

DEVELOPMENT GUIDELINES



314 W. Cook St. # 8
Santa Maria, CA 93458

March 3, 2021

Web Address: <http://www.cityofsantamaria.org/city-government/departments/fire-services>



CITY OF SANTA MARIA

Fire Department

Development Guidelines



314 WEST COOK ST. #8 * SANTA MARIA, CALIFORNIA 93458 * 805-925-0951, EXT. 8533 * FAX 805-928-4746

March 3, 2021

TO: All Interested Parties

RE: Fire Department Development Standards

The Santa Maria Fire Department created this guide to assist developers with information pertaining to fire and life safety regulations within Fire Department jurisdiction. This guide outlines the minimum fire protection requirements specific to the Santa Maria Fire Department. It is not the intent of this guide to specify exact requirements for any given development, subdivision or use permit, but rather to acquaint architects, designers, builders and engineers with the general fire and life safety requirements that must be considered.

All projects and plans are required to be submitted to the City of Santa Maria Community Development Department, who will forward such projects and plans to the Fire Department. Each review will be provided with specific conditions, as required by code, and routed back to the Community Development Department for distribution.

The following are the most common code references used by the Fire Department:

- California Fire Code (2019 Edition) – State Minimum Requirements
- [Santa Maria Municipal Code \(Section 9-28 Fire Prevention\)](#) – Local Requirements
- California Code of Regulations Title 19, Title 24 / Public Safety
- National Fire Codes (NFPA Vol.1-19) – (References)

This is a fluid document and will be updated or modified to maintain compliance with State or Federal Regulations, or Local Amendments. Appropriate standards will be added, if necessary, to assist developers with projects specific to the City of Santa Maria.

Thank you for considering doing business in the City of Santa Maria. We have provided some basic contact information should you choose to contact the Fire Department or Community Development Department:

Fire Department
314 W. Cook St. #8
Santa Maria, CA 93458
(805) 925-0951 ext. 8533
(805) 928-4746 fax
Email: fireprevention@cityofsantamaria.org

Community Development Department
110 S. Pine St. Suite #101
Santa Maria, CA 93458
(805) 925-0951 extension 2241
(805) 928-8275 – fax
Email: planning@cityofsantamaria.org
Email: building@cityofsantamaria.org

FIRE CHIEF
Santa Maria Fire Department

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Fire Safety Requirements

The following requirements are for all occupancies.

- 1) **Emergency Contact Information** - An Emergency Contact Information form shall be completed and returned to the Fire Department prior to the issuance of a building permit. This form provides information on emergency contacts for the general contractor and/or owners of the project after normal business hours. *(A copy of this form may be found in [Appendix A.](#))*

- 2) **Fire Department Key Box** – A Fire Department approved key box (Knox Box) shall be provided at the main entrance or tenant space. The box shall contain all of the keys necessary to allow the Fire Department access to all areas of the building or tenant space. The key box shall be installed to manufacturer specifications and placed five feet above finished grade. ***Location of the key box shall be indicated on the plans.***
 - Instructions for ordering a Knox products may be found on the Fire Department website at www.cityofsantamaria.org and may be ordered from the Knox Company website www.knoxbox.com.
 - The key box shall be installed prior to occupancy clearance.
 - A **Knox Box in the 3200 series** is the minimum acceptable box for commercial installations. Knox boxes identified as "Residential" shall not be used for commercial applications.

 - A hazardous materials key box will be required for all projects that intend to store reportable quantities of hazardous materials. This key box shall be installed at the main entrance and shall contain the Material Data Safety Sheets for the product stored, quantities stored, a floor plan detailing where they are stored, and keys allowing the Fire Department access to all areas of the building.
 - The hazardous materials key box shall be installed prior to final occupancy clearance.

Access Requirements

Fire Department access requirements shall be in accordance with California Fire Code Section 503, Appendix D, and the Santa Maria Municipal Code.

- 1) **Access Roads:** All-weather-surface access roads shall be installed and approved by the Fire Department prior to the start of combustible framing. Minimum road standards are as follows:
 - 4-inch Class II road base compacted to 95%. Upon completion, a compaction report from a certified soils engineer shall be submitted to the Santa Maria Fire Department.
 - Allow Fire Department access to within 150 feet of any portion of any building.
 - Overhead clearance shall be a minimum 15 feet, 6 inches.
- 2) **Temporary Access Roads:** Temporary access roads, fire hydrants and/or access issues shall be reviewed and approved by the Santa Maria Fire Department prior to construction. Temporary access roads shall be constructed with compacted base, curbs and gutters before combustible construction. The Fire Department recommends that temporary access and water issues be addressed during a pre-construction meeting to avoid project delays.
- 3) **Fire Lane Signs:** “No Parking, Fire Lane” signs shall be posted at **each** entrance. Signs shall be designed per Santa Maria Fire Department specifications. Fire apparatus access lanes and roads shall be identified by curbs painted red on both the top and face along the entire length of the fire apparatus access road. Where no curb exists or a rolled curb is installed, a six (6) inch wide red stripe or approved posted signs applied the full length of the fire apparatus access road shall be installed. The distance between signs shall be determined during plan review (*Signage shown in [Appendix A.](#)*)

Stencils shall be applied to the painted curbs, at the face and top of curb, at least every 100’ or at each “island” or other feature delineating the designated fire lane. The stencil shall indicate “FIRE LANE NO PARKING”, shall have letters 3” high with a stroke of at least .75”, and shall utilize “Highway White” paint.

Fire lane marking shall be indicated on building plans and shall be approved by the Fire Department before occupancy clearance is granted.
- 4) **Turnaround:** A dead end fire apparatus access road is required to have a turnaround or other means of egress as approved by the Fire Department when it exceeds 150’ in length. (*Examples are found in [Appendix A.](#)*)
- 5) **Temporary Fire Access Road Signage:** Fire Department access signage shall be placed at each entrance to the project during construction.
 - These signs, if required, shall be installed prior to combustible framing. (*Signage shown in [Appendix A.](#)*)

