



# On-Call Campus Mechanical Engineers for DSHS Medical Lake Campus

Project No. 2023-420

**Wood Harbinger**  
**Statement of Qualifications**

June 15, 2023

Submitted to  
**State of Washington Department of Enterprise Services**



929 108th Ave NE, Suite 1000  
Bellevue, WA 98004  
425.628.6000  
woodharbinger.com

June 15, 2023

Kristine Keller  
Project Manager  
State of Washington  
Department of Enterprise Services/Department of Social and Health Services  
kristine.keller@dshs.wa.gov

**Re: On-Call Campus Mechanical Engineers for DSHS Medical Lake Campus, Project No. 2023-420**

Dear Kristine:

A functional, attractive, and thriving built environment with all systems working reliably and efficiently: that's the end result for which building owners and maintenance teams strive from day one. We value the role that proactive assessments, maintenance, repair, and upgrades play in keeping mechanical systems operating at their optimum levels and supporting positive and comfortable experiences for building occupants. Our mechanical engineering team is ready to help DSHS achieve lifetime benefits for their buildings and infrastructure on the Medical Lake Campus.

Our proposed team has extensive experience with on-call contracts and has completed hundreds of task orders and stand-alone projects in the past several years with public agencies and healthcare systems including the Department of Enterprise Services, Department of Social and Health Services, Washington State Public Health Labs, Providence Saint Mary's, UW Medicine, and many of Washington's community college campuses.

Our comprehensive experience includes feasibility studies and condition assessments, design, bid documents, permitting, construction administration, and project closeout for all sizes of projects, including equipment replacements and upgrades, tenant improvements, and remodel/reconfiguration projects as simple as assessing the cause of temperature imbalances to as complex as a multi-phase mechanical systems replacement in an occupied laboratory space. We also have specialty experience with utility generation systems and distribution infrastructure; this is particularly beneficial for addressing mechanical system challenges because of the intricate relationships between generation, distribution, controls systems, and equipment. Occupant comfort and safety in a conditioned environment are the goals, and all components in the interconnected system must operate in harmony to achieve this.

Our engineering approach emphasizes operational resiliency, system integration, and energy efficiency. Our engineers pursue innovative options that balance the owner's business goals, user needs, first and life cycle costs, and system effectiveness. We focus on optimizing environments to support the needs of various user groups and the overall user experience.

We understand the critical nature of the services you provide through your facilities at the Medical Lake Campus. With the depth of our team, our in-place processes to handle on-call work, and our history providing on-call services through the Department of Enterprise Services, we look forward to helping you deliver best value to your customers by providing the superior mechanical engineering expertise you need, when you need it, and with a highest quality approach and exceptional customer service.

Sincerely,

A handwritten signature in blue ink, appearing to read "N. Baker".

Nick Baker, PE, CCP, LEED AP BD+C | Principal  
nbaker@woodharbinger.com | 425.628.6042



STATE OF WASHINGTON  
DEPARTMENT OF ENTERPRISE SERVICES

1500 Jefferson St. SE, Olympia, WA 98501  
PO Box 41476, Olympia, WA 98504-1476

Consultant Selection Contact Form

Designated Point of Contact for Statement of Qualifications  
For Design Bid Build, Design Build, Progressive Design Build, GC/CM & Job Order Contracting  
(JOC) Selections

Firm Name: <a href="#">Wood Harbinger, Inc.</a>		
Point of Contact Name & Title: <a href="#">Nick Baker, PE, CCP, LEED AP BD+C, Principal</a>		
Email: <a href="mailto:nbaker@woodharbinger.com">nbaker@woodharbinger.com</a>	Telephone: <a href="tel:425.628.6042">425.628.6042</a>	
Address: <a href="#">929 108th Avenue NE, Suite 1000</a>		
City: <a href="#">Bellevue</a>	State: <a href="#">WA</a>	Zip: <a href="#">98004</a>

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# 1. SF330 Form Part II: General Qualifications

## ARCHITECT-ENGINEER QUALIFICATIONS

### Part II—General Qualifications

2a. FIRM (OR BRANCH OFFICE) NAME  
Wood Harbinger, Inc.

