

## **Elmhurst Fire Department**

**Sprinkler Plan Work Sheet** 

This Sprinkler Plan Review Checklist must be completed as part of your Sprinkler Plan Review Submittal Requirements. A separate and individual work sheet must be sent in for each individual "Remote Area Design". Please send a completed form (with appropriate signatures) to planreview@elmhurst.org Preferred (Compliance with 2021 ICC-IFC and 2021 edition NFPA-13 Required) **PROPERTY INFORMATION** Building Name: **Building Address: Owner's Name: Owner's Address: Owner's Phone Contact: Owner's Email: Owner's Fax:** SYSTEM DESIGNER/CONTRACTOR Company Name: **Company Address:** Contact Person (Designer): Phone #: Fax #: Email: System Designed by NICET Level 3 or 4? Yes No NICET Level 3 or 4 Registration # & Name: System Designed by Registered Engineer? 🗌 No Yes Name of System Designed by Registered Engineer (stamp included) : **GENERAL** This proposal represents : Modifications to an existing system A new system being installed in the building Extension of an existing system Other NFPA Standard used in the system design and proposed installation: NFPA 13 (2019 NPFA 13R (2019 Edition) *Edition*) (NFPA 13D Edition)? Factory Mutual (675 IAC 12-6-11) Type of Sprinkler System(s): (Check all that apply) Anti-Freeze Pre-Action Deluge Dry Wet Pre-Engineered or 13D System All sprinkler head "specification sheets and UL Listings" provided in application? Types No Sprinklers omitted in any area? Yes No If yes, allowed per: Yes No N/A <u>NFPA 13</u> Omitted Area(s)? (Specifically identify omitted areas in narrative space below) Yes No N/A <u>NFPA 13R</u> Omitted Area(s)? (Specifically identify omitted areas in narrative space below) Narrative of specific omitted area(s) along with specific **NFPA 13/13R code requirement**: Number of Floors (including Basement)?

Standpipe/Hose Connection Required? Yes	No	
Fire Pump Required or Provided? Yes No		
(If yes, complete detailed "FIRE PUMP INFORMATION" Section below)		
Fire Department Connections (FDC) located "remote from building" and within 50 feet of hydrant ( <i>New Buildings Only</i> )?		
EDC located directly on Exterior Wall, provided with	a 4" 30degree offset Storz fitting? ( <b>Buildings with existing</b>	
sprinklers undergoing Renovation Only)	a + souce ce onset store name. (Dunungs with existing	
Post Indicator Valve (PIV) located directly on Exterio	r Wall? (Buildings with existing sprinklers, undergoing Renovation	
Only)		
$\square$ Yes $\square$ No $\square$ NA		
Sprinkler System valves controlling the water supply	, pumps critical air pressures, and water-flow switches are	
electronically supervised per IBC 903.4?		
$\square$ Yes $\square$ No		
Means through a test header or other connections d	lownstream of the backflow prevention device available for <i>full</i>	
flow test per NFPA 25: 12.6.2.1 & NFPA 13:5-15.6.1	(2016 Edition)?	
$\square Yes \square No$		
OCCUF	PANCY CLASSIFICATION	
Fire sprinkler occupancy bazard classification:		
Light Hazard Ordinary Hazard Group	1 Ordinary Hazard Group 2 Storage	
Extra Hazard Group 1 Extra Hazard Group 2	Special Occupancy (see note below)	
(Note- Special Occupancy Requirements for the system	(Flammable/combustible liquids, oxidizers, etc.)	
FLOW	/ TEST INFORMATION	
Date of Flow Test?	Company who performed?	
