

City of Cayce

Department of Public Safety

Fire Marshal Division



*Two Lavern Jumper Rd Cayce, SC 29033
Office (803) 550-9523 Fax (803) 794-2393*

Welcome to the City of Cayce Fire Marshal's Office. The fire marshal's division is dedicated to protecting our citizens and visitors of our city. Our office reviews the following fire plan-reviews under the current adopted 2015 International Building Code, International Fire Code, International Mechanical Code and all other codes or ordinances that might apply.

1. New Construction, Commercial, Multi Family, Renovations, Tenant-Upfits, Additions
2. Site Plan: Access, Waterline and Fire Hydrant Placement
3. Fire Protection: Fire Sprinkler, Standpipe, Fire Alarm, Fire Pumps, Wet Chemical Hood Systems, Clean Agents, Mechanical Smoke Systems, Hood Duct Systems

Plan Submittal

Plans can be submitted electronically (PDF, CD, Thumb Drive). One set of stamped plans are required for the fire review. All plans submitted shall have the correct physical address assigned to the project. This office has an approximately 10 working day turn around for plan reviews.

Provide one copy of the completed floor plan on a CD or Thumb Drive for the use of our division to create a Pre-Incident Response Plan.

Fire Stopping Detailed Shop Drawings (UL or FM) shall also be submitted to this office. A set of drawings shall be on the construction site at all times.

All required permits shall be on site at all times. If a permit for the scheduled inspection is not on site, the inspection will be required to be rescheduled.

A working fire hydrant with a 5 inch storz connection shall be within 300 ft of the construction site road travel distance prior to going vertical. Access to the construction site shall meet the weight of a 32 ton fire apparatus and shall have clearance around the construction site at all times.

Please see the last page in reference to the new fee schedule.

Fire Protection Plans Review Requirements

Fire Sprinklers

Full detailed plans with calculations

Backflow Preventers (Double Check)

Please see Fire Department Connection (FDC) special requirements

Fire Standpipe and Fire Pumps

Full detailed plans with calculations

Fire Alarm

Full detailed plans ** The fire alarm system shall be designed to meet the Building requirements and any future expansion.**

(Smoke & Heat Detectors, CO Detectors, DUCT Detectors, Flow Devices)

Wet Chemical, Clean Agent, Mechanical Smoke, Commercial Hood & Ducts

Full detailed plans

Emergency Response Radio Coverage BDA

All new and remodeled buildings are required to have approved radio coverage for emergency responders within the building based upon the existing coverage levels of the public safety communications systems of the jurisdiction at the exterior of the building. An outside emergency radio contactor shall perform the test. An approved plan shall be submitted to this office. Per the International Fire Code 510, a generator must be installed as a back-up source of power for the radio repeater.

Additional Requirements

- The address shall be posted on the building. The Numbers shall be legible and visible from the street. The numbers shall be 4 inches or larger.
- The City of Cayce requires Knox Box(s) to be installed on the outside of the building(s). Elevator boxes are required at each elevator lobby. Both boxes can be ordered on line at www.knoxbox.com . Just enter zip code 29033.

- An exterior Emergency Electrical Disconnect is required at the building electrical source.
- On a non fire sprinklered building, a fire hydrant with a 5 inch storz connection shall be within 300 ft road travel distance of the structure. No islands, trees, bushes or barriers etc. shall not be included when figuring the travel distance.
- On a fire sprinklered building, a fire hydrant with a 5 inch storz connection shall be installed within 40 ft of the Fire Department Connection (FDC). No islands, trees, bushes or barriers etc. shall not be included when figuring the travel distance.
- The fire department connection (FDC) shall be free standing or remote from the building. The connection shall be a single five (5) inch thread-less storz connection and shall have a 30-45 degree downward defection.
- A building over 16 foot tall shall have an approved permanent roof access.
- Attic access shall meet all the requirements so that firefighters wearing protective equipment can gain access to the attic area. IMC 306
- All electrical, mechanical and fire equipment rooms shall be labeled.
- All electrical and gas meters shall be labeled with address or suite numbers.
- Shall provide the classification on all floor coverings. It shall meet a Class One or Two rating.
- All business that has excessive amounts of chemicals shall post a NFPA 704 sign on the exterior of the building facing the street.