Water Supply Requirements

- 1) **Water Lines:** Water lines shall be installed per City of Santa Maria Public Works and NFPA Standards. Minimum main size for single-family residential developments shall be 6 inches and minimum main size for multi-family, commercial and industrial developments shall be 8 inches in diameter. Water lines shall be installed and operational prior to combustible construction.
- 2) **Fire Hydrants:** Fire hydrants shall be installed per the City of Santa Maria Public Works Standard WA-31, CFC Chapter 5, and CFC Appendix C.
 - To the extent possible, hydrants should be located at intersections to minimize the impact to on-street parking. Hydrant spacing may be altered to meet this need on a case-by-case basis.
 - The Fire Department shall inspect and approve all fire hydrant installations for operational readiness prior to combustible framing.
- 3) **Fire Hydrant Size and Outlets:** Fire hydrant size and outlets shall be determined by the fire code official.
 - Option #1 – one (1) 4.5” inch outlet, and one (1) 2.5” inch outlet.
 - Option #2 – one (1) 4.5” inch outlet, and two (2) 2.5” inch outlets.
 - Option #3 - two (2) 4.5” inch outlets, and one (1) 2.5” inch outlet.
- 4) **On-site Fire Hydrants:** On-site hydrants are required when any portion of the facility or building to be protected is in excess of 400 feet from a water supply on a public street, as measured by an approved route around the exterior of the facility or building. On-site hydrants may also be required to supply automatic fire systems utilizing fire department connections and to comply with CFC requirements. On-site hydrants shall be a minimum of 50 feet from any building.
- 5) **Fire Hydrant Protection:** All fire hydrants shall be protected from impact in accordance with Santa Maria City Standard WA-20.
- 6) **Hydrant Markers:** Blue dot fire hydrant location markers shall be installed for each hydrant. Installation location shall be 4 inches from the centerline of the roadway, on the hydrant side.
- 7) **Fire Department Connection (FDC).** FDCs shall be located on the front access side of buildings, fully visible and recognizable from the street or nearest point of fire department vehicle access. The FDC shall face the public street or fire lane fronting the protected building and be installed so the center line of the connection is a minimum of 36 inches above finished grade. FDC’s shall be within 40 feet of an approved roadway or driveway and arranged so that hose lines can be readily attached to the inlets without interference and located within **75 feet** of an approved fire hydrant. Knox Brand locking caps are required.

Fire Alarm and Sprinkler Plans Requirements

- 1) Fire alarm system and automatic fire sprinkler system plans shall be stamped by a Fire Protection Engineer, on each sheet/page, prior to submittal. Exceptions to this requirement will be considered on a case-by-case basis and will depend on the size and hazard of the protected property and the complexity of the design, in accordance with CFC Section 104.7.2.
- 2) Three levels of design/review will be considered:
 - Single-family dwelling, small tenant improvements and similar projects may be designed and submitted by C-16 (fire sprinklers) and C-10 (fire alarms) contractors licensed in California.
 - Certain commercial buildings and multi-family residential projects may be designed by C-16 or C-10 contractors. The system design shall be reviewed and stamped by:
 - a. California Licensed Fire Protection Engineer for fire sprinkler systems.
 - b. NICET IV Certified for fire alarm systems.
 - Large properties or those with hazardous contents, processes, or high-risk occupancies, shall be designed and stamped by a Fire Protection Engineer licensed in California.
- 3) All new fire alarm systems shall be certificated by Underwriter's Laboratory prior to occupancy clearance or final alarm test, and plans shall include a note referencing this requirement.

Hazardous Materials

Forms for hazardous materials business plan can be obtained through the Santa Barbara County Department of Environmental Health at:

225 Camino del Remedio
Santa Barbara, CA. 93110

Phone # (805) 681-4900
Fax # (805) 681-4901
E-Mail: phdehsweb@sbcphd.org

Web Site: <https://www.countyofsb.org/phd/ehs/home.sbc>

APPENDIX 'A'
FIRE DEPARTMENT STANDARDS

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SANTA MARIA FIRE DEPARTMENT
314 W. COOK STREET #8
SANTA MARIA, CA 93458
(805)925-0951 EXT. 2255
(805) 928-4746 FAX
fire@cityofsantamaria.org

EMERGENCY CONTACT INFORMATION

****FOR OFFICIAL USE ONLY****

This information will be utilized for notification purposes in the event of an emergency.

BUSINESS/PROJECT NAME: _____

BUSINESS/PROJECT ADDRESS: _____

FORM COMPLETED BY:

BUSINESS OWNER OR DESIGNEE

CONTRACTOR*

(*Information is valid during construction only, a new form will be completed by occupant after final.)

EMERGENCY CONTACT(S):

