PROFESSIONAL SERVICES CONTRACT BETWEEN
THE CITY OF HUNTINGTON BEACH AND
BOWMAN CONSULTING GROUP LTD
FOR
ON-CALL CIVIL ENGINEERING
& PROFESSIONAL CONSULTING SERVICES

THIS AGREEMENT ("Agreement") is made and entered into by and between the City of Huntington Beach, a municipal corporation of the State of California, hereinafter referred to as "CITY," and BOWMAN CONSULTING GROUP LTD, a Delaware Corporation hereinafter referred to as "CONSULTANT."

WHEREAS, CITY desires to engage the services of a consultant to provide On-Call Civil Engineering & Professional Consulting Services; and

Pursuant to documentation on file in the office of the City Clerk, the provisions of the Huntington Beach Municipal Code, Chapter 3.03, relating to procurement of professional service contracts have been complied with; and

CONSULTANT has been selected to perform these services,

NOW, THEREFORE, it is agreed by CITY and CONSULTANT as follows:

1. SCOPE OF SERVICES

CONSULTANT shall provide all services as described in **Exhibit "A,"** which is attached hereto and incorporated into this Agreement by this reference. These services shall sometimes hereinafter be referred to as the "PROJECT."

CONSULTANT hereby designates Farzad Dorrani who shall represent it and be its sole contact and agent in all consultations with CITY during the performance of this Agreement.

2. CITY STAFF ASSISTANCE

CITY shall assign a staff coordinator to work directly with CONSULTANT in the performance of this Agreement.

3. TERM; TIME OF PERFORMANCE

Time is of the essence of this Agreement. The services of CONSULTANT are to commence on _____, 20____ (the "Commencement Date"). This Agreement shall automatically terminate three (3) years from the Commencement Date, unless extended or sooner terminated as provided herein. All tasks specified in **Exhibit "A"** shall be completed no later than three (3) years from the Commencement Date. The time for performance of the tasks identified in **Exhibit "A"** are generally to be shown in **Exhibit "A."** This schedule may be amended to benefit the PROJECT if mutually agreed to in writing by CITY and CONSULTANT.

In the event the Commencement Date precedes the Effective Date, CONSULTANT shall be bound by all terms and conditions as provided herein.

4. COMPENSATION

In consideration of the performance of the services described herein, CITY agrees to pay CONSULTANT on a time and materials basis at the rates specified in **Exhibit "B,"** which is attached hereto and incorporated by reference into this Agreement, a fee, including all costs and expenses, not to exceed Two Million Dollars ($2,000,000.00).

5. EXTRA WORK

In the event CITY requires additional services not included in **Exhibit "A"** or changes in the scope of services described in **Exhibit "A,"** CONSULTANT will undertake such work only after receiving written authorization from CITY. Additional compensation for such extra work shall be allowed only if the prior written approval of CITY is obtained.

6. METHOD OF PAYMENT

CONSULTANT shall be paid pursuant to the terms of **Exhibit "B."**

7. DISPOSITION OF PLANS, ESTIMATES AND OTHER DOCUMENTS

CONSULTANT agrees that title to all materials prepared hereunder, including, without limitation, all original drawings, designs, reports, both field and office notices, calculations, computer code, language, data or programs, maps, memoranda, letters and other documents, shall belong to CITY, and CONSULTANT shall turn these materials over to CITY upon expiration or termination of this Agreement or upon PROJECT completion, whichever shall occur first. These materials may be used by CITY as it sees fit.

8. HOLD HARMLESS

A. CONSULTANT hereby agrees to protect, defend, indemnify and hold harmless CITY, its officers, elected or appointed officials, employees, agents and volunteers from and against any and all claims, damages, losses, expenses, judgments, demands and defense costs (including, without limitation, costs and fees of litigation of every nature or liability of any kind or nature) arising out of or in connection with CONSULTANT's (or CONSULTANT's subcontractors, if any) negligent (or alleged negligent) performance of this Agreement or its failure to comply with any of its obligations contained in this Agreement by CONSULTANT, its officers, agents or employees except such loss or damage which was caused by the sole negligence or willful misconduct of CITY. CONSULTANT will conduct all defense at its sole cost and expense and CITY shall approve selection of CONSULTANT's counsel. This indemnity shall apply to all claims and liability regardless of whether any insurance policies are applicable. The policy limits do not act as limitation upon the amount of indemnification to be provided by CONSULTANT.

