

# TRAVIS COUNTY EMERGENCY SERVICES DISTRICT No. 6 FIRE PROTECTION CRITERIA MANUAL

## **PREFACE**

This document is intended to be a dynamic manual, developed and maintained in accordance with all Travis County Emergency Services District No. 6 (sometimes referred to herein as "TCESD #6", "Hudson Bend Fire Department", "HBFD", or "District") policies. This manual will be amended as needed on a quarterly basis to accommodate new technologies and methodologies. Additionally, revisions will be made to further clarify the application of code provisions pertinent to special circumstances encountered. The revisions will occur on or about the first days of January, April, July and October.

Public comments and recommendations are crucial in maintaining this manual in an updated form. If a Fire Code provision requiring clarification is encountered, the District encourages recommendations be submitted. Such recommendations should be placed on the Form in Appendix A of this manual, titled "Travis County Emergency Services District No. 6 Fire Protection Rules Request" and submitted to Travis County Emergency Services District No. 6 for consideration.

TCESD #6 has developed this Fire Protection manual to assist in the administration, implementation and use of the Fire Code. \* This manual provides clarification and specific guidance for the prevention and control of fires and fire hazards as are necessary to carry out the intent of the Fire Code. Contained within are certain rules and policies to be used in the interpretation of the Fire Code. It does not address all areas of code enforcement. Check the Fire Code to determine all applicable code requirements.

Contained within are administrative procedures for the fire protection plan review and inspection processes and references to the applicable ordinances and recognized standards. Also contained in this manual are the rules pertaining to the application of the technical aspects of the Fire Code and its associated standards.

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\* "Fire Code" as used in this manual shall be the 2003 International Fire Code published by the International Code Council (ICC) as adopted and amended by Travis County Emergency Services District No. 6 in Order #2005-1.

## **SECTION 1 - FIRE PROTECTION RULES**

### **1.1.0 GENERAL**

A. Rules promulgated by TCESD #6 for implementation of the Fire Code will be set forth in this Criteria Manual. The purpose of this Manual is to set out the rules pertaining to specific codes, standards and amendments.

B. Rules reference appropriate sections of the 2003 International Fire Code (IFC) and appendices thereto or other adopted standards. The order of the Rules follows the same order as the referenced sections appear in the 2003 International Fire Code.

### **1.2.0 ADMINISTRATIVE PROVISIONS**

**Section 104.1** of the 2003 International Fire Code and Section 1 of TCESD #6 Order No. 2005-1.

## **TCESD #6 FIRE PROTECTION RULE**

### **2003 IFC Reference Section 105.4**

The following notes, as applicable to the particular proposed development or construction project, shall be provided on all civil engineered plans submitted to the Hudson Bend Fire Department:

#### **Travis County Emergency Services District No. 6 FIRE DEPARTMENT - SITE PLAN NOTES**

1. An all-weather driving surface must be installed in locations shown on the Site Plan to be fire lanes, prior to any building construction beyond the foundation.
2. Hydrants must be installed with the center of the four and one-half inch steamer opening at least 18 inches above finished grade. The four and one-half inch steamer opening must face the driveway or street with three to six-foot setbacks from the curb line(s). No obstruction is allowed within three feet of any hydrant, and the four and on-half inch opening must be totally unobstructed from the street/driveway. Hydrant locations shall be identified by the installation of blue reflective markers.
3. All pervious/decorative paving shall be engineered and installed for 80,000 pounds live-vehicle loads. Any pervious/decorative paving within 100 feet of any building must be approved by the Fire Department.
4. Commercial dumpsters and containers around with an individual capacity of one and one half cubic yards or greater shall not be stored or placed within ten feet of openings, combustible walls, or combustible eave lines.
5. Vertical clearance required for fire apparatus is thirteen feet, six inches for full 25 feet width of access drives and routes for internal circulation. Dead-end fire apparatus access roads in excess of 150 feet in length shall be provided with approved provisions for the turning around of fire apparatus.
6. The markings of fire zones must be red with white stenciling or white with red stenciling reading "FIRE LANE/TOW AWAY ZONE" in lettering no less than three inches and no more than four inches in height. The stenciling shall be at intervals of 35 feet or less. Alternative

marking of fire lanes may be approved by the Fire Chief provided fire lanes are clearly identified at both ends and at intervals not to exceed 35 feet. Existing fire lane markings shall be grandfathered provided that they meet the wording and interval requirements that were accepted on approved site plans and other type fire lane submittals approved by the fire department. Existing fire lanes that are in need of re-painting shall meet the requirements of this section.

