



# **CHAPTER TWO**

## **Fire Lanes and Fire Access**

### Contents:

- Fire Access Plan Submittal Requirements
- Fire Lane Signs and Installations
- Alternative Fire Lane Signs
- Fire Lane Identification (Red Painted Curbs)
- Alternative Surface Fire Apparatus Roads
- Blue Reflective Markers

### Purpose:

Proper fire lanes directly affect how the Fire Department is able to maneuver through a property. These fire lane standards help to ensure unimpeded access for the fire apparatus.



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## ACCESS REQUIREMENTS FOR NEW CONSTRUCTION SITES

See **Chapter 1-8: Access Requirements for New Construction Sites** for details and specifications. Consult with your Fire Inspector/Marshal to answer any questions you may have regarding access requirements during any phase of construction.

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### FIRE LANE SIGNS

When required, approved signs, curb markings or other approved notices shall be provided for Fire Apparatus Access Roads. Their location should be shown on the approved plans. If fire lane signs are not shown, please consult with your Fire Inspector/Marshal for assistance in determining sign locations.

All signs are to be installed perpendicular to the road and facing the direction of travel and may be required to be double sided.

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### FIRE ACCESS PLAN SUBMITTAL REQUIREMENTS

Two (2) 24 x 36 copies of SITE PLAN or FINAL PLAT showing the location of the following items shall be submitted for review and approval at time of initial building plan submittals.

- Project name and location
- Property lines and construction area
- Cross streets and intersections
- Emergency vehicle access sign location
- A minimum of one (1) point of access
- Access road with a minimum width of 20 feet and a minimum vertical clearance of 13 feet 6 inches
- Turning radius shall meet LAFD Truck 1 apparatus specifications
- A minimum of one (1) approved fire hydrant capable of supplying the required fire flow within 500 feet travel distance of all combustibles

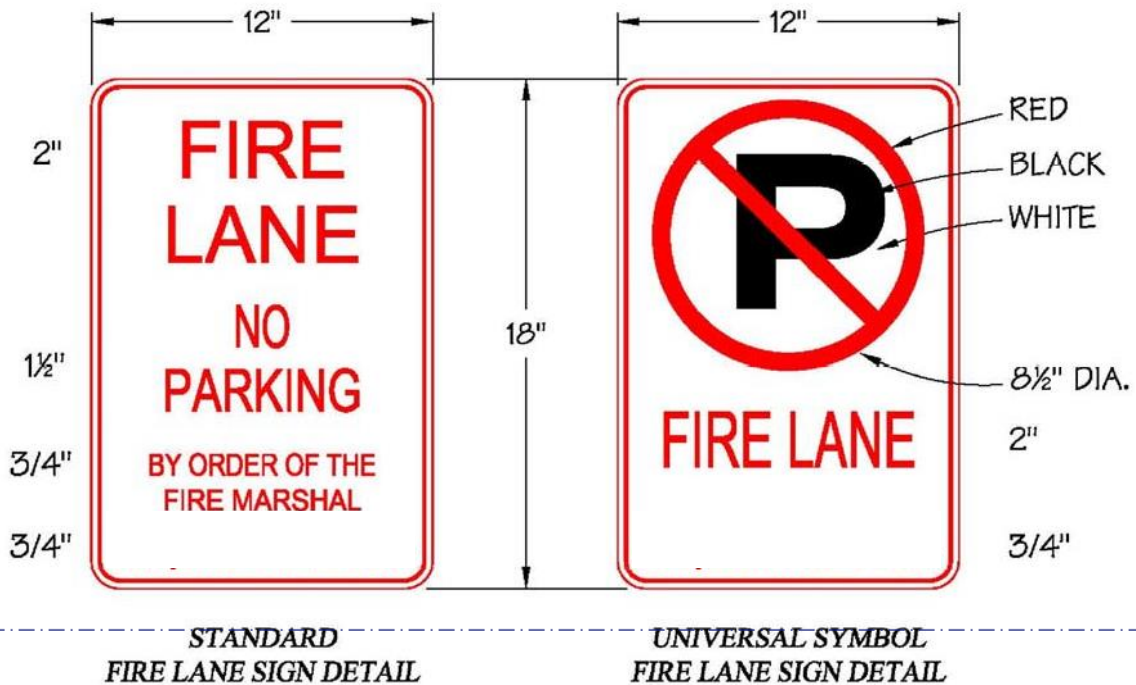
The following statements must be noted on the plans:

- Access roads will be designed and maintained by the contractor/builder
- Access surface will be ABC or sacrificial surface compacted to support 80,000 lbs.





## FIRE LANE SIGNS



1. The sign plate shall be a minimum of 12 X 18 inches with a thickness of .080 aluminum construction.
2. The sign face shall have a white reflective background with a red legend. Use the standard 3M Scotchlite sign face number R7-32 or equivalent, with red screen printed lettering as shown above.