Static Pressure:	Residual Pressure:	
Flow in gallons:	Coefficient Factor Used:	
	EORMATION (if applicable)	
STORAGE IN	NFORMATION (if applicable)	
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STORAGE IN If Storage Information "Not Applicable", skip this se	NFORMATION (if applicable) ection and go to FLOW TEST INFORMATION Section Below	
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STORAGE IN         If Storage Information "Not Applicable", skip this set         If a storage occupancy, commodity classification:         Class I       Class II	NFORMATION (if applicable)         ection and go to FLOW TEST INFORMATION Section Below         Class III         Class III         Class III	
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STORAGE IN         If Storage Information "Not Applicable", skip this set         If a storage occupancy, commodity classification:         Class I       Class II         Group A       Group B	NFORMATION (if applicable)         ection and go to FLOW TEST INFORMATION Section Below         Class III         Class III         Group C	
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STORAGE IN         If Storage Information "Not Applicable", skip this set         If a storage occupancy, commodity classification:         Class I       Class II         Group A       Group B         PRESENCE OF HIL         Packaging	NFORMATION (if applicable)         ection and go to FLOW TEST INFORMATION Section Below         Class III         Class IV         Group C         GH-PILED and/or RACK STORAGE         g & Storage Configuration	
STORAGE IN         If Storage Information "Not Applicable", skip this set         If a storage occupancy, commodity classification:         Class I       Class II         Group A       Group B         PRESENCE OF HIL         Packaging         Encapsulation of Pallet Loads?       Yes	NFORMATION (if applicable)         ection and go to FLOW TEST INFORMATION Section Below         Class III       Class IV         Group C         GH-PILED and/or RACK STORAGE         g & Storage Configuration         Rack or Pallet Storage?         Rack	
STORAGE IN         If Storage Information "Not Applicable", skip this set         If a storage occupancy, commodity classification:         Class I       Class II         Group A       Group B         PRESENCE OF HIL         Packaging         Encapsulation of Pallet Loads?       Yes         No         Aisle Width Dimension?	NFORMATION (if applicable)         ection and go to FLOW TEST INFORMATION Section Below         Class III       Class IV         Group C       Class IV         GH-PILED and/or RACK STORAGE       g& Storage Configuration         Rack or Pallet Storage?       Rack       Pallet         Flue Space Dimension?       Class IV       Class IV	
STORAGE IN         If Storage Information "Not Applicable", skip this set         If a storage occupancy, commodity classification:	AFORMATION (if applicable)   ection and go to FLOW TEST INFORMATION Section Below   Class III   Class IV   Group C   GH-PILED and/or RACK STORAGE g & Storage Configuration Rack or Pallet Storage?   Rack or Pallet Storage?   Flue Space Dimension?   ESFR Sprinklers??   Yes	
STORAGE IN         If Storage Information "Not Applicable", skip this set         If a storage occupancy, commodity classification:	AFORMATION (if applicable)   ection and go to FLOW TEST INFORMATION Section Below   Class III   Class IV   Group C     GH-PILED and/or RACK STORAGE   g & Storage Configuration   Rack or Pallet Storage?   Rack or Pallet Storage?   Pallet   Flue Space Dimension?   ESFR Sprinklers??   Yes	
STORAGE IN         If Storage Information "Not Applicable", skip this set         If a storage occupancy, commodity classification:         Class I       Class II         Group A       Group B         PRESENCE OF HIL         Packaging         Encapsulation of Pallet Loads?       Yes         In-Rack Sprinklers?       Yes         No       "High Piled" Combustible Storage over 12 feet high?         "High Hazard Commodity" Storage over 6 feet high?	AFORMATION (if applicable)   ection and go to FLOW TEST INFORMATION Section Below   Class III   Class IV   Group C     GH-PILED and/or RACK STORAGE   g & Storage Configuration   Rack or Pallet Storage?   Rack or Pallet Storage?   Pallet   Flue Space Dimension?   ESFR Sprinklers??   Yes   No   (i.e., Group A Plastics, Idle Pallets, etc.)	
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STORAGE IN         If Storage Information "Not Applicable", skip this set         If a storage occupancy, commodity classification:	AFORMATION (if applicable)   ection and go to FLOW TEST INFORMATION Section Below   Class III   Class IV   Group C   GH-PILED and/or RACK STORAGE g& Storage Configuration   Rack or Pallet Storage?   Ves   Ves   No   (i.e., Group A Plastics, Idle Pallets, etc.)   Yes   Inches   LENGTH of Aisle Width Planned?	
