



WATERFORD REGIONAL FIRE DEPARTMENT

2495 Crescent Lake Road • Waterford, MI 48329

Phone: 248.673.0405 • Fax: 248.674.4095

www.waterfordmi.gov

Matthew Nye, Fire Chief • Carl J. Wallace, Deputy Fire Chief • Gene Butcher, Fire Marshal

REVISED July 2024

COMPLIANCES TO THE CODE REQUIREMENTS CAN BE FOUND IN THE 2015 INTERNATIONAL FIRE CODE (IFC 2015) VOLUME I &II, SUPPORTED BY NFPA 13, 25 and 72.

ALL submitted plans for Fire Department review must have the design professional/architects seal and signature on all pages, fire alarm and fire suppression must have the NICET seal and/or number. FD requests that a colored copy of the original plan review must be forwarded to the responsible parties for the property or business for reviews of Site, Construction, Fire Alarm, Fire Suppression and Commercial Hood application. Permit Applications must have all boxes complete with a legible applicant signature and show the business owner's name, contact number and email, scope of work must explain work to be completed.

<u>TABLE OF CONTENTS</u>	<u>PAGE LOCATION</u>
INTRODUCTION & COVER PAGE	1
SECTION 1: SITE - IFC2015	2
SECTION 2: CONSTRUCTION - IFC2015	2
SECTION 3: FIRE SUPPRESSION - NFPA 13& 25	3
SECTION 4: FIRE ALARM – NFPA 72	4
SECTION 5: COMMERCIAL HOOD – NFPA 17, 17-A & 96	5
SECTION 6: FIRE FINAL / LIFE SAFETY INSPECTION – IFC2015	6
SECTION 7: LABELING & SIGNAGE REQUIREMENTS for UTILITIES, DOORS & FLOORS	6
SECTION 8: TEAMS / RE OCC INSPECTIONS – CITY OF PONTIAC	6
SECTION 9: BUSINESS REGISTRY – WATERFORD TOWNSHIP	7
FIRE PREVENTION PERSONNEL	7

SECTION 1: **SITE - IFC 2015**

SITE plan review

- 1) Site Plan must have design professional/architects seal and signature on all pages.
- 2) Permit number - SPR, PSP, PRSA must be with submittal for review-no number / no review.
- 3) Colored copy of FD plan review shall be forwarded to the property authority or General Contractor (GC) to meet the requirements of the code from the IFC 2015 and NFPA.
- 4) Utilities Signage – gas meter and DTE meter (address numbers) for compliance.
- 5) Fire flow requirements – Gallons Per Minute (gpm)
 - a. Number of hydrants required for building size, type of construction, interior / exterior, commodity and storage area beyond 400' from hydrant.
 - b. Fire Department Connection (FDC) is located on front of building and must be within 100' of hydrant.
- 6) Spacing / distances of hydrants / Site access
 - a. Fire apparatus turning radius.
 - b. Power lines & Aerial tower operations
- 7) Road widths & Gates/fences
 - a. Dead ends exceeding 150' required turn arounds.
 - b. Electric or motorized gate specs and operations shall be included for review.
 - c. Knox Padlock or Knox Key switch
 - d. Signage – Emergency Vehicles Only, Fire Department Access – DO NOT BLOCK

SITE PLAN REVIEW must be approved of before proceeding to construction review.

SECTION 2: **CONSTRUCTION - IFC 2015**

CONSTRUCTION plan review

- 1) Construction plans must have design professional/architects seal and signature on all pages.
- 2) Cover sheet shall include – CODE SUMMARY, TYPE OF CONSTRUCTION, OCCUPANCY USE & OCCUPANCY LOAD, LIFE SAFETY PLAN, ADDRESS shall match PERMIT APPLICATION
- 3) Address on building (minimum 4" letters on sign) or monument sign (refer to the code) - NO POSTED ADDRESS – NO INSPECTION
- 4) Colored copy of FD plan review shall be forwarded to the property authority or General Contractor (GC) to meet the requirements of the code from the IFC 2015 and NFPA. Utilities Signage for compliance *see Section 7*
- 5) FD may request “third party review” due to the size and scope of work.

CONSTRUCTION PLAN REVIEW must be approved of before proceeding to fire alarm review or fire suppression review.