## ALTERNATIVE APPLICATION FIRE LANE SIGNS

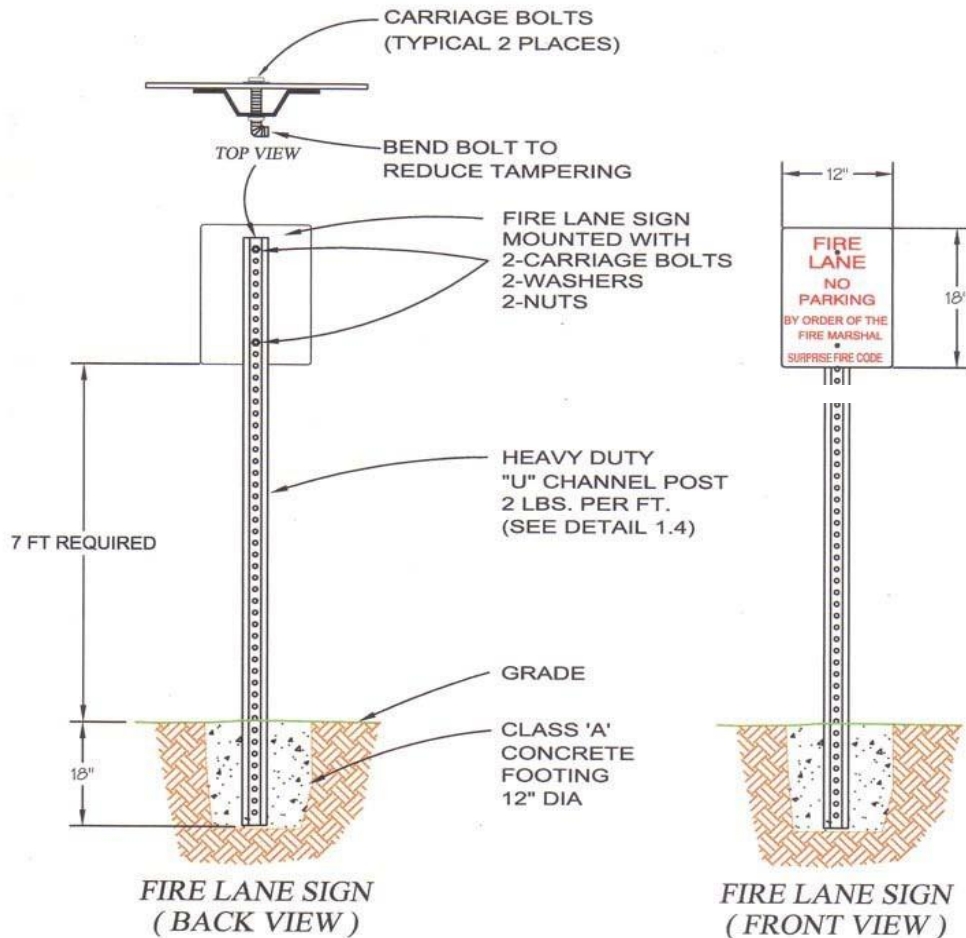


1. The sign plate shall be a minimum of 12 X 18 inches with a thickness of .080 aluminum construction.
2. The sign face shall have a white reflective background with a red legend. Use the standard 3M Scotchlite sign face number R7-32 or equivalent, with red screen printed lettering as shown above.





## FIRE LANE SIGN AND POST INSTALLATION SPECIFICATIONS

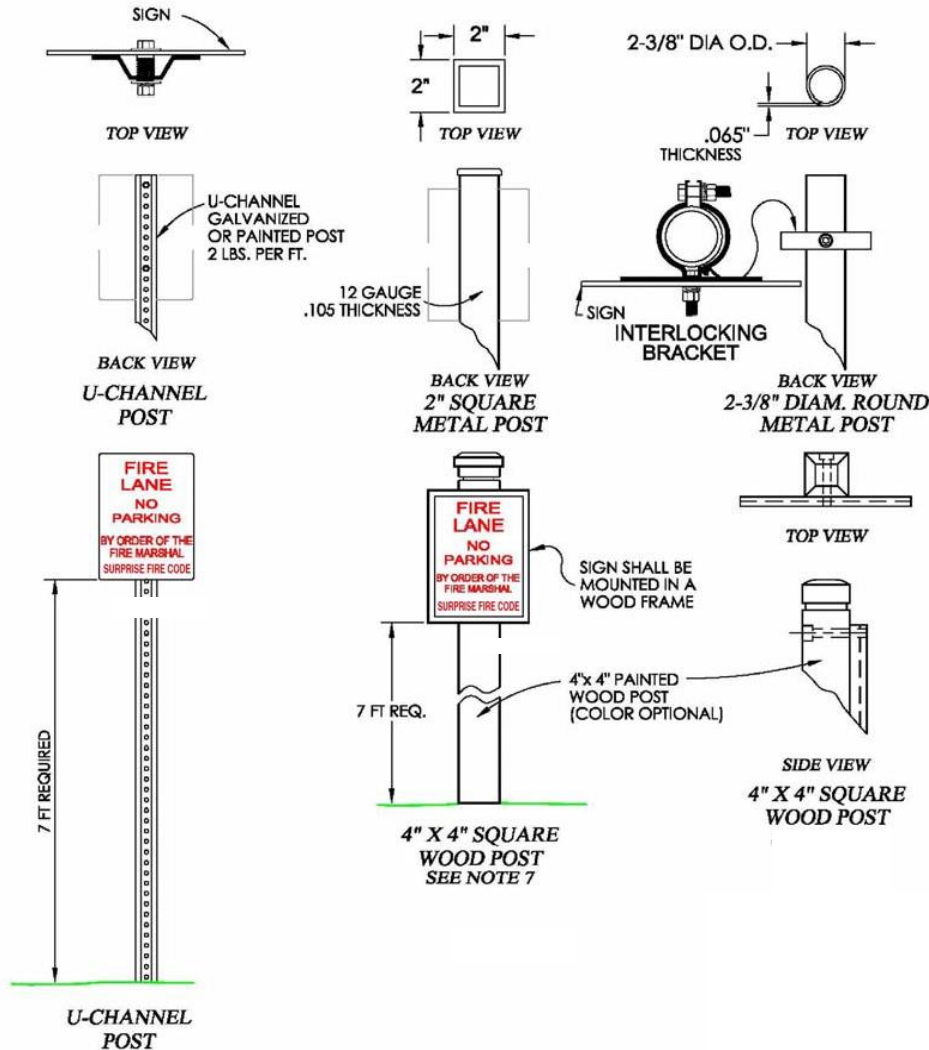


1. 10-foot long U-Channel galvanized or painted post.
2. Fire Lane sign (12x18 inch) .80 aluminum construction with white reflective background and red screen printed legend.
3. ¼" bolts and nuts large flat or fender washers.
4. Signs must face the direction of **ONCOMING TRAFFIC**.
5. Post shall be installed 12 to 18 inches from back of curb or back of sidewalk.
6. Los Alamos Fire Department recommends you blue stake before you dig.