2b. STREET  
929 108th Avenue NE, Suite 1000

2c. CITY  
Bellevue

2d. STATE  
WA

2e. ZIP CODE  
98004

6a. POINT OF CONTACT NAME AND TITLE  
Tom Leonidas, PE, President & CEO

6b. TELEPHONE NUMBER  
425.628.6015

6c. E-MAIL ADDRESS  
tleonidas@woodharbinger.com

8a. FORMER FIRM NAME(S)  
N/A

8b. YEAR ESTABLISHED  
N/A

1. SOLICITATION OR PROJECT NUMBER  
2023-420

3. ESTABLISHED  
1967

4. UNIQUE ENTITY ID  
RYC7NYGNVLW7

5. OWNERSHIP  
a. TYPE  
Corporation

b. SMALL BUSINESS STATUS  
SBE

7. NAME OF FIRM (IF BRANCH)  
N/A

8c. UNIQUE ENTITY IDENTIFIER  
N/A

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRMS EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
A. FUNCTION CODE	B. DISCIPLINE	C. NO. OF EMPLOYEES		a. PROFILE CODE	b. EXPERIENCE	c. REVENUE INDEX NUMBER
		(1) FIRM	(2) BRANCH			
02	Administrative	5		A06	Airports; Terminals and Hangars; Freight Handling	5
08	CADD Technician	1		A09	Anti-Terrorism/Force Protection	7
21	Electrical Engineer	13		A12	Automation; Controls; Instrumentation	4
25	Fire Protection Engineer	1		B02	Bridges	4
42	Mechanical Engineer	9		C12	Communications Systems	3
	Commissioning Provider	2		D04	Design-Build	5
TOTAL		31		E02	Educational Facilities; Classrooms	7
				E03	Electrical Studies and Design	6
				F03	Fire Protection	3
				H01	Harbors; Jetties; Piers; Ship Terminal Facilities	4
				H04	Heating; Ventilating; Air Conditioning	5
				H09	Hospitals and Medical Facilities	7
				I01	Industrial Buildings; Manufacturing Plants	3
				L06	Lighting (Exteriors; Streets; Memorials; Athletic Fields)	3
				P07	Plumbing and Piping Design	3
				P12	Power Generation, Transmission, Distribution	5
				R04	Recreation Facilities (Parks; Marinas; etc.)	4
				S02	Security Systems; Intruder and Smoke Detection	2
				S11	Sustainable Design	3
				U03	Utilities (Gas and Steam)	3
				V01	Value Analysis; Life Cycle Costing	1



11. Annual Average Professional Services Revenues of Firm for Last 3 Years

a. FEDERAL WORK	7
b. NON-FEDERAL WORK	6
c. TOTAL WORK	7

Professional Services Revenue Index Number

- |                                     |                             |
|-------------------------------------|-----------------------------|
| 1. LESS THAN \$100,000              | 6. \$2M TO LESS THAN \$5M   |
| 2. \$100,000 TO LESS THAN \$250,000 | 7. \$5M TO LESS THAN \$10M  |
| 3. \$250,000 TO LESS THAN \$500,000 | 8. \$10M TO LESS THAN \$25M |
| 4. \$500,000 TO LESS THAN \$1M      | 9. \$25M TO LESS THAN \$50M |
| 5. \$1M TO LESS THAN \$2M           | 10. \$50M OR GREATER        |

12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.

a. SIGNATURE

b. NAME AND TITLE  
Tom Leonidas, PE, President & CEO

c. DATE  
June 15, 2023





## 2. Qualifications of Key Personnel

Our mechanical engineering team combines technical expertise with three intangible human elements of effective mechanical systems operation.

We are in tune with user needs, from end user occupants to operations and maintenance teams working every day to keep systems running smoothly. We focus on optimizing environments for comfort, humidity and temperature control, and ventilation to support the needs of various spaces and the overall user experience. We prioritize communication and comprehensive documentation so clients understand the issues clearly and can make informed choices that achieve their goals and ultimately, create inspiring and healthy user experiences.

### Sustainable Design

As a mechanical and electrical engineering consulting firm, the systems we engineer have a major influence on the sustainable operation of a building over time. Our holistic approach to energy efficient systems, renewable energy sources, and ease of operation and maintenance can result in a high level of sustainability in creating and maintaining the built environment. We see our role as sustainability strategists and stewards, continually improving our ability to apply sustainable design principles without sacrificing reliability, flexibility, or long-term maintenance considerations.

### Our Capabilities

- » Investigation of existing conditions
- » Coordination with permitting agencies and utilities
- » HVAC systems pre-design and design
- » Piping systems pre-design and design
- » Plumbing systems pre-design and design
- » Controls pre-design and design
- » Specialty exhaust systems pre-design and design
- » Site utilities pre-design and design
- » Utility infrastructure pre-design and design
- » Mechanical systems analysis & modeling
- » Utility company energy efficiency incentives
- » Assembling complete bid documents
- » Bidding assistance
- » Contract administration
- » Project closeout

### HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)

- » Variable air volume (VAV)
- » Variable refrigerant flow (VRF)
- » Chilled beams
- » Natural ventilation
- » Ground-source heat pump
- » Indirect evaporative cooling

### PLUMBING

- » Domestic water
- » Drain waste vent
- » High pressure water jet

### PIPING

- » Steam
- » Condensate
- » Hydronics
- » Fuel
- » Medical gases

### CONTROLS

- » Packaged controls
- » Direct digital controls (DDC)
- » Industrial Controls

### UTILITY INFRASTRUCTURE

- » Central heating and power plants
- » Boilers
- » Chillers and cooling towers
- » Petroleum and fueling systems

### ANALYSIS AND MODELING

- » Energy audit (benchmarking and ASHRAE Levels I, II, III)
- » Life-cycle cost analysis (LCCA)
- » Energy modeling
- » Energy conservation measures analysis
- » Computational fluid dynamics (CFD) modeling
- » Air flow studies
- » Indoor air quality (IAQ) analysis and control
- » Heat and mass flow balance
- » Hydraulic, seismic and stress analysis and modeling

## Team Organization

The seasoned professionals listed on the organizational chart below are the core staff available to address your project needs. Our team has the experience, capability, and capacity to complete a wide range of project types and sizes. Supporting our leadership team, we have a deep bench of project managers spanning a diverse range of scope elements, as well as technical specialists to address the specific needs of a project—and multiple projects concurrently—as needed.

