



PROSPER FIRE RESCUE

FIRE MARSHAL'S OFFICE

PO Box 307

1500 E. First Street

Prosper, Texas 75078

Phone (972) 346-9469 Fax (972) 347-3010 www.prosperfire.com

Ventilation Hood Suppression Plan Submittal Guidelines

These guidelines are provided as an aid to successful prompt plan review and to insure the minimum information required to inform the extent and intent of the work proposed in the town of Prosper based on the documentation requirements of the adopted national standard NFPA 17A. This document includes examples of information presented as figures, tables and best practice recommendations. These examples are not intended to establish the only forms by which this information may be presented.

The following are the codes & standards in force in the Town of Prosper Ordinance/Amendments

- International Fire Code 2015
- International Building Code 2015
- International Mechanical Code 2015
- Most current published edition of NFPA 17A
- Manufactures Installation Instructions
- Most current published edition of NFPA 96

Spring 2019

For additional information see our web page at www.prospertx.gov/fire-department/fire-marshal/

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3rd Party Plan Review Policies

To meet the increasing demands from growth in our community, the following Fire Marshal's Office interim directive announces effective March 1, 2017.

Bureau Veritas is the exclusive 3rd Party firm for plan review firm for all "Commercial Construction Fire Service" related projects. **(All related expenses are the responsibility of the contractor, owner, or designated agent).**

Please contact Bureau Veritas at 817-335-8111 for document handling requirements.

System types shall include:

- Underground fire service
- Aboveground sprinkler suppression systems
- Fire Alarm systems
- Kitchen hood suppression systems
- Alternative suppression systems
- Controlled access systems (building and/or gates)

The processes currently in place for the issuance of permits shall remain unchanged through the Fire Marshal's Office. Bureau Veritas will email the stamped approved drawings, data submittal package and the approval review letter to fire.inspections@prosperfire.com in PDF format. Once received & filed, a permit shall be issued at no charge to commence work.

All inspections shall be performed by the Prosper Fire Marshal's office. System types shall include:

- Underground fire service
- Aboveground sprinkler suppression systems
- Fire Alarm systems
- Alternative suppression systems
- Kitchen hood suppression systems
- Controlled egress doors and controlled access gate systems

Contact the Fire Marshal's Office at 972-346-9469 regarding these requirements.

- The Fire Marshal's Office must receive stamped and approved plans, data submittal package and the approval review letter in PDF format as three (3) separate attachments before permit issuance.

The policies & procedures established under the Prosper Fire Department Ordinance/Amendments for documentation collection shall remain unchanged.

Please consult the Fire Marshal's web page @ www.prospertx.gov/fire-department/fire-marshal for further information & instructions.

This interim directive shall remain in effect until further notice.

Our goal is to provide a *complete and accurate review in the shortest possible time*. Our 3rd Party Plan Review Firm will strive to accommodate plan review requests within 10 working days of receipt.