SECTION 3: **FIRE SUPPRESSION - NFPA 25 & 13**

FIRE SUPPRESSION plan review

- 1) Fire suppression must have a NICET seal and/or number.
- 2) Colored copy of FD plan review must be forwarded to the property authority or General Contractor (GC) to meet the requirements of the code from the IFC 2015 and NFPA.
- 3) Utilities Signage for compliance *see Section 7*
- 4) Address on building (minimum 4" letters on sign) or monument sign

FIRE SUPPRESSION FINAL - for CERTIFICATE OF OCCUPANCY (CO) - issued by City or Twp.

- 1) Documentation of contractor pretesting system prior to City/Twp & FD inspection.
- 2) General Contractor (GC) must have all personnel and equipment on location representing fire suppression system and fire alarm system to be able to conduct the acceptance test.
- 3) UNDERGROUND FLUSH* – HYDRANT to HYDRANT (new site/new construction where hydrants where added) – witnessed test.
- 4) *WRC (Pontiac) will notify the Fire Marshal that all requirements required by WRC for all underground water systems have been completed, once this has been received by the Fire Marshal then the underground flush may be scheduled by Waterford Township or City of Pontiac.
- 5) FLUSH TO THE SUPPRESSION RISER* - witnessed test.
- 6) *WRC (Pontiac) will notify the Fire Marshal that all requirements required by WRC for all underground water systems have been completed, once this has been received by the Fire Marshal then the underground flush may be scheduled by Waterford Township or City of Pontiac.
- 7) Hydro test - witnessed test.
- 8) Fire Suppression Final – may be completed at time of Fire Alarm Acceptance Test -witnessed test.
- 9) ALL fire suppression signage must be in place as stated on Fire Suppression Plan Review.
- 10) All signage must be in place as stated on Fire Suppression Plan Review *see Section 7.*

SECTION 4: **FIRE ALARM -NFPA 72**

FIRE ALARM plan review

- 1) Fire Alarm plans must have the NICET seal and/or number.
- 2) Colored copy of FD plan review must be forwarded to the property authority or General Contractor to meet the requirements of the code from the IFC 2015 and NFPA.
- 3) Utilities Signage for compliance *see Section 7 on Page 7*.
- 4) Address on building (minimum 4" letters on sign) or monument.

FIRE ALARM FINAL - for CERTIFICATE OF OCCUPANCY (CO) issued by City or Twp.

- 1) Documentation of contractor pretesting system prior to City/Twp & FD inspection.
- 2) Address on building (minimum 4" letters on sign) or monument sign (refer to the code)- NO POSTED ADDRESS – NO INSPECTION
- 3) Witnessed acceptance test – water flow (riser) to monitoring company per NFPA 13 & 72.
- 4) General Contractor (GC) must have all personnel and equipment on location representing fire suppression system and fire alarm system to be able to conduct the acceptance test.
- 5) Activation of the water flow switch shall communicate to monitoring company > **Fire Dispatch (248-618-7550)** > fire personnel radio (Inspector onsite) within 200 seconds with the correct address and name of business.
- 6) Smoke detectors / batteries dated / red lockout on main electrical panel / panel ID of lockout.
- 7) Pull stations.
- 8) Door magnetic lock disconnects.
- 9) Audible & visual devices – distancing, visibility, and decibel levels.
- 10) Gate operations – default to open during activation of fire alarm.
- 11) All signage shall be posted as stated on Fire Alarm Plan Review, *see Section 7*

SECTION 5: **COMMERCIAL HOOD - NFPA 17, 17-A & 96**

COMMERCIAL HOOD plan review

- 1) Commercial Hood plans must have the NICET seal and/or number.
- 2) Colored copies of FD plan review shall be forwarded to the property authority or General Contractor to meet the requirements of the code from the IFC 2015 and NFPA.
- 3) Utilities Signage for compliance *see Section 7*
- 4) Address on building (minimum 4" letters on sign) or monument sign (refer to the code)
- 5) Commercial hood when not in use and/or business vacant / closed to the public for longer than 6 months and any alterations, modifications or relocation of appliances, nozzles or fusible links may require plan review submittal before a witnessed acceptance test – puff, smoke, electrical and gas shut down.

