



Denison Fire Rescue 700 W. Chestnut Denison, TX 75020 Ph. (903) 464-4427 Fax (903) 465-3806

### FIRE SUBMITTAL GUIDE

#### Guidelines

The goal of the Denison Fire Rescue is to assist its customers in understanding our submittal, plan review and inspection process and policies, as they pertain to new construction. Familiarity with, and adherence to these guidelines can greatly assist you in compliance with local codes and ordinances, and aid in preparing for inspections.

This guide does not replace, any adopted codes and/or ordinances adopted by the City of Denison, or determination and positions of the Fire Chief or Fire Marshal.

To expedite the plan review and inspection processes, please refer to the information below.

- 1. All Fire Protection Systems plan submittals must be accompanied by a copy of a Texas Department of Insurance License; must be stamped and signed by a licensed Fire Protection Contractor or professional engineer.
- 2. Some Fire Protection Sprinkler plans require a third-party review by a licensed Fire Protection Contractor or professional engineer.
- 3. All inspections require a set of approved plans on the job site.

The contractor is responsible for ensuring that the system(s) being installed or serviced is in compliance with all adopted codes, but not limited to the 2018 International Fire Code with local amendments and NFPA Fire Codes.

Plans approved by the Denison Fire Rescue give authorization for construction. Final approvals are subject to field verification. Any approval issued by Denison Fire Rescue does not release the contractor or property owner from the responsibility of full compliance with all applicable codes and ordinances relating to the construction project.

### **Building Construction**

Building plans are reviewed to determine compliance with the Fire Departments requirements as they relate to building construction and layout, fire department access, protection in place, exiting and other issues as designated. These requirements can be found in the 2018 International



Fire Code with local amendments, as adopted by the City of Denison. It is recommended by the Fire Marshal's Office that a pre-construction meeting is requested to discuss your project. Please note that not all of the below requirements pertain to all plan submittals:

- 1. Type of occupancy. (i.e. Assembly, B Business, E Educational, I Institutional, M Mercantile, S Storage, etc.).
- 2. Indicate total square footage and/or square footage of each occupancy in multiple occupancy spaces.
- 3. Is the building to be provided with a fire sprinkler system, fire alarm system or other fire protection system?
- 4. Type of automatic sprinkler system (i.e. NFPA 13, NFPA 13R and NFPA 13D) if installed.
- 5. When determining the requirement for sprinkler protection, the total area under roof including overhangs, canopies, projections, or other permanent structure, beyond that of the building footprint, is included in the total area determination.
- 6. Type of construction (Type 1, etc.)
- 7. Number type, size, separation, width and arrangement of exits. An egress plan or life safety plan may be requested which indicates the required exits, path of travel distance to the exit and floor fixtures.
- 8. Wall and ceiling finishes shall be in accordance with the 2018 International Fire Code, Table 803.3, for all corridors, rooms and enclosed spaces.
- 9. Indicate any type of special hazards. (I.e. medical gases, dust operations, spraying operations, etc.)
- 10. Occupancy separation walls shall be in accordance with the 2018 International Building Code.
- 11. Flammable or combustible liquids tank storage.
- 12. Address must be legible from the street or fire lane.
- 13. Address must be provided at gas and electric meters and/or disconnecting means.
- 14. Provide emergency lighting in accordance with IFC 1008
- 15. Provide exit signs with lighting in accordance with IFC 1013
- 16. Knox Box entry system is required at front door and at exterior riser rooms.
- 17. All exit doors located in the means of egress that are capable of locking or latching shall be operable from the inside without the use of a key or any special knowledge or effort or provided with approved panic hardware.
- 18. Complete listing of **hazardous materials**. Please review IFC Chapter 50 for applicable requirements pertaining to construction and fire protection features.
- 19. **High-piled storage** is defined as the storage of combustible materials in closely packed piles of combustible material on pallets, in racks or on shelves where the top storage is greater than 12 feet in height. Please review IFC Chapter 32 for applicable requirements pertaining to high-piled storage.