## APPROVED FIRE LANE SIGN POSTS



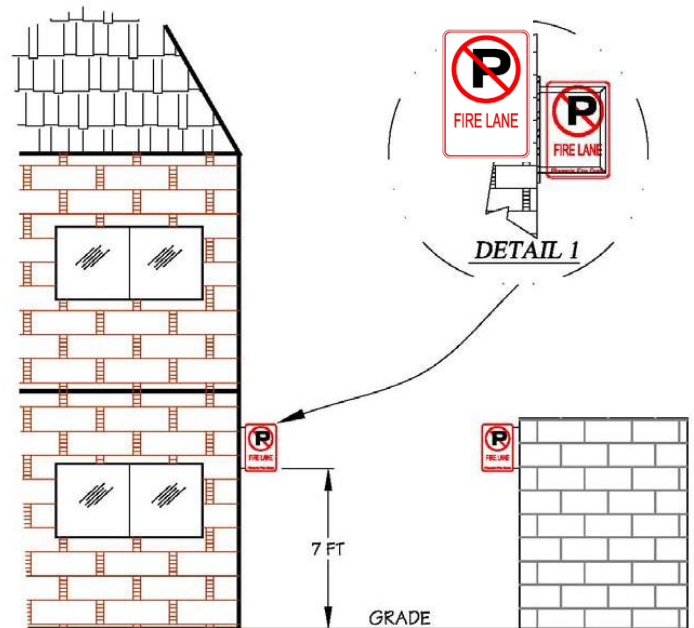
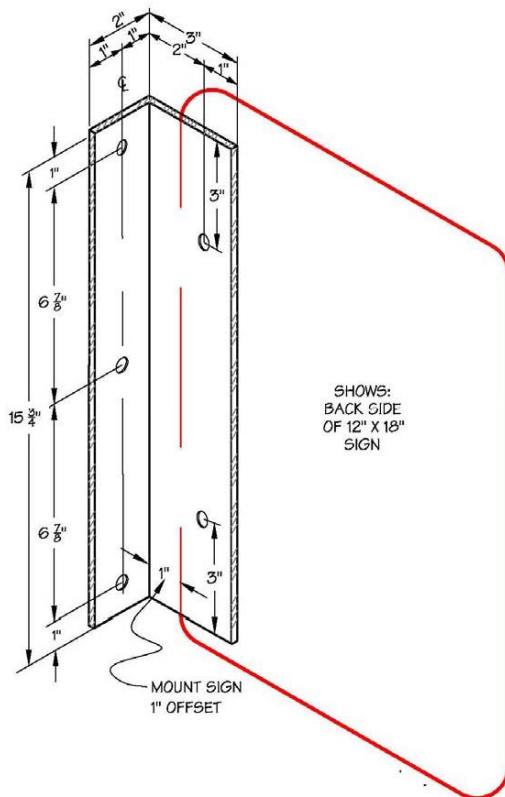
1. Approved signs shall be constructed of .080 aluminum with a reflective background.
2. Minimum of ¼" bolts with flat washers and nuts that bolt through.
3. Post footing shall be 12 inches in diameter and 18 inches in depth.
4. The sign shall be located seven (7) feet above finished grade to the bottom of sign.
5. Fire lane sign shall be installed 12 to 18 inches from back of curb or back of sidewalk.
6. Signs must face the direction of **ONCOMING TRAFFIC**.
7. Los Alamos Fire Department recommends you blue stake before you dig.







