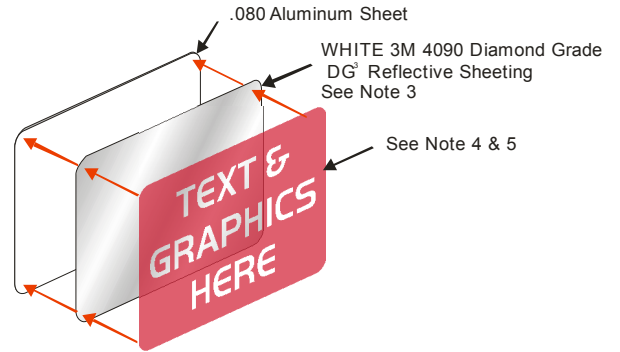


NOTES:

1. THE SIGN FACE SHALL BE 48" X 24" AND FABRICATED FROM .080 ALUMINUM SHEET WITH 1/2" 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 (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 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. REQUIRES PRE-APPROVAL BY CITY OF BUCKEYE FIRE PREVENTION DIVISION.



- 1.25" (1 ¼") LETTERING, ¼" STROKE
- 1.25" (1 ¼") LETTERING, ¼" STROKE
- 1.125" (1 1/8") LETTERING, ¼" STROKE
- 1.125" (1 1/8") LETTERING, ¼" STROKE
- 1.125" (1 1/8") LETTERING, ¼" STROKE



- 1.125" (1 1/8") WHITE LETTERING
- ¼" STROKE (.250)

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 (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 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 CITY OF BUCKEYE FIRE PREVENTION DIVISION.

SPECIAL APPLICATION:
Access Sign
APPEAL REQUIRED



TOMAR ELECTRONICS, INC.
MODEL 2795-2
DUAL STROBESWITCH DETECTOR
BUCKEYE APPLICATION

PRELIMINARY INFORMATION

Buckeye-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 Buckeye-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 or search the internet for:
Gates & Operating Devices



Buckeye Fire-Medical-Rescue Department
Fire Prevention Division
21699 W. Yuma Road, Suite 101
Buckeye, AZ 85326
(623) 349-6759