Based on the needs of each project, we will assign a team with the expertise, experience, and capacity to meet your project goals on time and within budget. Our key team member resumes are included on the following pages.

### State of Washington Department of Enterprise Services Department of Social and Health Services



**Nick Baker** PE, CCP, LEED AP BD+C  
Principal-In-Charge  
Primary Point of Contact

**Melissa Evans**  
Project Assistant

**Paul Greenwalt** EIT  
Project Manager  
Senior Mechanical Designer

**Mike Lehner** PE, FPE  
Senior Mechanical/Plumbing/Fire Protection Engineer

**Tim Bryant** PE  
Senior Mechanical Engineer

“Wood Harbinger worked diligently to understand the challenges that we faced, and by engaging in thorough communication, they were able to design a system that fully optimized all of our project goals.”

TERRY WILLIAMS, CAPITAL PROJECTS MANAGER  
WASHINGTON STATE DEPARTMENT OF HEALTH



## Nick Baker PE, CCP, LEED AP BD+C

### Principal-in-Charge/Primary Point of Contact

Nick is a motorcycle mechanic by trade, a physicist by education, and a mechanical engineer by license and profession. He has 18 years of experience in mechanical systems engineering, maintenance, repair, and testing. With this varied perspective and a personable, resourceful approach, Nick excels as a leader of teams and projects. His experience includes design, management, systems assessments, controls troubleshooting, and commissioning for a variety of facilities, including education, public agencies, healthcare, offices, labs, and military installations. Nick's emphasis on responsive service is the foundation of his strong client and team partnerships.

#### Education

BS Physics  
University of Washington  
Seattle, WA, 2009

#### Registrations & Certifications

Professional Mechanical Engineer  
Washington #54402, 2016  
Oregon #96496PE, 2021

Certified Commissioning  
Professional #265

LEED Accredited Professional,  
Building Design and Construction

US Army Corps of Engineers  
Construction Quality Management  
for Contractors

#### RELEVANT PROJECT EXPERIENCE

- » Mechanical Engineering On-Call, City of Bellevue, Bellevue, WA
- » Mechanical Engineering On-Call, Snohomish County, Everett, WA
- » Mechanical & Electrical Engineering On-Call, Port of Seattle, SeaTac, WA
- » Mechanical & Electrical Engineering On-Call Services, Thurston County, Olympia, WA
- » Mechanical & Electrical Engineering On-Call, Port of Anacortes, Anacortes, WA
- » Downtown Seattle Transit Tunnel On-Call Mechanical, Fire Protection, Life Safety, and Electrical, Sound Transit, Seattle, WA
- » Diagnostic and Treatment Center Renovation Phases 3, 4, and 5, Valley Medical Center, Renton, WA
- » Lake Wilderness Primary Care Clinic Tenant Improvement, Valley Medical Center, Maple Valley, WA
- » North Linear Accelerator Replacement, Valley Medical Center, Renton, WA
- » South Linear Accelerator Replacement, Valley Medical Center, Renton, WA
- » Talbot Building Level 2, Valley Medical Center, Renton, WA
- » Welding Shop HVAC Upgrade, Lake Washington Institute of Technology, Kirkland, WA
- » Mechanical & Electrical Engineering On-Call, Central Kitsap School District, Silverdale, WA
- » Skagit Valley College On-Call Mechanical Engineering, Mount Vernon, WA
- » Seattle Municipal Tower Elevator Replacement, City of Seattle, Seattle, WA
- » Umpqua BLM Collocation Addition, US Forest Service, Roseburg, OR
- » Seattle Center Mechanical Engineering On-Call, City of Seattle, Seattle, WA
- » Building C9 B17 Tenant Improvement, Western State Hospital, Lakewood, WA





## Paul Greenwalt EIT

### Project Manager/Senior Mechanical Designer

Paul has 13 years of experience in systems commissioning and mechanical systems design. He is proficient in commissioning for HVAC, plumbing, fire protection, and electrical and low voltage systems for a variety of buildings and campus types, including education, healthcare, and municipal facilities. Paul's experience also includes HVAC systems design, reviews, and developing comprehensive systems manuals that support ongoing operations and maintenance at peak systems performance. He is a skilled and proactive communicator who brings enthusiasm and a creative, solutions-oriented perspective to all projects.

#### Education

BS General Science  
Seattle University  
Seattle, WA, 2011

#### Registrations & Certifications

Engineer in Training  
Washington #32125, 2012

#### Professional Affiliations

American Society of Heating,  
Refrigerating, & Air-Conditioning  
Engineers (ASHRAE)  
US Green Building Council (USGBC)