## WALL MOUNT BRACKET FIRE LANE SIGN “FLAG-MOUNT STYLE”

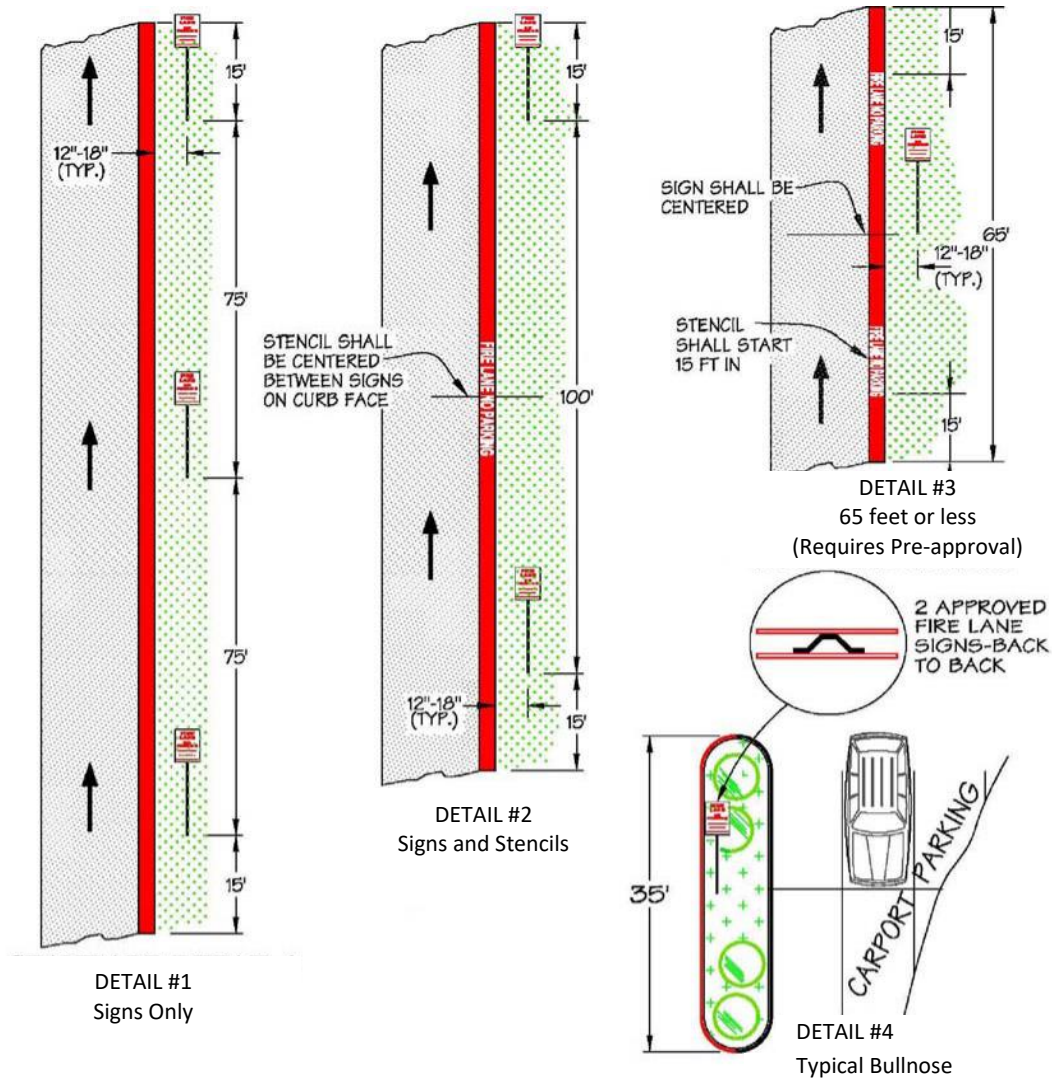


1. 3/16-inch-thick, 2x3x15<sup>3</sup>/<sub>4</sub> inch aluminum angle bracket.
2. The sign plate shall be a minimum of 12x18 inches with a thickness of .080 aluminum construction
3. Approved sign bracket is available for flag-mounted FD access signs. Bracket can be used on either the right or left side of the sign.
4. This application only available when sign cannot be installed on an approved post.





## FIRE LANE IDENTIFICATION, STENCILING AND SIGN INSTALLATION

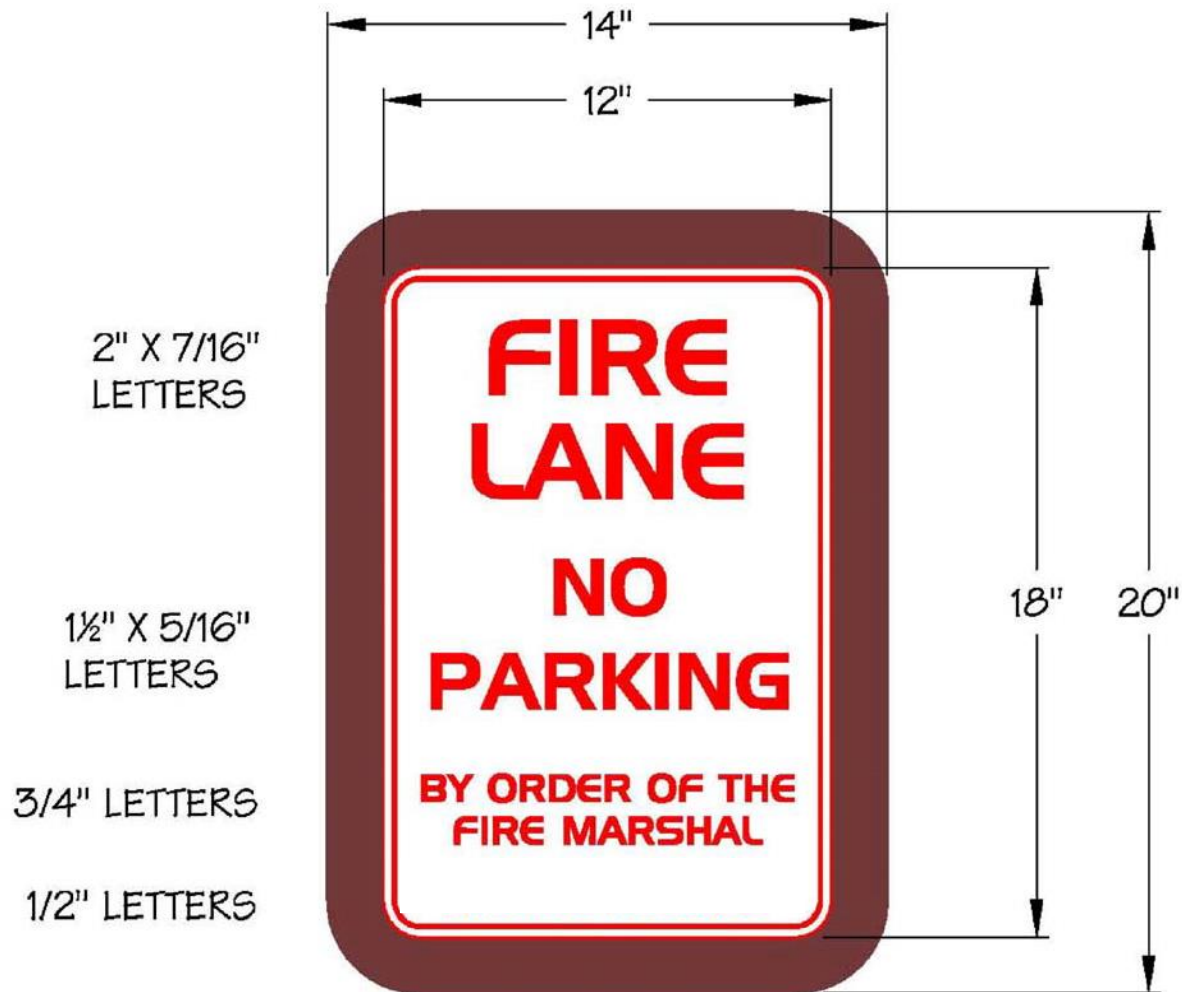


1. Approved fire lane signs shall be installed 12 to 18 inches from back of curb or back of sidewalk.
2. Sign must face the direction of **ONCOMING TRAFFIC**.
3. Stencils shall be in white lettering (4-inch height, ½ inch stroke) on "Industrial grade" safety red painted curb.
4. Stencil shall read "Fire Lane No Parking."





