

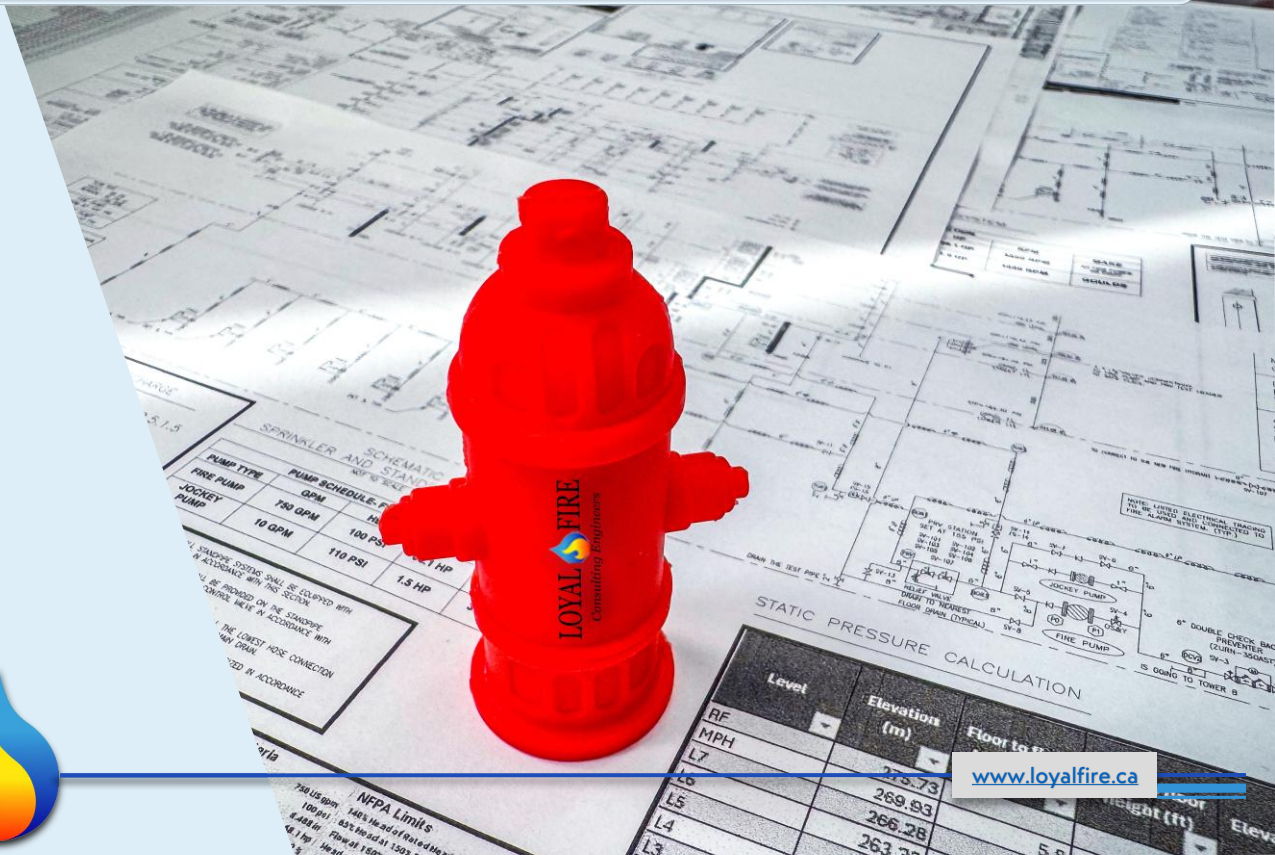


# LOYAL FIRE

Consulting Engineers

**Fire Protection and Life Safety Solutions**

**Design, Engineering, Consulting and Management**



SPRINKLER AND STAND PIPE SCHEDULE

PUMP TYPE	PUMP SCHEDULE	FLOW	HEAD	HP
JOCKEY PUMP	750 GPM	150 PSI	1.5 HP	
STAND PIPE PUMP	100 GPM	110 PSI	1.5 HP	

STATIC PRESSURE CALCULATION

Level	Elevation (m)	Floor to Floor Height (ft)	Elev.
RF			
L7	275.73		
L6	269.93		
L5	266.28		
L4	263.35	5.9	
L3			

[www.loyalfire.ca](http://www.loyalfire.ca)



## Who We Are

Loyal Fire Consulting Engineers is a premier firm specializing in fire protection and life safety solutions. Since 2015, we have been dedicated to safeguarding lives and property through innovative engineering, design, consulting and management services.