### RELEVANT PROJECT EXPERIENCE

- » Mechanical Engineering On-Call, City of Bellevue, Bellevue, WA
- » Water Testing Lab Relocation, Thurston County, Olympia, WA
- » West Hills STEM HVAC Replacement, Bremerton School District, Bremerton, WA
- » Mechanical & Electrical Engineering On-Call, Central Kitsap School District, Silverdale, WA
- » Seattle Center Armory Restroom Tenant Improvement, City of Seattle, Seattle, WA
- » On-Call Mechanical and Electrical, Port of Seattle, Seattle, WA
- » Seattle Municipal Tower Tenant Improvements On Call, Seattle, WA
- » P251B Hangars 6 & 9 Improvements, Naval Air Station Whidbey Island, Oak Harbor, WA
- » Samuelson Communication and Technology Center, Central Washington University, Ellensburg, WA
- » Maintenance and Transportation Warehouse Facility, Edmonds School District, Lynnwood, WA
- » Lynnwood and Mountlake Terrace Elementary Schools, Edmonds School District, Lynnwood and Mountlake Terrace, WA
- » Replace HVAC Systems at Four Schools, Central Kitsap School District, Silverdale, WA
- » District Office Net-Zero Pilot Program, Cascade Natural Gas Company, Bellingham, WA
- » Building Preservation Predesign and Leak Repairs, Washington State Department of Transportation, Olympia, WA
- » Building Assessments and Space Planning, Snohomish Health District, Everett, WA
- » City Hall Direct Digital Controls Upgrade RFP Development, City of Mill Creek, Mill Creek, WA



## Mike Lehner PE, FPE

### Senior Mechanical/Plumbing/Fire Protection Engineer

With 30 years' experience as a professional engineer and a spectrum of designs ranging from elementary school HVAC systems to the SR-520 floating bridge's fire suppression system to utility piping on the piers at Naval Base Kitsap, Mike delivers lessons learned and creative approaches with an unparalleled level of knowledge and applied expertise. His friendly demeanor combined with his attention to detail make him an excellent engineer and team partner. Mike is both a licensed mechanical engineer and fire protection engineer, with focused knowledge of codes, building construction, egress, fire suppression, fire alarm, and site planning considerations. He develops cost-effective solutions that enable positive user experiences.

#### Education

BS Mechanical Engineering  
University of Washington  
Seattle, WA, 1998

#### Registrations & Certifications

Professional Mechanical Engineer  
Washington #38714, 2008  
Oregon #96999PE, 2021

Professional Fire Protection  
Engineer  
Washington #38714, 2002  
Oregon #96999PE, 2021

#### Professional Affiliations

National Fire Protection  
Association (NFPA)

#### RELEVANT PROJECT EXPERIENCE

- » Mechanical & Electrical Engineering On-Call, Port of Seattle, SeaTac, WA
- » Public Health and Social Services Exterior Fire Sprinkler Replacement, Thurston County, Olympia, WA
- » Domestic Water and Fire Protection Replacement at Cortland Rope, Port of Anacortes, Anacortes, WA
- » High Speed Fueling Dispenser Replacement, Port of Anacortes, Anacortes, WA
- » Downtown Seattle Transit Tunnel Westlake Station Ventilation, Sound Transit, Seattle, WA
- » Downtown Seattle Transit Tunnel Life Safety Quality Control Review, Sound Transit, Seattle, WA
- » Downtown Seattle Transit Tunnel Industrial De-Watering Systems Assessment, Sound Transit, Seattle, WA
- » Skagit Valley College On-Call Mechanical Engineering, Mount Vernon, WA
- » Umpqua BLM Collocation Addition, US Forest Service, Roseburg, OR
- » Building C9 B17 Tenant Improvement, Western State Hospital, Lakewood, WA
- » Data Center Study, Office Building Number 2, Washington State Department of General Administration, Olympia, WA
- » Building #3 Boiler Plant Seismic Retrofit, US Department of Veterans Affairs, Vancouver, WA
- » Maintenance and Transportation Warehouse Facility, Edmonds School District, Edmonds, WA
- » Building and Dock Repairs, Port of Port Angeles, Port Angeles, WA
- » 17th Street Dock Reconstruction, City of Astoria, Astoria, OR



## Tim Bryant PE

### Senior Mechanical Engineer

Tim hasn't met a mechanical engineering challenge he can't help solve. He is a practical and details-minded engineer as well as a proactive communicator who will root out problems and provide realistic solutions. In Tim's 20-plus years' experience, he has studied and designed mechanical systems and utility infrastructure for public agencies, education facilities, military installations, and manufacturing plants. He has extensive experience with utilities systems design and equipment selection, including building HVAC and plumbing systems, piping and process piping, industrial ventilation systems, and hot water, chilled water, steam, and compressed air generation and distribution systems.

#### Education

BS Mechanical Engineering  
University of Washington  
Seattle, WA, 2001

#### Registrations & Certifications

Professional Mechanical Engineer  
Washington #52747, 2015

#### RELEVANT PROJECT EXPERIENCE

- » Diagnostic & Treatment Renovation Phase 4, Valley Medical Center, Renton, WA
- » East Pavilion Neuro Clinic, Valley Medical Center, Renton, WA
- » Biology and Environmental Lab Renovations, Western Washington University, Bellingham, WA
- » The Landing Primary Care Clinic Expansion, UW Valley Medical Center, Renton, WA
- » Lake Wilderness Primary Care Clinic Tenant Improvement, UW Valley Medical Center, Maple Valley, WA
- » Bainbridge Island Medical Center, Virginia Mason Medical Center, Bainbridge Island, WA
- » Newborn Screening Lab, Washington State Public Health Labs, Shoreline, WA
- » Seattle Municipal Tower Tenant Improvements On Call, City of Seattle, Seattle, WA
- » Mechanical On-Call, City of Bellevue, Bellevue, WA
- » Utility Loop, University of Washington, Seattle WA
- » Fueling Dock Upgrade, Des Moines Marina, Des Moines, WA
- » Boiler Control System Retrofit, Naval Base Kitsap, Bremerton, WA
- » Energy and Water Efficiency Improvements, B1026, B1103, B2600, B2701, B2720, Naval Base Kitsap, Bangor, WA
- » Replace Retaining Wall and Relocate Fuel Tank, B69, US Navy, Naval Magazine Indian Island, Indian Island, WA
- » Emergency Generator Replacement and OR Heat Pump Addition, Arbor Health Morton Hospital, Morton, WA