### **Fire Protection Systems**

- 1. A Texas Department of Insurance licensed fire alarm contractor must install the Fire Alarm System. **Permit Required.**
- 2. A Texas Department of Insurance licensed fire sprinkler contractor must install the overhead Fire Sprinkler System. **Permit Required.**
- 3. A Texas Department of Insurance licensed fire sprinkler contractor must install the underground Fire Sprinkler System. **Permit Required.**
- 4. A Texas Department of Insurance licensed fire extinguisher contractor must install the Kitchen Hood/Paint Spray Booth Extinguishing System. **Permit Required.**
- 5. A Texas Department of Insurance licensed aboveground/underground storage tank contractor must install the storage tank system. **Permit Required**
- 6. Sprinkler and Fire Alarm Plans must have a third-party review as directed. All others must be submitted for Denison Fire Rescue review and approval.

# **Civil Plan – Commercial**

This guide is intended as a resource for the civil construction plans submittal requirements for commercial properties.

Civil construction plans consist of the approved site plan; roadways, fire lanes, landscape plans, water, sewer, drainage, and other utility plan drawings. Civil construction plans are reviewed to determine compliance with Denison Fire Rescue requirements as they relate to site construction and layout, building size, fire lanes, fire department access, fire hydrants, and other issues. These requirements can be found in the 2018 International Fire Code. Please ensure the following list if items are incorporated into the proposed civil construction plans.

### **Fire Access**

- 1. Emergency vehicle access shall be provided before any vertical construction begins.
- 2. Approved, unobstructed fire department access (fire lanes) shall be provided such that all portions of the exterior of the building shall be within 150 feet, as the hose lays, of a fire lane and/or public street.
- 3. Fire lanes must be shaded, or otherwise clearly marked on the plans.
- 4. Fire lanes must meet the following criteria:
  - a) Fire lanes must have a minimum width of 24 feet
  - b) Minimum clear vertical height clearance 14 feet
  - c) Access gates obstructing fire lane must provide a width of **not less than** 20 feet and require an approved access control system
  - d) Provide an all-weather driving surface (concrete or pavement)
- 5. Fire lane construction details must be included.



- 6. Dead end fire lanes in excess of 150 feet shall be provided with an approved turnaround.
- 7. Size, type and location of turnarounds are required to be approved by the Denison Fire Rescue.

#### **Fire Hydrants and Water Lines**

- 8. Existing fire hydrants shall be indicated on the plans.
- 9. Proposed new hydrants shall be indicated on the plans.
- 10. Location of valves.
- 11. Fire hydrant type and construction details.
- 12. Type and size of underground water lines serving the fire hydrants, and other utility services.
- 13. Size and location of the underground water line service for the sprinkler system.
- 14. Location and type of backflow prevention.
- 15. Fire hydrants shall be so spaced that all portions of the exterior of the building are within the following distances as the hose lays:
  - a) 400 feet for non-sprinklered properties.
  - b) 600 feet for sprinklered properties.
  - c) Spacing may be increased or decreased due to occupancy type and required fire flow.
  - d) Hydrants shall have one (4.5") inch steamer discharge port and two (2.5") inch discharge ports. Hydrants shall be right hand thread only. Direction to open counterclockwise.
  - e) Public hydrants will be silver with colored bonnet. Private hydrants will be red with colored bonnet.
- 16. Proposed location of the Fire Department Connection (FDC). Note that the FDC is required to be along the fire lane and within 100 ft., as the hose lies, of a fire hydrant.

#### **Building Size, Height and Location Requirements**

- 1 Minimum 10 feet clear width around the exterior of the building.
- 2 Building of facility size, in square feet, to be indicated on the site plan.
- 3 Building height to be indicated on the site plan.

### **Certificate of Occupancy Inspection**

In order to assist building owners and general contractors in receiving a Certificate of Occupancy for their business, the premises is inspected to identify fire related hazards and conditions. Listed below are the most commonly found fire code violations. The below listed items must be in



compliance prior to making an appointment for an inspection. An annual Fire Prevention Inspection will also be conducted at the business using these same guidelines.