NAME: _____

HOME ADDRESS: _____

HOME PHONE: _____

NAME: _____

HOME ADDRESS: _____

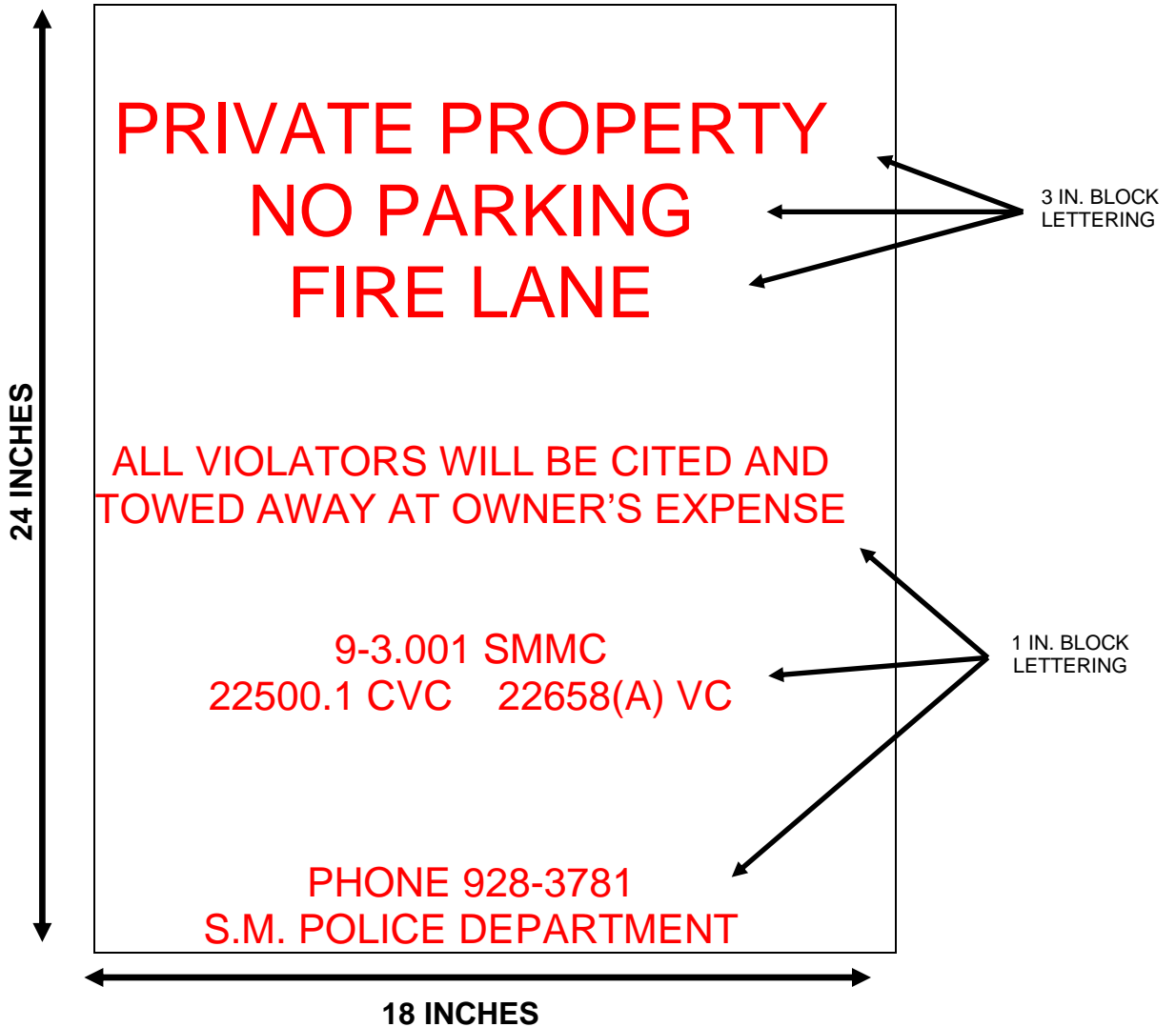
HOME PHONE: _____

NAME: _____

HOME ADDRESS: _____

HOME PHONE: _____

**SANTA MARIA FIRE DEPARTMENT
FIRE LANE SIGN REQUIREMENTS**



SIGN TO BE **WHITE** IN COLOR. LETTERING TO BE **RED** IN COLOR.
AUTHORITY: SMMC, TITLE 9-03.001,
SIGN TO BE MOUNTED SO BOTTOM OF SIGN IS 80 INCHES
ABOVE ADJACENT GRADE. SPACING TO BE 100 FEET APART.

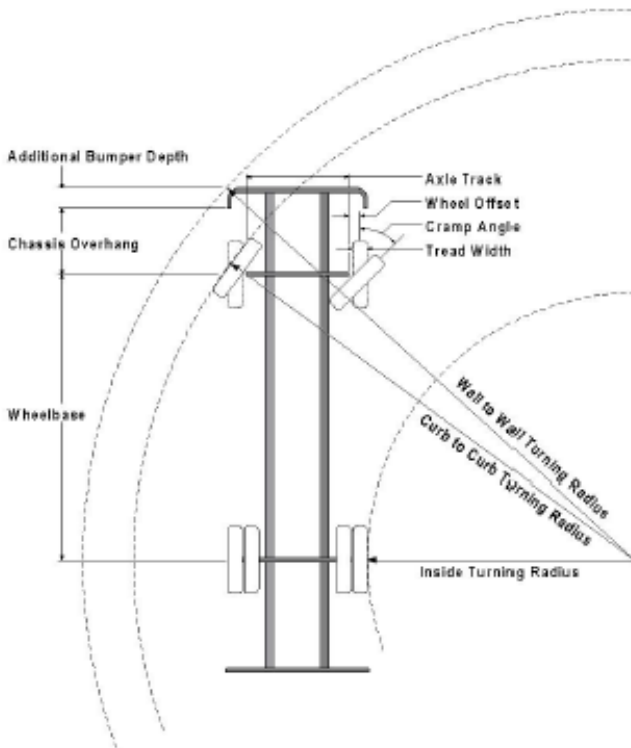


Turning Performance Analysis

04/05/2018

Bid Number: 426
Department: Santa Maria Fire

Chassis: Arrow XT Chassis, Tractor (Tiller)
Body: Aerial, Tiller, Alum Body



Parameters:

Inside Cramp Angle:	45°
Axle Track:	82.92 in.
Wheel Offset:	4.68 in.
Tread Width:	16.3 in.
Chassis Overhang:	68.99 in.
Additional Bumper Depth:	13 in.
Front Overhang:	81.99 in.
Wheelbase:	181.5 in.

Calculated Turning Radii:

Inside Turn:	14 ft. 1 in.
Curb to curb:	27 ft. 10 in.
Wall to wall:	31 ft. 10 in.

Comments:

Category	Option	Description
Axle, Front, Custom	0644046	Axle, Front, Oshkosh TAK-4, Non Drive, 24,000 lb, Qtm/AXT/DCF (425 Tires)
Wheels, Front	0019611	Wheels, Front, Alcoa, 22.50" x 12.25", Aluminum, Hub Pilot
Tires, Front	0677592	Tires, Front, Goodyear, G296 MSA, 425/65R22.50, 20 ply, Fire Service Load Rating
Bumpers	0606542	Bumper, 13" Extended, Arrow XT
Aerial Devices	0786790	Aerial, 107' ASL, Active Damping System. 750/500 Tip, 50 MPH Wind, Tiller

Notes:

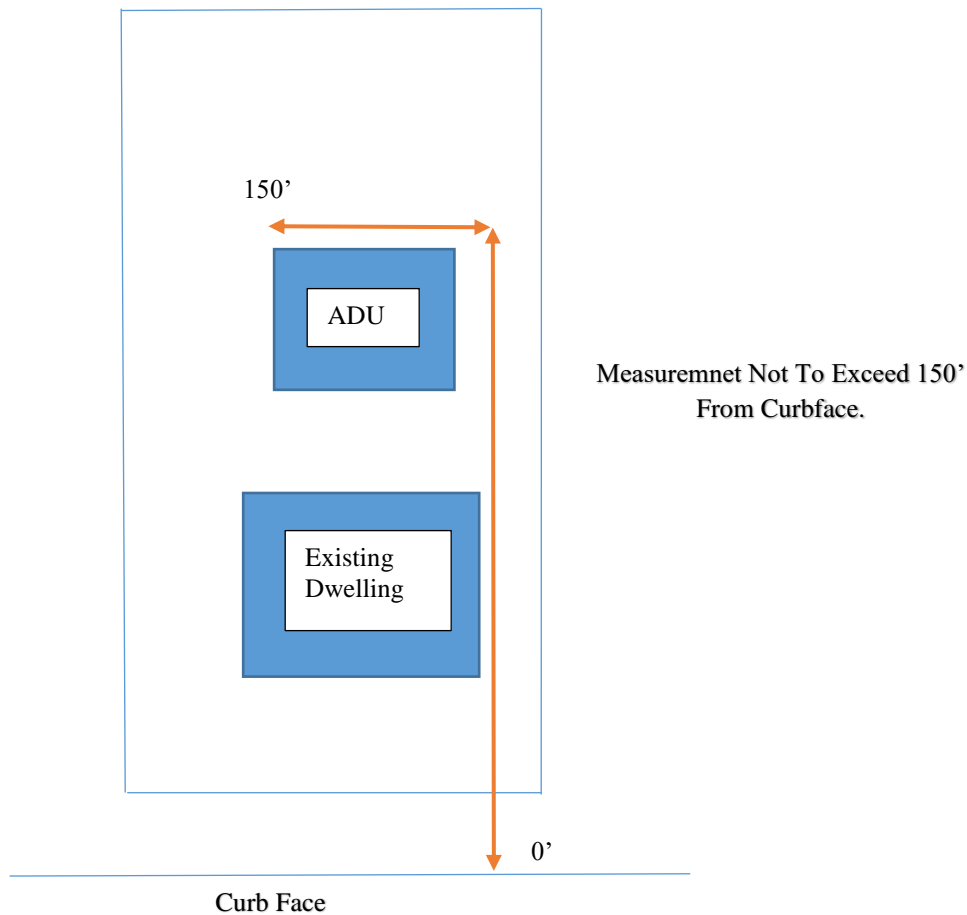
Actual inside cramp angle may be less due to highly specialized options.