## 3. Past Performance

We know that the business of healthcare and behavioral health has changed. Policies and programs have become more complex, budgets have become leaner, and technology has become increasingly prevalent and critical in a world remade by the pandemic. Providers need resources and equipment that help them get their jobs done without complications. Facility operators need buildings and systems that are reliable, resilient, and operate efficiently. That means owners need allies and advisors who understand their business drivers and can work within the technically demanding, operationally sensitive, and dynamic environments.

We understand the imperative of keeping mission critical infrastructure in operation in the healthcare environment. Staff and patient safety and security considerations are critical in establishing the scope and schedule for projects. To that end, we maintain constant flexibility and adaptability in our approach and carefully schedule and coordinate our efforts with facilities staff and care providers.

As an integrated MEP and ICT design firm, we understand the multiple perspectives that must be harmoniously integrated. We emphasize early, upfront planning and work side-by-side with facilities, security, clinical engineering, infection control, and IT departments, listening to their needs and bridging the gaps between these groups to make sure all are on the same page and comfortable with how our work proceeds in pursuit of their mutually important goals.

We focus on thorough field investigation, flexible solutions, and long-term operational resiliency—these factors are of the utmost importance because we know

that what we do in supporting building infrastructure and systems ultimately promotes health, happiness, and wellness for patients, providers, and communities.

### On-Call Performance Approach

Our successful execution of on-call contracts is based on three key elements:

**Upfront Understanding:** We advocate for early involvement in defining project scope so that each task order is comprehensive and agreeable to all parties from the start. We have established an effective pre-task-order review strategy that allows us to discover the full breadth of your requirements and expectations prior to the start of each task order, enabling concise task order proposals and realistic project schedules that minimize cost, impact, and downtime.

**Coordinated Follow-Through:** We engage in continuous communication throughout each project, presenting our findings in an open, collaborative environment. Regular progress reports will communicate project progress along with input needed from stakeholders, project trends of note, and risks to the project. This frequent and formal process will result in earlier identification of issues and faster resolution.

**Maintaining Budget and Schedule:** We understand your need for rapid response and cost-conscious consulting services. We take advantage of our efforts on site by listening to your project vision and paying close attention to the details. Careful scheduling allows us to maximize assessment while minimizing disruption to ongoing operations. We identify and communicate issues

early and often to keep projects moving. This dynamic approach allows us to manage budgets and schedules more effectively.

## Developing Scope Within Budget

Our cost control process emphasizes clear and detailed construction drawings and specific construction estimates developed and refined at each stage of the design process. We find that our estimates hold up well at the beginning of a project to help define a realistic budget and at the end of the design process when the construction documents are released for bid. Our estimates follow a rigorous methodology of comparison of drawings and specifications and constructability reviews in preparing all estimates. We work with the owner to engineer a project that meets their scope within their budget constraints.

The majority of our work is performed within the Washington commercial construction market and is publicly bid. We work closely with contractors to stay current with market trends, particularly during times of high volatility. Our subconsultants also maintain an excellent reputation for accuracy and reliability in cost estimating for public projects. Examples of our past performance developing successful project scopes within budget are included in the following section.

## References

We invite you to verify our successful past performance through our references.

Austyn Smith  
Design & Construction  
Manager, Real Estate  
Strategy & Operations  
Providence Health &  
Services  
509.528.0236  
austyn.smith@providence.  
org

Donna Lee  
Capital Projects Coordinator  
Seattle Center  
Redevelopment  
206.507.8461  
donna.lee@seattle.gov

Robin Shoemaker  
Director of Capital Projects  
Central Kitsap School  
District  
robinsh@ckschools.org  
360.662.8272