Storz FDC



Storz Fire Hydrant

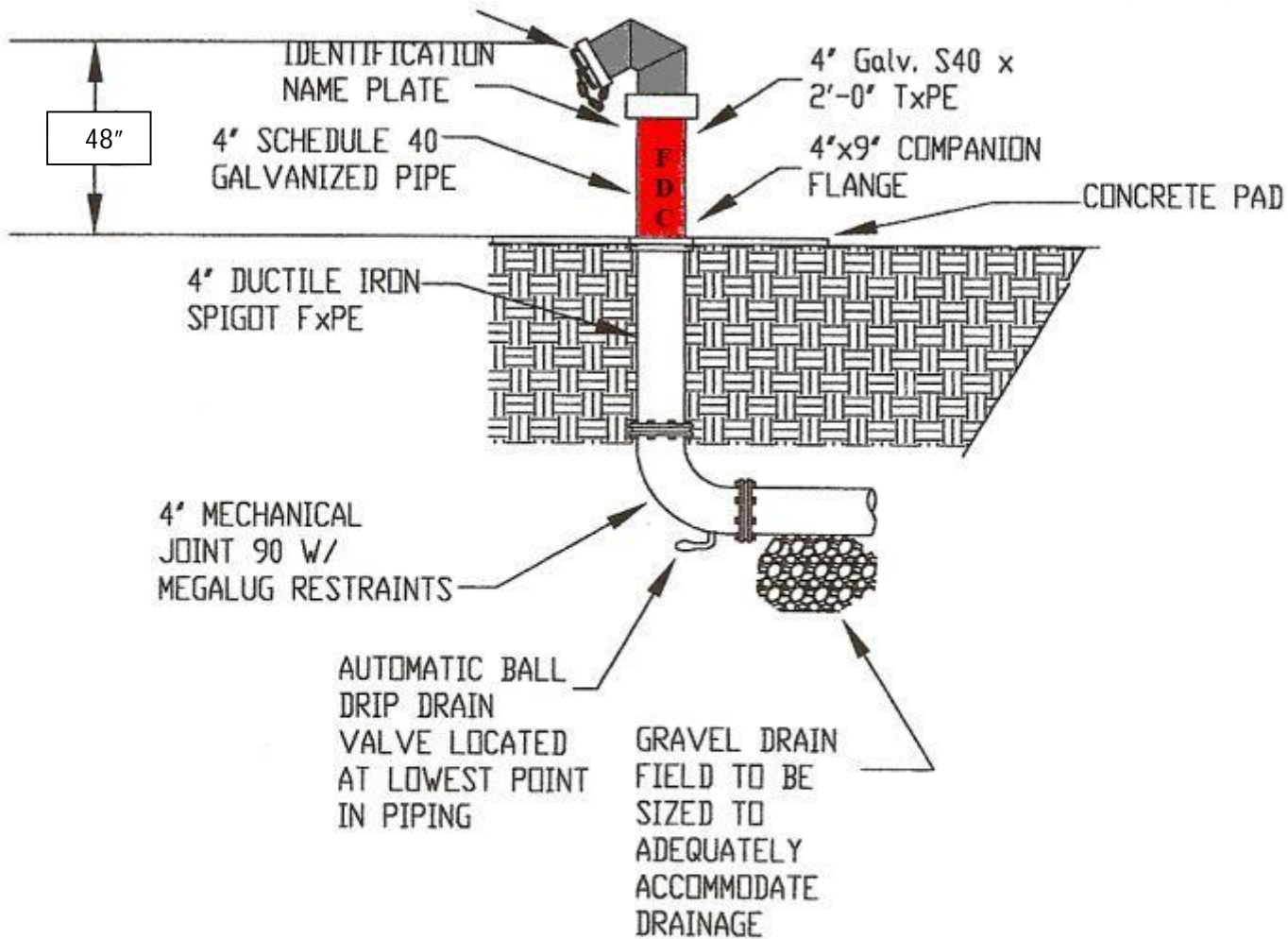
Fire Department Connection FDC Requirements