With headquarters in Toronto, Ontario, and regional offices in Calgary, Alberta, and Houston, Texas, we are expanding our reach across North America to deliver comprehensive solutions that exceed client expectations.

We are proud to hold ULC Certification as an Integrated System Testing Service Provider (Level 4 Complexity) under CAN/ULC-S1001, reflecting our expertise in integrating and testing advanced fire protection and life safety systems. Supported by Certified Integrated System Testing Coordinators (ITCs), our team ensures seamless project execution.

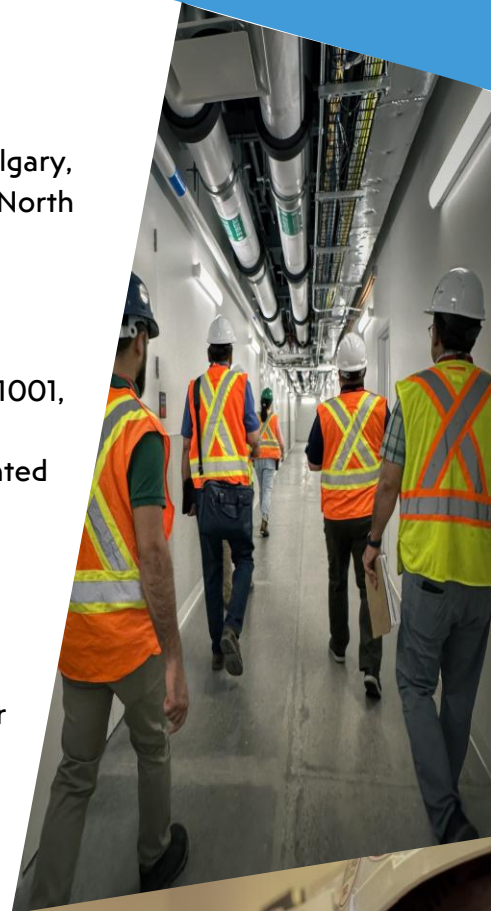
Our skilled engineers, designers, and consultants bring extensive expertise in fire protection codes, standards, and regulations. By focusing on compliance, innovation, and collaboration, we deliver tailored solutions designed to meet the unique needs of diverse projects across all industries and applications.

## Our Mission

To provide innovative, reliable, and comprehensive fire protection and life safety engineering solutions, ensuring the safety of lives and property while exceeding client expectations.

## Our Vision

To be a global leader in fire protection and life safety engineering and consulting, recognized for delivering innovative, reliable, and comprehensive solutions that set new benchmarks in excellence, client satisfaction, and safety.





# What We Do

## ● Fire Sprinkler Systems

Custom design solutions for residential, commercial, industrial, and high-rise buildings.

## ● Fire Alarm Systems

Specialized design and integration with other systems for optimal system functionality.

## ● Special Hazard and Clean Agent Systems

Tailored solutions for unique environments like data centers and industrial facilities.

## ● Integrated System Testing (CAN/ULC-S1001)

Certified Level 4 testing services for complex fire protection systems.

## ● Fire Safety Planning

Development of detailed, compliant plans to meet regulations.

## ● Code Consulting

Guidance on fire and building code compliance, hazard analysis, and alternative solutions.

## ● Engineering Evaluations

Comprehensive reviews of existing fire protection systems.

## ● Performance-Based Design

Advanced solutions tailored to meet project-specific needs.

## ● Smoke Management Systems

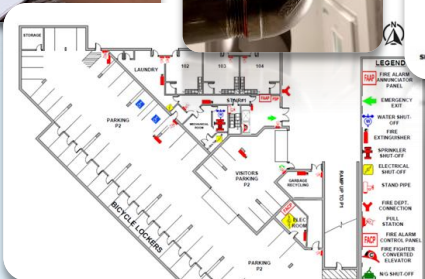
Expert design for smoke control and evacuation.

## ● Installation Reviews

Detailed reporting to ensure system compliance and functionality.

## ● Construction Management

End-to-end project management for the timely and quality delivery of fire protection systems.