## On-Call Performance Experience

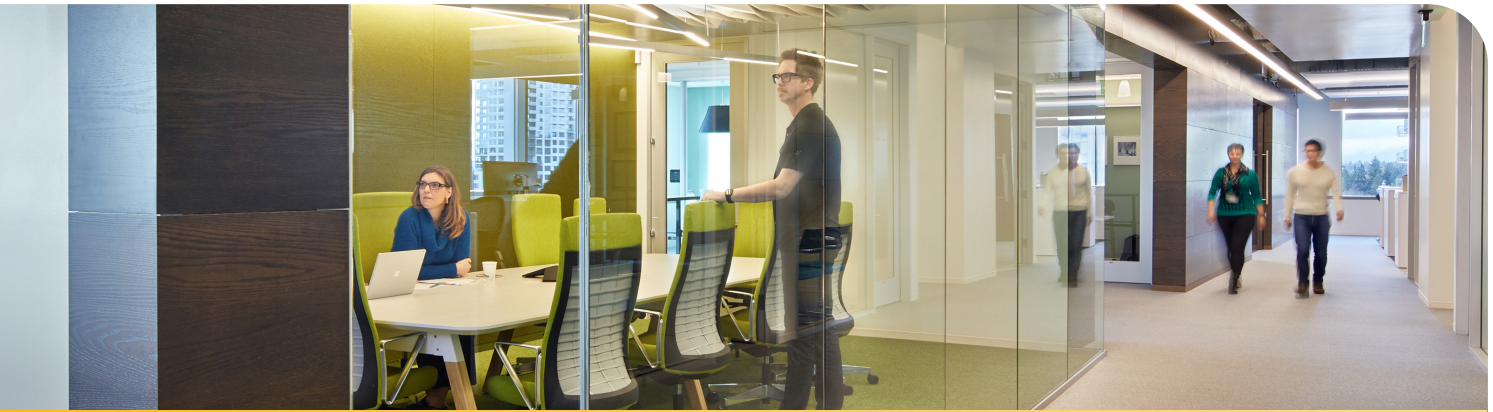
We are known for our responsiveness and reliability and provide ongoing/on-call engineering services for many organizations across industries for a variety of project types, including:

- » Washington State Department of Enterprise Services
- » Washington State Ferries
- » UW Medical Center
- » UW Medical Center Northwest
- » UW Valley Medical Center
- » Harborview Medical Center
- » Olympic Medical Center
- » Providence St. Mary Medical Center
- » City of Seattle
- » Seattle Center
- » Seattle Municipal Tower
- » Seattle City Light
- » City of Bellevue
- » City of Des Moines
- » Snohomish County
- » Pierce County
- » Snohomish County
- » Thurston County
- » Port of Everett
- » Port of Seattle
- » Community Transit
- » Sound Transit
- » Pierce Transit
- » King County Airport
- » Bremerton School District
- » Central Kitsap School District
- » Bellevue College
- » Cascadia College
- » Centralia College
- » Edmonds College
- » Green River College
- » Lake Washington Institute of Technology
- » Seattle Central College
- » Skagit Valley College
- » South Seattle College
- » University of Oregon
- » University of Washington Product Delivery Group
- » National Oceanic and Atmospheric Administration
- » US Forest Service
- » US Army Corps of Engineers
- » US Navy NAVFAC

“I have had the pleasure of working with Wood Harbinger on multiple acute care projects at St. Mary Medical Center in Walla Walla and their expertise has been instrumental in the success of our construction projects.”

AUSTYN SMITH, DESIGN & CONSTRUCTION MANAGER, REAL ESTATE STRATEGY & OPERATIONS, PROVIDENCE HEALTH & SERVICES





## 4. Relevant Experience

We are keenly aware of the issues our clients face every day in keeping their facilities operating reliably and efficiently. We design for practicality and help solve any issue that may arise. The peace of mind we can offer client teams gives us great satisfaction.

We are cognizant of the needs and challenges inherent in public agency projects, such as meeting design and construction standards criteria, navigating funding sources and timelines, and working within review and permitting processes. We are your partners in navigating the processes and regulations of the multiple jurisdictions with which you must interface. We react and respond to code reviews to assure your best interests are achieved.

We understand the importance of being good stewards of public funds and working within funding cycle frameworks and multiagency coordination. Our breadth of experience in facilities and infrastructure of many different natures and needs helps us provide value for public agencies at every step of the way.

In addition to our experience with on-call work for the Department of Enterprise Services, our behavioral health, and healthcare project experience encompasses studies and system assessments, master planning, tenant improvements, upgrades, renovations, complex campus infrastructure, renovations, and new construction. We have the expertise necessary to provide the electrical engineering consulting services you need.

Our portfolio of work is diverse, and we leverage lessons learned on every project for continuous improvement and delivery of exceptional quality.

### Western State Hospital Building 17 Ward C9 Remodel

WASHINGTON STATE  
DEPARTMENT OF SOCIAL AND  
HEALTH SERVICES

LAKEWOOD, WASHINGTON

Wood Harbinger led the preparation of MEP design documents and construction administration for tenant improvements for this 1,500-SF remodel and upgrade to an existing ward. The design effort focused on minimizing floor plan modifications while creating a space for effective delivery of behavioral health patient care in compliance with Department of Health and local jurisdiction code requirements.



Providence St. Mary Medical Center Lobby

## On-Call Mechanical and Electrical Engineering

PROVIDENCE HEALTH & SERVICES

WALLA WALLA, WA

We have provided mechanical and electrical engineering services for St. Mary Medical Center for more than 20 years. In that time, we have participated in three major hospital additions along with more than 200 smaller projects. Our work has included small space reconfigurations, clinic remodels, and complex, multiphase renovations in sensitive and critical areas, as well as multiple work orders for small tasks that require submittal to local and State Department of Labor and Industries. Our projects have included:

- » Birth center renovation
- » Postpartum patient rooms remodel
- » Pharmacy USP 797 upgrade
- » Kitchen equipment power relocation
- » Cath lab renovation
- » Helipad upgrade
- » Central services upgrade
- » 4th floor cardiology remodel
- » Cancer center remodel
- » Emergency room, pharmacy, and outpatient surgery remodel
- » Air handling unit replacements
- » Linear accelerator upgrade
- » Thermographics and electrical system assessment report
- » DAS upgrade
- » Hot water replacement
- » COVID refrigerator and freezer

## Building #3 Boiler Plant Seismic Retrofit

US DEPARTMENT OF VETERANS AFFAIRS

VANCOUVER, WA

We provided mechanical and electrical engineering for additional seismic support to enhance the seismic stability of existing equipment in Building #3 at the Vancouver VA Medical Center.

