

State of Washington
Capital Projects Advisory Review Board (CPARB)
PROJECT REVIEW COMMITTEE (PRC)

APPLICATION FOR PROJECT APPROVAL
To Use the Design-Build (DB)
Alternative Contracting Procedure

The PRC will only consider complete applications: Incomplete applications may result in delay of action on your application. Responses to sections 1-7 and 9 should not exceed 20 pages (*font size 11 or larger*). Provide no more than six sketches, diagrams or drawings under Section 8.

Identification of Applicant

- a) Legal name of Public Body (your organization): **King County Department of Natural Resources and Parks Wastewater Treatment Division**
- b) Mailing Address: **201 South Jackson Street, Suite 500 Seattle, WA 98104**
- c) Contact Person Name: **Meredith Redmon, PMP** Title: **Capital Project Manager**
- d) Phone Number: **206-477-5488** E-mail: meredith.redmon@kingcounty.gov

1. Brief Description of Proposed Project

- a) Name of Project: **M Street Trunk Rehabilitation**
- b) County of Project Location: **King County**
- c) Please describe the project in no more than two short paragraphs. (*See Attachment A for an example.*)

The M Street Trunk Rehabilitation project will be located entirely within the city limits of Auburn, Washington and comprises the northern portion of King County Wastewater Treatment Division's (KCWTD) M Street Trunk. The project will include repair of over 13,800 linear feet (LF) of severely deteriorated 18-inch, 24-inch, 30-inch, and 36-inch diameter reinforced concrete sewer pipe with over 100 lateral connections and rehabilitation of 45 precast maintenance holes (MH). This work will require sewer diversion pumping through temporary above-ground bypass piping and odor control at each discharge location.

Several key challenges have been identified on this project. Interagency coordination with the City of Auburn (City) and Auburn Municipal Airport will be required develop and gain approval for a work sequence along the alignment; work sequencing will need to accommodate planned City roads projects, airport operations, and work hours and traffic disruption constraints in three school zones located along the alignment. The M Street Trunk alignment crosses three major roadways and numerous minor roadways and planning and accommodation will be needed to minimize impacts of above-ground diversion piping to road traffic, transit routes, and business and residential access, including potential shallow bury of temporary road crossings by sewer diversion piping. Additionally, lining work can only be performed during a dry weather work window from June 1st to September 30th when typical flows in the conveyance system are seasonally low.

2. Projected Total Cost for the Project:

A. Project Budget

Costs for Professional Services (A/E, Legal etc.)	\$2,789,534
Estimated project construction costs (<i>including construction contingencies</i>):	\$14,899,500
Equipment and furnishing costs	\$ --
Off-site costs	\$--
Contract administration costs (owner, cm etc.)	\$ 5,786,730
Contingencies (design & owner)	\$ 8,301,953
Other related project costs (briefly describe)	\$ 3,814,553*
Sales Tax	\$1,786,592
Total	\$ 36,748,862

* Permitting, sustainability, and escalation.

B. Funding Status

Please describe the funding status for the whole project. *Note: If funding is not available, please explain how and when funding is anticipated*

Funding has been approved and appropriated for this project by the King County Council. The project may apply for the Water Infrastructure Finance and Innovation Act (WIFIA) funding; however, availability of that potential funding source does not impact the County’s ability to proceed with awarding and executing the Contract for this project.

3. Anticipated Project Design and Construction Schedule

Please provide (See Attachment B for an example schedule.):

The anticipated project design and construction schedule, including:

- a) Procurement;
- b) Hiring consultants if not already hired; and
- c) Employing staff or hiring consultants to manage the project if not already employed or hired.

The key project tasks and milestone dates are summarized below, assuming Progressive Design-Build (PDB) delivery. See Attachment A, Project Schedule, for a more detailed schedule breakdown.

<u>Project Task</u>	<u>Start Date</u>	<u>Completion Date</u>
Owner Advisor Procurement	07/2022	11/2022
Project Review Committee Process	11/2022	02/2023
PDB Procurement Process and Contract Execution	02/2023	09/2023
PDB Design and Preconstruction	10/2023	06/2024
PDB Final Design and Construction	07/2024	12/2025
Construction Substantial Completion		12/2025

4. Explain why the DB Contracting Procedure is Appropriate for this Project

Please provide a detailed explanation of why use of the contracting procedure is appropriate for the proposed project. Please address the following, as appropriate:

In May 2021, KCWTD established an Alternative Delivery Committee (ADC) to enhance KCWTD’s ability to deliver a large and diverse portfolio of capital projects. The ADC adopted a two-step process to screen capital projects to determine if projects are suitable for DB or GCCM delivery methods. Step 1 determines whether a given project is suitable for either the DB or GCCM delivery method. Step 2 is a “type selection” process to determine the best or optimal delivery method.

The M Street Trunk project went through this two-step process. Step 1 determined that the project was suitable for alternative delivery, and Step 2 determined that the PDB method would be the best method for achieving the project goals, consistent with the criteria identified in RCW 39.10 for the use of DB, based on the key project attributes described below.

- If the construction activities are highly specialized and a DB approach is critical in developing the construction methodology (1) What are these highly specialized activities, and (2) Why is DB critical in the development of them?

The M Street Trunk has deteriorated due to the long-term effects of hydrogen sulfide exposure and a portion of the M Street Trunk failed in March of 2020 and had to be replaced using an emergency on-call work order. The project involves rehabilitation of sewer pipe and maintenance holes, while maintaining flows in the sewer system through sewer diversion pumping. Specific technical and construction challenges that PDB delivery was selected to address include:

- **Early Specialized Input.** The PDB method maximizes the opportunity for KCWTD and the design-build team (the design-builder, designer, and the specialty lining subcontractor) to function as an integrated team and develop a project plan to address the project challenges successfully. Input from each part of the DB team, including the specialty lining subcontractor, will be critical early in the project to determine the appropriate pipe rehabilitation method and then determining how and when each segment of work can occur based on the selected method. In order to sequence the work in a feasible way, the design-build team and KCTWD team will need to identify and determine the interaction of pipe rehabilitation activities (including space and time needed for each segment), corresponding diversion pumping strategies selected to suit the rehabilitation technology (e.g., length of each lining run will drive length of each planned diversion installation), schedule and spatial limitations on the work.

- **Sewer Diversion Planning.** One of the critical challenges for this project will be navigating permitting and approvals from local authorities and sequencing of the work, given the numerous constraints and impacts to the public. The planned above-ground temporary diversion pumping, piping, and odor control equipment will be disruptive to the public, with work crossing major arterials, an airport runway, school zones, transit routes, and impeding access to homes and businesses. Design-builder specialized knowledge and innovation is needed to identify optimal approaches to diversion routing and methods, particularly firms specializing in trenchless pipe rehabilitation methods. Early input on sewer diversion plans will allow KCWTD and the PDB to start the permitting and approvals process early and with accurate construction methods and sequencing information.
- **Lining Technology Selection.** KCWTD has conducted planning work to identify several potential lining technologies for the project, and desires specialized expertise to select an optimal technology for the needs and challenges of this project. This will include specialized knowledge at the alternatives analysis phase of the trade-offs between liner thickness (and resulting finished pipe capacity), cost, installation time and needs, and duration and nature of required sewer diversions.
- **Single Contract and Risk Reduction.** Having a single design and construction team responsible for design and implementation of the liner system and sewer diversion system will reduce the risk of errors and omissions affecting construction, changes during construction, and conflict between design and construction teams related to changes during construction, relative to DBB and GC/CM delivery methods.