## DESIGNER FIRE LANE SIGNS

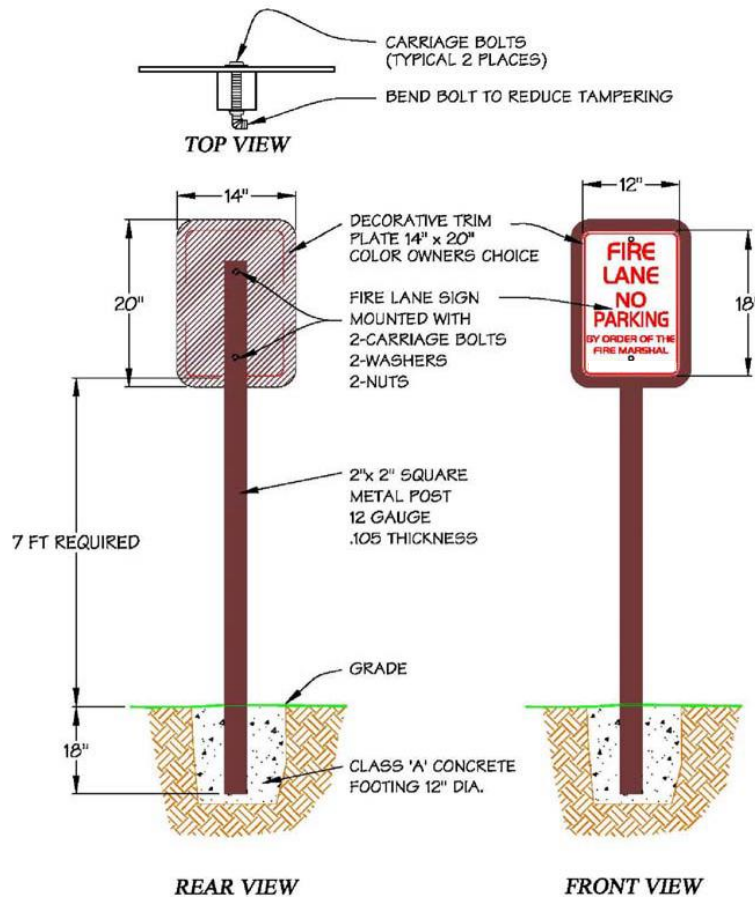


1. The sign plate shall be a minimum of 12x18 inches with a thickness of .080 aluminum construction.
2. The sign face shall have a white reflective background with a red legend. Use the standard 3M Scotchlite sign face number R7-32 or equivalent, with red screen printed lettering as shown above.
3. Font style is Handel Gothic capital font.
4. Decorative trim plate shall be 14x20 inches with a thickness of .080 aluminum, in a color of the owner's choice.