The boiler plant is considered a critical and essential facility, requiring immediate occupancy after a seismic event, so work was performed in accordance with the VA Seismic Design Manual H-18-8.

## Replace HVAC Systems at Four Schools

CENTRAL KITSAP SCHOOL DISTRICT

SILVERDALE, WA

As part of our on-call contract with the District, we led the design—with a subconsultant architect on our team—for the replacement of HVAC systems for three elementary schools and one middle school for Central Kitsap School District. The systems serve multiple areas including classrooms, administration, gymnasiums, music rooms, and the library.





Rooftop laboratory exhaust fans with discharge velocity stacks: a chilled beam system provides energy-efficient, reliable, and cost-effective service

## Newborn Screening Wing Addition

### WASHINGTON STATE PUBLIC HEALTH LABS

SHORELINE, WA

This project added approximately 7,000 SF of office and storage spaces and converted a 1,500-SF area used for records and supplements storage into a biosafety level 2 laboratory (BSL2) for use by the newborn screening staff. The -new lab space helps Washington State Public Health Labs meet new program and technological requirements in the newborn screening program.

We provided mechanical, electrical, and fire protection engineering for the project. Our design included special laboratory ventilation systems, modified plumbing and piped services, and additional electrical services. The diagnostic and analytical laboratory facility remained fully operational during construction. Our design addressed these constraints and minimized facility disruptions during construction.

## Training Room Alterations

### WASHINGTON STATE PUBLIC HEALTH LABS

SHORELINE, WA

This project involved modifying the supply and exhaust airflows necessary to support new testing equipment, connection to an existing deionized water distribution system and acid resistant waste system, as well as the extension and modification of the existing electrical power system to support the new equipment.

## Miscellaneous Systems Updates

### WASHINGTON STATE PUBLIC HEALTH LABS

SHORELINE, WA

We have performed a variety of systems updates including:

- » Converting the existing Siemens controls to Alerton by ATS
- » Providing design and consulting for Airquity tubing installation and integration with their existing sequence of operation
- » Providing a mechanical exhaust fan for the mechanical room
- » Providing a new DI water system to replace the existing DI water system in the original laboratory wings and a new matching system in N-Wing and B-Wing
- » Providing a fan coil unit in 44B connected to a secondary chilled water supply for additional cooling
- » Providing adequate cooling in Room E7 for laboratory equipment
- » Providing non-liquid Sapphire Fire Suppression System in Room E7 to protect laboratory equipment

## Water Testing Lab TI

### WASHINGTON STATE PUBLIC HEALTH AND SOCIAL SERVICES

OLYMPIA, WA

We are currently providing mechanical and electrical engineering services for tenant improvements to relocate the existing water testing lab from County Courthouse Building 1 to the Public Health and Social Services Building in Olympia.



# Biology and Environmental Lab Tenant Improvement

WESTERN WASHINGTON UNIVERSITY

BELLINGHAM, WA

This project converted existing classrooms into lab spaces and offices. We provided mechanical engineering to modify the existing HVAC, piping, plumbing, and fire protections systems to meet the needs of the new space usage.

The existing variable air volume HVAC system is the original system installed when the building was built in the 1970s. We modified the system to serve the labs, including adding airside equipment to serve the offices, utilizing heating water for building heat, providing economizer cooling only, and adding fume hoods for the research lab and wet labs. We also provided new sequences of operation for both office and lab environments.

Our plumbing design included domestic hot and cold water, lab hot and cold water, sanitary waste, acid waste, natural gas, compressed air, and distilled water.

The existing mechanical record documentation was original hand drawings from 1971. As part of this project, we redrew the mechanical, plumbing, piping, and fire protection systems drawings serving the entire floor, so the University had modern plans to use for the future.

# Mechanical and Electrical Engineering

SKAGIT VALLEY COLLEGE

MOUNT VERNON, WA

We have provided mechanical and electrical engineering consultation for a variety of projects at Skagit Valley College. Projects include:

**Roberts Data Center AHU Replacement Feasibility Study:** We provided mechanical and electrical feasibility studies for the installation of two owner-furnished air handling units for the data center at the Roberts Building.

**Direct Digital Control Replacement:** We provided mechanical and electrical design for the replacement of existing pneumatic and electronic control systems in the Roberts and Ford Buildings with an Alerton direct digital control (DDC) to match the College's campus standard for HVAC.

**Cardinal Center Makeup AHU Replacement:** We conducted a feasibility study and subsequent contract documents to replace an existing make-up air handling unit (MAHU) and exhaust fan at Cardinal Center kitchen, north end.