- If the project provides opportunity for greater innovation and efficiencies between a designer and builder, describe these opportunities for innovation and efficiencies.

The collaborative nature of PDB will allow KCWTD to leverage the design-builder's collective expertise during the pre-construction stages to develop optimal construction sequencing strategies (including potential early works packages) to meet schedule constraints; including allowable in-pipe work window of June 1 – September 30 of each year and anticipated seasonal and time of day work limitations in school zones. Early and ongoing coordination will be required to determine the best locations and methods for crossing roadways with temporary diversion piping (including potential shallow bury of piping) while minimizing public impact, and for determining whether and how temporary diversion piping will cross or be routed around the Auburn Municipal Airport.

KCWTD also seeks to gain the benefit of industry knowledge regarding the current and best-suited methods to rehabilitate aging conveyance systems, pipelines and/or structures. KCWTD's goal is to secure a design-builder to capture the latest techniques, promote innovative ideas, and identify efficiencies that are in the best interest of the project. Environmental factors and stakeholder impacts can also be taken into consideration through a collaborative approach focused on innovation and efficiencies.

- If significant savings in project delivery time would be realized, explain how DB can achieve time savings on this project.

Given the severe deterioration of the M Street Trunk and the recent need for emergency repairs, project schedule is an important driver for this project. The M Street trunk needs to be rehabilitated before additional failures occur.

PDB offers features which will be critical to the schedule success of the project, including:

- Early contractor engagement for technical and permitting challenges,
- Early knowledge of planned construction sequencing and impacts to inform permitting processes and engage stakeholders
- The potential for early work packages to procure long-lead items, prepare for or install certain sewer diversion bypass lines below grade, if needed, and conduct other early construction activities to prepare for pipe and maintenance hole rehabilitation, and
- Enhanced collaboration throughout the design and construction process, which will reduce the risk of changes and delays

The DB procurement process will take approximately the same amount of time that KCWTD would normally expect to hire a design team in the traditional, DBB procurement method. The PDB approach will compress the traditional project delivery schedule, including avoiding a separate procurement for a DBB contractor, which ordinarily can take 6-8 months for KCWTD. With PDB, certain construction activities may start while the design is being completed.

We also anticipate that the duration for design will be shorter because documentation will be done to the extent necessary for permitting and construction, rather than to the more robust level typically required for competitive construction bidding.

The design-builder may also be able to achieve time savings through coordination with other construction activities in the area. A preliminary review of overlay projects in the City of Auburn indicates opportunities for the design-builder to take advantage of planned road closures to begin rehabilitation or repair activities. If any rehabilitation or repair activities can be performed in advance, it will reduce the risk of having rehabilitation or ground disturbing activities performed outside of the dry weather window. For example, upcoming projects at the Auburn Municipal Airport, including closure of the runway for paving in 2023, may provide an opportunity for the design-builder to evaluate if a bypass pipe should be installed during that time for use by the project at a later date.

5. Public Benefit

In addition to the above information, please provide information on how use of the DB contracting procedure will serve the public interest. For example, your description must address, but is not limited to:

- How this contracting method provides a substantial fiscal benefit; or
- How the use of the traditional method of awarding contracts in a lump sum (*the “design-bid-build method”*) is not practical for meeting desired quality standards or delivery schedules.

KCWTD has protected water quality in the Puget Sound region since 1958 by providing wastewater treatment services to King, Pierce, and Snohomish counties. KCWTD is an industry leader in developing and implementing new approaches and technologies to wastewater treatment, recycling, energy generation and use, and service delivery. Our regional wastewater treatment system operates around the clock and by providing critical wastewater treatment services KCWTD contributes to the long-term viability and health of the environmental, social, and economic aspects of our communities. The M Street Trunk project will rehabilitate and support the reliability of a key part of the regional wastewater treatment system.

PDB delivery will provide a substantial fiscal benefit in the following ways:

- Project implementation by a DB team will reduce overall project risk by decreasing the incidence of change orders and coordination delays through a single design and construction team, providing more cost certainty.
- KCWTD and the design-builder will begin working together early in the design process to make design decisions influenced by cost transparency during design development.
- KCWTD intends to achieve budget control by working collaboratively with the PDB to balance capital cost elements with long-term maintenance and replacement cost impacts. As a result, the public will benefit when the project is delivered in a quality manner with greater time and cost certainty and accountability for performance.

As noted in Section 4, traditional DBB delivery is not practical to meet the County’s schedule for critical rehabilitation of the M Street Trunk, or to provide the specialized expertise early in the project needed to address key project challenges for sequencing the work and gaining necessary permits and approvals for construction in time to meet KCWTD’s project schedule. By selecting the most qualified team based on experience and pricing factors, rather than based solely on the lowest price, the project construction process and finished rehabilitation work will safeguard public health and minimize disruption to the regional wastewater conveyance system and the vicinity of the project.

6. Public Body Qualifications

Please provide:

A description of your organization’s qualifications to use the DB contracting procedure.

KCWTD has extensive experience delivering large capital projects, including using alternative delivery methods, and has established an Alternative Delivery Committee and Pilot Program to support alternative delivery capacity building and successful implementation of alternative delivery projects. KCWTD’s key staff have relevant alternative delivery experience and will be supported throughout the life of the project by an Owner’s Advisor consultant team with decades of alternative delivery experience. KCWTD’s DB qualifications are further described below and in subsequent sections.

Capital Project Experience. KCWTD has been conducting and managing major capital projects for many years, with significant in-house project delivery and engineering resources. KCWTD delivers capital projects totaling approximately \$360M annually.

Alternative Delivery Experience. Pursuant to approvals by the PRC, various KC departments and divisions have utilized alternative delivery methods authorized by RCW 39.10, including DB and GC/CM contracting procedures, on a number of projects during the past ten years. KCWTD has utilized the GC/CM contracting method on the Brightwater Treatment Plant project and DB delivery for the Brightwater Outfall Tunnel project between 2005 and 2011.

Alternative Delivery Committee and Pilot Program. KCWTD determined that its ability to deliver a large and diverse portfolio of capital projects would be enhanced if it expanded its use of alternative delivery methods. In May 2021, KCWTD established an Alternative Delivery Committee (ADC) consisting of leadership from KCWTD's Project Planning and Delivery Section with experience in DB and GC/CM delivery methods, and representation from KCWTD operations and maintenance. The ADC is dedicated to assisting WTD in seeking increased efficiencies, improved project throughput, and better leveraging of internal resources by advocating for the use of alternative delivery methods on KCWTD projects. The ADC also established an alternative delivery pilot program to support implementation of alternative delivery on KCWTD projects. The program has multiple facets to build alternative delivery expertise and capacity within WTD, including training, industry outreach, and development of processes and tools for implementing alternative projects in-line with RCW 39.10 and industry best practices.