## DESIGNER FIRE LANE SIGN POST & INSTALLATION

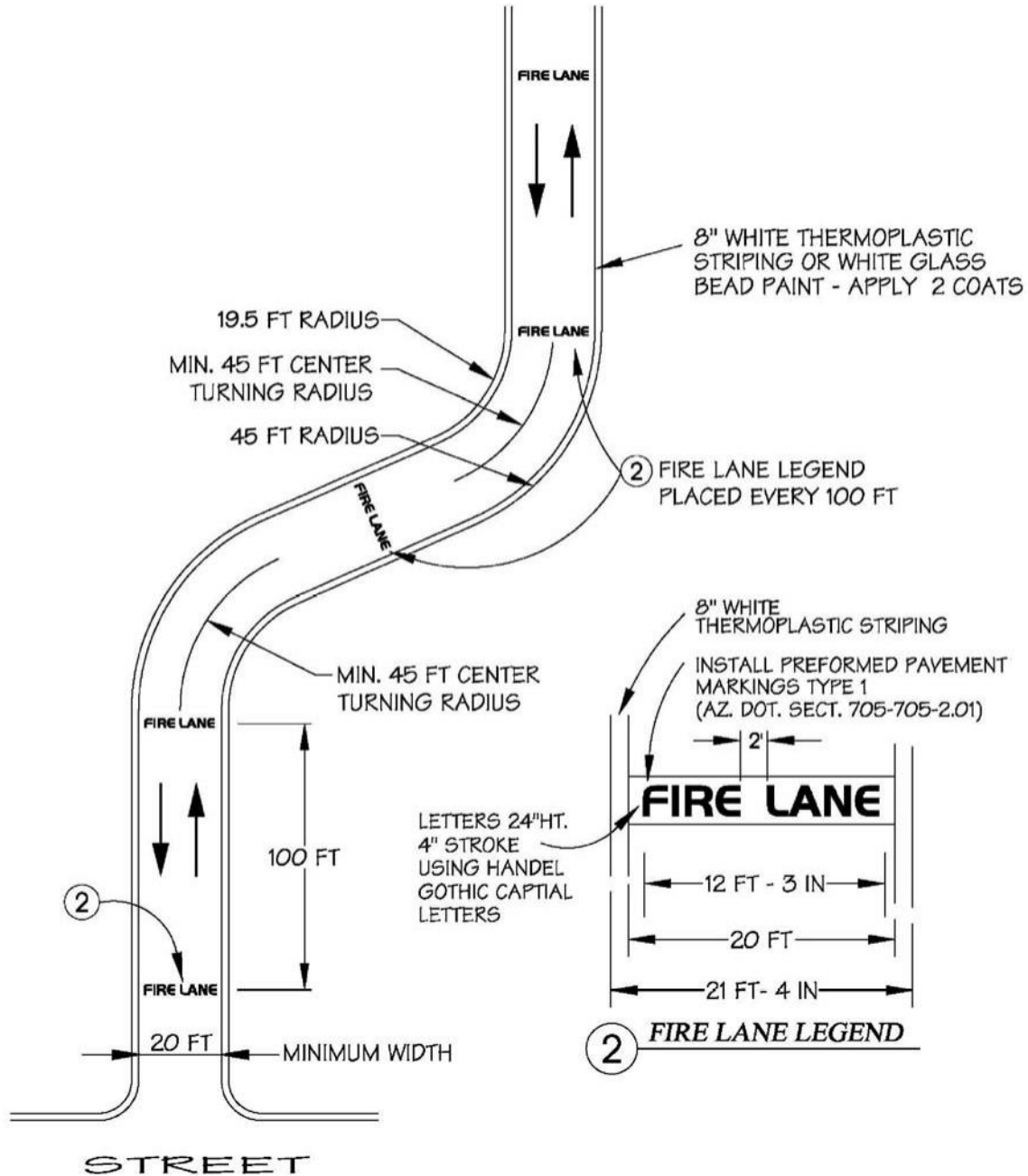


1. The sign plate shall be 12x18 inches with a thickness of .080 aluminum construction.
2. The sign face shall have a white reflective background with red screen printed legend.
3. Letters using a Handel Gothic capital font.
4. Decorative trim plate shall be 14x20 inches with a thickness of .080 aluminum, color owner's choice.
5. Ten-foot long painted 2x2 inch square or round post shall be installed 12 to 18 inches from back of curb or back of sidewalk.
6. The sign shall be located seven (7) feet above finished grade to bottom of the sign.
7. Minimum of  $\frac{1}{4}$ " bolt with flat washers and nuts that bolt through post.
8. Signs must face the direction of **ONCOMING TRAFFIC**.
9. Los Alamos Fire Department recommends you blue stake before you dig.