B. To the extent that CONSULTANT performs "Design Professional Services" within the meaning of Civil Code Section 2782.8, then the following Hold Harmless provision applies in place of subsection A above:

"CONSULTANT hereby agrees to protect, defend, indemnify and hold harmless CITY and its officers, elected or appointed officials, employees, agents and volunteers, from and against any and all claims, damages, losses, expenses, demands and defense costs (including, without limitation, costs and fees of litigation of every nature or liability of any kind or nature) to the extent that the claims against CONSULTANT arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of CONSULTANT. In no event shall the cost to defend charged to CONSULTANT exceed CONSULTANT's proportionate percentage of fault. However, notwithstanding the previous sentence, in the event one or more other defendants to the claims and/or litigation is unable to pay its share of defense costs due to bankruptcy or dissolution of the business, CONSULTANT shall meet and confer with CITY and other defendants regarding unpaid defense costs. The duty to indemnify, including the duty and the cost to defend, is limited as provided in California Civil Code Section 2782.8.

C. Regardless of whether subparagraph A or B applies, CITY shall be reimbursed by CONSULTANT for all costs and attorney's fees incurred by CITY in enforcing this obligation. This indemnity shall apply to all claims and liability regardless of whether any insurance policies are applicable. The policy limits do not act as a limitation upon the amount of indemnification to be provided by CONSULTANT.

9. PROFESSIONAL LIABILITY INSURANCE

CONSULTANT shall obtain and furnish to CITY a professional liability insurance policy covering the work performed by it hereunder. This policy shall provide coverage for CONSULTANT's professional liability in an amount not less than One Million Dollars ($1,000,000.00) per occurrence and in the aggregate. The above-mentioned insurance shall not contain a self-insured retention without the express written consent of CITY; however an insurance

policy "deductible" of Ten Thousand Dollars ($10,000.00) or less is permitted. A claims-made policy shall be acceptable if the policy further provides that:

A. The policy retroactive date coincides with or precedes the initiation of the scope of work (including subsequent policies purchased as renewals or replacements).

B. CONSULTANT shall notify CITY of circumstances or incidents that might give rise to future claims.

CONSULTANT will make every effort to maintain similar insurance during the required extended period of coverage following PROJECT completion. If insurance is terminated for any reason, CONSULTANT agrees to purchase an extended reporting provision of at least two (2) years to report claims arising from work performed in connection with this Agreement.

If CONSULTANT fails or refuses to produce or maintain the insurance required by this section or fails or refuses to furnish the CITY with required proof that insurance has been procured and is in force and paid for, the CITY shall have the right, at the CITY's election, to forthwith terminate this Agreement. Such termination shall not effect Consultant's right to be paid for its time and materials expended prior to notification of termination. CONSULTANT waives the right to receive compensation and agrees to indemnify the CITY for any work performed prior to approval of insurance by the CITY.

10. CERTIFICATE OF INSURANCE

Prior to commencing performance of the work hereunder, CONSULTANT shall furnish to CITY a certificate of insurance subject to approval of the City Attorney evidencing the foregoing insurance coverage as required by this Agreement; the certificate shall:

A. provide the name and policy number of each carrier and policy;

B. state that the policy is currently in force; and

C. shall promise that such policy shall not be suspended, voided or canceled by either party, reduced in coverage or in limits except after thirty (30) days' prior written notice; however, ten (10) days' prior written notice in the event of cancellation for nonpayment of premium.

CONSULTANT shall maintain the foregoing insurance coverage in force until the work under this Agreement is fully completed and accepted by CITY.

The requirement for carrying the foregoing insurance coverage shall not derogate from CONSULTANT's defense, hold harmless and indemnification obligations as set forth in this Agreement. CITY or its representative shall at all times have the right to demand the original or a copy of the policy of insurance. CONSULTANT shall pay, in a prompt and timely manner, the premiums on the insurance hereinabove required.

11. INDEPENDENT CONTRACTOR

CONSULTANT is, and shall be, acting at all times in the performance of this Agreement as an independent contractor herein and not as an employee of CITY. CONSULTANT shall secure at its own cost and expense, and be responsible for any and all payment of all taxes, social security, state disability insurance compensation, unemployment compensation and other payroll deductions for CONSULTANT and its officers, agents and employees and all business licenses, if any, in connection with the PROJECT and/or the services to be performed hereunder.

12. TERMINATION OF AGREEMENT

All work required hereunder shall be performed in a good and workmanlike manner. CITY may terminate CONSULTANT's services hereunder at any time with or without cause, and whether or not the PROJECT is fully complete. Any termination of this Agreement by CITY shall be made in writing, notice of which shall be delivered to CONSULTANT as provided herein. In the

event of termination, all finished and unfinished documents, exhibits, report, and evidence shall, at the option of CITY, become its property and shall be promptly delivered to it by CONSULTANT.

13. ASSIGNMENT AND DELEGATION

This Agreement is a personal service contract and the work hereunder shall not be assigned, delegated or subcontracted by CONSULTANT to any other person or entity without the prior express written consent of CITY. If an assignment, delegation or subcontract is approved, all approved assignees, delegates and subconsultants must satisfy the insurance requirements as set forth in Sections 9 and 10 hereinabove.