Curb to Curb turning radius calculated for 9.00 inch curb.

Definitions:

Inside Cramp Angle	Maximum turning angle of the front inside tire.
Axle Track	King-pin to King-pin distance of front axle.
Wheel Offset	Offset from the center line of the wheel to the King-pin.
Tread Width	Width of the tire tread.
Chassis Overhang	Distance of the center line of the front axle to the front edge of the cab. This does not include the bumper depth.
Additional Bumper Wheel	Depth that the bumper assembly adds to the front overhang.
Wheelbase	Distance between the center lines of the vehicles front and rear axles.
Inside Turning Radius	Radius of the smallest circle around which the vehicle can turn.
Curb to Curb Turning Radius	Radius of the smallest circle around which the vehicle's tires can turn. This measures assumes a curb height of 9 inches.
Wall to Wall Turning Radius	Radius of the smallest circle around which the vehicle's tires can turn. This measures takes into account any front overhang due to chassis , bumper extensions and or aerial devices.

Fire Department Access



CFC Sec. 503.1.1 Buildings and Facilities

Approved fire apparatus access roads shall be provided for every facility, building or portion of a building hereafter constructed or moved into or within the jurisdiction. The fire apparatus access road shall comply with the requirements of this section and shall extend to within 150 feet (45 720 mm) of all portions of the facility and all portions of the exterior walls of the first story of the building as measured by an approved route around the exterior of the building or facility.

SANTA MARIA FIRE DEPARTMENT ACCESS ROADS & TURNAROUNDS

ACCESS ROADS

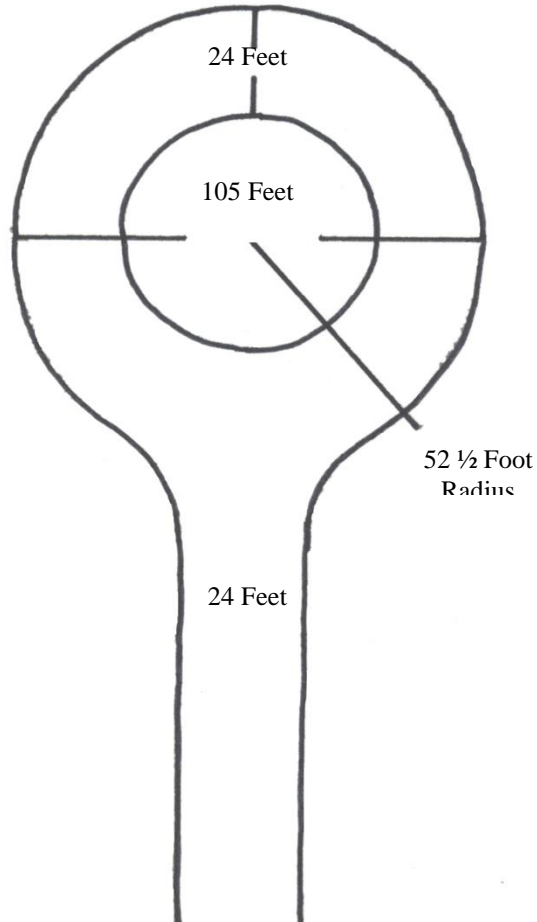
All weather surface access roads shall be installed prior to the start of framing.

Minimum road standards:

- a. 24 foot net minimum width.
- b. 4" Class II road base compacted to 95%.
- c. Allow Fire Department access within 150 feet of any portion of any building.
- d. 15 ½ foot overhead clearance.

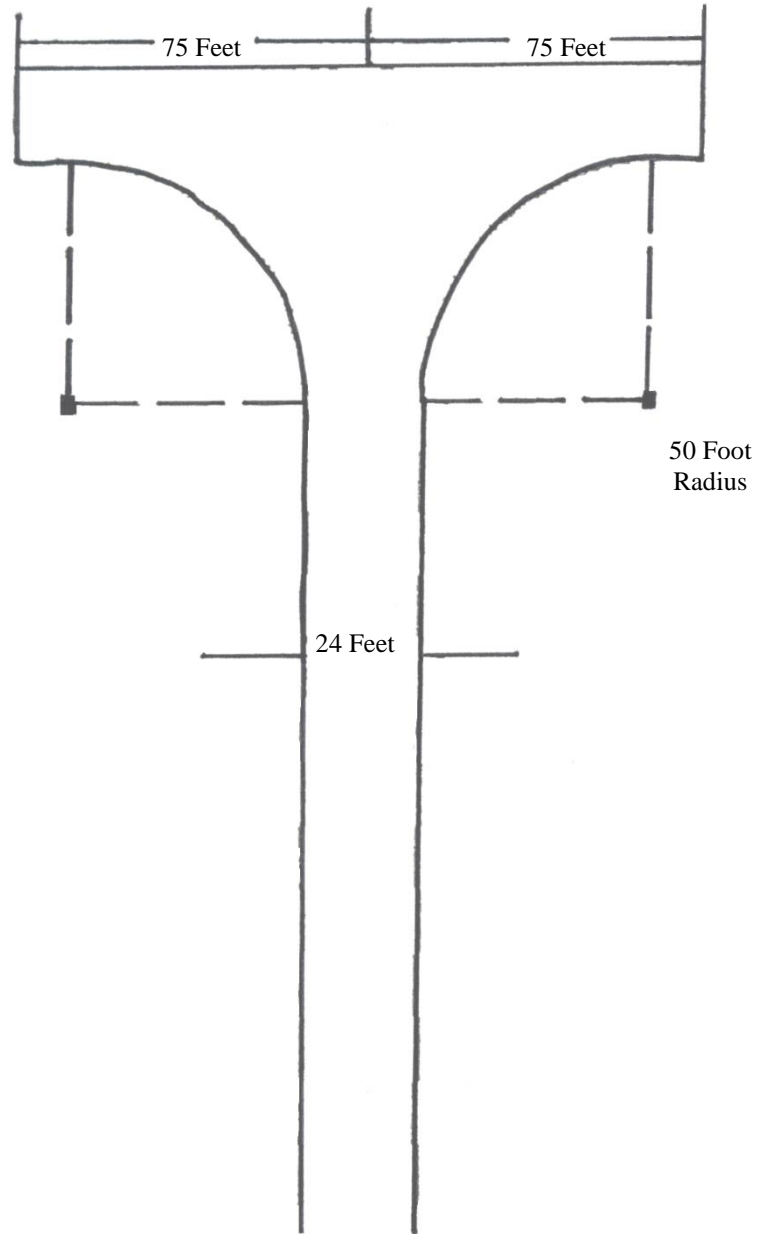
TURNAROUND TYPES AND DESIGNS

Turnaround #1 – Minimum turning path turnaround.