#### **Exterior Features**

- 1. All fire lanes shall be completed prior to construction.
- 2. All fire lanes and access roads are clear and unobstructed.
- 3. Fire hydrants shall be completed and in working order prior to construction.
- 4. No accumulation of waste material.
- 5. Fire Department Connection (FDC) unobstructed with Knox locking caps and sign.
- 6. Address on front and rear exits shall be legible from the street and fire lane.
- 7. Address numbers on electric and gas meters and/or disconnecting means.
- 8. Knox Box located at the main entrance and riser room.

#### General

- 1. Storage clearance: un-sprinklered 24" to ceiling; sprinklered 18" to sprinkler heads.
- 2. Sprinkler heads clear of paint / overspray.
- 3. Ceiling panels in place
- 4. Clearance in front of electrical panels (36")
- 5. Empty slots in electrical panels are filled
- 6. Occupancy load posted.
- 7. Fire rated assemblies properly constructed and penetrations sealed.
- 8. Extension cord / multi adapter utilized per code.
- 9. Abatement of electrical hazards.
- 10. Mechanical/electrical/boiler rooms free from storage and combustibles.
- 11. Gasoline stored in proper location / container.
- 12. General housekeeping and precautions against fire.
- 13. Electrical receptacles must have cover plates installed.
- 14. All fire rated assemblies and fire doors intact.

### **Certificate of Occupancy Inspection**

#### Exits

- 1. Accessible means of egress.
- 2. Exits unlocked.
- 3. Exits are not blocked
- 4. Exit signs with lighting operational



- 5. Emergency lighting operational
- 6. All exit doors located in the means of egress that are capable of locking or latching shall be operable from the inside without the use of a key, tool or any special knowledge or effort, or provided with approved panic hardware.

### **Fire Protection Equipment**

- 1. Portable fire extinguisher(s) serviced and tagged within 1 year or manufactured in current calendar rear
- 2. Minimum 2A-10BC fire extinguishers per 3000 sq. ft, with a maximum travel distance of 75 ft. from any point within the building.
- 3. Sprinkler system (if required) tagged, in-service and deemed operational.
- 4. Alarm system (if required) tagged, in service and deemed operational.
- 5. Kitchen hood/spray booth, tagged, in service and deemed operational.
- 6. Fire protection equipment room(s), riser room labeled and access provided.

# Fire Sprinkler Underground (Permit Required)

These guidelines are to be followed when a business, facility or organization proposes to install an underground water supply serving an automatic fire sprinkler system, within the City of Denison.

All fire sprinkler system underground piping for the purposes of this guideline and any other guidelines or requirements of Denison Fire Rescue shall conform to the 2018 International Fire Code and NFPA 24. Knox locking caps are required on all Fire Department Connections.

### **General Plan Requirements**

- 1. All underground lines shall begin at the point of connection to the underground circulating public/private water main. A valve shall be provided at the point of connection such that the fire sprinkler underground service line can be isolated from public/private water distribution.
- 2. All underground lines shall terminate at the top of the spigot no more than 5 ft. inside the building.
- 3. All ductile iron, retaining rods, and other non-plastic components shall be externally coated for corrosion and poly wrapped.



### **Submittal Requirements**

- 1. A copy of your State of Texas Fire Sprinkler Underground or General license is required.
- 2. Provide two (2) sets of plans and one (1) digital set of plans.
- 3. Project Name.
- 4. Project Address.
- 5. A scaled copy of the site plan that indicates the location of all fire hydrants and fire lanes servicing the building site. The size and type of building shall be clearly indicated on the plan.
- 6. Size and location of all water supplies and/or water lines servicing the building or site.
- 7. Flow test data, shown on the plans.
- 8. Size and type of all piping identified on the plans.
- 9. Location of all valves.
- 10. Location and size of all thrust blocks.
- 11. Thrust block detail.
- 12. Detail of the spigot piece and/or in building riser turn.
- 13. Depth of bury. Minimum is 42 inches 3.5 feet.
- 14. Pit/Valve arrangement (if provided with a pit).
- 15. Type of fittings/joints, methods of connection and rod size.
- 16. Location and type of Fire Department Connection.
- 17. Location and type of backflow prevention.
- 18. All installations and/or operations must concur with the approved plans.
- 19. Submittals that do not conform to the minimum above requirements will not be approved.