In addition, KCWTD staff have attended formal training conducted by the Design-Build Institute of America (DBIA), Associated General Contractors (AGC), and the Water Collaborative Delivery Association (WCDA, formerly the Water Design-Build Council). The DBIA training has included training exclusively for KCWTD with the goal of achieving DBIA certification for WTD project staff. During the past year, thirty-four KCWTD staff have participated in DBIA Certification training and to-date five staff have obtained certification from DBIA. During the past 15 months, KCWTD staff have also participated in interviews with industry leaders to gain insight regarding best practices and lessons learned to achieve success utilizing DB (particularly PDB) and GC/CM contracting methods.

KCWTD has further engaged a consulting team, consisting of Griffin, Hill & Associates (GHA) and Tanner Pacific, Inc. (TPI) to support training and develop internal processes and tools needed to implement the Pilot Project. The GHA/TPI team has conducted approximately forty (40) hours of training for KCWTD staff regarding the use of DB and GC/CM contracting methods in the water/wastewater industry. In addition to training, the GHA/TPI team has supported and facilitated the ADC's adoption of a two-step process to screen KCWTD capital projects to determine if projects are suitable for DB or GC/CM delivery methods. The ADC has also reviewed and modified the governance structure, organizational assets, and internal processes for capital projects in anticipation of utilizing alternative delivery methods.

Project Team. Contract Specialists Diane Navarro and Trisha Roth hold Associate DBIA certification. Trisha is a member of KC's overall procurement group (not specific to KCWTD) and has direct experience procuring and overseeing DB projects for other KC divisions.

Owners Advisor. To support and assist KCWTD, an Owner Advisor (OA) consultant team including OA Lead Pat Tangora and OA PM Patrick Weber, who is DBIA certified, will support the M Street Trunk project team. The OA team has extensive experience supporting owners with the procurement, delivery, and oversight of PDB projects.

The qualifications of KCWTD staff and consultants are provided below.

A project organizational chart, showing all existing or planned staff and consultant roles.

Note: The organizational chart must show the level of involvement and main responsibilities anticipated for each position throughout the project (for example, full-time project manager). If acronyms are used, a key should be provided. (See Attachment C for an example.)

Refer to Attachment E, Organization Chart.

Staff and consultant short biographies that demonstrate experience with DB contracting and projects (not complete résumés).

Meredith Redmon, King County WTD

Role: Project Manager

Relevant Experience: Meredith is a project manager with King County's Wastewater Treatment Division (WTD) and has over 18 years of project management experience covering traditional design-bid-build contracts. Meredith has managed multiple large scale complex capital improvement projects

including conveyance improvement projects, pump station upgrades, distributed control system upgrades, and large facility construction projects.

Arthur Moe Leavitt, P.E., King County WTD

Role: Project Engineer

Relevant Experience: Moe is a Senior Wastewater Engineer with King County's Wastewater Treatment Division (WTD) and has over 19 years of experience in public works engineering. Moe is a registered professional engineer in Washington. Moe has extensive design experience for water and wastewater conveyance and treatment facilities. His experience includes all aspects of planning and design including preparation of engineering reports, alternatives evaluation, development of detailed design plans and technical specifications, preparation of cost estimates, project schedules and permit documents. Moe also has practical experience managing subconsultants and contractors and conducting CM services during construction that include submittal reviews, response to field questions, inspection of field work, and onsite support for testing and commissioning of water and wastewater systems.

Bob Isaac, Lining Program Manager, King County WTD

Role: Sewer Rehabilitation Advisor

Relevant Experience: Bob has been in inspection, maintenance, and rehabilitation of the King County wastewater system for over 35 years. He has certification from the National Association of Corrosion Engineers (NACE/AMPP) as a Corrosion Technologist. Bob has been directly involved as the County's engineering representative in pipeline rehabilitation on numerous projects utilizing a variety of rehabilitation methods. He currently manages the long-term planning for the rehabilitation program and is serving on project teams as a subject matter expert.

Gary Casad, King County WTD

Role: Project Representative (Construction)

Relevant Experience: Gary has 30 years of construction experience within the public sector with expansive experience in contract management along with construction means and methods. Gary has provided construction oversight on similar sewer rehabilitation projects for KCWTD. Gary holds a bachelor's degree in civil engineering.

Trisha Roth, Associate DBIA, King County Procurement

Role: Contract Specialist III (Procurement)

Relevant Experience: Trisha brings more than 20 years of experience in both public and private sector with a firm background in project management and contract administration, particularly for capital projects. Trisha holds a Master of Science in Transportation Management, Associate DBIA and Certified Professional Public Buyer (CPPB) certifications. Trisha has direct DB procurement experience working as the Contract Specialist (CS) for KC's Procurement and Payables, which provides services to all KC divisions, leveraging DB experience outside of WTD. Trisha served as CS on the KCM Pier 50 Float Replacement, approved by the PRC in 2017, and the Interim Base Electrification (IBE) project approved by the PRC in 2020. Trisha also worked as backup CS for the Harbor Maleng Single Patient Rooms project, and managed execution of the Guaranteed Maximum Price (GMP) change order after the primary CS departed. Prior to King County, Trisha worked for Sound Transit (2013-2017) and was exposed to DB delivery methods supporting senior contract specialists.

Diane Navarro, Associate DBIA, King County WTD

Role: Contract Specialist (Contract Administration)

Relevant Experience: Diane brings over 10 years of both public and private procurement experience, with the majority of her time working in public procurement with Seattle Public Schools (SPS) as the district's Contracting Services Manager. Diane brings with her years of procurement experience, which includes leading the procurements on about 10 GC/CM projects and multiple DBB projects. Additionally, Diane has participated in many DBIA trainings and holds an Associate DBIA certification.

Pat Tangora, Brown and Caldwell

Role: Owner Advisor Lead

Relevant Experience: Pat Tangora brings more than 30 years of experience serving as an OA, helping clients effectively deliver multi-disciplinary public works projects using a range of alternative delivery methods, including PDB and FPDB, design-build-operate (DBO), and construction manager-at-risk (CMAR) including GC/CM. Pat has led the evaluation of project delivery methods, procurement strategy development, contractor procurement, contract negotiations, and contractor oversight for projects ranging from under \$10M to over \$1B. In Washington, Pat has provided OA services for multiple water and wastewater projects and jurisdictions, helping procure DB and GC/CM teams in compliance with RCW 39.10 criteria, and assisting owners in oversight of projects during the design and construction phases.

Patrick Weber, P.E., PMP, DBIA, Brown and Caldwell

Role: Owner Advisor Project Manager

Relevant Experience: Patrick has 16 years of engineering experience in planning, design, and oversight of water and wastewater projects. Patrick provides OA services for delivery method evaluation, procurement, design oversight, and construction oversight of alternative delivery projects around the country, focused primarily on progressive design-build (PDB). Patrick has provided OA services for more than 10 PDB projects, including two PDB OA projects in the Puget Sound region. He has experience applying PDB principles to the particular challenges of linear conveyance projects.

Adam Wirthlin, P.E., Tanner Pacific

Role: Owner Advisor Lead Cost Estimator

Relevant Experience: Adam Wirthlin draws on his diverse career in construction spanning 20 years working for both contractors and engineers on a variety of construction projects. Adam has provided independent cost estimates for several PDB projects and has experience providing negotiations support for design-build projects.

Provide the **experience and role on previous DB projects** delivered under RCW 39.10 or equivalent experience for each staff member or consultant in key positions on the proposed project.

See Attachment B, Project Experience and Role, for each staff member in key positions in the proposed project.