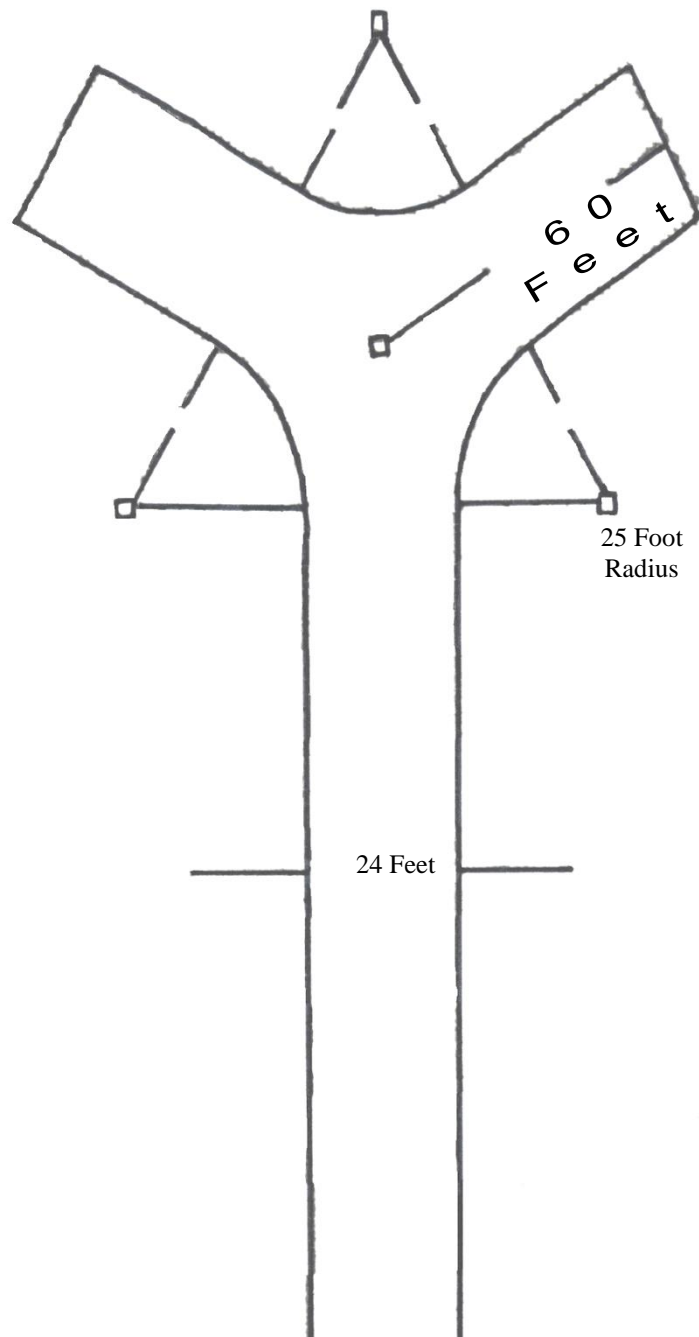
TURNAROUND TYPES AND DESIGNS (cont.)

Turnaround #2 – “T” or Hammerhead Turnaround.



TURNAROUND TYPES AND DESIGNS (cont.)

Turnaround #3 – “Y” or Three-Point Turnaround.