### **Fire Sprinkler Underground – Inspection**

- 1. Visual.
- 2. Hydrostatic Test.
- 3. Flush.
- 4. (All done as one test)

### Fire Sprinkler Underground Hydrostatic Test

- 1. All new fire service mains shall be tested hydrostatically at not less than 200 psi pressure for a minimum of two hours, or at 50 psi pressure in excess of the maximum static pressure when the maximum static pressure exceeds 150 psi.
- 2. Any pressure loss of leaks will result in a failed inspection.



- 3. All piping must be exposed, with all joints and thrust blocks exposed, and labeling of the pipe must be visible and turned upward.
- 4. Hydrostatic test shall be made by the installing contractor in the presence of a representative from the Denison Fire Marshal office or approved representative.
- 5. It is recommended that the hydrostatic test be completed prior to cover of the underground piping. If a hydrostatic test is completed after the piping is covered and fails, the piping will be required to be uncovered, regardless of cover.

### **Fire Sprinkler Underground Flush**

- 1. All underground piping shall be thoroughly flushed **prior to** connecting to the system risers or other above ground piping system.
- 2. The minimum flow rate shall not be less than the water demand of the rate of the system, or not less than that necessary to provide a velocity of 10 ft/s, whichever is greater.
- 3. Flush shall be made by the installing contractor in the presence of a representative from the Denison Fire Marshal office or approved representative.

### Fire Sprinkler Underground Visual

- 1. All underground piping and joints must be uncovered and exposed, with labeling of the pipe legible from grade.
- 2. All thrust blocks will be visually inspected and must be uncovered and exposed.
- 3. Depth of bury of the pipe shall be measured and verified.
- 4. Visual inspection shall be made by the installing contractor in the presence of a representative of the Denison Fire Marshal office or approved representative.
- 5. Fire line valve box must be red.

# Fire Sprinkler Systems (Permit Required)

These guidelines are to be followed when a business, facility or organization proposes to install or modify an automatic fire sprinkler system within the City of Denison. These guidelines are not to be interpreted as to contain all data required for proper design, installation, or approval.

This guide does not replace, nor super cede any adopted codes and/or ordinances adopted by the City of Denison, or determinations and positions of the Denison Fire Rescue.



#### **Performance and Installation Requirements**

- 1. Automatic sprinkler system should be installed in compliance with all adopted codes, but not limited to, 2018 International Fire Code with local amendments and the NFPA Fire Codes.
- 2. Automatic Sprinkler System Room Access. Sprinkler system risers providing protection for buildings with multiple tenant spaces must be located in a ground floor room directly accessible from the exterior. The door must be labeled as the riser room. Buildings with single tenants may access the riser location from the interior of the building.
- 3. All valves controlling the water supply for automatic sprinkler systems and water-flow switches on all sprinkler systems, with the exception of fire department hose connections, shall be electrically supervised. (IFC 903.4 & 905.9).
- 4. An approved, weatherproof, audible/visual device shall be provided on the exterior of the building in an approved location. The location shall be above the Fire Department Connection (FDC).
- 5. The FDC shall be clear, unobstructed and marked with a sign.
- 6. The FDC shall be installed between 18 in. and 48 in. above grade.
- 7. Inspector test connections, drains and ball-drips shall be piped directly to the exterior.
- 8. Riser rooms shall be permanently heated, and such heating appliance shall be hard-wired to the building electrical distribution system.
- 9. All riser rooms shall be large enough to accommodate maintenance and testing activities.
- 10. Dry-system air compressors shall be hard wired.
- 11. Piping and connections shall not be painted prior to visual inspection.
- 12. Upholstered furniture or mattresses:
  - a Group F-1 used for manufacturing and exceeds 2500 sq ft shall provide automatic sprinkler system
  - b Group M for the display and sale that exceeds 5000 sq ft shall provide automatic sprinkler systems
  - c Group S-1 used for storage and exceeds 2500 sq ft shall provide automatic sprinkler systems
- 13. Woodworking operations:
  - a Automatic sprinkler systems shall be provided throughout all group F-1 occupancy fire areas in excess of 2500 sq ft in area that generates finely divided combustible waste or use finely divided combustible materials.