7. The Owner shall furnish the TCESD #6 one eight and one half inches by eleven inches copy of the building floor plans and site plan prior to any occupancy of improvements.
8. A “Master Key Box” (Knox Box Master Access System) shall be installed at the location shown on the building plans and approved by the Fire Department. Contact the Fire Department for ordering of the box. No improvements may be occupied until the box is installed.
9. The Fire Department Connection (FDC)/Siamese connection shall be installed where shown on the site Plan.
10. The maximum allowable driveway, drive aisle or fire lane grade is fifteen percent.
11. Contractor shall install blue hydrant markers in the pavement per TCESD #6 specifications. No improvements may be occupied until the markers are installed.
12. All plans (site, building, alarm, sprinkler) will be submitted for review. A review letter will be submitted to the architect. Reviews will not be released until the fees are paid.
13. A certified or witnessed pressure test is required for all water models, required hydrant flow tests or sprinkler system designs.
14. Hydrants shall be painted silver and the bonnet and caps shall be painted the designated color per the gallons per minute (GPM) as follows:

Class AA	Light Blue	1500 or higher GPM
Class A	Green	1000 – 1499 GPM
Class B	Orange	500 – 1499 GPM
Class C	Red	Less than 500 GPM
Class D	Black	Out of Service
16. Designs for site improvements shall meet the current Design Criteria as required by TCESD #6.
17. Fire hydrants shall have National Pipe Threads.

**TRAVIS COUNTY EMERGENCY SERVICES DISTRICT NO. 6  
SUBDIVISION WATER SYSTEM PLAN NOTES**

1. An all-weather driving surface must be installed in locations shown on the Site Plan to be fire lanes, prior to any building construction beyond the foundation.
2. Vertical clearance required for fire apparatus is thirteen feet, six inches for full 25 feet width of access drives and routes for internal circulation.
3. The maximum allowable driveway, drive aisle or fire lane grade is fifteen percent.
4. A certified or witnessed pressure test is required for all water models, required hydrant flow tests or sprinkler system designs.
5. An approved water supply for fire protection, either temporary or permanent, shall be made available as soon as combustible material arrives on the site.
6. Hydrants must be installed with the four and one-half inch steamer opening at least eighteen inches above finished grade. The four and one-half inch steamer opening must face the street with a three to six foot setback (clearance) from the curb line or shoulder of the street.
7. No obstruction within a three-foot radius of any hydrant, and the four and one-half steamer opening must be totally unobstructed from the street.
8. Hydrant locations shall be identified by the installation of blue reflective markers, per Fire Department specifications.
9. Hydrants shall be painted silver the bonnet and caps shall be painted the designated color per the gallons per minute (GPM) as follows:

Class AA	Light Blue	1500 or higher GPM
Class A	Green	1000 – 1499 GPM
Class B	Orange	500 – 999 GPM
Class C	Red	Less than 500 GPM
Class D	Black	Out of Service

**TCESD #6 FIRE PROTECTION RULE**

**2003 IFC Reference Section 105.4.1**

An electronic file of signed and sealed plans as a .tiff or .pdf file of a minimum of 300 dpi resolution on to a labeled CD or by email limiting each email message to 10 MB. This submittal is required to be on file at this office prior to site construction or fire final inspection approval.