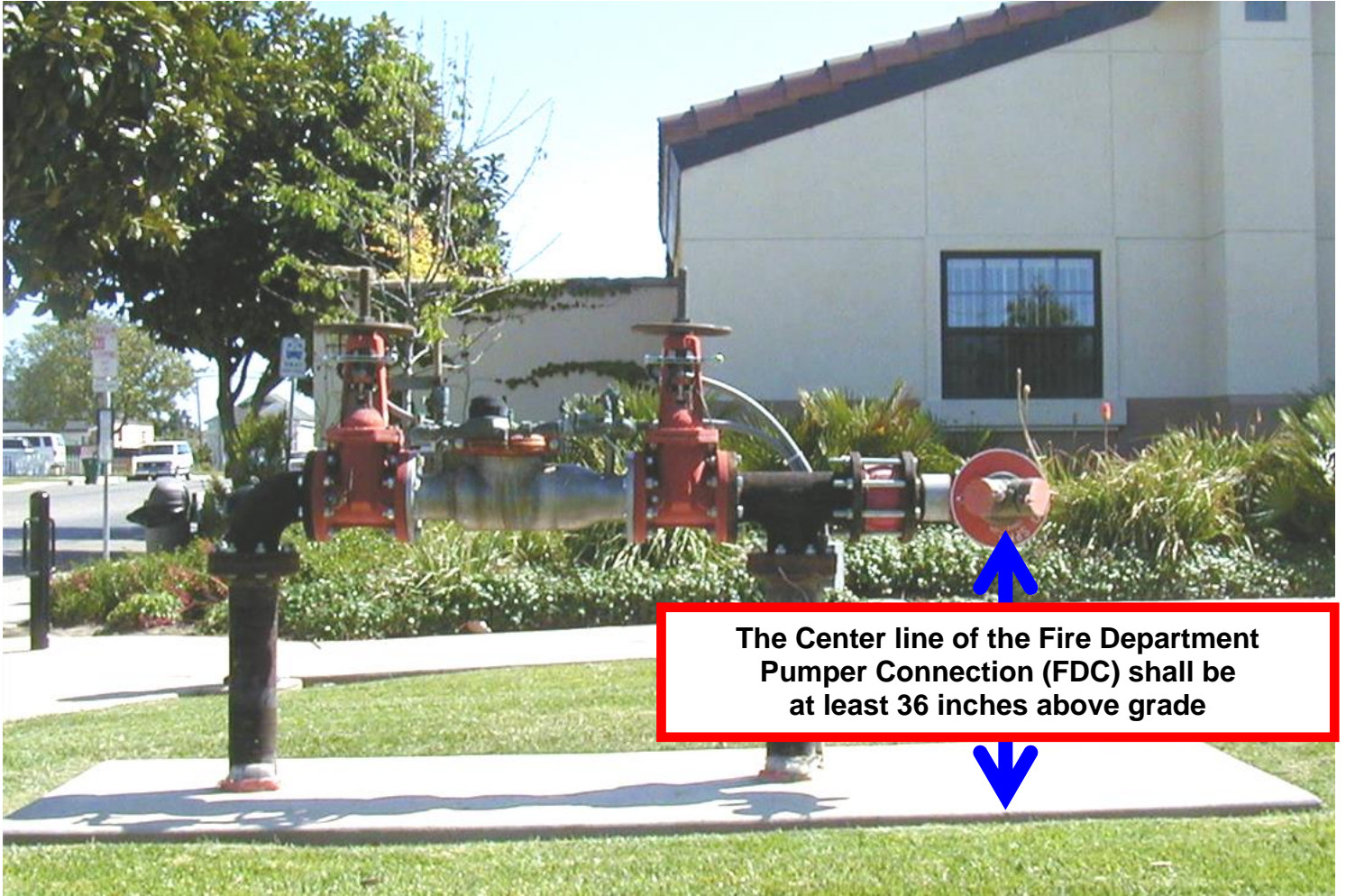


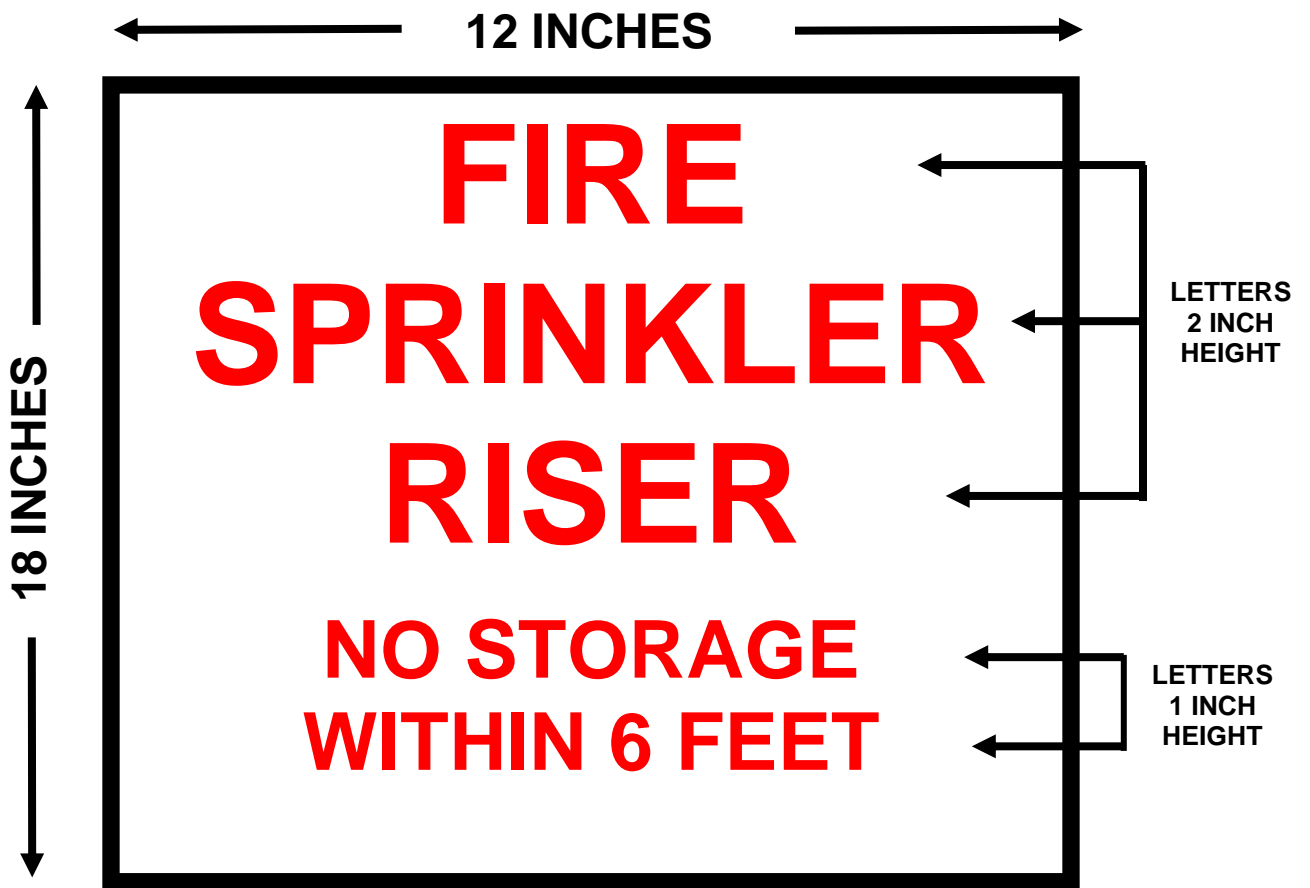
SIGN BACKGROUND SHALL BE WHITE

LETTERING SHALL BE RED

LETTERING SHALL BE A MINIMUM OF 8 INCHES IN HEIGHT

AND 1 INCH STROKE WIDTH

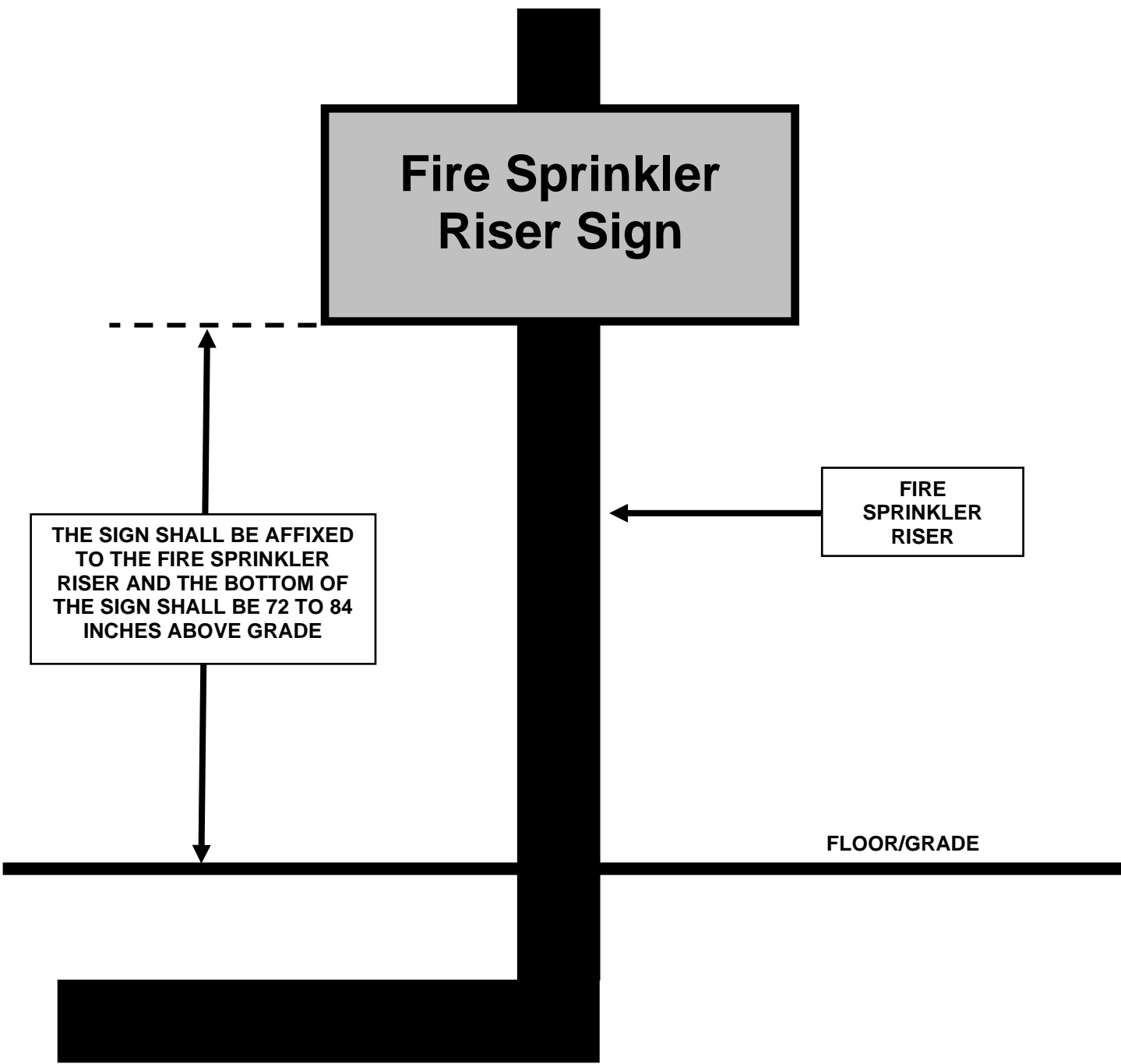