#### **Plan Review**

- 1. Third party plan review may be required for all sprinkler systems.
- 2. The plans will be reviewed based on the requirements in the International Fire Code, 2018 Edition with local amendments and NFPA 13



# Fire Alarm Systems (Permit Required)

All fire alarm systems shall conform to the 2018 International Fire Code with local amendments and NFPA 72.

# **Submittal Requirements**

- 1. A copy of your State License
- 2. Two (2) sets of plans and one (1) digital set of plans
- 3. A floor plan which indicates the use of all rooms
- 4. Locations of alarm-initiating and notification appliances
- 5. Alarm control and trouble signaling equipment
- 6. Annunciation
- 7. Power Connection
- 8. Battery Calculations
- 9. Conductor Type and Sizes
- 10. Voltage Drop Calculations
- 11. Manufactures, Model Numbers and Listing Information for Equipment, Devices and Materials
- 12. Details of Ceiling Height
- 13. The Interface of Fire Safety Control Functions

# **Plan Review**

- 1. Third party plan review may be required for fire alarms.
- 2. The plans will be reviewed based on the requirements in the International Fire Code, 2018 Edition with local amendments and NFPA 72

### **Commercial Kitchen Suppression Systems (Permit Required)**

These guidelines are to be followed when a business, facility or organization proposes to perform cooking operations that involve grease-laden vapors, within the City of Denison. This guideline identifies protection for cooking surfaces which include; deep fat fryers, griddles, upright broilers, char broilers, range tops and grills, open face ovens and other similar equipment. The plenum space within the hood, above the filters and the exhaust ducts servicing the hood shall also be protected.



All commercial cooking operations for the purposes of this guideline shall conform to the International Fire Code 2018 and NFPA 17 & NFPA 17A.

#### **Performance and Installation Requirements**

- 1. The piping shall be rigidly supported to prevent excessive movement and shall be protected from mechanical or other damage.
- 2. Both a manual and automatic means of activation shall be provided. A minimum of one manual activation pull station shall be provided in the path of egress and shall be located no more than 5 feet above the floor.
- 3. Where multiple manual actuators are installed for protection of separate extinguishing systems, they shall be clearly identified as to the hood being protected.
- 4. Activation of the fire suppression system shall automatically shut-off the fuel supply.
- 5. The fire suppression system shall be interconnected to the building fire alarm system. If no alarm system; must have audible alarm.
- 6. Fire suppression systems shall be installed only by companies and individuals licensed by the State of Texas State Fire Marshal's Office.

#### **Submittal Requirements**

- 1. The plans will be reviewed based on the requirements in the International Fire Code 2018 edition and NFPA 17A.
- 2. Two (2) sets of plans and one (1) set of digital plans shall be submitted.

### **Aboveground Storage Tanks (Permit Required)**

These guidelines are to be followed when an aboveground storage tank is moved, installed, or otherwise added, within the City of Denison.

All aboveground storage tank requirements for the purposes of this guideline and any other guidelines or requirements of Denison Fire Rescue shall conform to the 2018 International Fire Code and NFPA 30.

This guide does not replace, nor super cede the fire code or determinations and positions of the Fire Chief or Fire Marshal.