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STORAGE IN         If Storage Information "Not Applicable", skip this set         If a storage occupancy, commodity classification:	AFORMATION (if applicable)   ection and go to FLOW TEST INFORMATION Section Below   Class III   Class IV   Group C   GH-PILED and/or RACK STORAGE   g & Storage Configuration   Rack or Pallet Storage?   No     Presence Dimension?   LENGTH of Aisle Width Planned?   Feet   Inches   LENGTH of Aisle Width Planned?   Feet   Inches   ated?   Presence of "Hazardous Materials"?   Yes   No   No   No	
STORAGE IN         If Storage Information "Not Applicable", skip this set         If a storage occupancy, commodity classification:	NFORMATION (if applicable)   ection and go to FLOW TEST INFORMATION Section Below   Class III   Class IV   Group C   GH-PILED and/or RACK STORAGE g& Storage Configuration   Rack or Pallet Storage?   Presence Dimension?   ESFR Sprinklers??   Yes   No   (i.e., Group A Plastics, Idle Pallets, etc.)   Yes   No   Inches   LENGTH of Aisle Width Planned?   Feet   Inches   Presence of "Hazardous Materials"?   Yes   No   Io   Presence of "Antifreeze/ Auxiliary Systems"?   Yes   No	
STORAGE IN         If Storage Information "Not Applicable", skip this set         If a storage occupancy, commodity classification:	AFORMATION (if applicable)   ection and go to FLOW TEST INFORMATION Section Below   Class III   Class IV   Group C      GH-PILED and/or RACK STORAGE   g & Storage Configuration   Rack or Pallet Storage?   No   (i.e., Group A Plastics, Idle Pallets, etc.)   Yes   No   Inches   LENGTH of Aisle Width Planned?   Presence of "Hazardous Materials"?   Yes   No   Io   Presence of "Antifreeze/ Auxiliary Systems"?   Yes   No	
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STORAGE IN         If Storage Information "Not Applicable", skip this set         If a storage occupancy, commodity classification:            Class I       Class II            Class I       Class II            Group A       Group B         PRESENCE OF HILE         Maximum HEIGH	AFORMATION (if applicable)   ection and go to FLOW TEST INFORMATION Section Below   Class III   Class IV   Group C   GH-PILED and/or RACK STORAGE g & Storage Configuration   Rack or Pallet Storage?   Presence Dimension?   ESFR Sprinklers??   Yes   No   (i.e., Group A Plastics, Idle Pallets, etc.)   Yes   No   Inches   LENGTH of Aisle Width Planned?   Feet   Inches   Ated?   Presence of "Hazardous Materials"?   Yes   No   Io   Presence of "Antifreeze/ Auxiliary Systems"?   Yes   No   IGN SPECIFICATIONS	
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Requirements for All Hydraulically Calculated Systems (Area/Density Method):
What is the <b>"Design Area"</b> of Water Application specified?
What is the minimum rate of Water Application " <b>Density</b> " specified?
Please specify what type (if any) sprinkler "density adjustments" have been calculated?
Check "All" that Apply:
Ouick Response Sprinklers Sloped Ceilings greater than 2 in 12 Dry Pine & Double-lock Pre-Action Systems
High Temperature Sprinklers Multiple Adjustments (Actual Ceiling Height" ( Et and inches)
What is the maximum "area" per individual enrickler exactlied (per NEDA 12 or exactlic listing)?
what is the maximum area per individual sprinkler specified (per NFPA 13 or specific listing)?
How many sprinklers are required in the "Design Area"? (per specific listing or NFPA)
Formula: (Number of Sprinklers Required) = (Design Area of Sprinkler Application) ÷ (Coverage per Sprinkler Head)
Provide mathematical equation here:
What is the actual formula numbers used to verify Remote Area "Size and Shape"?
Formula: 1.2V Design Area= Minimum Length of Rectangle
Provide mathematical equation here:
What is the Maximum Number of Sprinkler Heads per Branch Line?
Former les 1.2. Design Area
Formula: <u>1.2V Design Area</u> = <mark># of Heads on Branch Line</mark>
"S" (Ft measured along Branch Line)
Provide mathematical equation here:
What is "In Rack" Demand, Storage Applications (if applicable)? GPM
What is the Hose Stream demand (Inside & Outside)?
What is the total required water required for the sprinkler system (including base demand)?
what is the total required water required for the splittice system (including hose demand)!
Are there any " <u>combined sprinkler &amp; standpipe"</u> systems in the building, and if so, what are the minimum "pressure"
requirements as outlined in NFPA 14?
What limitations (dimension, flow and pressure) on extended coverage or other listed special sprinklers?(if applicable)
Additional Requirements (Room Design Method)
Design Density of Sprinkler meets 11-3 1 3 (NEPA 13 2016 Edition) (minimum of 10 gpm/s f )2
Design Density of Sprinkler meets 11-5.1.5 (NFFA 15 2010 Euliton) (minimum of .10 gprin/5.1.)?
Based upon the room that creates the greatest water demand (including corridors/ndilwdys)?