The qualifications of the existing or planned project manager and consultants.

Note: For Design-Build projects, you must have personnel who are independent of the Design-Build team, knowledgeable in the Design-Build process, and able to oversee and administer the contract.

The County's project manager, Meredith Redmon, has over 18 years of project management experience covering traditional design-bid-build contracts. She has managed multiple large scale complex capital improvement projects including pump station upgrades, conveyance improvement projects, distributed control system upgrades, and large facility construction projects.

The County's OA Lead, Pat Tangora, has worked on alternative delivery projects for over 30 years. Through this experience, she has gained significant understanding of the PDB process and has successfully executed a number of DB projects. The OA PM, Patrick Weber, is a DBIA certified engineer and project manager who has worked on OA projects for the last 10 years, including more than 10 PDB projects. Both Pat and Patrick are committed to overseeing the project and working closely with Meredith to execute the work. Brown and Caldwell is currently under contract with the County for early procurement work, and the County's intent is to continue the OA contract through all phases of the project.

If the project manager is interim until your organization has employed staff or hired a consultant as the project manager indicate whether sufficient funds are available for this purpose and how long it is anticipated the interim project manager will serve.

Not Applicable

A brief summary of the construction experience of your organization's project management team that is relevant to the project.

KCWTD is responsible for planning and delivering more than one and one-half billion dollars of capital projects. Those projects include construction, repair, or rehabilitation of conveyance systems similar to the M Street Trunk project.

Meredith Redmon has significant project management and construction oversight experience with KCWTD, including for conveyance projects, and is backed by the experience, depth, and senior leadership of KCWTD's Capital Projects Group. Meredith will report to KCWTD's Definition and Delivery Board, which is responsible for oversight of capital projects. In addition, Bob Isaac manages KCWTD's lining program and has provided technical support on inspection, maintenance, and pipeline rehabilitation for KCWTD for over 35 years. KCWTD and this project team are focusing on alternative project delivery to allow for an integrated team to continue our long history of successfully completing large and complex construction projects.

KCWTD's Owner Advisor team will bring extensive experience overseeing DB procurement, contracting, design implementation, pricing negotiations, and construction. The OA team will provide full construction management support, including staff from KBA, Tanner Pacific, and Brown and Caldwell with extensive background in the PDB delivery method to support KCWTD in the delivery of the M Street Trunk project.

Please see individual biographies for more details.

A description of the controls your organization will have in place to ensure that the project is adequately managed.

KCWTD and BC will be implementing project control procedures that address all aspects of the project from predesign through closeout. These procedures build on standard capital projects management procedures used by KCWTD and are being tailored to PDB delivery. Detailed project control procedures address design development and reviews, scheduling, cost control and quality assurance, and closeout. A project-specific risk register has been developed to identify and mitigate risks. The risk register will be periodically updated throughout the Project and will be used to help manage contingencies.

During procurement of the design-builder, procedures will be implemented by King County procurement with support from the OA and project team to ensure that the procurement process, criteria, and project requirements comply with RCW 39.10.

The County and Design-Builder will implement design reviews, design logs and trend logs throughout the course of design development to ensure that the project goals, criteria, and requirements are met by the design packages. KCWTD will be the primary party responsible for engineering reviews related to design development by the design-builder, and stakeholder integration related to engineering development by the design-builder. KCWTD, with the assistance of the OA team, will lead the team in construction price negotiations with the design-builder in a transparent and open book manner.

In construction, field quality assurance will be a combined team effort, with KCWTD and OA oversight of work. Quality control and implementation of quality processes will be the responsibility of the design-builder, including the design-builder's engineer of record.

KCWTD's document and project controls best practices will be followed throughout the M Street Trunk project. At the completion of the project, BC will prepare a project close-out report, which will capture all pertinent project data and lessons learned.

A brief description of your planned DB procurement process.

King County will conduct the DB procurement process consistent with the process and criteria requirements of RCW 39.10. King County will follow the required two-part procurement process for DB, starting with issuance of a Request for Qualifications (RFQ). Once Statements of Qualifications (SOQs) are submitted, KCWTD will review and score SOQs in accordance with the criteria identified in the RFQ. Based on SOQ scoring, KCWTD will select finalists to submit proposals, which is anticipated to include up to three finalists. The selected finalists will receive a Request for Proposals (RFP), which will identify the submittal requirements for proposals, to include management and technical information, proposed pricing for preconstruction and design services, and one or more price-related factors applicable to the construction scope. During the proposal period, it is anticipated that an interactive proprietary meeting and/or interview will be held with each finalist. KC will then conduct proposal scoring according to the criteria laid out in the RFQ and RFP to identify the highest ranked firm. KC plans to provide an honorarium to the finalists that were not awarded the contract.

Verification that your organization has already developed (or provide your plan to develop) specific DB contract terms.

KC has a well-established procurement office and staff that is supported by the KC Prosecuting Attorney (PAO), Jerry Taylor. Jerry Taylor and Trisha Roth are leading the development of new PDB templates, utilizing DBIA contract templates as a starting point for this procurement. The Interim Base Electrification and Harbor Maleng Single Patient Rooms PDB projects approved by the PRC in 2020 and 2021 used the UW model of PDB contracting (two agreements), which has not been ideal for KC. Over the past three months, a boilerplate PDB agreement and terms and conditions have been tailored to King County tolerances for future PDB projects.

KCWTD's OA will also lend expertise and support to this effort by identifying lessons learned and sharing best practices and discussing questions posed by PAO and procurement staff. We currently have draft final templates for RFQ, RFP, Agreement and Terms and Conditions documents tailored for PDB in place and ready for project-specific refinement.

7. Public Body (your organization) Construction History:

Provide a matrix summary of your organization's construction activity for the past six years outlining project data in content and format per the attached sample provided: *(See Attachment E. The applicant shall use the abbreviations as identified in the example in the attachment.)*

- Project Number, Name, and Description
- Contracting method used
- Planned start and finish dates
- Actual start and finish dates
- Planned and actual budget amounts
- Reasons for budget or schedule overruns

Refer to Attachment C, Construction History, which includes projects delivered by KCWTD and by other King County departments that have used collaborative delivery methods.

8. Preliminary Concepts, sketches or plans depicting the project

To assist the PRC with understanding your proposed project, please provide a combination of up to six concepts, drawings, sketches, diagrams, or plan/section documents which best depict your project. In electronic submissions these documents must be provided in a PDF or JPEG format for easy distribution. Some examples are included in attachments E1 thru E6. At a minimum, please try to include the following:

- A overview site plan *(indicating existing structure and new structures)*
- Plan or section views which show existing vs. renovation plans particularly for areas that will remain occupied during construction.

Note: applicant may utilize photos to further depict project issues during their presentation to the PRC

Attachment D includes a site map showing the alignment of planned rehabilitation work, and locations of key project challenges and constraints. No plan or section views have been developed to-date for rehabilitation improvements; photos to illustrate project issues will be included in the PRC presentation materials.

9. Resolution of Audit Findings On Previous Public Works Projects

If your organization had audit findings on any project identified in your response to Question 7, please specify the project, briefly state those findings, and describe how your organization resolved them.

KCWTD has received no audit findings on any of the public works projects listed in response to Question 7.

10. Subcontractor Outreach

Please describe your subcontractor outreach and how the public body will encourage small, women and minority-owned business participation.