#### **Aboveground Storage Tank Requirements**

1. Tanks must be installed by a licensed or approved aboveground storage tank installer.



- 2. Approved flame arrestors and venting devices shall be installed in all vent lines.
- 3. The tank(s) shall be provided with secondary containment. All tanks must meet or exceed UL 142.
- 4. The tank(s) must meet, or exceed UL 2085 when subject to vehicular impact.
- 5. When the installation location may be subject to vehicular impact, bollards designed IFC section 312 must be installed.
- 6. The tank must display the UL listed placard.
- 7. A leak detection device must be installed, equipped with on-site and/or visual warning devices, as approved by IFC 2018 and NFPA 30.
- 8. A spill container having a capacity of not less than 5 gallons shall be provided at each fill connection.
- 9. Appropriate labeling and signs in accordance with IFC 2018 must be provided.
- 10. A permanent sign shall be placed at the fill point for the tank, documenting the filling procedure.
- 11. "Smoking or Open Flame Prohibited"
- 12. Emergency procedure sign.
- 13. A placard specifically identifying the material therein.
- 14. Must have an emergency shut off.

#### **Submittal Requirements**

- 1. The submittal package must include all above requirements and such requirements shall be identified in the submittal package.
- 2. Site plan drawings of the installation location and layout, to include:
- 3. Primary and/or emergency power hookups (if provided).
- 4. All buildings and structures
- 5. Fire lanes and fire hydrants.
- 6. Location(s) of other dispensing locations (if remote) and other tanks (if provided).
- 7. A full equipment listing of all tanks, piping, valves, and other equipment.
- 8. Plan drawings to include the above requirements shall be submitted for review and approval, **prior** to installation.
- 9. Provide documentation of tank testing and ability to hold a vacuum.

# **Underground Storage Tanks (Permit Required)**

These guidelines are to be followed when an underground storage tank is moved, installed, or otherwise added, within the City of Denison City Limits.



All underground storage tank requirements for the purposes of this guideline and any other guidelines or requirements of the Denison Fire Rescue shall conform to the 2018 International Fire Code and NFPA 30.

This guide does not replace, nor super cede any adopted codes/or ordinances adopted by the City of Denison, or determinations and positions of the Fire Chief or Fire Marshal.

#### **Underground Storage Tank Requirements**

- 1. The tank must be installed by a TCEQ licensed underground storage tank installer.
- 2. Approved flame arrestors and venting devices shall be installed in the vent lines.
- 3. Emergency venting shall meet the requirements of NFPA 30 and IFC Chapter 57.
- 4. The tank must display the UL listed placard.
- 5. A leak detection system must be installed and provided with approved vapor and liquid detection, equipped with on-site audible and/or visual warning devices as approved by IFC 2018 and NFPA 30.
- 6. A spill container having a capacity of not less than 5 gallons shall be provided at each fill connection.
- 7. An overfill prevention system shall be provided for each tank to prevent being filled in excess of 95% capacity.
- 8. **Leak detection;** underground storage tank systems shall be provided with an approved method of leak detection from any component of the system that is designed and installed with NFPA 30.
- 9. A permanent sign shall be placed at the fill point for the tank, documenting the filling procedure and tank calibration chart.
- 10. Antisiphon devices shall be installed in each pipe connected to the underground storage tank, where the piping extends below the level of the tank.
- 11. Emergency shut offs shall be provided during filling and dispensing operations.
- 12. Pump dispensing devices shall be equipped with vapor-recovery connections.
- 13. Thrust blocks, safety straps or other suitable means of restraint must be installed foreach underground tank and each change in direction of the pipe.
- 14. Appropriate signage "Smoking or Open Flame Prohibited".
- 15. An approved emergency procedure sign.
- 16. A placard specifically identifying the material therein. NFPA 704
- 17. Any additional requirements of NFPA 30 and/or IFC 2018 chapter 57 shall also be met.



