

# ABOUT US



**Sean Melville, PE** is BHI's Structural Engineering Group Leader and a Senior Vice President. Sean has been involved in structural projects for bridges, buildings, drainage structures, retaining walls and sound walls. He has applied his expertise on BHI's highest-profile engineering projects, creating structural designs that are not only cost-effective and functional but that also leave a lasting aesthetic impression as well.



**Nick Davis, PE** is a BHI Vice President and Senior Project manager who leads commercial, industrial and residential structural engineering design. Nick is a strong leader who interfaces effectively with architects, mechanical and electrical engineers, and contractors to develop, evaluate, coordinate and execute construction drawings for the implementation of new and/or upgraded processes and buildings for educational, military, laboratory, industrial and manufacturing facilities.



**Matt Bean, PE** is a Structural Engineering Vice President. He is a structural engineer with over 14 years of experience working directly with design teams and architects to design new or renovate existing structures. Matt has experience with federal and municipal governments, commercial entities, healthcare institutions, educational systems, and multi-family communities. Matt is a quality assurance specialist with experience working in ASME NQA-1.

## WHO WE ARE:

The BHI Structural Engineering team works with diverse groups of owners, builders, engineers and other professionals to deliver exceptional services to our clients. Our staff has in-depth expertise in designing diverse structural project types, from schools and government buildings to high-volume bridges, secure facilities and large community water reservoirs. We offer cost-effective designs, exemplified by our solid track record of value engineering. Ultimately, our goal is to provide our clients and the public with safe, functional, appealing, sustainable and economical structures, now and into the future.

# CONTACT US

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## CONNECT WITH US

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# STRUCTURAL ENGINEERING SERVICES

**Bohannan**  **Huston**



# SERVICES WE PROVIDE

## TRANSPORTATION / CIVIL INFRASTRUCTURE

Our Structures Group provides innovative, economical, and functional designs for an array of civil infrastructure, specializing in our nation's critical surface water, utility, and transportation systems. Our engineers offer the analysis and design skills to effectively develop:

- Bridges for urban and rural interchanges, highways, pedestrian / bicycle facilities, and large and small water crossings
- Specialized earth retaining structures (walls and reinforcements), temporary or permanent
- Dams, reservoirs, and water quality structures
- Lift stations, pump stations, and treatment facilities

## INDUSTRIAL STRUCTURES

BHI provides designs and guidance for structural modifications and upgrades to the operational elements within facilities. We efficiently coordinate, design, and detail the non-building structures that support mechanical, electrical, and process equipment and components used within industrial and manufacturing facilities. These include:

- Equipment foundations
- Catwalks and access platforms
- Piping support structures
- Exhaust support structures
- Dynamic-sensitive infrastructure (vibration, seismic, wind, etc.)

## GOVERNMENT / SECURE FACILITIES

Structural designs in specialized facilities not only must meet exacting technical criteria, but also must adhere to stringent quality standards (e.g., NQA-1) and require confidential design data to be securely stored. BHI's rigorous quality assurance program gives clients the confidence that our designs fit their state-of-the-art new facilities. We provide specialized expertise in:

- Structural support for Project Planning / Budget Planning
- Emergency operations facilities
- Operations and office facilities
- Test support structures
- Laboratory facilities

## STRUCTURAL DESIGN AND BUILDING INFORMATION MODELING TECHNOLOGIES

We offer the latest and greatest in technology! Designs are produced using AutoCAD, Civil 3D, Tekla, Revit, and Dynamo with real-time team collaboration through Autodesk BIM 360 and model sharing. We also use modern design software including RISA, LeapBridge, and StructurePoint products. With these design and modeling programs, we create accurate databases of the structural building systems used not only in design but also for construction coordination, future modifications, maintenance, and asset management.

## COMMERCIAL / RESIDENTIAL ARCHITECTURE

BHI has three decades of experience developing structural building plans and consistently provides services for mixed use, commercial, education, office, retail, residential, and hospitality developments. We work with architects, owners, builders, and other engineers to design structures for various building types and functions. Look to our structural team for:

- Collaborative Revit model development during each phase of design
- Proactive, responsive, and effective coordination with the owner, architect, and specialty design team
- High-quality, cost-effective, and constructible designs

## EVERYTHING YOU NEED

*under one roof*

From project concept through construction, BHI's Structural Engineering staff is skilled at producing safe and functional facilities that meet each client's individual needs. Our team is experienced in design-build, fast-track and conventional project delivery systems, and we are adept at conducting studies of existing or proposed structures, considering safety, stability, constructability, cost-effectiveness and performance life or life-cycle cost. BHI staff are proud to serve as the bridge between concept and completion!