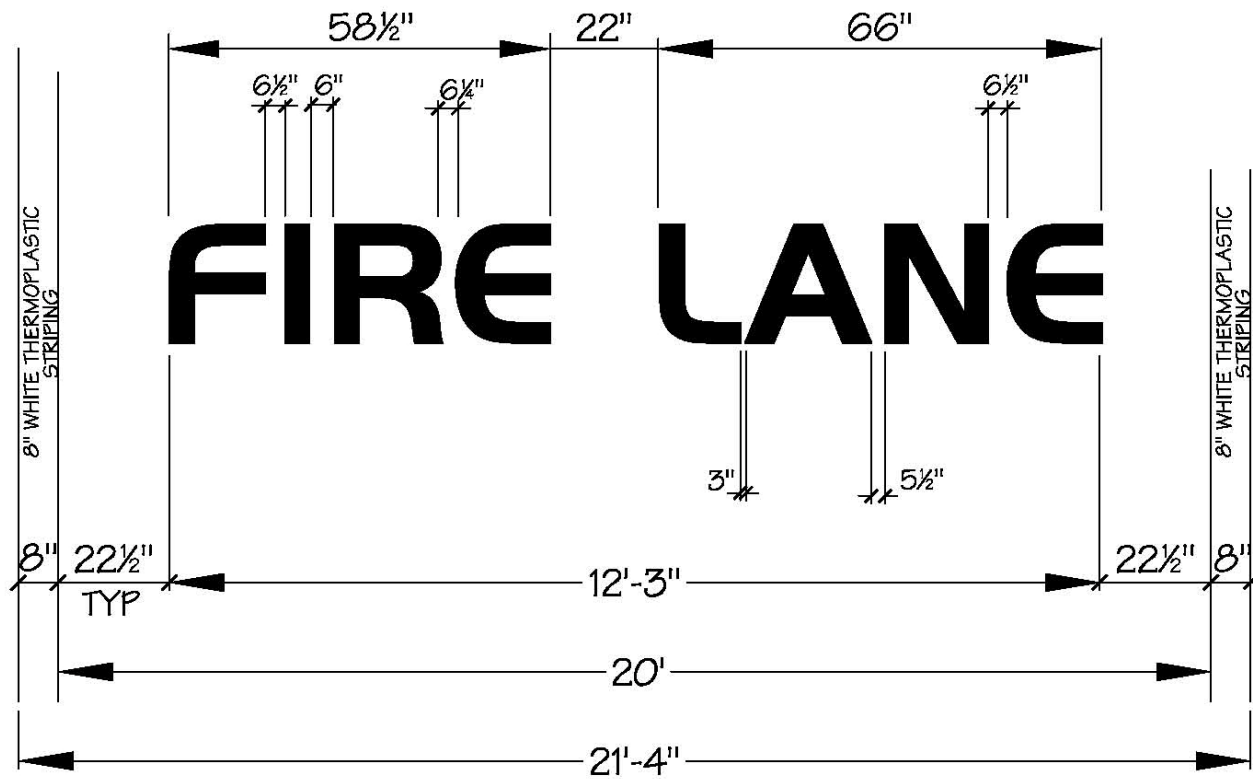


## ALTERNATIVE FIRE LANE MARKING SYSTEM





## ALTERNATIVE FIRE LANE MARKING SYSTEM

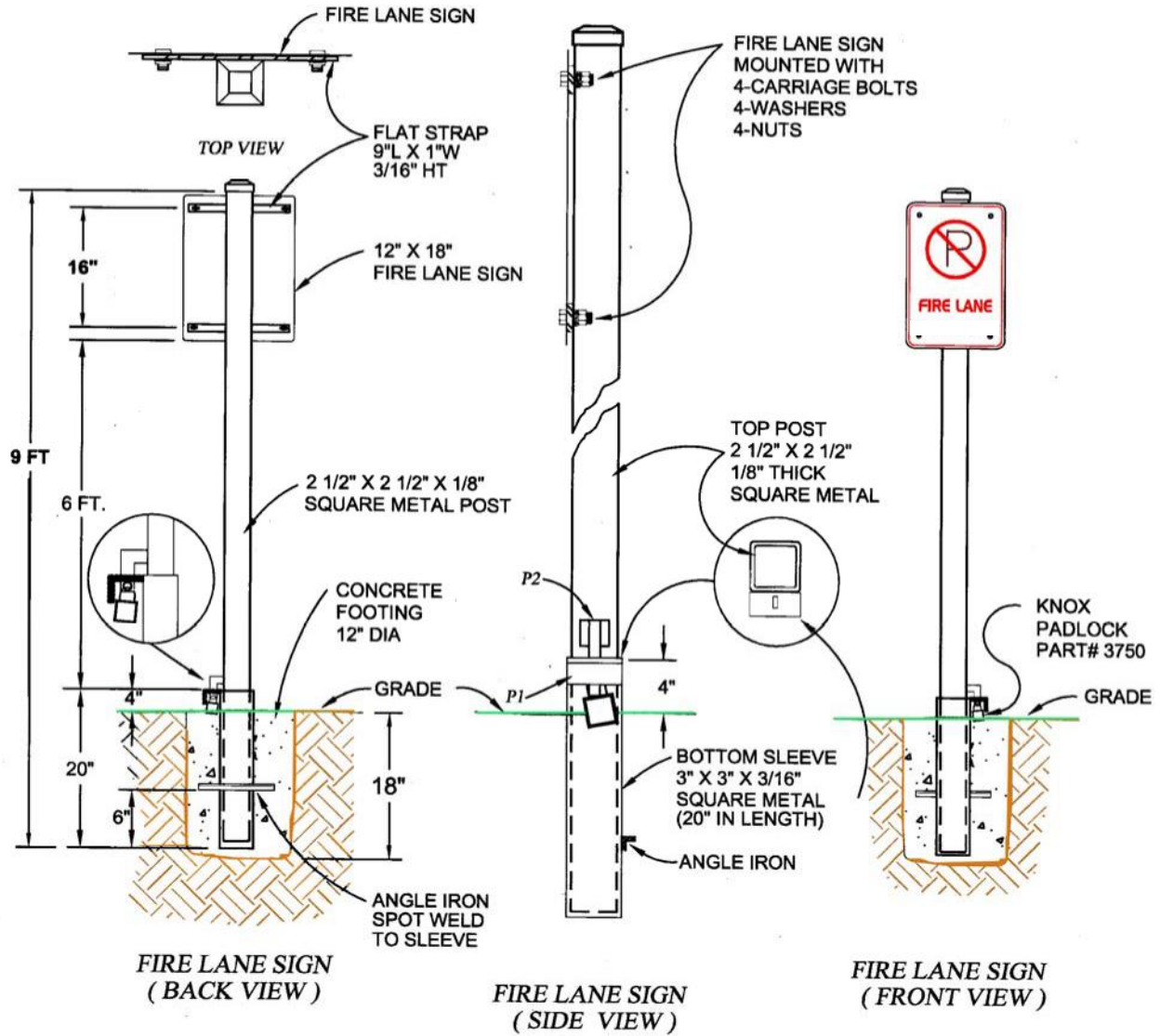


1. Letters 24-inch height, three (3) inch stroke, using Handel Gothic capital letters.
2. Install performed pavement markings type I.