# **Underground Storage Tanks (Permit Required)**

# **Submittal Requirements**

- 1. The submittal package must include all above requirements and such requirements shall be identified in the submittal package.
- 2. Provide a written description of the operation and contents of the tank(s) and any associated piping and/or systems.
- 3. Site plan drawing of the installation location and layout to include; all buildings and structures, fire lanes and fire hydrants, location of tank(s), vent lines, underground product lines, leak detection, dry sumps, and dispensing locations.
- 4. A full equipment listing of all tanks, piping, valves and other equipment.
- 5. Plan drawings shall show the actual install layout, including all piping and pumps.
- 6. Provide documentation of tank testing and ability to hold a vacuum.
- 7. No underground storage tank(s) or associated equipment may be installed, located, or otherwise manipulated on the site until a UST Permit is issued.

# **Tent/Membrane Structure (Permit Required)**

These guidelines are to be followed when a group or facility within the City of Denison is requesting the use of a temporary structure. A temporary structure shall be a tent, canopy air supported or tension membrane structure.

All Tent and Membrane Structures for the purpose of this guideline and any other or requirements of Denison Fire Rescue shall conform to the 2018 International Fire Code.

This guide does not replace, nor super cede and adopted codes by the City of Denison or determinations and positions of the Fire Chief or Fire Marshal.

### Where Required

A permit is required when the tent or membrane structure has an area in excess of 400 sq. ft.

#### **Tent/membrane Structure Requirements**

- 1. A minimum of 20 ft. clear width shall be provided around the tent, and not closer than 20 feet to lot lines, buildings, or other temporary structures. Support ropes and guy wires are not included.
- 2. The structure shall not be located within a fire lane or public street.
- 3. Fire apparatus access shall be provided.



- 4. Smoking, cooking or use of open flame in the tent shall not be permitted.
- 5. Approved "No-Smoking signs shall be conspicuously posted.
- 6. Exits, with a minimum width of 6 ft. each shall be provided and kept clear at all times.
- Certification or affirmation of the following shall be provided from the manufacturer or providing agency; Fire Resistance Rating Provided, Date Last Treated, Type of Chemical
- 8. Hay, straw, shavings or similar combustibles materials shall not be located within any tent or air-supported structure.
- 9. If heating or cooking appliances are approved, they shall not be located within 10 ft. of an exit or combustible materials.
- 10. A minimum of one 2A-10BC fire extinguisher shall be provided of each tent less than 3000 sq. ft. or less than 75 ft. across.
- 11. All applicable requirements of IFC 2018 Chapter 31 shall be met.

### **Tent Membrane Structure**

#### **Submittal Requirements**

- 1. A detailed site and floor plan.
- 2. Indicate details of the means of egress, seating or occupancy capacity, locations of fire extinguishers
- 3. Use of tent or membrane structure, cooking or heating appliance
- 4. Certification of fire resistance rating, date last treated and chemical.
- 5. Plans approved by the Denison Fire Rescue, gives authorization for construction. Final approvals are subject to field verification. Any approval issued by Denison Fire Rescue does not release the contractor or property owner from the responsibility of full compliance with all applicable codes and ordinances.
- 6. Installation, fabrication or otherwise construction of the system is prohibited without approved plans and permit.

### **Submittal of Plans**

All plans should be submitted to the building department located at 300 W. Main Street. Fire protection contractors must be registered with the City of Denison. A fire permit application must be filled out for each permit. Each system will require a separate permit.

You cannot begin any work until plans has been approved and payment has been received. Work must be done according to the plans submitted by a licensed fire contractor.



# System(s) Acceptance

Upon completion of your work, you must call the Fire Marshal's Office to schedule an inspection. Please allow at least twenty-four (24) hours' notice for this inspection.

(For Official Use Only)

### FIRE SUBMITTAL GUIDE (FSG) REVISION HISTORY

#### **Directions:**

Any revisions made in the FSG will have the revision identified in the last two (2) pages of the FSG in the "APPROVED REVISION HISTORY".

#### **APPROVED REVISION HISTORY**

Original Document: 6/10/2019 Revision A: 1/26/2021 \_\_\_\_\_



Address of Project:		_
Company Name:		_
Printed Name:		
Signature:		
Date:		
(I	For Official Use Only)	

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Original Document: 6/10/2019 Revision A: 1/26/2021