## Certifications

- ULC Certified Integrated System Testing Service Provider (Level 4 complexity).
- ULC Certified Integrated Testing Coordinators (ITCs).
- Professional Engineering and Consulting Licenses across Ontario, British Columbia, Alberta, Manitoba, and New Brunswick.
- NICET-Certified Designers with expertise in fire sprinkler and fire alarm systems.

## Professional Affiliations

Loyal Fire Consulting Engineers and its team members are proud to be affiliated with leading engineering and industry organizations, ensuring the highest standards of professionalism, compliance, and expertise. Our affiliations include:

- ❖ *Engineers Canada*
- ❖ *UL Solutions*
- ❖ *National Fire Sprinkler Association (NFSA)*
- ❖ *Canadian Automatic Sprinkler Association (CASA)*
- ❖ *Canadian Fire Alarm Association (CFAA)*
- ❖ *Canadian Fire Safety Association (CFSA)*
- ❖ *National Institute for Certification in Engineering Technologies (NICET)*
- ❖ *Professional Engineers Ontario (PEO)*
- ❖ *Association of Professional Engineers and Geoscientists of Alberta (APEGA)*
- ❖ *Engineers & Geoscientists British Columbia (EGBC)*
- ❖ *Engineers Geoscientists Manitoba*
- ❖ *Professional Engineers and Geoscientists of New Brunswick (APEGNB)*
- ❖ *Society of Fire Protection Engineers (SFPE) – Southern Ontario Chapter*
- ❖ *National Fire Protection Association (NFPA)*

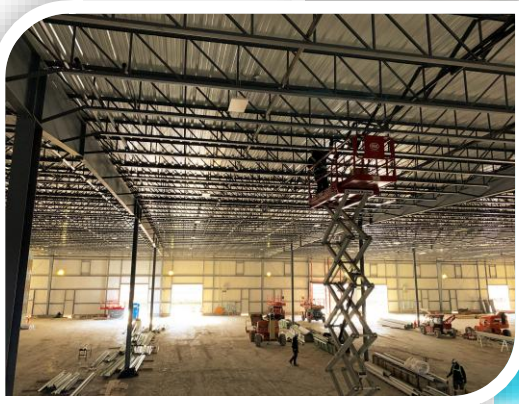
These affiliations reflect our commitment to staying at the forefront of industry advancements, ensuring compliance with the latest codes and standards, and fostering collaboration within the engineering and fire protection community.





# Our Projects

- ❖ **Residential:** High-rise, low-rise, multi-family dwellings, senior living communities and student housing.
- ❖ **Commercial:** Office buildings, retail spaces, restaurants, hotels, and mixed-use developments.
- ❖ **Industrial:** Manufacturing plants, warehouses, cold storage facilities and data centers.
- ❖ **Institutional:** Educational facilities, healthcare facilities, and government buildings.
- ❖ **Assembly:** Theaters, arenas, convention centers and community centers.
- ❖ **Recreational:** sports complexes, gyms and fitness centers and clubs
- ❖ **Distribution Centers:** comprehensive fire protection for large-scale logistics hubs.