**TCESD #6 FIRE PROTECTION RULE**

**2003 IFC Reference Section 307.1**

**TRAVIS COUNTY EMERGENCY SERVICES DISTRICT No. 6 – HUDSON BEND FIRE DEPARTMENT  
OUTDOOR BURNING REGULATIONS**

(Reference: 2003 International Fire Code and Revised Outdoor Burning Rule 30 TAC Sect. 111)

1. Outdoor burning is prohibited inside the City of Lakeway and Village of the Hills. The Village of Bee Cave requires prior approval from TCESD #6/HBFD.
2. Prior to any burning, review the following burn regulations and then contact TCESD #6 either by email at [prevention@hbfd.net](mailto:prevention@hbfd.net) or calling 266-2533 to request a permit application to burn.
3. Open burning permit requests **will not** be granted if the burn site is located within **300** feet downwind from any **neighboring** structure such as a residence, business, barn or greenhouse. This requirement may be waived only with the prior written approval of whoever owns or rents the adjacent property and either resides or conducts business there.
4. A permit will be granted for a one-year period. **This permit is for site approval only.** Permit holders must call **TCESD #6/HUDSON BEND FIRE DEPARTMENT DISPATCH OFFICE AT 926-1706 prior to commencement of any burning.** You will be asked for your permit number and will be allowed to burn only if atmospheric conditions permit.
5. Each permit application requires a site visit by HBFD personnel prior to any approval.
6. Violations of these rules may result in the revocation or denial of an open burning permit.
7. Open burning will not be permitted when wind speed is or predicted to be less than six miles per hour (mph) or greater than fifteen mph during the burn period.
8. Open burning is not permitted earlier than one hour after sunrise and the fire must be extinguished no later than one hour prior to sunset.
9. Open burning must be constantly attended.
10. A means of extinguishment such as a garden hose, dirt, sand, or water barrel shall be immediately available.
11. If the fire spreads beyond the limits of the open burn, immediately call 9-1-1 to report a fire.
12. Open burning larger than recreational fires as noted in item 15 below are required to be not less than **50** feet from any structure or combustible material (this includes grass, trees and brush).
13. In addition, the open burning must also be **300** feet downwind from any **neighboring** structure such as a residence, business, barn or greenhouse. This requirement may be waived only with the prior written approval of whoever owns or rents the adjacent property and either resides or conducts business there.
14. Open burning that will be offensive or objectionable due to smoke or odor emissions or when atmospheric conditions or local circumstances make such fires hazardous shall be prohibited. If the open burning creates or adds to a hazardous or objectionable situation the code official (Fire Chief or Fire Marshal) is authorized to order the extinguishment by the person in charge or by fire department personnel.
15. Burning (**recreational fires**) other than rubbish where fuel being burned is not contained in an incinerator, outdoor fireplace, barbeque grill or barbeque pit when used solely for pleasure, religious ceremonial, cooking, warmth or similar purposes are permitted provided the following guidelines are followed:
  - A. No rubbish permitted
  - B. A clear space of **25** feet from structures and combustible materials
  - C. Maximum diameter of 3 feet and height of 2 feet
16. Burning of domestic waste – in other words, household trash or rubbish – may be permitted when local trash collection service is not available. To qualify for this provision, the property must be a private residence for no more than three families. The waste must also be burned on the property where it was produced. If burned in an approved container (such as a 55 gallon drum) a minimum distance of **25** feet from any structure shall be maintained.
17. The following items are ***not permitted*** to be burned: electrical insulation, treated lumber, plastics, construction or demolition materials not made of wood, heavy oils, asphalt materials such as

shingles and roofing felts, potentially explosive materials, chemical wastes, wire, or items containing natural or synthetic rubber.

18. Commercial land clearing operations that involve open burning operations must be performed on the site where the materials are obtained. In most cases a trench burner or mobile incinerator/fire box will be required. This in turn will require approval from Texas Commission on Environmental Quality (TCEQ). Call the fire department office at 266-2533 prior to commencing operations in order to obtain a permit.

## **TCESD #6 FIRE PROTECTION RULE**

### **2003 IFC Reference Section 503.2.3**

TCESD #6 requires that all weather pavement be of either concrete or asphalt construction.