Koom enclosure walls must have a fire rating equivalent to required water supply duration based upon the hazard?
Yes No
Protection of Openings Provided per design criteria below?
Yes No Light Hazard: Automatic or Self-Closing Doors or include room sprinklers plus (2) sprinklers in
communicating space.
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Yes No	Ordinary & Extra Hazard: Automatic or Self-Closing Doors (Required) & Wall Rating (Not ceiling)
	equivalent to appropriate enclosure rating.
🗌 Yes 🗌 No	If using Corridor for the Room Design Method (must meet all of the following):
	<ul> <li>Only applicable if one row of sprinklers are installed in Corridor.</li> </ul>
	<ul> <li>Calculate 5 sprinklers if openings are protected.</li> </ul>
	<ul> <li>Calculate 7 sprinklers if openings are not protected.</li> </ul>
🗌 Yes 🗌 No	Room Design Compartment sprinklers under a flat, smooth, horizontal ceiling?
	Additional Requirements (NFPA 13 R Systems- Residential Sprinklers)
Yes No	Building is not more than 4 stories in height?
Yes No	Listed Residential Sprinklers shall be used in all residential portions ( <i>dwellings</i> ) of building (per UL 1626)?
	<b>Exception</b> : Listed Quick Response sprinklers may be used provided no more than 4 sprinkler heads
	are located within compartment or dwelling
🗌 Yes 🗌 No	Standard or Quick Response Sprinklers shall be used in areas outside the dwelling unit
	Exception: Residential Sprinklers shall be permitted in adjoining corridors or lobbies, provided
	with flat, smooth ceilings, and ceiling heights not exceeding 10 feet.
Design Discharg	e Criteria (based upon these two criteria: Inside & Outside Dwelling):
Yes No	Inside Dwelling Unit
	- Residential Sprinkler Heads Only (very small units may use QR Heads)
	- GPM not less than 18 gpm per single operating sprinkler and 13 gpm for multiple sprinklers
	within a compartment (per NFPA), or per specific listing.
	<ul> <li>Density Required at 4 most hydraulically demanding at a density of (.10 gpm/sq.ft.)</li> </ul>
	- Water Supply Duration 30 minutes
🗌 Yes 🗌 No	Outside Dwelling Unit
	<ul> <li>Per NFPA 13 Criteria (QR &amp; QR Extended Coverage Sprinklers Allowed)</li> </ul>
	- <u>Exceptions</u>
	Compartmented areas less than 500 sq.ft. ( <i>with all of the following</i> )
	30 minute fire rated construction
	Protected with Standard or QR sprinklers not exceeding 130 s.f./sprinkler, and
	Openings from the compartment protected <u>or</u> (less than 50 s.f. with "lintel" at least 8 in.)
	Discharge Density for hazard per NFPA 13
S	PRINKLER COMPONENTS: Is the following information provided on plans/specifications?
Yes No	Provide complete catalog cut sheets for all equipment and materials used?
🗌 Yes 🗌 No	Hydraulic data nameplate (for hydraulically designed systems)?
🗌 Yes 🗌 No	Hydraulic reference points shown on the plan that corresponds with comparable reference points
	on the hydraulic calculation sheets?
Yes No	Most demanding area is highlighted on plans and provided in hydraulic calculations?
Yes No	Pipe sizes and lengths shown on the plan correspond with the sizes and lengths shown on the
	hydraulic calculation sheets?
Yes No	Relative elevations of sprinklers, junction points, and supply or reference points?
Yes No	Proved details and section view outlining all ceiling information on plans.
	(Including Ceiling Height, Soffits, Obstructions, etc.)?
Yes No	Pressure loss for backflow preventer and/or meter included in hydraulic calculations?
Yes No	Hanger types and locations show on plans?
Yes No	N/A Provide a 2 ½ standpipe hose outlet at the highest landing of the stairways with access to the
	roof, and on the roof where stairways do not access the roof with an additional 2 ½ hose
	connection? (if applicable)
L	

$\nabla$ Yes $\nabla$ No $\nabla$ N/A = Provide floor control values at each floor in multi-story buildings? (if applicable)
Vos No N/A Approvimato canacity (in gallons) of each dry nine system? (if applicable)
Ves No. A General Information Sign to be provided on System Riser per Section NEPA 13(2016)?