The City of Cayce requires the Fire Department Connection FDC to be a standalone connection. The connection must follow all International Fire Code and NFPA requirements. The FDC connection shall meet all test requirements.

1. The fire department connection FDC shall be a free standing and remote from the building at a distance from the building equal to 150 % of the height of the exterior wall.
2. The FDC shall be equipped with a signal five (5) inch Storz connection and shall have a 30-45 degree downward deflection. The Storz connection shall connect to the pipe outlet from the building using National Standard Threads. The FDC piping underground shall be equipped with a ball drip valve to ensure there is no standing water in the connection and that the piping does not freeze.
3. The FDC shall be arranged to face a paved roadway, sidewalk or other approved area and shall be installed so that it will not interfere with access to the building. The FDC shall be located within 40 feet of a fire hydrant.
4. The FDC shall be arranged so that the connection is no more than (48) inches above the finished grade, sidewalk or location of the connection.
5. The standing pipe to the connection shall be painted red and with 4 inch white letters FDC applied on top of the red painted pipe.
6. Where the FDC is subject to vehicle damage, the connection shall be protected per International Fire Code 312.

5"x4" BRASS 120° STORZ
FREE STANDING FDC
WITH KNOX CAP

Fire Department Connection FDC

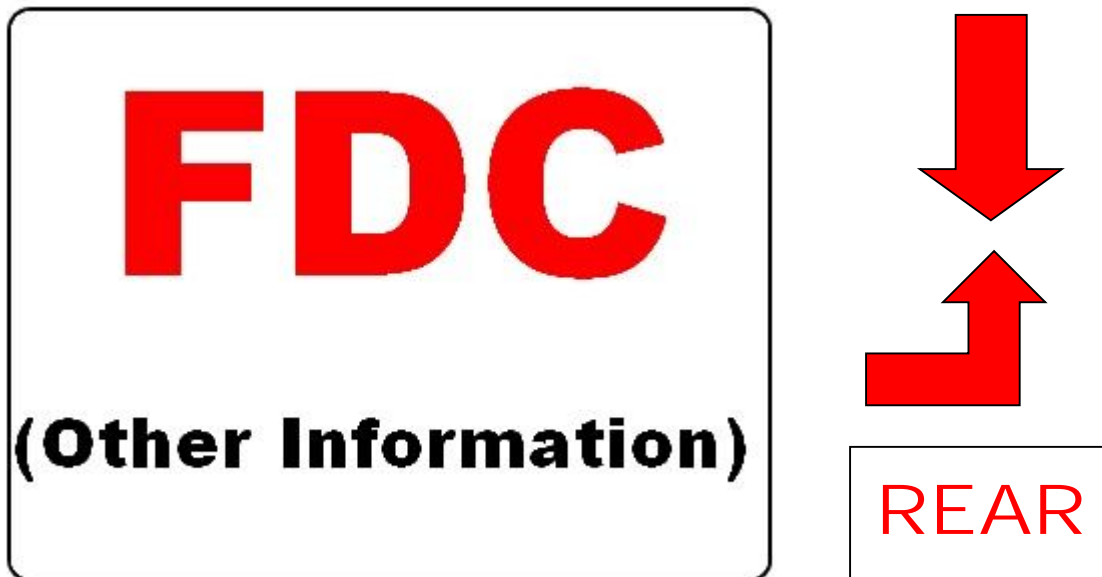


① F.D.C. DETAIL

SCALE: 1/2" = 1'-0"

Fire Department Connection Sign

Wherever the fire department connection (FDC) is not visible to approaching fire apparatus, the fire department connection shall be indicated by an approved sign mounted above the connection. If you have a standalone fire department connection, for instance on a parking lot island or along a street, the sign shall be posted on a post not blocking the connection. The sign shall be a minimum 14" inch wide and 12" high with a white back ground with red letters.