14. COPYRIGHTS/PATENTS

CITY shall own all rights to any patent or copyright on any work, item or material produced as a result of this Agreement.

15. CITY EMPLOYEES AND OFFICIALS

CONSULTANT shall employ no CITY official nor any regular CITY employee in the work performed pursuant to this Agreement. No officer or employee of CITY shall have any financial interest in this Agreement in violation of the applicable provisions of the California Government Code.

16. NOTICES

Any notices, certificates, or other communications hereunder shall be given either by personal delivery to CONSULTANT's agent (as designated in Section 1 hereinabove) or to CITY as the situation shall warrant, or by enclosing the same in a sealed envelope, postage prepaid, and depositing the same in the United States Postal Service, to the addresses specified below. CITY and CONSULTANT may designate different addresses to which subsequent notices, certificates or other communications will be sent by notifying the other party via personal delivery, a reputable overnight carrier or U. S. certified mail-return receipt requested:

TO CITY:

City of Huntington Beach
ATTN: Director of Public Works
2000 Main Street
Huntington Beach, CA 92648

TO CONSULTANT:

Bowman Consulting Group Ltd.
Attn: Farzad Dorrani
3060 Saturn Street Suite 250
Brea, CA 92821

17. CONSENT

When CITY's consent/approval is required under this Agreement, its consent/approval for one transaction or event shall not be deemed to be a consent/approval to any subsequent occurrence of the same or any other transaction or event.

18. MODIFICATION

No waiver or modification of any language in this Agreement shall be valid unless in writing and duly executed by both parties.

19. SECTION HEADINGS

The titles, captions, section, paragraph and subject headings, and descriptive phrases at the beginning of the various sections in this Agreement are merely descriptive and are included solely for convenience of reference only and are not representative of matters included or excluded from such provisions, and do not interpret, define, limit or describe, or construe the intent of the parties or affect the construction or interpretation of any provision of this Agreement.

20. INTERPRETATION OF THIS AGREEMENT

The language of all parts of this Agreement shall in all cases be construed as a whole, according to its fair meaning, and not strictly for or against any of the parties. If any provision of this Agreement is held by an arbitrator or court of competent jurisdiction to be unenforceable, void, illegal or invalid, such holding shall not invalidate or affect the remaining covenants and provisions of this Agreement. No covenant or provision shall be deemed dependent upon any other unless so expressly provided here. As used in this Agreement, the masculine or

neuter gender and singular or plural number shall be deemed to include the other whenever the context so indicates or requires. Nothing contained herein shall be construed so as to require the commission of any act contrary to law, and wherever there is any conflict between any provision contained herein and any present or future statute, law, ordinance or regulation contrary to which the parties have no right to contract, then the latter shall prevail, and the provision of this Agreement which is hereby affected shall be curtailed and limited only to the extent necessary to bring it within the requirements of the law.

21. DUPLICATE ORIGINAL

The original of this Agreement and one or more copies hereto have been prepared and signed in counterparts as duplicate originals, each of which so executed shall, irrespective of the date of its execution and delivery, be deemed an original. Each duplicate original shall be deemed an original instrument as against any party who has signed it.

22. IMMIGRATION

CONSULTANT shall be responsible for full compliance with the immigration and naturalization laws of the United States and shall, in particular, comply with the provisions of the United States Code regarding employment verification.

23. LEGAL SERVICES SUBCONTRACTING PROHIBITED

CONSULTANT and CITY agree that CITY is not liable for payment of any subcontractor work involving legal services, and that such legal services are expressly outside the scope of services contemplated hereunder. CONSULTANT understands that pursuant to *Huntington Beach City Charter* Section 309, the City Attorney is the exclusive legal counsel for CITY; and CITY shall not be liable for payment of any legal services expenses incurred by CONSULTANT.

24. ATTORNEY'S FEES

In the event suit is brought by either party to construe, interpret and/or enforce the terms and/or provisions of this Agreement or to secure the performance hereof, each party shall bear its own attorney's fees, such that the prevailing party shall not be entitled to recover its attorney's fees from the nonprevailing party.

25. SURVIVAL

Terms and conditions of this Agreement, which by their sense and context survive the expiration or termination of this Agreement, shall so survive.

26. GOVERNING LAW

This Agreement shall be governed and construed in accordance with the laws of the State of California.

27. SIGNATORIES

Each undersigned represents and warrants that its signature hereinbelow has the power, authority and right to bind their respective parties to each of the terms of this Agreement, and shall indemnify CITY fully for any injuries or damages to CITY in the event that such authority or power is not, in fact, held by the signatory or is withdrawn.