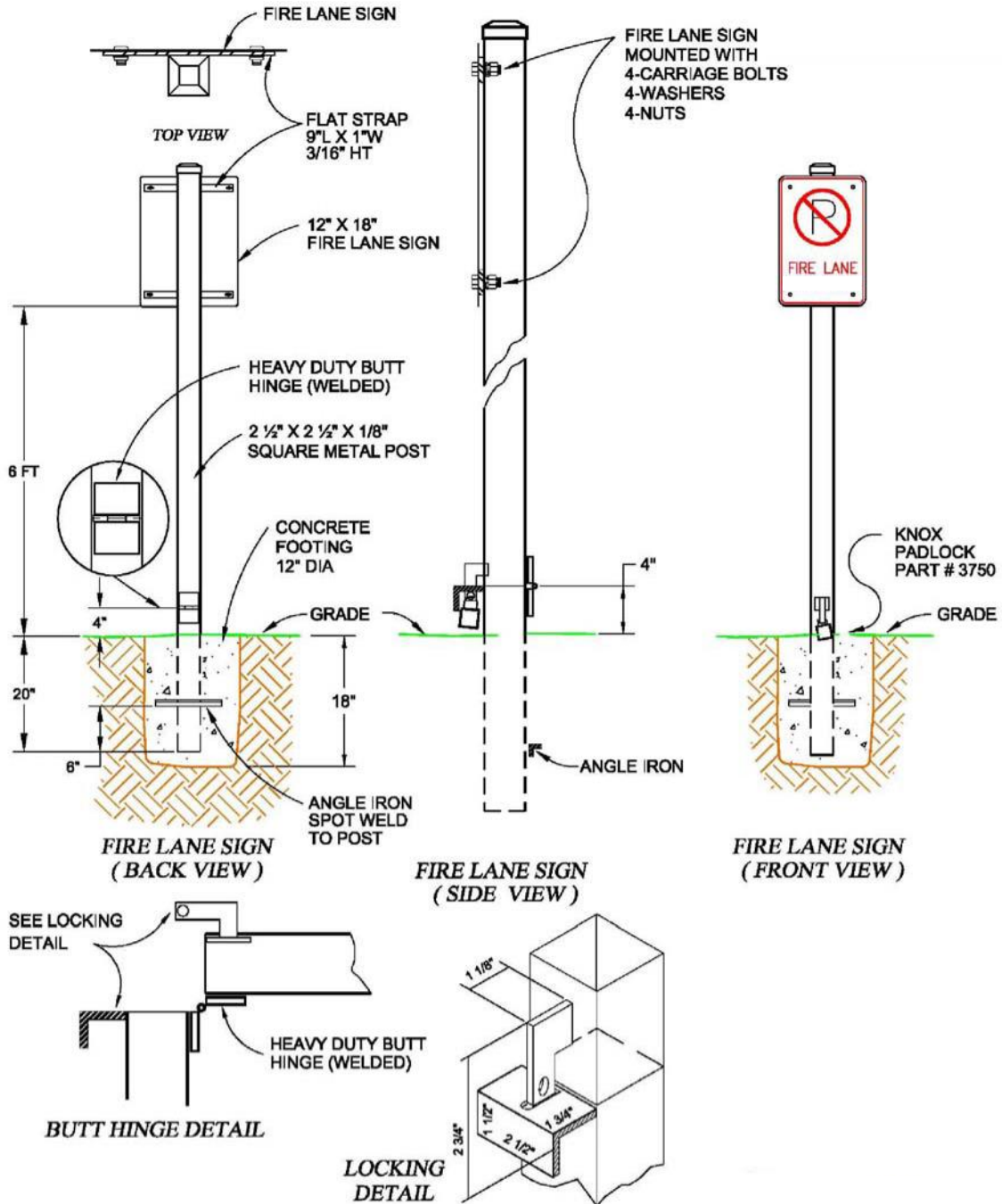
## REMOVABLE FIRE LANE SIGN







## FOLDING FIRE LANE SIGN





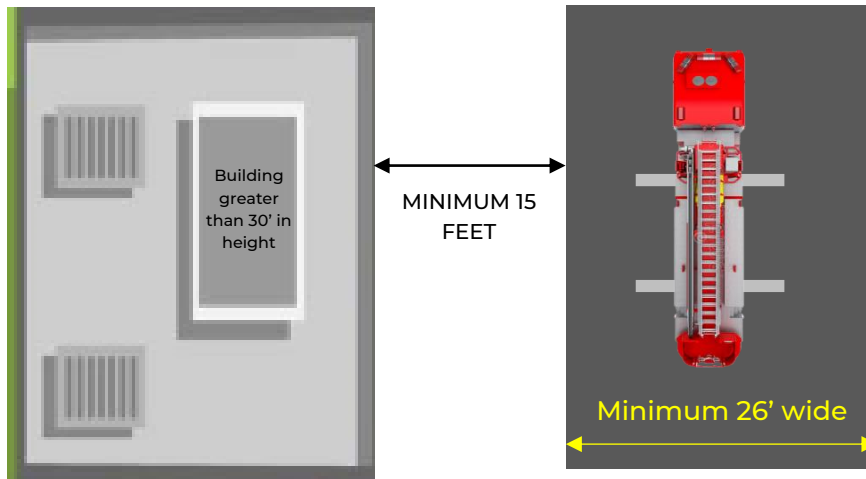
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## ALTERNATIVE SURFACE FIRE LANE MARKING SOFT SURFACE

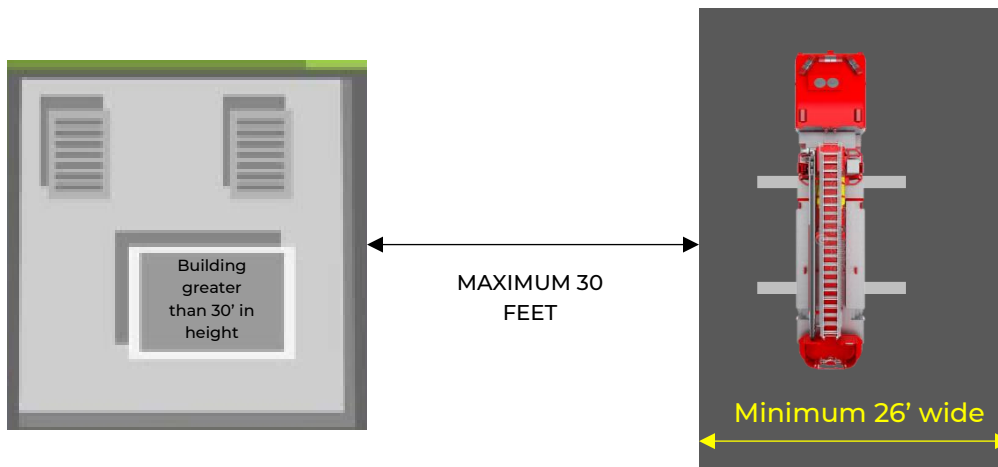




## STANDARD AERIAL FIRE APPARATUS ACCESS ROAD FOR BUILDINGS GREATER THAN 30' IN HEIGHT



Aerial Fire Apparatus Access Roads are required when the highest roof surface of a building exceeds 30 feet in height.



Proximity to the building per IFC Appendix D105.3

The side of the building on which the aerial apparatus access road is positioned shall be approved by the Fire Code Official.







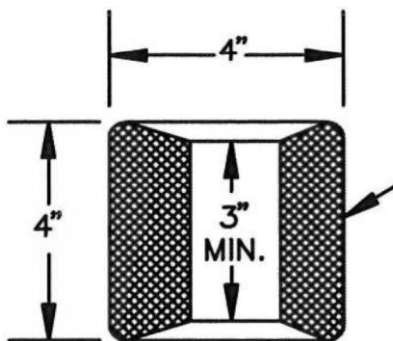
## REFLECTIVE BLUE MARKER INSTALLATION DETAIL (OPTIONAL-WITH APPROVAL FROM COUNTY TRAFFIC & STREETS ONLY)



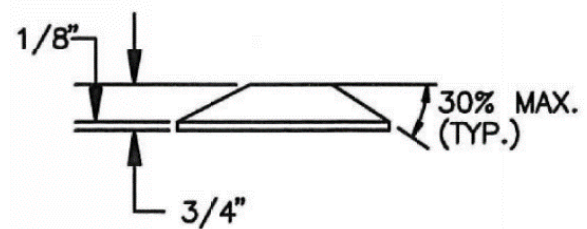
Reflective area is 3.25 square inches per reflective face.

### MATERIALS

Acrylic plastic reflector filled with a tightly adherent potting compound.



PRISMATIC REFLECTOR  
(One side only for one-way traffic)



Elevation View

1. Blue reflectors are required to help identify the location of fire hydrants and fire department connections (FDC) in the dark.
2. Blue reflectors shall be placed one (1) foot off the center line of the street or lane toward the hydrant or FDC.
3. One (1) marker is required to identify a fire hydrant.
4. Two (2) markers are required approximately three (3) inches apart to identify an FDC.