Access roadways shall be finished by application of an all-weather driving surface of hot mix asphalt or concrete pavement over a flexible base capable of supporting an axle load of 32,000 pounds (HS-20 loading) in order to support a gross vehicle weight of 80,000 pounds. Any previous/decorative paving within 100 feet of any building must meet the same vehicle loading requirements.

## **TCESD #6 FIRE PROTECTION RULE**

### **2003 IFC Reference Section 503.2.4**

Access roadways\* shall be designed with an appropriate 25-foot inside turning radius and a 50-foot outside turning radius at turns to accommodate any operational Fire Department apparatus. Turning radii for entrance and exit access roadways must also conform to current local jurisdiction driveway requirements; therefore, entrances and exits may have to be widened to satisfy both requirements.

\*As used in this rule, "access roadway" requirements refer to access roads on private property subject to use by the Fire Department (business drives, apartment drives, etc.). For public street design refer to local jurisdiction driveway requirements.

## **TCESD #6 FIRE PROTECTION RULE**

### **2003 IFC Reference Section 503.2.7**

Asphalt hot mix access roadways shall be engineered not to exceed fifteen15 percent in grade. Concrete roadways shall be designed not to exceed 15 percent in grade. As an alternative where maximum road grades of fifteen percent cannot be provided, a professionally designed sprinkler system may be installed as an alternative provided the building being considered is fully protected and the system is approved by the TCESD #6. Maximum immediate grade change or grade change within twenty feet shall not exceed ten percent. Road grades must also be approved by other regulating jurisdictions in addition to Fire Department approval.

## TCESD #6 FIRE PROTECTION RULE

### **2003 IFC Reference Section 503.3 Marking**

Where required by the Fire Chief, fire apparatus access roads shall be marked as follows: Where curb and guttering exists, all curbs of fire apparatus access roads shall be painted red and be conspicuously and legibly marked with the warning “FIRE LANE – TOW AWAY ZONE” in white letters at least three inches tall, at intervals not exceeding 35 feet. Markings shall be painted on one side of the fire apparatus road when the roadway width exceeds 32 feet in width except where required in Section D105.

Where no curb and guttering exists, fire apparatus access roads shall be marked with permanent FIRE LANE – TOW AWAY ZONE signs at intervals not exceeding fifty feet. Signs shall have a minimum dimension of twelve inches (305 mm) wide by eighteen inches (457 mm) high and have red letters on a white reflective background. Signs shall be posted on one side of the fire apparatus road when the roadway width exceeds 32 feet in width except where required in Section D105. Sign markings shall be as shown in Appendix B Figures B-2 and B-3 of this Criteria Manual.

In addition the Fire Chief may require signs to be posted at entrances on both sides of the fire department access road(s) as shown in Appendix B Figure B-1 of this Criteria Manual.

Alternate markings may be approved by the Fire Chief provide such markings clearly identify the lane at both ends and at intervals not exceeding 35 feet.

Any markings on fire lanes approved by the District and existing on the effective date of the most recently adopted Ordinance shall be deemed to be in compliance, provided that any re-painting of the curbs of such fire lanes shall be painted to comply with the marking prescribed in this rule.

## TCESD #6 FIRE PROTECTION RULE

### **2003 IFC Reference Section 505.1**

The minimum size for exterior premises identification numbers (master street address numbers) for complexes such as strip centers, malls, apartment complexes, etc. shall be eight (8) inches in height. Exterior business suite and office numbers shall not be less than four (4) inches in height. These numbers shall be clearly distinguishable from the point of Fire Department access.

Whenever a building is set back from a servicing street or roadway at a distance preventing reasonably sized numerals or letters from being distinguished, the address may be posted at the street entrance on a substantial sign when approved by the Hudson Bend Fire Department. However, when more than one (1) building is located at the same numerical street address, each building must display a complete address including particular alphabetical or numerical building listings and individual occupancy numbers which must be clearly distinguishable from the access road servicing the building. The complete address must contrast with the background to which it is attached.