**Proof of completed cleaning (contractor sticker with dates of service posted) for plenum and duct from roof deck to venting grills before acceptance testing. All fusible links, nozzles and piping shall be free/clear from accumulation of cooking grease residue.*

FIRE HOOD FINAL – PONTIAC / WATERFORD for CERTIFICATE OF OCCUPANCY (CO)

- 1) The following must be a witnessed test by Fire Department and Building & Mechanical Inspectors
- 2) Documentation of contractor pretesting system prior to City/Twp & FD inspection, have available for viewing at time of inspection.
- 3) General Contractor (GC) must have all personnel and equipment on location representing hood suppression system and fire alarm system to be able to conduct the acceptance test.
 - a. **HOOD ACCEPTANCE TEST (PUFF & SMOKE CAPTURE)**
 - b. Activation of pull station.
 - c. Activation of fusible links
 - d. Puff (balloon)
 - e. SMOKE CAPTURE TEST – ALL ceiling tiles must be in place, no holes affecting ventilation.
 - f. Electrical & gas shut down.
 - g. Audible & visual devices. Horn/strobe activation.
 - h. Placement, location and installed - K extinguisher and 3A:40BC rechargeable extinguisher.
 - i. Tied into the building FACP (if applicable). Correct address and business name
 - j. *Licensed Cleaning Company Certificate posted on Hood for cleaning and date of next cleaning.
 - k. All appliances must be secured (tethered) to the wall at the time of Hood Acceptance Test.

During the scheduled HOOD ACCEPTANCE TEST witnessed changes in the layout of the appliances, nozzles, fusible, etc. from the APPROVED Hood Plan Review, AS BUILTS shall be received by the Fire Department to clear the inspection report.

SECTION 6: **FIRE FINAL / LIFE SAFETY INSPECTION - IFC 2015**

- 1) Address on building (minimum 4" letters on sign) or monument sign
- 2) All signage shall be posted as stated on Construction Plan Review.
- 3) Gate access – Knox key switch for motorized and automatic gates, Knox padlock for manual gates and signage if needed.
- 4) Knoxbox – keys (tagged and labeled for all access into locked doors in & around building).
- 5) 360 access, road widths.
- 6) Aerial tower operations – depending on buildings heights / DTE overhead (OH) power lines.
- 7) Emergency lights & illuminated EXIT signage.
- 8) Backup power – generator activation. & **EMERGENCY SHUT OFF** switch.
- 9) Fire extinguishers installed in locations per IFC 2015.
- 10) Door hardware / door obstructions.
- 11) Egress path of travel.

SECTION 7: **LABELING & SIGNAGE REQUIREMENTS for UTILITIES, DOORS & FLOORS**

- 1) DTE electrical meters (address coverage area).
- 2) Electrical main panel disconnects labeled – **EMERGENCY DISCONNECT**
- 3) Site generators main disconnects labeled - **EMERGENCY DISCONNECT**
- 4) CONSUMERS gas meters (address coverage area)
- 5) **ELECTRICAL & MECHANICAL** room, minimum 4" lettering on sign.
- 6) **FACP** – Fire Alarm Control Panel, minimum 4" white letters on red reflective sign.
- 7) (Address coverage area).
- 8) **RISER** Room, minimum 4" white letters on red reflective sign. Wall map denoting suppression systems zones per risers.
- 9) **FDC** – Fire Department Connection, minimum 4" white letters on red reflective minimum 10"x 14" sign (displayed areas of coverage, address of businesses or location of)

SECTION 8: **TEAM / RE OCC. INSPECTIONS – CITY OF PONTIAC**

- 1) Property owners' information - name, contact number and email address.
- 2) Lessee information – name, contact number and email address.
- 3) Reason for the Team / RE Occupancy. Inspection (new business / existing business)
- 4) Team Inspection follow-up completed by the City Building Official or Building Inspector.
Documentation or email must be forwarded to: FirePrevention@waterfordmi.gov

SECTION 9: **BUSINESS REGISTRY – WATERFORD TOWNSHIP**

- 1) Property owners' information - name, contact number and email address.
- 2) Lessee information – name, contact number and email address.
- 3) Reason for the Business Registry Inspection (new business / existing business)
- 4) Business Registry Inspection follow-up completed by the City Building Official or Building Inspector.
Documentation or email must be forwarded to: FirePrevention@waterfordmi.gov

This is what is required by the Waterford Regional Fire Department to meet code compliance with the International Fire Code 2015 (IFC2015) and National Fire Protection Association (NFPA), Twp Ordinance & City Ordinance.

Thank You,
Waterford Regional Fire Department - Fire Prevention Division

Fire Marshal / Assistant Chief Gene Butcher
Deputy Fire Marshal / Captain Chris Webster
Fire Inspector / Lieutenant Chester Felts
Fire Inspector / Lieutenant Mike Moshier

FirePrevention@waterfordmi.gov