King County is a national leader in strategic planning that promotes Equity and Social Justice innovations. A common area of interest is how to influence the spending of government dollars to enhance equity outcomes for small businesses.

King County will establish voluntary goals with mandatory Good Faith Efforts (GFE) requirements for the participation of Minority Business Enterprises (MBE) and Women Business Enterprises (WBE) certified by the Washington State Office of Minority and Women Business Enterprises. The voluntary goals will be expressed as a percentage of the total contract value for performance by certified MBE and WBE firms. King County will require submission of an Equity and Social Justice Innovation Plan (the "Plan"). The Plan formalizes the proposer's approach and the specific actions to maximize work and growth opportunities for

certified MBE and WBE firms on the project. The Plan provides a detailed narrative of how the proposer will implement outreach and engagement strategies, identify sub consultant and subcontractor work opportunities, remove barriers to small and diverse business participation, and provide information on mentoring opportunities, and tools and resources for use in providing technical assistance to certified MBE and WBE firms. The Plan content shall address how the proposer will monitor and measure its efforts to ensure achievement of the Plan objectives. King County will instruct the proposer to separately address inclusion strategies for design tasks, construction subcontracting, and equipment and supply purchases from state certified MBE and WBE firms. Upon contract execution, implementation of the plan shall be mandatory.

Consistent with the provisions of RCW 39.10.330 (8), KCWTD's contract with the awarded firm will require the firm to track and report to the KCWTD and to the Office of Minority and Women's Business Enterprises (OMWBE) its utilization of OMWBE certified businesses. During contract performance, the awarded firm will be required to submit monthly reports to the project team detailing the ESJ Innovation Plan activities taken over the past month, as well as those activities planned for the coming month. Additionally, the awarded firm will be required to report all subcontract awards, and all subcontractor/subconsultant/supplier payments on a monthly basis into the KCWTD's Diversity Compliance Management System (DCMS). If at any point the awarded firm falls short of the MBE and WBE utilization goals established for the contract, the County may require submittal of a corrective action plan.

CAUTION TO APPLICANTS

The definition of the project is at the applicant's discretion. The entire project, including all components, must meet the criteria of RCW 39.10.300 to be approved.

SIGNATURE OF AUTHORIZED REPRESENTATIVE

In submitting this application, you, as the authorized representative of your organization, understand that: (1) the PRC may request additional information about your organization, its construction history, and the proposed project; and (2) your organization is required to submit information requested by the PRC. You agree to submit this information in a timely manner and understand that failure to do so may delay action on your application.

The PRC strongly encourages all project team members to read the Design-Build Best Practices Guidelines as developed by CPARB and attend any relevant applicable training. If the PRC approves your request to use the DB contracting procedure, you also agree to provide additional information if requested.

The 2021 Legislature updated [RCW 39.10.330\(8\)](#) stating that Design-Build contracts must require the awarded firm to track and report to the public body and to the office of minority and women's business enterprises (OMWBE) its utilization of the OMWBE certified businesses and veteran certified businesses. By submitting this application, you agree to include these reporting requirements in project contracts.

I have carefully reviewed the information provided and attest that this is a complete, correct and true application.

Signature: Meredith Redmon

Name: (please print) Meredith Redmon (public body personnel)

Title: Capital Project Manager

Date: December 19, 2022

ATTACHMENT A PROJECT SCHEDULE

ID	WBS	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Qtr 4, 2022	Qtr 1, 2023	Qtr 2, 2023	Qtr 3, 2023	Qtr 4, 2023	Qtr 1, 2024	Qtr 2, 2024	Qtr 3, 2024	Qtr 4, 2024	Qtr 1, 2025	Qtr 2, 2025	Qtr 3, 2025	Qtr 4, 2025	Qtr 1, 2026	Qtr 2, 2026																															
								Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec							
1		➔	OA Contract Execution	0 days	Mon 11/7/22	Mon 11/7/22		◆																																													
2	1000	➔	Project Management and Coordination	225 days	Mon 11/7/22	Fri 9/15/23																																															
47	1100	➔	Project Review Committee Services	62 days	Tue 11/8/22	Wed 2/1/23																																															
48	1100.1	➔	Project Review Committee Approval	62 days	Tue 11/8/22	Wed 2/1/23																																															
54	1200	➔	Procurement Services	226 days	Mon 11/7/22	Mon 9/18/23																																															
55		➔	Procurement Planning and Contract Review	81 days	Mon 11/7/22	Mon 2/27/23																																															
59	1200.4	➔	RFQ Development	85 days	Mon 11/28/22	Fri 3/24/23																																															
62	1200.5	➔	SOQ Review and Shortlisting	45 days	Mon 3/27/23	Fri 5/26/23																																															
68	1200.6	➔	RFP Development	135 days	Tue 11/29/22	Mon 6/5/23																																															
71	1200.7	➔	RFP Technical Attachments	120 days	Mon 11/28/22	Fri 5/12/23	1FS+15 days																																														
72	1200.8	➔	Proposal Review and Selection Decision	45 days	Tue 6/6/23	Mon 8/7/23																																															
78	1200.9	➔	PDB Negotiations Support	30 days	Tue 8/8/23	Mon 9/18/23	77																																														
79	1200.10	➔	Cost Estimating Support	181 days	Mon 11/14/22	Mon 7/24/23																																															
82	1200.11	➔	Permit Support	220 days	Mon 11/14/22	Fri 9/15/23																																															
85	1200.12	➔	Public Outreach Support	220 days	Mon 11/14/22	Fri 9/15/23																																															
88	1200.13	➔	Property Support	220 days	Mon 11/14/22	Fri 9/15/23																																															
91		➔	DB NTP	0 days	Mon 9/18/23	Mon 9/18/23	78																																														
92		➔	Preconstruction Phase	210 days	Tue 9/19/23	Mon 7/8/24																																															
93		➔	Preconstruction Services	210 days	Tue 9/19/23	Mon 7/8/24	91																																														
94		➔	GMP Agreement	0 days	Mon 7/8/24	Mon 7/8/24	93																																														
95		➔	Construction Phase	445 days	Tue 7/9/24	Mon 3/23/26																																															
96		➔	Final Design	90 days	Tue 7/9/24	Mon 11/11/24																																															
97		➔	Construction	385 days	Tue 7/9/24	Mon 12/29/24																																															
98		➔	Substantial Completion	0 days	Mon 12/29/24	Mon 12/29/24																																															
99		➔	Final Completion	0 days	Mon 3/23/26	Mon 3/23/26	97FS+60 days																																														

Project: M Street Draft Project S
Date: Mon 12/12/22

Task		Project Summary		Manual Task		Start-only		External Tasks		Critical Split		Manual Progress		Allowable dry weather in-pipe work window June 1 - Sept 30
Split		Inactive Task		Duration-only		Finish-only		External Milestone		Progress				Anticipated allowable work near schools
Milestone		Inactive Milestone		Manual Summary Rollup		External Milestone		Deadline		Critical				
Summary		Inactive Summary		Manual Summary		External Milestone		Deadline		Critical				

