



Fire Marshal's Office
203 Commerce Blvd
Round Rock, TX 78664
Office (512) 218-6628
firemarshalsoffice@roundrocktexas.gov



Round Rock Fire Department Fire Marshal's Office Civil/Site Plan ESD-9 Submittal Checklist

This list is provided only to assist in preparation for a submittal and should not be interpreted as the submittal containing all appropriate and needed information. All plans will be reviewed in accordance with the ordinances adopted by the City of Round Rock. Civil/Site Plans **MUST** be submitted separately from the Building Plans. Combined Civil/Building Plans **will be rejected**. The following must be submitted with all Civil/Site Plan permit applications for review:

PLAN SUBMITTAL METHOD

- Provide 1 hard copy of the submittal **AND**
- Provide 1 electronic copy (PDF) of the submittal

COVER PAGE: cover must have the following information:

- Project Name
- Address
- Building Square Footage
- Building Height
- Occupancy Type/Use
- Construction Type per IBC/IFC definitions

REQUIRED PLAN COMMENTS: The following comments **MUST** be noted on the Civil Plan in the "General or Fire Plan Notes" section with this **exact verbiage** on plan:

- All weather access roads made of (**concrete or asphalt**) shall be in place before bringing combustible materials on the jobsite. Fire access road must support 80,000 lbs. Site hydrants shall also be in-service.
- The grade through the fire lane access shall not be greater than > 7% percent, and the grade breaks not greater >3% percent.
- The vertical clearance over a designated fire lane shall not be less than 13'6".
- A 3-foot clear space shall maintained around the circumference of all fire hydrants.

REQUIRED CITY OF ROUND ROCK DETAILS: include the following CORR details on plan:

- City of Round Rock fire hydrant detail
- City of Round Rock fire lane detail

GENERAL REQUIREMENT DETAILS ON PLAN: the following must be shown on plan:

- HYDRANT SPACING:** Commercial or multi-family properties shall have no more than 300 feet spacing between hydrants or no more than 500 feet for one- or two-family residential properties. Fire hydrants distancing shall be measured along an apparatus access road or fire lane around the exterior of the facility or building.
- WATER STORAGE for RURAL FIRE PROTECTION:** On-Site water storage is required if there is no water supply system with fire hydrants. N.F.P.A. 1142, AHJ Local Authority Having Jurisdiction.
- FIRE SPRINKLER SYSTEM:** Depending on the building occupancy type and square footage, fire

sprinklers may be required. Review Chapter 16-52 in the Fire Marshal City Ordinances.

- **HYDRANT to FDC DISTANCE:** Buildings equipped with any fire department connections (FDC) shall have a fire hydrant within 100 feet of the FDC. Remoting the FDC is allowed.
- **RISER ROOM ACCESS:** The riser room must have a man-door open to the exterior. Access to fire protection equipment shall be within 15 feet of an exterior door, or there must be wall mounted post indicator valves (WPIV) accessible from the exterior of the structure.
- **BACKFLOW PREVENTER:** If the fire sprinkler waterline is greater than 65 feet or 100 gallons from its water main connection, a backflow preventer shall be required in a vault.
- **EMERGENCY RESPONDER RADIO COVERAGE:** Adequate emergency responder radio coverage shall be required in all new buildings.
- **EXTERIOR FIRE ATTACK ACCESS:** All aspects of approved fire apparatus access roads must be reachable by fire attack hose within 150 ft. of all exterior walls of the first story of a building as measured by route of the fire lane for a non-sprinkled building or up to 200 ft fire attack reach on a sprinkled building. (Required fire attack hose line reaches shall be noted on the site plan) Once hose line reach locations have been determined, there must be a hydrant within 150 ft of the designated hose reach areas within the fire lane route.
- **TURNING RADII:** Turning radii shall be a minimum of 25' feet inside & 50' feet outside.
- **FIRE LANES:** Fire apparatus access roads shall have an unobstructed width of not less than 20' feet. Where the traffic is two-way, buildings are exceeding 30 feet or three stories in height, buildings exceeding 62,000 square feet, or where hydrants are located along the fire access roads the minimum width shall be 26' feet.
- **DEAD-END FIRE LANE:** Dead-end fire apparatus access roads exceeding 150 feet shall be provided with width and turnaround provisions. [2015 IFC International Fire Code Appendix D Section & Table D103.4](#)
- **RIGHT IN/RIGHT OUT CURBING:** Island curbing or questionable medians that compromise fire lane width must be (lay down or mountable curbing) that support 80,000lbs.
- **AERIAL APPARATUS ACCESS PROXIMITY:** Where the vertical distance between the grade plane and the highest roof surface exceeds 30 feet, approved aerial fire apparatus access roads shall be provided. The distance from the fire lane to building (15'ft. Minimum/30'ft Maximum) shall be positioned parallel to one entire side of the building, also requiring the fire lane width to be a minimum of 26' feet.
- **TWO POINTS of ACCESS:** When two accesses are required the required remoteness is at one half the diagonal distance apart of the lot or area being served. [2015 IFC International Fire Code Appendix D Section D-104.3](#)
- **GATES for FIRE APPARATUS ACCESS ROADS:** Shall not be less than 20' feet in width and comply with fire code.
- **MULTI-FAMILY RESIDENTIAL:** Projects having more than 100 dwelling units shall be equipped throughout with two separate and approved fire apparatus access roads not less than one half the length the maximum overall diagonal of the lot or area to be served.
- **ONE or TWO FAMILY RESIDENTIAL:** When the number of dwellings units exceed 30 the project shall have two separate and approved fire apparatus access roads, not less than one half the length the maximum overall diagonal of the lot or area to be served.