Multi-occupant buildings shall have all rear entrance(s) to each tenant space individually identified with proper suite/address numbers.

The street address of all projects under construction shall be posted in a conspicuous location prior to the beginning of construction at a particular building site. Temporary numbers may be painted over contrasting background on plywood or other suitable wood boards and clearly displayed on the public street frontage on which the project is addressed. Permanent numbers are required on buildings at completion and must be approved by the Hudson Bend Fire Department during the fire final inspection.

## **TCESD #6 FIRE PROTECTION RULE**

### **2003 IFC Reference Section 506.1**

TCESD #6 utilizes “KNOX BOX” brand lock boxes throughout the district. Lock boxes can be obtained by ordering online at [www.knoxbox.com](http://www.knoxbox.com).

The location of the key box shall be installed no higher than 6 feet from ground level and be located at or near the primary Fire Department access into a building or project and on the building side of any gate requiring a key or code for exiting, or as approved by the Fire Department.

## **TCESD #6 FIRE PROTECTION RULE**

### **2003 IFC Reference Section 508.1**

#### Hydraulic Design

A. For the purposes of this rule, a hydraulically designed system is one in which pipe sizes are selected on a pressure loss basis to provide a prescribed fire flow (gallons per minute at 20 psi residual system pressure). All hydraulic design submittals must meet either WCID #17 or LCRA design criteria. Contact WCID #17 at 266-1111 or LCRA at 473-3333 Ext. 3588 for design criteria.

B. All water construction documents shall have hydraulic calculations supporting the specified pipes sizes.

#### C. Flow Test.

1. Flow test data shall take into account minimum pressure conditions due to heavy water demands on the system, i.e., heavy summer usage.

2. Flow test information that is provided by the Hudson Bend Fire Department or other local water supply utility providers is done so upon request. Such information represents the water supply characteristics in the immediate area on the noted date and time. Local authorities do not guarantee that this data will be representative of the water supply characteristics at any time in the future. The engineer or designer of record will be fully responsible for the use and application of such data to ensure proper design and compliance with appropriate codes.

# TCESD #6 FIRE PROTECTION RULE

## 2003 IFC Reference Section 508.1

### Fire Flow Guide for Buildings other than one- and two- family dwellings

FIRE FLOW (Gallons Per Minute) b	CONSTRUCTION TYPE				
	Type I A and I B a	Type II A and III A a	Type IV and V-A a	Type II B and III B a	Type V-B a
	TOTAL FIRE AREA IN SQUARE FEET				
1,500	22,700	12,700	8,200	5,900	3,600
1,750	30,200	17,000	10,900	7,900	4,800
2,000	38,700	21,800	12,900	9,800	6,200
2,250	48,300	24,200	17,400	12,600	7,700
2,500	59,000	33,200	21,300	15,400	9,400
2,750	70,900	39,700	25,500	18,400	11,300
3,000	83,700	47,100	30,100	21,800	13,400
3,250	97,700	54,900	35,200	25,900	15,600
3,500	112,700	63,400	40,600	29,300	18,000
3,750	128,700	72,400	46,400	33,500	20,600
4,000	145,900	82,100	52,500	37,900	23,300
4,250	164,200	92,400	59,100	42,700	26,300

4,500	183,400	103,100	66,000	47,700	29,300
4,750	203,700	114,600	73,300	53,000	32,600
5,000	225,200	126,700	81,100	58,600	36,000
5,250	247,700	139,400	89,200	65,400	39,600
5,500	271,200	152,600	97,700	70,600	43,400
5,750	295,900	166,500	106,500	77,000	47,400
6,000	UNLIMITED	UNLIMITED	115,800	83,700	51,500
6,250	“	“	125,500	90,600	55,700
6,500	“	“	135,500	97,900	60,200
6,750	“	“	145,800	106,800	64,800
7,000	“	“	156,700	113,200	69,600
7,250	“	“	167,900	121,300	74,600
7,500	“	“	179,400	129,600	79,800
7,750	“	“	191,400	138,300	85,100
8,000	“	“	UNLIMITED	UNLIMITED	UNLIMITED

- a. Types of construction are based on the *International Building Code*.
- b. Measured at 20 psi

## TCESD #6 FIRE PROTECTION RULE

### 2003 IFC Reference Section 901.4

Approval of sprinkler systems modifications will not require the submission of plans or the Fire Department's witnessing a hydrostatic test if the modification required the relocation, addition, and/or deletion of less than twenty sprinklers, In lieu of a plan submittal, a letter with company letterhead or certificate of installation shall be provided to the Fire Department.