**ATTACHMENT B
PROJECT EXPERIENCE AND ROLE**

KING COUNTY PROJECT EXPERIENCE						Role during Project Phases		
No	Name	Summary of Experience	Project Names	Project Size	Project Type	Planning	Design	Construct.
1.	Meredith Redmon	Program Manager, King County WTD. Meredith has twenty years of professional experience in public service and private consulting. She independently manages planning, design, implementation, and close-out of multiple capital projects including large scale facility construction projects, distributed control system upgrades, asset management projects, and Local Public Agency coordination projects.	North Mercer Island Interceptor and Enatai Interceptor Upgrade Project	\$180M	DBB	NA	Project Manager	Project Manager
			LOOP Maintenance Vehicle Facility	\$15M	DBB	NA	Project Manager	Project Manager
			Sunset Heathfield Forcemain and Pump Station Upgrade Project	\$91M	DBB	NA	NA	Project Manager
2.	Bob Isaac	H2S Lining Program Manager for King County WTD.	Brightwater Marine Outfall	\$30M	D-B	RFQ/RFP Review	Technical Advisor	Technical Advisor
3.	Arthur Leavitt	Project Engineer, King County WTD. Moe has 19 years of experience in engineering design and construction management. He is experienced leading teams on a wide variety of multidisciplinary engineering projects including heavy civil, municipal infrastructure, and commercial development.	Murray Force Main Rehabilitation	\$6.7	D-B	Design Engineer	Design Engineer	Design Engineer
			M Street Trunk Repair	\$1.01M	DBB	Design Engineer	Design Engineer	Design Engineer
			North Beach Pump Station Pipe Repair	\$5M	DBB	Design Engineer	Design Engineer	Design Engineer
4.	Gary Casad	Project Representative, King County WTD. Gary has 30 years of construction experience within the public sector with expansive experience in contract management along with construction means and methods.	Eastgate Interceptor Rehabilitation Phase III	\$4.3M	DBB	N/A	Contract Review	Project Representative
5.	Trisha Roth	Construction Team Lead, Primary Contract Specialist, Procurement and Payables (P&P). Trisha has direct DB procurement experience working as the Contract Specialist on the KCM Pier 50 Float Replacement, approved by the PRC in 2017 and the Interim Base Electrification (IBE) project approved by the PRC in 2020. Trisha also worked as backup CS for the Harbor Maleng Single Patient Rooms project, and managed execution of the GMP change order after the primary CS departed KC.	Pier 50 Float	\$8M	D-B	Contract Specialist (CS)	CS	CS
			Interim Base Electrification (IBE)	\$60M	D-B	CS	CS	CS
			Harbor Maleng Single Patient Rooms	\$75M	D-B	Backup CS	CS	Backup CS
			Job Order Contract (2020)	\$18M	JOC	CS	CS support	CS support
			North Mercer Island Interceptor and Enatai Interceptor Upgrade Project	\$180M	DBB	CS	CS support	CS support
			LOOP Maintenance Vehicle Facility	\$15M	DBB	CS	CS support	CS support
			Sound Transit, Lynnwood Link South	\$425M	Heavy Civil GC/CM	N/A	CS	CS
			Sound Transit, Roosevelt Station	\$154M	GC/CM	N/A	N/A	CS
Sound Transit, U District Station	\$168M	GC/CM	N/A	N/A	CS			

KING COUNTY PROJECT EXPERIENCE						Role during Project Phases		
No	Name	Summary of Experience	Project Names	Project Size	Project Type	Planning	Design	Construct.
			Sound Transit, Job Order Contracting (JOC)	\$12M	JOC	CS	CS	CS
			Sound Transit, Puyallup Station Access Improvements	\$38M	D-B (Traditional)	CS	CS	CS
6.	Diane Navarro	WTD Procurement Support Specialist. Diane has over 10 years in public and private procurement and is certified as a Assoc. DBIA professional.	Seattle Public Schools, Rainier Beach HS	\$238M	GC/CM	Procurement Manager/Lead		
			Seattle Public Schools, Lincoln HS	\$101M	GC/CM	Procurement Manager/Lead	Procurement Manager/Lead	Procurement Manager/Lead
			Seattle Public Schools, Loyal Heights Elementary	\$37M	GC/CM	Procurement Manager/Lead	Procurement Manager/Lead	Procurement Manager/Lead
			Seattle Public Schools, Olympic Hills Elementary	\$42M	GC/CM	Procurement Manager/Lead	Procurement Manager/Lead	Procurement Manager/Lead
			Seattle Public Schools, Cascadia Elementary and Robert Eagle staff Middle School	\$112M	GC/CM	Procurement Manager/Lead	Procurement Manager/Lead	Procurement Manager/Lead

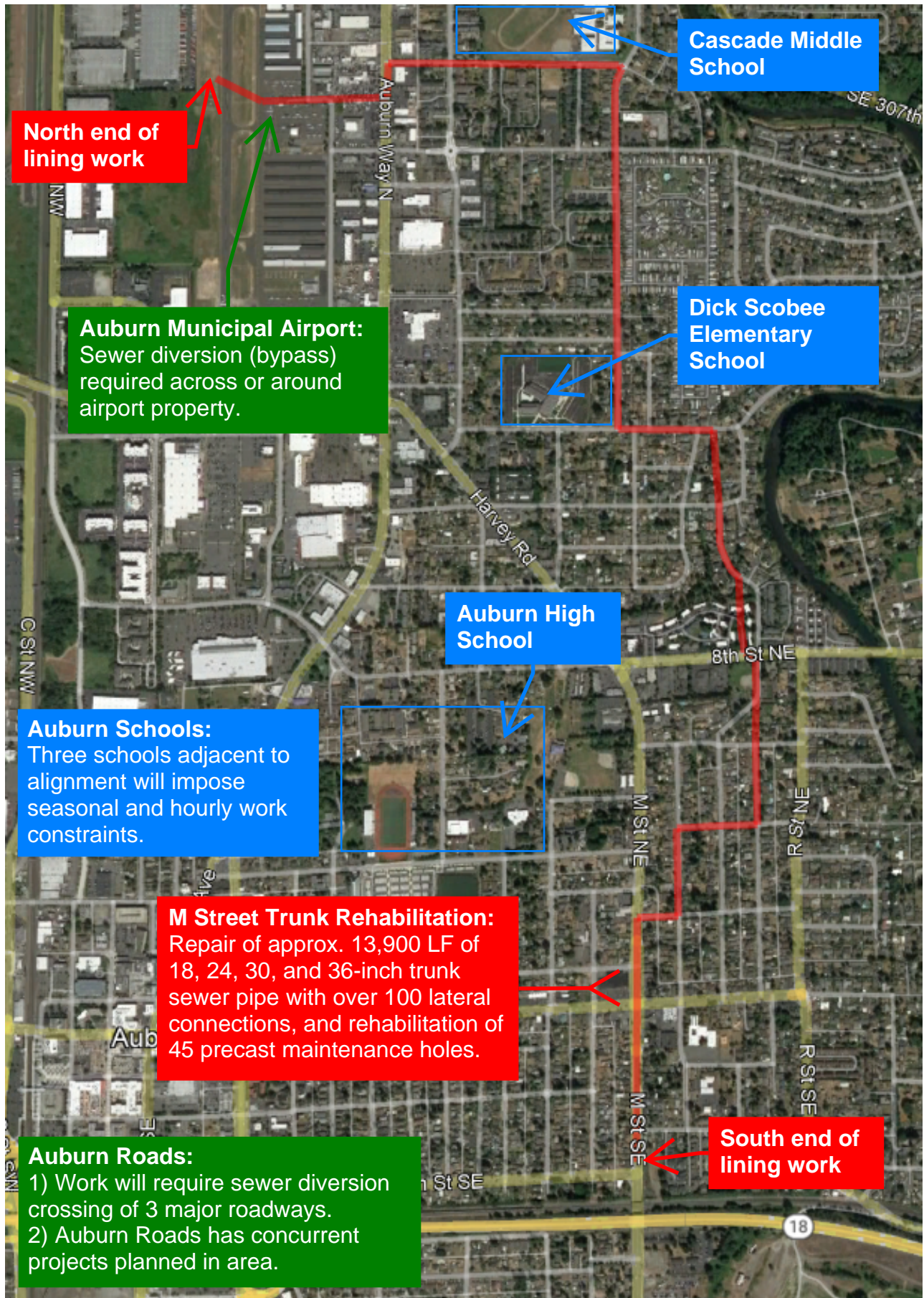
OWNERS ADVISOR PROJECT EXPERIENCE						Role during Project Phases		
No.	Name	Summary of Experience	Project Names	Project Size	Project Type	Planning	Design	Construct.
1.	Pat Tangora (Brown and Caldwell)	Pat has more than 30 years of experience serving as an owner advisor, helping owners effectively deliver multi-disciplinary public works projects using a range of collaborative delivery methods, including PDB, FPDB, design-build-operate (DBO), and General Contractor/Construction Manager (GC/CM).	Tacoma Jefferson and Hood Street Surface Water Interceptor PDB	\$30M	PDB	Consultant PM	Owner Advisor	Owner Advisor
			Water Treatment Plant PDB, City of Lewiston, Idaho	\$28.5	PDB	Owner Advisor	Owner Advisor	Owner Advisor
			Biosolids Dewatering PDB, City of San José, California	\$122M	PDB	Owner Advisor	Owner Advisor	Owner Advisor
			Everett Reservoir 6 Roof Replacement	\$4.8M	FPDB	Owner Advisor	Owner Advisor	Owner Advisor
			Groundwater Treatment Plants, City of Anaheim, CA	\$130M	FPDB	Owner Advisor	Owner Advisor	Owner Advisor
			Tacoma Central Treatment Plant Expansion	\$70M	DB	Consultant PM / Owner Advisor	Consultant PM / Owner Advisor	Consultant PM / Owner Advisor
			Santa Fe Buckman Direct Diversion	\$190M	DB	N/A	DB's Commercial Manager	DB's Commercial Manager
			Silicon Valley Clean Water - Front of Plant: Stage 1 & 2	\$100M	PDB	Owner Advisor	N/A	N/A
			Seattle Public Utilities Cedar Water Treatment Plant	\$78M	DBO	Consultant PM / Owner Advisor	Consultant PM / Owner Advisor	Consultant PM / Owner Advisor