# Our Offices



## Calgary Office:

160 Quarry Park  
Boulevard SE, Suite 300,  
Calgary, AB T2C 3G3  
Tel: (403) 407-8155



## Houston Office:

708 Main Street, 10th Floor,  
Houston, TX 77002  
Tel: (713) 940-1298

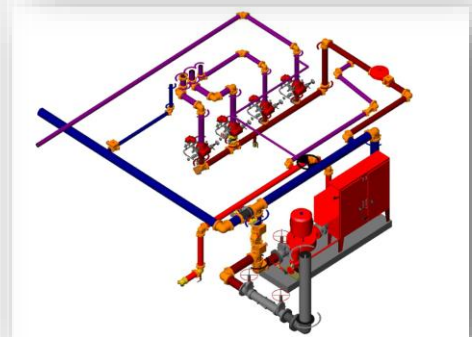
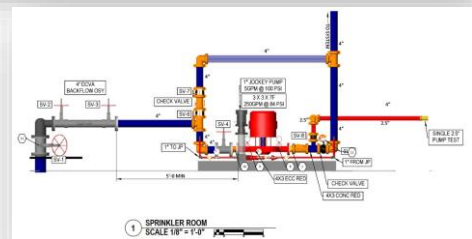
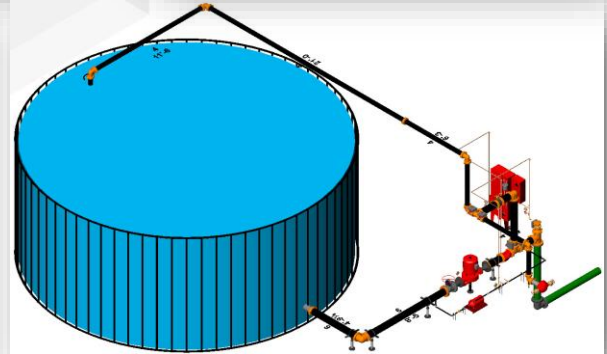
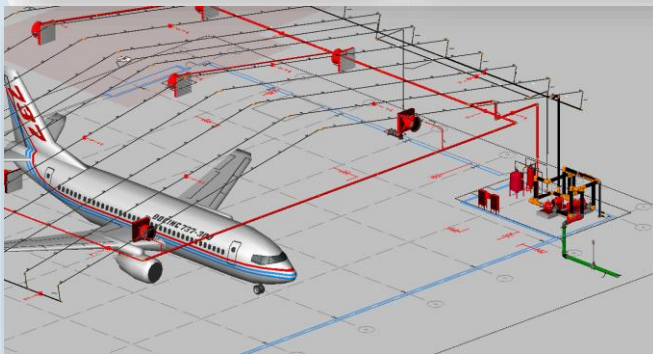
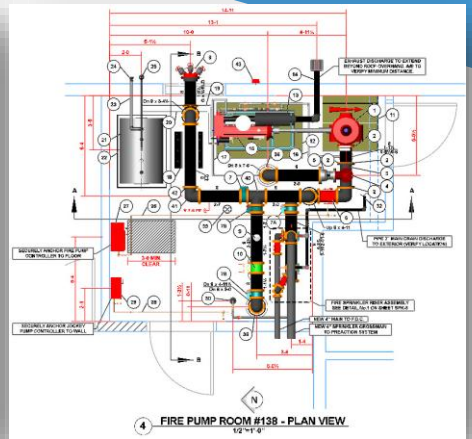
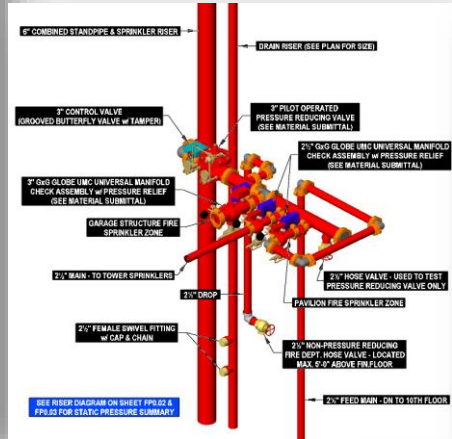
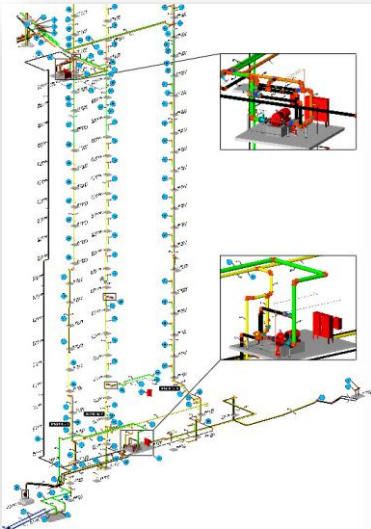


## Ontario Office:

4711 Yonge Street, 10th Floor,  
Toronto, ON M2N 6K8  
Tel: (905) 910-0581



# Samples of our Work





## Contact Us

At Loyal Fire Consulting Engineers, we are passionate about advancing fire protection and life safety engineering. With a proven track record, industry-leading certifications, and a talented team, we deliver innovative, reliable, and comprehensive solutions tailored to your needs.

Partner with us to experience the difference that expertise and dedication can make in safeguarding your property.



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[www.loyalfire.ca](http://www.loyalfire.ca)



<https://www.linkedin.com/company/loyal-fire>



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