All hydraulically calculated sprinkler systems shall demonstrate a minimum 10-PSI buffer and shall include outside hose stream demand in accordance with NFPA Standard No. 13, 2002.

## TCESD #6 FIRE PROTECTION RULE

### 2003 IFC Reference Section 901.4

The following shall be used in the design of Class I standpipe systems requiring the use of a Fire Department pump to operate at the required flows:

- A. The system pressure demand at the Fire Department inlet connection shall not exceed 150 pounds per square inch regardless of the required flow.
- B. Verification of the pressure demand at the required flow (as noted in A above), through the use of hydraulic calculation methods, shall be submitted to the Fire Department for review and approval.
- C. If the required flow for standpipe systems exceeds the flow of water available at 20 pounds per square inch residual pressure from the water supply system, an auxiliary water supply will be required.

## TCESD #6 FIRE PROTECTION RULE

### 2003 IFC Reference Section 901.4

The following rules pertain to the Standard for the Installation of Fire Pumps NFPA 20.

All fire pump systems connected to the public utility shall be provided with a by-pass line.

All fire pump systems shall be provided with a test header (or hose valve) that is piped to the exterior of the structure. The site in the vicinity of the test header shall be designed to account for the drainage of water of not less than 150 percent of the maximum pump capacity rating.

## TCESD #6 FIRE PROTECTION RULE

### 2003 IFC Reference Section 1008.1.3.4

All exit doors are permitted to utilize UL listed crash bars (panic hardware) or UL listed touch sensor bars to interrupt power to a magnetic lock, subject to the requirements detailed below.

The use of a mag-lock that has the power to the magnet interrupted by physically breaking the circuit with a listed crash bar or touch sensor bar, will be acceptable. A fire alarm or automatic sprinkler system will not be required unless otherwise required by the Building or Fire Code.

New installations of an egress system using a mag-lock that has the power to the magnet interrupted only thru the use of a motion detector are not permitted. The installation of electrical locks which require the function of any electrical devices or components to permit exiting will require plans approved by the Fire Department, prior to installation. All such installations must be installed under an active building permit, if applicable.

Installation of electric strike type egress devices must be UL listed for its use. If installed in a fire rated assembly, it must be UL Listed for that use. The installation of electrical locks which require the function of any electrical devices or components to permit exiting will require plans approved by the Fire Department, prior to installation. All such installations must be installed under an active building permit, if applicable

## TCESD #6 FIRE PROTECTION RULE

### 2003 IFC Reference Chapter 45.

The intent of this Fire Protection Rule is to list the most recent publication of the NFPA Standards at the time of the latest Fire Code adoption. Some standards have been deleted due to the merging of particular standards into new or amended standards that have been published. The list of standards and associated publications are provided as follows:

10-02;11-02;11A-99;12-00;12A-97;13-02;13D-02;13R-02;14-03;15-01;16-03;17-02;17A-02;20-03;22-03;24-02;25-02;30-03;30A-03;30B-02;31-01;32-00;33-03;34-03;35-99;40-01;50-01;50A-99;50B-99;51-02;51A-01;61-02;69-02;72-02;80-99;85-01;86-03;99-02;101-03;110-02;111-01;120-99;160-01;211-03; add 230-03;delete 231-98,231C-98, and 231D-98;241-00;260-03;261-03;265-02;266-98;267-98;286-00; add 303-00;385-00;407-01;430-00;add 484-02, delete 480-98,481-00, and 482-96;490-02;495-01;498-01;505-02;654-00;655-01;664-02;701-99;703-00;704-01;750-03;1122-02;1123-00;1124-03;1125-01;1126-01;1127-02;2001-00