OWNERS ADVISOR PROJECT EXPERIENCE						Role during Project Phases		
No.	Name	Summary of Experience	Project Names	Project Size	Project Type	Planning	Design	Construct.
			Seattle Public Utilities Tolt Water Treatment Plant	\$70M	DBO	Owner Advisor	Owner Advisor	Owner Advisor
			Brightwater Treatment Plant	\$1.8B	GC/CM, DB, DBB	N/A	Oversight Consultant for KC Council	Oversight Consultant for KC Council
2.	Patrick Weber (Brown and Caldwell)	Patrick has 10 years of experience providing OA services for procurement, design oversight, and construction oversight of alternative delivery projects around the country, focused primarily on progressive design-build (PDB).	Tacoma Jefferson and Hood Street Surface Water Interceptor PDB	\$30M	PDB	Owner Advisor	Consultant PM	Consultant PM
			Everett Reservoir 6 Roof Replacement	\$4.8M	FPDB	Procurement Support	Support	Support
			Middletown Lakeside Redirect Conveyance Improvements	\$13M	PDB	Owner Advisor	Owner Advisor	Owner Advisor
			Middletown CSO Storage Basin Project	\$45M	PDB	Owner Advisor	Owner Advisor	Pending
			MSDGC Mill Creek WWTP Diversion Chamber	\$37M	PDB	Owner Advisor	Owner Advisor	Owner Advisor
			MSDGC Little Miami WWTP Solids and Odor Improvements	\$145M	PDB	Owner Advisor	Pending	Pending
			Soquel Creek Water District Pure Water Soquel Program	\$100M	PDB, OMAR	Owner Advisor	N/A	N/A
			Valley Water Coyote Pumping Plant Electrical Upgrades	\$18M	PDB	Owner Advisor	N/A	N/A
3	Adam Wirthlin (Tanner Pacific)	Adam has 20 years of experience in construction and cost estimating, including providing independent cost estimates and related negotiations support for design-build projects.	Silicon Valley Clean Water - Front of Plant: Stage 1 & 2	\$100M	PDB	Owner Advisor	Owner Advisor	Owner Advisor
			Soquel Creek Water District - Pure Water Soquel Pipeline	\$35M	PDB	Owner Advisor	Owner Advisor	Owner Advisor
			Silicon Valley Clean Water - Gravity Pipeline: Stage 1 & 2	\$220M	PDB	Owner Advisor	Owner Advisor	Owner Advisor
			Silicon Valley Clean Water - Pump Station Improvements: Stage 1 & 2	\$90M	PDB	Owner Advisor	Owner Advisor	Owner Advisor
			Sound Transit - Northgate Extension N140/150 Contract	\$300M	GC/CM	Owner Advisor	Owner Advisor	Owner Advisor
			Sound Transit - Federal Way Link Extension	\$1.2B	D-B	Owner Advisor	Owner Advisor	N/A