**Old Main Building Updates:** We completed several projects to update the Old Main building at the Whidbey Island campus. One element of the work included exterior envelope repair, building on a roofing replacement project the we had previously completed. Interior work included replacement of constricted hydronic heating pipes to improve radiator functionality in the classrooms. We also converted a dark corner in the building into a coffee lounge for students. We provided both mechanical and electrical engineering.



## 5. Diverse Business Inclusion Strategies

Wood Harbinger is a self-certified State of Washington Small Business and Small Business Enterprise (SBE) in accordance with the US Small Business Administration size standard for our NAICS code, 541330 Engineering Services. If awarded this contract, we anticipate performing 100 percent of the work as a small business.

Should the scope of work for any task orders we are assigned through this contract require outside resources, we will prioritize diverse and disadvantaged business participation including MWBE, Veteran-Owned, and Washington Small Business.

We commit to a genuine effort to achieve any diverse subcontracting goals set for task orders under this contract and will work with DES/DSHS to develop a comprehensive outreach strategy.

### Diverse Business Inclusion Plan

As a small business, we understand and value the development of disadvantaged businesses in our industry. Established in 2010, our formal diversity, equity, and inclusion plan—managed by our firm's top leadership—is based on a proactive approach to building relationships that foster diverse and disadvantaged businesses.

We take an active role in nurturing previous teaming relationships, networking at pre-bid conferences and via attendee lists, reviewing and searching through certified business resources such as state, county, and city registries, and the Small Business Administration. We also identify contacts through minority and

small business trade associations, through business development organizations, and by attending small business conferences and trade fairs.

To further diverse and disadvantaged business development, we make introductions to owners and clients, co-author articles and white papers, and partner on speaking opportunities at industry events. This supports diverse and disadvantaged firms in gaining exposure and developing credibility within the industry, enabling them to build additional recognition on their own.

As a small business, we also understand the challenges of cash flow and the importance of prompt payment. It is for this reason that we work closely with our diverse and disadvantaged partners to ensure payment terms are agreeable and lines of communication are open to address any issues, no matter how sensitive.

### HIRING PRACTICES

We know the importance of encouraging diversity in the AEC industry workforce for today and tomorrow, and we actively recruit diverse and qualified employees and subconsultants from all segments of society. We encourage a culture of collaboration in an inclusive workplace that values and derives strength from the uniqueness of each person. We do not tolerate any manifestations of discrimination based on race, color, religion, gender, sex, national origin, age, disability, or genetics.



## MENTORING OPPORTUNITIES AND PROGRAM

We actively participate in the nationwide ACE mentoring program, which is designed to teach students in grades 9 through 12 about architecture, construction, and engineering (ACE). This mentoring program encourages disadvantaged, women, and minority youth to pursue engineering careers.

## PARTICIPATION STRATEGIES

We have developed strong, long-lasting relationships with diverse and disadvantaged firms throughout the Pacific Northwest and across a wide range of disciplines. Our goal is to provide our clients with the best possible team for a successful project. We often team with disadvantaged firms as subconsultants, whether or not our client has a formal participation goal, because we feel that they are the best fit for our team and can provide the best service for our client.

When assigning tasks to our team or seeking additional team members as a result of contract or team changes, we will prioritize diverse and disadvantaged firms by leveraging our proposed team members, current relationships and our extensive network of diverse and disadvantaged firms beyond our proposed team, and any recommendations made by the owner. If we determine that an assigned project can best be served by adding resources to our team, in addition to prioritizing diverse and disadvantaged firms, we will work with you to ensure that any new team members have the required technical qualifications and capacity and are properly prequalified and onboarded for a seamless transition and successful delivery of assigned scope.

## PAST PERFORMANCE

In the past five years, we have subcontracted more than \$560k to diverse and disadvantaged businesses and developed successful ongoing working relationships with the following firms:

- » Buffalo Design, Inc. (Certified State of Washington WBE #W2F0012974)
- » CG Engineering (Small Business)
- » Jamieson Architect (Certified State of Washington WBE #W2F0027451)
- » Lightwire, Inc. (Certified State of Washington WBE #W2F0021197)
- » Nexus Building Consultants (Small Business)
- » PIKA Corporation (Small Business)
- » Salus Architecture, Inc. (Certified State of Washington MBE #M5M0023890)
- » SHJ Electric Co., Inc. (Certified Federal SBE #S000024534)
- » Spec-X Global (Service Disabled Veteran-Owned Small Business)

Although a large portion of our work is as a subconsultant to other prime firms, when we are the prime consultant for an opportunity, our leadership meets to strategize about potential subconsultant opportunities. We review the scope and identify all supporting services required to accomplish the work, breaking down the requirements into smaller tasks or quantities when feasible to maximize W/MBE participation. The following projects are examples of W/MBE participation on projects for which we were the prime consultant.

- » University of Washington Kane Hall Fire Protection: 15% W/MBE participation (\$48,605)
- » US Department of Veterans Affairs American Lake Electrical Infrastructure Upgrade Tasks 1 and 2: 6% W/MBE participation (\$290,261)
- » US Navy Naval Base Kitsap Puget Sound Naval Shipyard Industrial Skills Center Phase I: 4% W/MBE participation (\$956,254)



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