Plan Submittal & Permitting Process

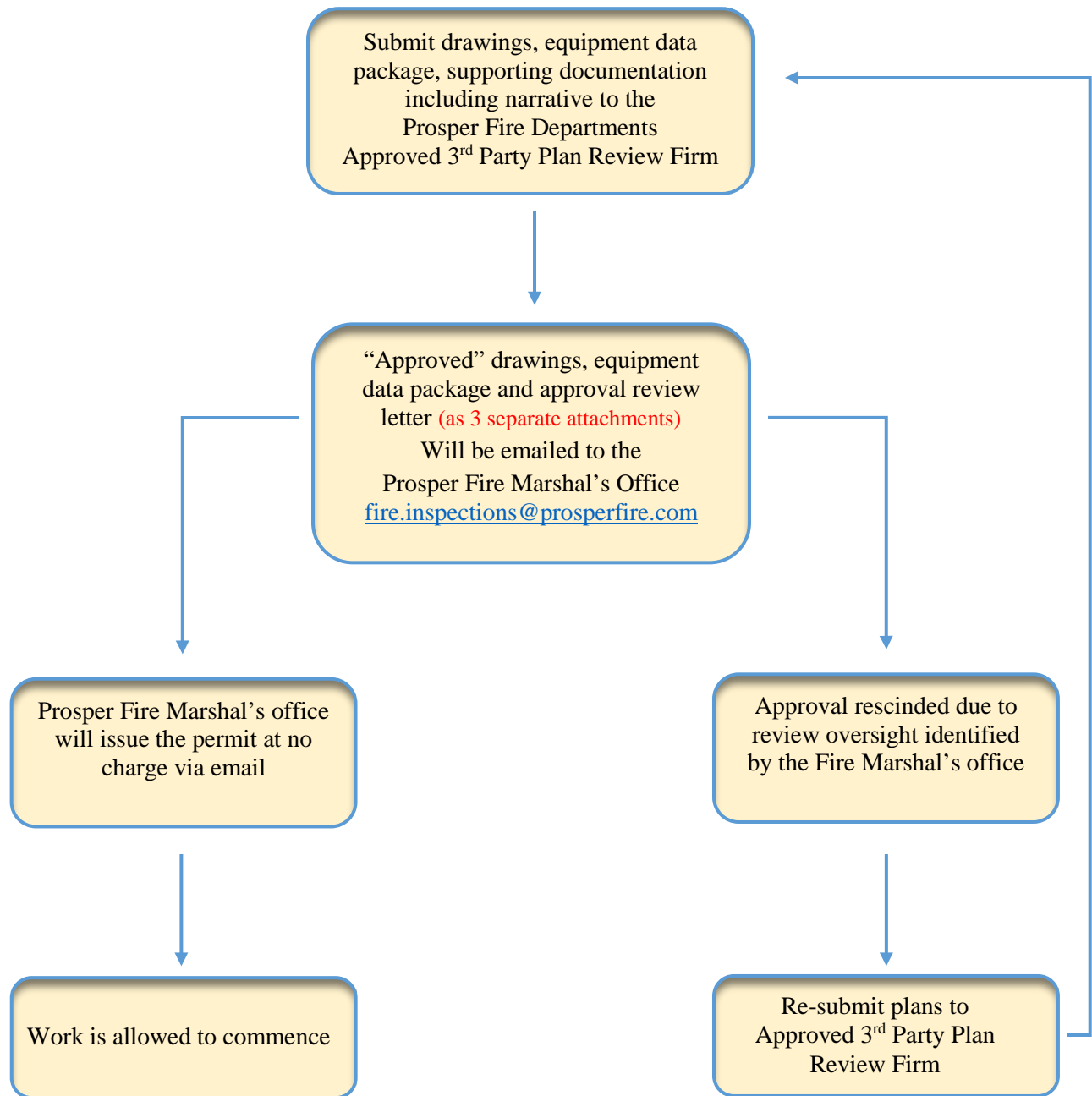


Figure 1

Submittal Check List

Does the submittal contain?

- Electronic scaled drawings in PDF Format
- Equipment submittal data package in PDF Format
- Full company information including, street address, city, state & zip, contact name, office number, cell number, email address, State Registration number (ECR) and EPL electronic signature in contrasting color (if applicable)
- Full project information including, street address, city, state & zip, contact name, office number, cell number, email address

Do the drawings contain?

- Company name, address, and license number
- Planner's name and license number (not required on pre-engineered systems)
- Project name and address
- Scope of work
- Applicable codes and standards used in design
- Scale (1/8" = 1' minimum)
- Drawing of room to indicate location of system(s) and pull station(s)
- Show all piping, detectors and nozzles indicating minimum and maximum dimensions to their assigned appliance based on the actual hood installation height, positioning and aiming
- Provide specific descriptions of all appliances, including dimensions, volume, etc. Include any features relative to operation of system.
- System activation description
- Pipe descriptions and volumetric calculations (*not required for pre-engineered systems*)
- Flow points used and flow points available
- Manufacturers cut sheets for all equipment being installed (*not required for pre-engineered systems*)
- Agent flow calculations (*not required for pre-engineered systems*)
- **For Pre-engineered systems only:** Manufacturers documentation to indicate system limitations, pipe size, coverage, etc.

Do the Drawing Notes contain?

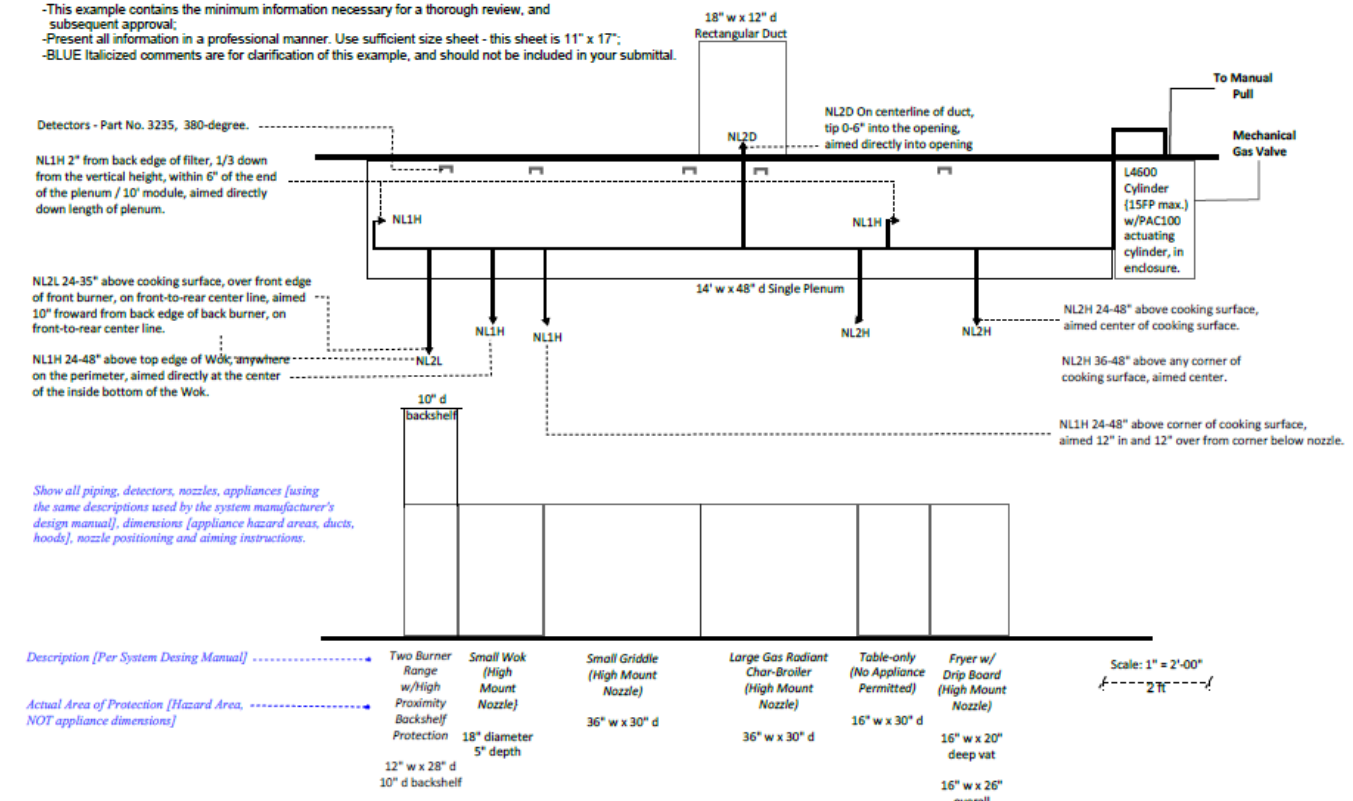
- Jurisdictional authority
- Designed-in-accordance-with codes, code dates and local amendments
- Describe all relevant operation and control functions