FIRE DI IMP INFORMATION <i>(if annlicable)</i>
If Fire Pump "Not Applicable" skin this section and go to DESIGN SPECIFICATION Section Below
Manufacturer:
Bated PSI: Bated GPM:
Rated HP: Controller Type:
Dedicated Electrical Service Provided?
Provide a standby or emergency power supply to the fire pump Yes No
with an automatic power transfer switch controller?
Provide details and catalog cut sheets on the fire pump controller? Ves No
Fire Pump Booster pump connection provided with pressure
device or switch to control operation when pressure to
pump suction drops per NFPA 20?
Fire Pump Booster pump provided with audible or visual
alarm to provide warning when flow occurs per NFPA 20 2016ed?
Fire Pump Booster pump provided with a control valve
on the booster pump discharge to automatically throttle
(10) pounds per square inch per NEPA 20 2016 ed2
Fire Pump Room fire-resistive-rated to 2 hour? (or 1 hour with sprinklers) per NFPA 20 Yes No Unknown
Designer or Owner:
I certify that the information provided in this document is true and accurate.
(Printed Name)
(Signature)
(Date)
(Company Name)
(Email and Phone Contact)

	ALARM REQUIREMENTS
н	All occupancies require a fire protective signal system—horn-strobe/pull stations
	All fire alarm panels and devices are to be point addressable**Coded access and resets are not approved
E	Catalog cut sheets and alarm plans to be submitted for approval with device locations
E	Smoke detection required for all duct work exceeding 2,000 CFM with remote test site
	The activation of a duct smoke detector will shut down the unit. Remote test switch installed on wall closest to
	detector—confirmation with AHJ prior to installation.
E	All exposed wiring to be in conduit (fire alarm rated cable)
	All wiring in warehouse areas to be in conduit stubs up to bar joist level
	Each flow switch will have its own address on fire alarm panel
	Manual pull stations will be located within 5' of exit and mounted 45" above floor level
E	Final on-site field and full alarm test to be witnessed by fire department (24 hour notice) and alarm
	representative needs to be present
B	Exit/Emergency lighting and extinguisher locations must be provided on all remodeling
	Annual fire alarm testing must be performed with documentation sent to the Fire Prevention Bureau
	SPRINKLER REQUIREMENTS
	All commercial occupancies to be sprinklered NFPA 13-rack storage NFPA #213 & #213C
	All multi-family residential occupancies require sprinklers-NFPA #13R & City of Elmhurst amended code
	All buildings require sprinklers, standpipes and detection devices
	Hydrostatic test of the system
	Do not cover sprinkler work until hydrostatic test has been completed, witnessed and completed
	Double detector check valve required on sprinkler system
	An RPZ is needed on the metered by-pass
	Exterior 10" bell will be replaced by exterior horn-strobe for water flow
	Final on-site sprinkler test to be witnessed by Fire Department (24 hour notice) and sprinkler representative
	must be present
	Annual sprinkler testing must be performed and documentation sent to Fire Bureau
	Any building with a fire pump must have generator as secondary power source
	DO NOT COVER WORK on sprinkler system until hydrostatic test is witnessed by Fire Department personnel
	ALARM/SPRINKLER REQUIREMENTS
	All fire alarm and sprinkler systems are to be direct connect. Data available
	Exterior 10" bell to be replaced by exterior horn-strobe for water flow
	HIGH RISE REQUIREMENTS
-	High rise requirements are above 5 stories—per City of Elmhurst amended building code
	REMODELING REQUIREMENTS
	Extensive remodeling or changes in use will require buildings to comply with
	All ungrades to the fire alarm or enrinkler systems will fellow listed requirements
	An upgrades to the me alarm of sprinkler systems will follow listed requirements
	ADA REQUIREMENTS
	Exterior fire department "Key Poy" will be required for all new construction, remodeling or occupancy changes
	Exterior me department key box will be required for an new construction, remodeling of occupancy changes
	All cooking bood and duct protection is to be UL 300 approved. All remodeling will require upgrading to current
	code.
	Duct detection system to be tied fire alarm system
	Submit plans/drawings for hood and duct system for review and approval
	FI FVATOR CODES
	3001.2 Except as otherwise provided for in this code, design, construction, installation, Alteration, renair and
	maintenance of elevators and conveying systems and their components shall conform to ASME A17.1. ASME
	A90.1, ASME B20.1, ALI ALCTV AND ASCE 24.
Eine al	

Fireadmin/fireprevention/coderequirementsform