**APPENDIX A: FIRE PROTECTION RULES REQUEST**

Travis County Emergency Services District No. 6 (TCESD #6) Fire Protection Rules Request  
\_\_\_\_\_ New Rule \_\_\_\_\_ Revision to Existing Rule

Code Reference:

\_\_\_\_\_ International Fire Code

\_\_\_\_\_ National Fire Protection Association Standard No. \_\_\_\_\_

\_\_\_\_\_ Other

References \_\_\_\_\_

Section \_\_\_\_\_

Purpose of New Rules or Revision:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Recommendations:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Submitted By:

Name \_\_\_\_\_

Title \_\_\_\_\_

Firm \_\_\_\_\_

Address \_\_\_\_\_

Telephone \_\_\_\_\_ Date \_\_\_\_\_

Reviewed By:

Name \_\_\_\_\_

Title \_\_\_\_\_

Department \_\_\_\_\_ Date \_\_\_\_\_

Recommended Action \_\_\_\_\_

APPENDIX B: Figures

Figure B-1. Fire Lane Signs:  
2003 IFC Reference Section 503.3

18" X 24"

Sign shall be red and white



Figure B-2. Fire Lane Signs:

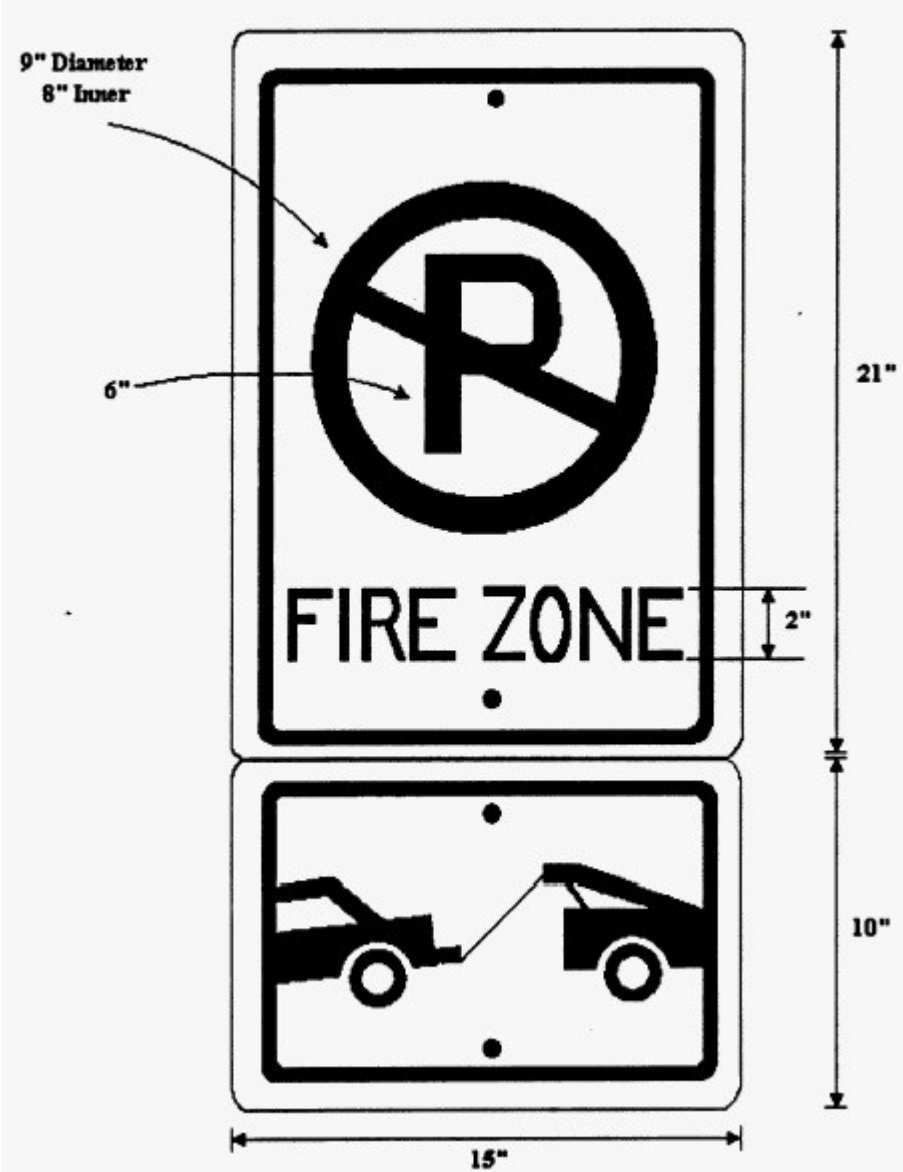
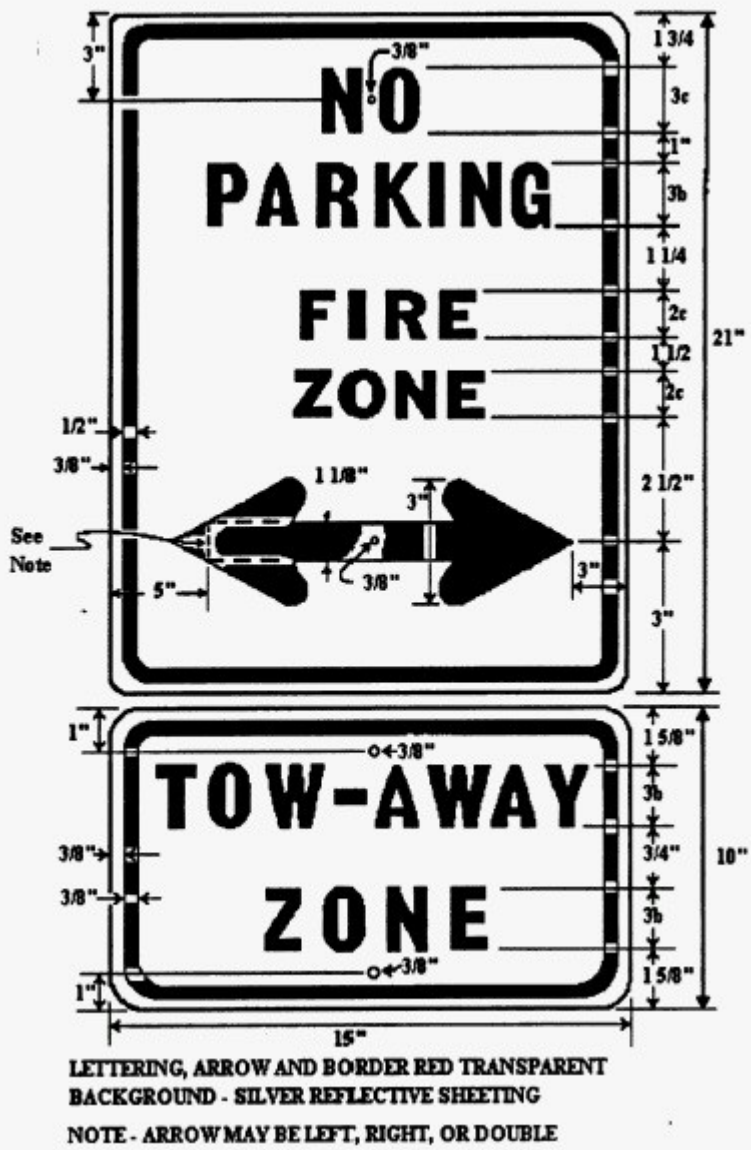


Figure B-3. Fire Lane Signs:



### Figure B-4. Approved Fire Department Vehicle Turnarounds

The turnarounds illustrated in A, B, and C below meet fire department requirements for apparatus access roads. The additional ten feet right-of-way (denoted by the dotted line in illustrations B and C) shall not have any obstructions over one foot in height to allow for truck overhang.