**ATTACHMENT C
CONSTRUCTION HISTORY**

King County - Construction History (10 years)										
Project No.	Project Name	Project Description (1-2 sentence description)	Contracting Method	Planned Start (MM/YY)	Planned Finish (MM/YY)	Actual Start (MM/YY)	Actual Finish (MM/YY)	Planned Budget (\$X.XM)	Actual Budget (\$X.XM)	Reason for Budget or schedule overrun
1.	Pier 50 Float Replacement	Design, construct and deliver a "turn-key" ready for use concrete float (approx. 117'x30') for the King County Water Taxi at the new WSF Colman Dock.	D-B	02/2018	09/2018	03/2018	05/2019	\$7.2M	\$8M	Float delivery to Colman Dock delayed due to WSF construction delay. Budget changes due to moorage costs, float installation costs and steel guide pile hoop design change.
2.	Judge Patricia Clark Children and Family Justice Center – Phase A	New Facility to replace the Youth Services Center (YSC)	D-B	03/2015	04/2020	03/2015	TBD	\$154M	\$188M	The schedule for the Children and Family Justice Center was extended primarily due to permitting delays resulting from legal challenges. Budget increases were driven by owner-requested changes, unforeseen conditions (soils), permitting delays, and changes in law. While the project has been substantially complete (Phase 1a-Courthouse & Detention) since late 2019 and (Phase 1b – Garage & Alder School) since July of 2021, there are a few small issues being worked on to get the contract to close out.
3.	Interim Base Electrification (IBE)	Infrastructure for charging of electric buses (diesel to electric)	D-B	08/2021	02/2025	12/2021	Current	\$60M	\$94M In progress	Escalation due to pandemic and long lead to acquiring equipment
4.	Atlantic Base Refurbishment	Replace all concrete paving and underground infrastructure (including storm drainage, sanitary sewer, industrial waste disposal system, buried power lines, natural gas supply system, domestic and fire water mains, and storage tanks) in the bus storage yard at King County Metro's Atlantic Base in Seattle.	GC/CM	12/2021	11/2025	12/2021	Current	\$32M	In progress	
5.	Harborview Maleng Building Single Patient Rooms Project	Convert two outpatient clinic floors in Maleng building into single patient rooms and renovate two floors in Ninth and Jefferson Building (NJB) into outpatient clinics.	D-B	11/2021	06/2025	11/2021	Current	\$75M	\$78M In progress	Harborview requested additional scope and will be providing additional budget (\$3M) for this project.
6.	Eastside Interceptor Lining (Section 2)	The scope of this project included design and implementation of the rehabilitation of approximately 3,900 linear feet of the Eastside Interceptor Section 2 (ESI 2), located in Renton.	D-B-B	3/2019	3/2020	3/2019	9/2020	28,302,545	22,593,336	NA
7.	Kent-Auburn Conveyance System Improvements (Phase B)	The scope of this project included the design and construction of the Pacific Pump Station Discharge and Auburn West Interceptor Parallel pipelines. The pipelines totaled about 3 miles in length and include regions of both force main and gravity sewer, ranging in diameter from 16 inches to 48 inches.	D-B-B	1/2017	12/2019	2/2017	1/2020	27,388,464	22,850,503	NA
8.	M Street Trunk Repair	The scope of this project included excavation, pipe demolition and repair, installation of maintenance	D-B-B	4/2020	8/2020	4/2020	6/2020	613,301	646,100	The engineer's estimate was lower than the final bid for the project.

King County - Construction History (10 years)										
Project No.	Project Name	Project Description (1-2 sentence description)	Contracting Method	Planned Start (MM/YY)	Planned Finish (MM/YY)	Actual Start (MM/YY)	Actual Finish (MM/YY)	Planned Budget (\$X.XM)	Actual Budget (\$X.XM)	Reason for Budget or schedule overrun
		holes, and associated traffic control for refurbishment of the M Street Trunk.								
9.	Magnolia Wet Weather Storage Facility	The scope of this project included design and construction of an approximately 1.5-million-gallon CSO storage tank in the vicinity of Terminal 91 in Seattle, and a conveyance pipeline to connect the existing interceptor in 32nd Avenue West to the storage tank. The scope included odor control and mechanical, electrical, and control systems to enable the system to function when required.	D-B-B	12/2013	12/2015	12/2013	9/2017	25,294,357	45,574,941	Legal issues. Installation of pipeline using HDD
10.	Murray Wet Weather Storage Facility	The scope of this project included the design and construction of a one-million-gallon Combined Sewer Overflow (CSO) control underground storage facility adjacent to the Murray Pump Station and the acquisition of six contiguous private properties across the street from the existing Murray Pump Station on Beach Drive Southwest in Seattle. The scope also included design and construction of above- and below-grade structures on the storage tank site that housed odor control and a standby power generator. The project included site development consistent with the location near a public park.	D-B-B	9/2013	2/2017	10/2013	9/2017	22,928,871	25,397,116	Additional construction contract required that was not accounted for at Gate 3 and the low responsive bid was higher than the engineer's estimate.
11.	North Creek Interceptor	This project increased the capacity of part of the North Creek Interceptor Sewer serving southwestern Snohomish County. The project involved replacement of 10,000 LF of existing gravity pipe with larger gravity pipes, 36 to 48 inches in diameter. Both trenchless (open face shield tunneling and pipe ramming) and open trench construction methods were used.	D-B-B	3/2014	6/2017	2015	2021	39,543,726	63,040,220	The original construction contract was terminated with the initial contractor for inability to complete the work. A project-specific work order was issued under the January 19, 2017, Executive determination of emergency to complete the project. The change in budget and schedule represents increases in both cost and time for construction, consultant, construction management, permitting/easement and staff costs needed to complete the project due to this issue.
12.	Rainier Valley Wet Weather Storage	This scope of this project included the design and construction of a 0.34-million-gallon, off-line storage tank and install conveyance that will divert flows during storm events from the Hanford trunk to the Bayview tunnel.	D-B-B	10/2015	1/2018	5/2016	5/2019	19,975,980	19,595,525	Advertisement was delayed due to the Worthington property acquisition (use and possession was granted in August 2015) and Facility Plan approval from the Department of Ecology.



Attachment D. Overview Site Map

Attachment E

Section 6 Project Organization Chart

King County M Street Trunk Rehabilitation Project

King County
 Owner Advisor Team
 Design-Builder

WTD Definition and Delivery Board
 PDB Procurement - As needed
 PDB Oversight (Design) - As needed
 PDB Oversight (Construction) - As needed

Meredith Redmon
 King County PM
 PDB Procurement - 50%
 PDB Oversight (Design) - 50%
 PDB Oversight (Construction) - 50%

Alternative Delivery Committee
 PDB Procurement - As needed
 PDB Oversight (Design) - As needed
 PDB Oversight (Const.) - As needed

Acronyms
BC Brown and Caldwell
CM Construction Management
DBIA Design-Build Institute of America
OA Owner Advisor
PDB Progressive Design-Build
PM Project Manager
PMP Project Management Professional
SME Subject matter expert
TP Tanner Pacific
WTD Wastewater Treatment Division

Progressive Design-Builder (TBD)

Trisha Roth, Assoc. DBIA
 PDB Procurement
 PDB Procurement - 50%
 PDB Oversight (Design) - N/A
 PDB Oversight (Construction) - N/A

Arthur Moe Leavitt, PE
 Project Engineer
 PDB Procurement - 10%
 PDB Oversight (Design) - 25%
 PDB Oversight (Construction) - 15%

Bob Isaac
 Lining Program Manager
 PDB Procurement - 10%
 PDB Oversight (Design) - 5%
 PDB Oversight (Construction) - 5%

Gary Casad
 CM Project Representative
 PDB Procurement - 5%
 PDB Oversight (Design) - 10%
 PDB Oversight (Construction) - 100%

Diane Navarro, Assoc. DBIA
 Contract Administration
 PDB Procurement - 5%
 PDB Oversight (Design) - 10%
 PDB Oversight (Construction) - 20%

Pat Tangora, PE
 OA SME (BC)
 PDB Procurement - 20%
 PDB Oversight (Design) - 10%
 PDB Oversight (Construction) - 10%

Patrick Weber, P.E., DBIA, PMP
 OA PM (BC)
 PDB Procurement - 35%
 PDB Oversight (Design) - 20%
 PDB Oversight (Construction) - 15%

Adam Wirthlin, PE
 OA Lead Estimator (TP)
 PDB Procurement - 5%
 PDB Oversight (Design) - 10%
 PDB Oversight (Construction) - 5%

Specialty Subconsultants
 CM: KBA
 Risk: Aquanti
 Permitting: ESA
 Public Outreach: EnviroIssues
 OA/Cost: Tanner Pacific
 Scheduling/Constructability: Ott-Sakai
 Easements: Contract Land Staffing

Support Functions
 Legal
 Procurement