SIGN BACKGROUND SHALL BE WHITE

LETTERING SHALL BE RED

Fire Sprinkler Riser Sign



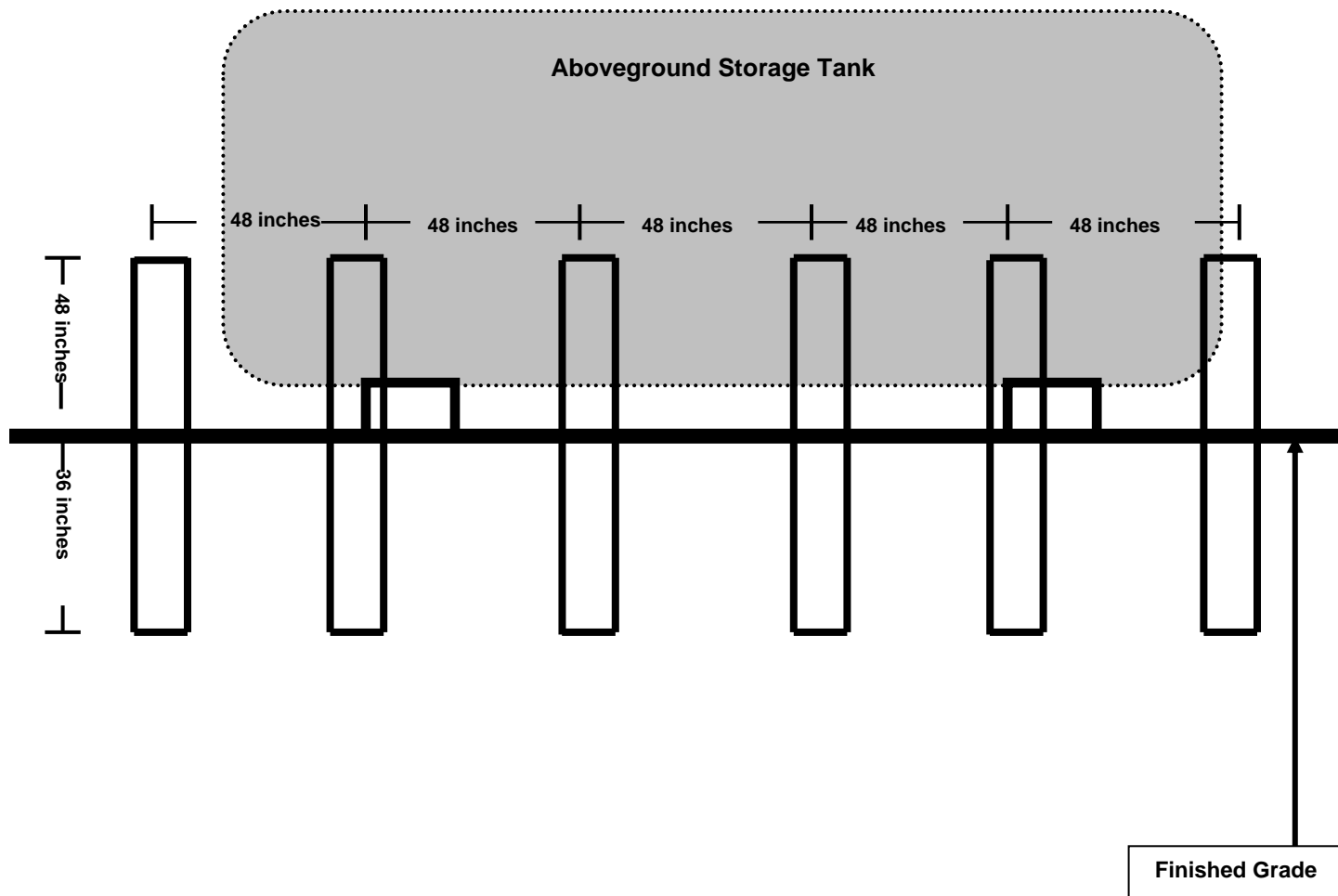
SANTA MARIA FIRE DEPARTMENT
FIRE SPRINKLER SYSTEM
SPRINKLER RISER CLEARANCE SIGNAGE
STANDARD SPECIFICATIONS