Directly under the FDC lettering other information is added as needed, such as the type of system, the areas of the building that the system serves, location, or a directional arrow.

July 1st, 2016 New Requirements

The Cayce Fire Marshal's Division is in the process of making several changes to the plans review and permitting process. Just recently, the City of Cayce adopted a new fee schedule for the fire marshals division. The new fees will go in affect July 1st, 2016 as part of the new 2015 code adoption. All plan reviews pertaining to the fire code submitted to our office will be assessed a fee along with a permit fee.

Please see the following fee list.

Plan Review Fees

Fire Sprinkler System

20 heads or less	\$50.00
21-50 heads	\$75.00
51-100 heads	\$100.00
101-200 heads	\$200.00
>200 (add \$50.00 for each additional 100 heads, or fraction thereof)	Max. \$500.00

Renovated or Remodel Fire Sprinkler or Fire Alarm System

(Same fees)

Kitchen Hood Extinguishing System

Each system submitted	\$75.00
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Construction Plans

Other Plans Not Listed	\$75.00
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Fire Alarm System

20 devices or less	\$25.00
21-50 devices	\$50.00
51-75 devices	\$75.00
76-100 devices	\$100.00
>100 devices (add \$25.00 for each additional 50 devices or fraction thereof)	Max. \$300.00

Fire Permit Fees

New Fire Sprinkler System

1-10 Heads	\$110.00
11-25 Heads	\$165.00
26-200 Heads	\$220.00
201 (first 200 heads \$200 Plus an additional \$0.50 per head over 200) Max.	\$2,000.00

Fire Sprinkler Modification

2-20 Heads	\$35.00
21-100 Heads	\$75.00
101-200 Heads	\$150.00
201 (first 200 heads \$100 Plus an additional \$0.25 per head over 200) Max.	\$2,000.00

2 Head modification not required to have a permit.

New Fire Alarm System

1-10 devices	\$100.00
11-25 devices	\$150.00
26-200 devices	\$220.00
201 (first 200 devices \$220 Plus an additional \$0.50 per device over 200) Max.	\$1,000.00

Fire Permit Fees Continued

Fire Alarm Modification

1-5 devices	\$35.00
6-25 devices	\$75.00
26-100 devices	\$150.00
101-200 devices	\$220.00
201 (first 200 devices \$200 Plus an additional \$0.50 per device over 200) Max.	\$1,000.00

Clean Agent Extinguishing System

1-50 Heads	\$150.00
51 (first 50 heads \$150 Plus an additional \$0.50 per head over 50) Max.	\$2,000.00

Wet Chemical and Clean Agent Systems

\$75.00

Standpipes Systems

\$75.00

Radio Repeaters BDA's

\$75.00

Carbon Dioxide Tanks 100 lbs or more

\$75.00

Tents 400 Square Feet or Larger

\$75.00

All Other Permits

\$75.00

Fire Marshal Fees

Re-inspection Fee

\$50.00

(Per building)

(New Construction/Remodels)

(No Show/Missed)

Fire Pump Test

\$150.00

Standpipe Flow Test

\$100.00

Each additional

\$50.00

Spray Paint Booths

\$200.00

(per booth)

Kitchen Hood Extinguishing System Test

\$150.00

Occupancy Card Request

\$30.00

Duplicate card

\$10.00

Property or Insurance Request

\$15.00

Fire Marshal Special Duty Rate

\$42.50 Per Hour