ENGINEERING SERVICES

# FIRE PROTECTION


**At BSA, Fire Protection Engineering is a critical component of creating safe, resilient environments for healthcare, higher education, and research facilities, ensuring that fire protection strategies are thoughtfully coordinated with building systems and design, protecting people, property, and mission-critical operations.**

We work closely with clients, local AHJ's, and project teams to understand operational needs, regulatory requirements, and facility risks. This collaboration allows us to develop solutions for **healing, learning and discovery** spaces, that align with each building's function while meeting applicable codes, standards, and life-safety requirements. From early planning through construction, our engineers provide clear guidance to support efficient project delivery and long-term reliability.

Our team designs systems that are carefully integrated with building infrastructure and tailored to the complexity of modern facilities. These include traditional sprinkler solutions such as wet pipe, dry pipe, and pre-action systems, along with standpipe systems that support firefighting operations in larger or multi-story buildings, ensuring dependable performance in emergency situations.

In specialized environments, where water-based systems may not be appropriate, we also design clean agent fire suppression systems to protect sensitive equipment and other high-value spaces. These systems provide effective fire suppression while minimizing potential damage to critical assets.

At BSA, our goal is to deliver thoughtfully integrated systems that enhance safety, protect critical operations, and support the long-term resilience of the buildings and communities our clients serve.

## FIRE PROTECTION SYSTEM DESIGN

- Wet sprinkler systems
- Dry sprinkler systems
- Pre-action sprinkler systems
- Standpipe systems
- Clean Agent systems
- Fire Protection Equipment
- Fire Pumps

## FIRE PROTECTION SERVICES

- Code & Standard Compliance Reviews
- Construction documents preparation
- Construction administration
- Owner's standards development
- Existing systems evaluation
- Master planning – new and existing systems

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