This check list is provided as a submittal aid only and is not intended to cover every code requirement

Shop Drawing Submittal Elements

EXAMPLE HOOD SUPPRESSION SYSTEM SUBMITTAL:

- This example contains the minimum information necessary for a thorough review, and subsequent approval.
- Present all information in a professional manner. Use sufficient size sheet - this sheet is 11" x 17".
- BLUE Italicized comments are for clarification of this example, and should not be included in your submittal.

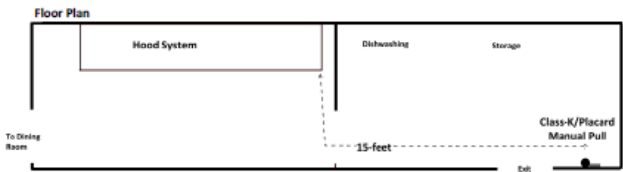


Show all piping, detectors, nozzles, appliances [using the same descriptions used by the system manufacturer's design manual], dimensions [appliance hazard areas, ducts, hoods], nozzle positioning and aiming instructions.

Description [Per System Design Manual] ...

Actual Area of Protection [Hazard Area, NOT appliance dimensions] ...

Two Burner Range w/High Proximity Backshelf Protection	Small Wok (High Mount Nozzle)	Small Griddle (High Mount Nozzle)	Large Gas Radiant Char-Broiler (High Mount Nozzle)	Table-only (No Appliance Permitted)	Fryer w/ Drip Board (High Mount Nozzle)
18" diameter 5" depth 12" w x 28" d 10" d backshelf		36" w x 30" d	36" w x 30" d	16" w x 30" d	16" w x 20" deep vat 16" w x 26" overall



Floor plan must clearly identify the locations of the hood, and the manual-pull, class-k extinguisher, and placard [located together between 10-20' from the hood and along a normal path of egress.

Leave sufficient space for reviewer's approval stamp
Approx. 1.5" x 4.5"

Following information is required:
 System activation description;
 Applicable Codes and Standards;
 Pipe descriptions and volumetric calculations;
 Flow points used and flow points available;
 Appliance positioning system.

Upon system activation, all fuel sources below the hood will shut-off, make-up air fan will shut-down, exhaust fan will continue to operate, agent will release at all nozzles, simultaneously.

System complies with:
 2015 International Fire Code, as amended and adopted by the Town of Prosper
 2017 NFPA 96 (Or most current edition)
 2017 NFPA 17A (Or most current edition)

This system uses 3/8" pipe, 12 flow points, and total pipe volume is approximately 1162 mls. L4600 cylinder supports maximum 15 flow points with maximum pipe volume 2600 mls.

Appliance location marking: [per NFPA 96 12.1.2.3.1]
 -Floor-mounted appliances: Metal [or plastic] castor positioning devices. *
 -Table-top appliance(s): L-shaped metal angle bar at front legs, bolted into table-surface. *
 *(Or other PHYSICAL positioning system: Show details and submit Data Sheet(s). Paints, markers, tapes, etc... are NOT approved.)

ABC Fire Protection
 1234 E 1st Suite A
 Anytown, TX 75123
 (214) 555-1212
 ECR-1234

Project Info:
 My Healthy Diner
 4321 Main Street
 Prosper, Texas 75078

System Description:
 ProTek II Restaurant Fire Protection System

Drawn By: John Smith
 FEL-A-12345
 Date: 01/23/2015

Figure 3