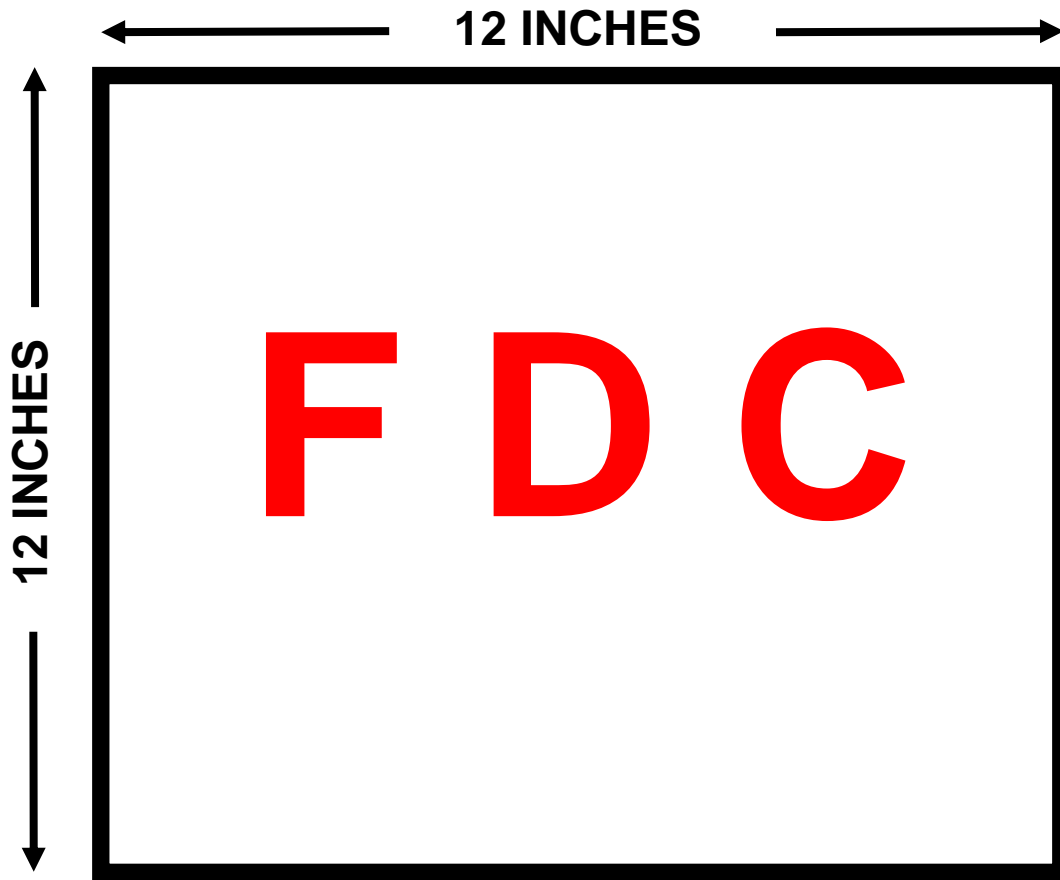
- The sign shall be .080 inch aluminum sheet, 12 inches wide by 18 inches high with 1 1/2 inch radius corners.
- Sign background shall be WHITE color.
- Sign lettering shall be RED color.
- Sign lettering shall be:
 - Lettering "**FIRE SPRINKLER RISER**" shall be two (2) inches in height and three-eighths (3/8) inch stroke.
 - Lettering "**NO STORAGE WITHIN 6 FEET**" shall be one (1) inch in height and one-quarter (1/4) inch stroke.
- The font style shall be Arial and in upper case (ALL CAPITALS)
- The sign shall be installed on the fire sprinkler riser in a manner that makes it clearly visible.
- The sign shall be installed so the bottom of the sign is between 72 and 84 inches above the adjacent grade.
 - Where the sign is exposed to vehicle or pedestrian traffic, the bottom of the sign shall be not less than 72 inches above the adjacent grade.***

Santa Maria Fire Department Impact Protection Design Standard for Aboveground Storage Containers of Flammable/Combustible Liquids and Gases

MINIMUM SPECIFICATIONS:

- Pipe shall be primed and painted with Dupont Imron 5000, Lime Green #N2650 (Alternative paint product may be substituted upon approval by the Fire Chief or designee).





SIGN BACKGROUND SHALL BE WHITE REFLECTIVE

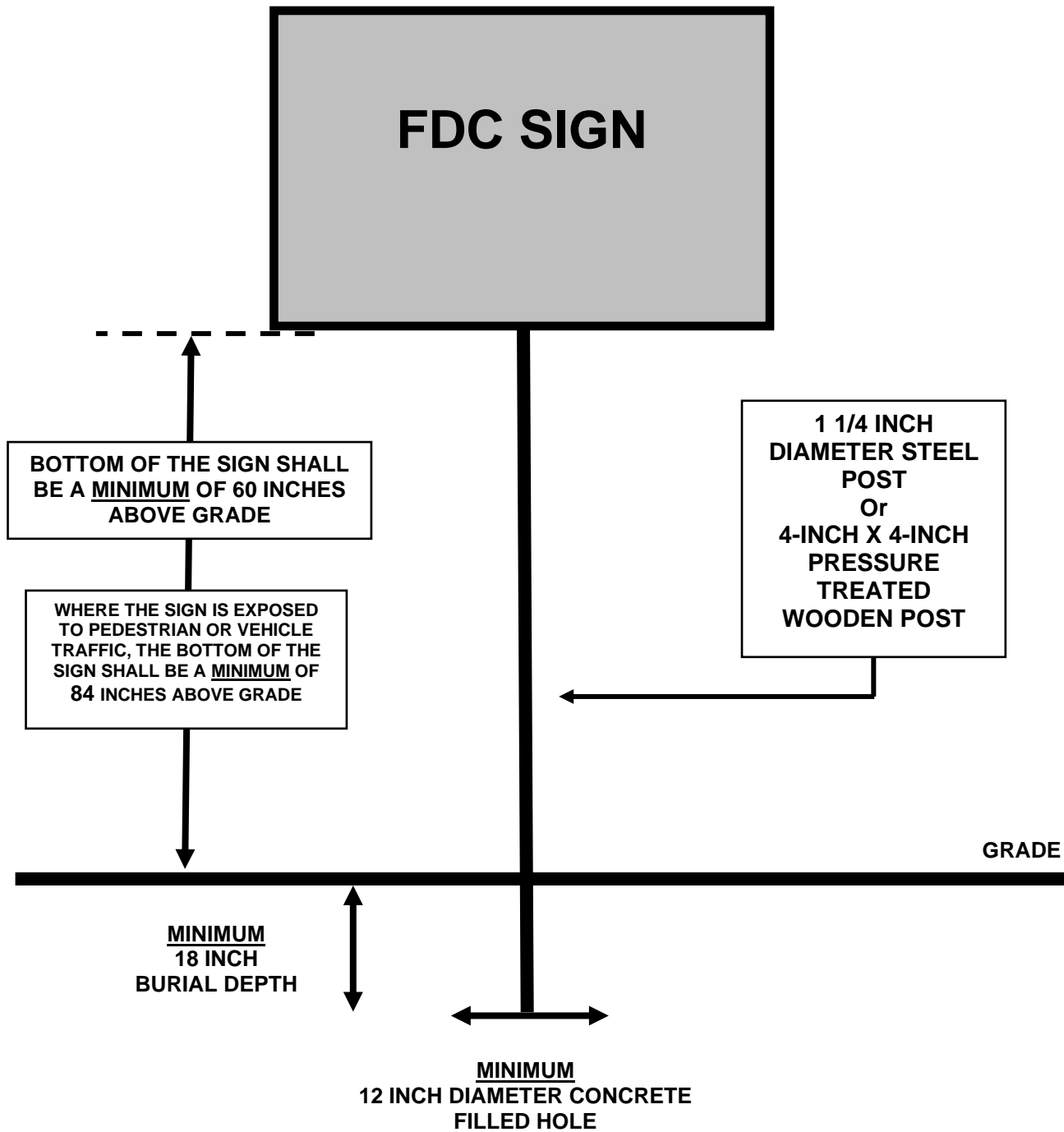
LETTERING SHALL BE RED REFLECTIVE

LETTERING SHALL BE A MINIMUM OF 6 INCHES IN

HEIGHT AND 1/2 INCH STROKE WIDTH

Santa Maria Fire Department Standard

2-15-2007



Santa Maria Fire Department Standard

3-13-2007

