# 60+

## TOTAL PROJECTS

BKV Group is a
Committed Leader in
Sustainable Design,
Education and
Implementation
since 1978.

## **COMING SOON!**

EASTGATE/NEWBRIDGE FIREHOUSE 23

STAPLES MILL FIREHOUSE 20

SEVEN CORNERS FIRE STATION 28 LEED V4 | SILVER

SPRINGFIELD FIRE STATION #4

SPRINGFIELD FIRE STATION #7
LEED V4 | SILVER

SPRINGFIELD FIRE STATION #13

PENN DAW FIRE STATION 11 -DESIGN LEED 2009 | SILVER

LOUDOUN FIRE & RESCUE BASIC TRAINING FACILITY LEED V4 | SILVER

## HIGHLIGHTS

WOODLAWN FIRE STATION 24
LEED 2009 | GOLD
PATH TO PLATINUM

MARY RILEY STYLES LIBRARY
LEED V4 | SILVER

SHORT PUMP FIREHOUSE 19
LEED 2009 | GOLD

A-MILL HISTORIC RENOVATION
LEED 2009 | GOLD

HOWARD LAKE LIBRARY MN B3/SB 2030





# SUSTAINABLE DESIGN

## STRENGTHENING COMMUNITY

Taking the long view not only makes good financial sense, it aligns with the imperatives of a resilient fire service delivery model. A sustainable Firehouse should live through generations of firefighters and more than 50 years of heavy use. It should be be durable, adaptable, and expandable. It should align with the social context of it's community as naturally as it does with the environmental conditions of it's site. A sustainable Firehouse becomes a cornerstone of it's community and a symbol of strength, safety, and joy to all who rely on it.

60+
SUSTAINABLE PROJECTS
COMPLETED NATIONWIDE

198
TOTAL DESIGN AWARD

300+
GOVERNMENT PROJECTS
NATIONWIDE



### **SITE PLANNING**

Sustainable site planning reaches beyond the boundaries of the project to exemplify the values of the neighborhood, integrate with the local microclimate, orient to advantageous solar and wind angles, and cooperate with existing stormwater flows. It includes the design of apparatus aprons that will last the lifespan of the building, low-maintenance and native landscaping, protecting views to nature from the interior of the station, functional outdoor living space, and gardening opportunities for fresh produce.

#### **ENERGY CONSERVATION**

Energy use is a key factor in the design of our stations, and their 24/7/365 occupancy makes them a smart target for energy conservation dollars. This starts with not oversizing the building. Passive solar principles, self-shading, natural ventilation, and daylighting can all reduce energy demands while increasing firefighter health and well-being. The efficiency of mechanical systems, water heating, lighting, and the building envelope is maximized through the use of advanced modeling software and lifecycle cost analysis.

#### **BUILDING MATERIALS**

Building material choices must consider the extensive impacts that resource extraction, processing/ manufacturing, and transportation to the job site have on our environment. Environmentally preferable building materials are non-toxic, highly-durable, and easy to maintain. This aligns with the fire service industry's focus on resilience as well as the critical need for cleanability. Within the parameters of cost, performance, and aesthetics, careful selection can be long-lasting, promote health, and enliven the space to build camaraderie and morale.









We are the fire department, we don't build buildings. We have some ideas, but we don't even know what is available. The nice thing about the process that we had with BKV Group was our ability to describe outcomes that we were looking for and then the expertise from BKV Group that provided us this wonderful building.

#### **ERIC KERSKA**

Fire Chief of Rochester City of Rochester, MN Rochester Fire Station #2



BKV Group finished up Fire Station #2 in Rochester, MN. It was a very challenging project with site issues and property acquisition issues. We had a tight budget and they were able to bring it in on time and on budget. [BKV Group] was just fantastic on how they collaborated with the department and my fire group. I was so impressed with the project that when I retired from the Rochester Fire Department, I went to go work for BKV Group.

#### **GREG "G.K" MARTIN**

Fire Service Operations Expert Retired Fire Chief of Rochester City of Rochester, MN Rochester Fire Station, #2



Short Pump Firehouse 19 uses half the annual energy of the average of our other stations.

## **CHUCK PHAN**

Project Manager Henrico County's



Through all of the projects, I must say that BKV Group stands out by having demonstrated their professional approach and showing flexibility to adjust the project schedule and program changes in support of our goals.

## ED BASS

Senior Project Manager

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