28. ENTIRETY

The parties acknowledge and agree that they are entering into this Agreement freely and voluntarily following extensive arm's length negotiation, and that each has had the opportunity to consult with legal counsel prior to executing this Agreement. The parties also acknowledge and agree that no representations, inducements, promises, agreements or warranties, oral or otherwise, have been made by that party or anyone acting on that party's behalf, which are not embodied in this Agreement, and that that party has not executed this Agreement in reliance on any representation, inducement, promise, agreement, warranty, fact or circumstance not expressly set forth in this

Agreement. This Agreement, and the attached exhibits, contain the entire agreement between the parties respecting the subject matter of this Agreement, and supersede all prior understandings and agreements whether oral or in writing between the parties respecting the subject matter hereof.

29. EFFECTIVE DATE

This Agreement shall be effective on the date of its approval by the City Council. This Agreement shall expire when terminated as provided herein.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by and through their authorized officers.

CONSULTANT,
BOWMAN CONSULTING GROUP, LTD

By: _____

ROBERT HICKEY
print name

ITS: *(circle one)* Chairman/President/Vice President (Executive)

AND

By: _____

KATHRYN WILLIAMS
print name

ITS: *(circle one)* Secretary/Chief Financial Officer/Asst. Secretary - Treasurer

CITY OF HUNTINGTON BEACH, a municipal corporation of the State of California

_____
Mayor

_____
City Clerk

INITIATED AND APPROVED:

_____
Director of Public Works

REVIEWED AND APPROVED:

_____
City Manager

APPROVED AS TO FORM:

_____
City Attorney

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IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by and through their authorized officers.

CONSULTANT,
BOWMAN CONSULTING GROUP, LTD

By:_____

_____
print name

ITS: *(circle one)* Chairman/President/Vice President

AND

By:_____

_____
print name

ITS: *(circle one)* Secretary/Chief Financial Officer/Asst. Secretary - Treasurer

CITY OF HUNTINGTON BEACH, a municipal corporation of the State of California

_____
Mayor

_____
City Clerk

INITIATED AND APPROVED:

_____
Director of Public Works

REVIEWED AND APPROVED:

_____
City Manager

APPROVED AS TO FORM:

_____
City Attorney

EXHIBIT "A"

A. STATEMENT OF WORK: (Narrative of work to be performed)

Provide On-Call Civil Engineering and Professional Consulting Services. If Consultant chooses to assign different personnel to the project, Consultant must submit names and qualifications of these staff to City for approval before commencing work.

B. CONSULTANT'S DUTIES AND RESPONSIBILITIES:

See Attached Exhibit A

C. CITY'S DUTIES AND RESPONSIBILITIES:

1. Furnish Scope of Work and provide a request for proposal for each project.

2. City shall issue a task order for each project based upon scope of services, work schedule, and fee proposal submitted.

D. WORK PROGRAM/PROJECT SCHEDULE:

A project schedule will be developed for each project assigned by the City.

EXHIBIT A

Bowman

City of Huntington Beach, CA

On-Call Civil Engineering Professional Consulting Services

Technical Proposal

Submitted by:

Farzad Dorrani, Branch Manager
Bowman
3060 Saturn Street, Suite 250
Brea, CA 92821
714.982.5032 | fdorrani@bowman.com

Submitted to:

Chau Vu, Director of Public Works
City of Huntington Beach
2000 Main Street
Huntington Beach, CA 92648

March 13, 2025

bowman.com

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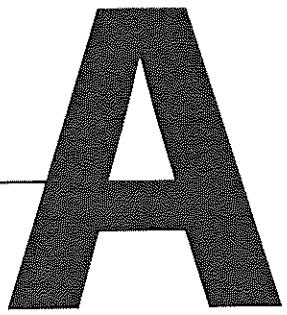
Cover Letter



Bowman

A Cover Letter

March 13, 2025

City of Huntington Beach, Public Works Department
2000 Main Street
Huntington Beach, CA 92648

RE: On-Call Civil Engineering Professional Consulting Services

Dear Selection Committee:

Bowman Consulting Group Ltd. (Bowman), is pleased to submit this technical proposal in response to the above referenced project. Our team includes qualified professionals and offers a local presence with three offices in the southern California region. **Our City of Brea office will manage this contract and is located approximately 25 miles from the City of Huntington Beach.** Our southern California staff have served our city clients for the past 30 years, cultivating strong and collaborative relationships with local municipalities. Bowman is a full-service municipal civil engineering, structural engineering, utilities engineering, surveying, environmental planning and ports and harbor consulting firm.

We believe that the qualifications of our staff, in combination with our competitive rates and our commitment to the City of Huntington Beach, makes us exceptionally qualified to provide the City with professional engineering services. By selecting Bowman, the City will benefit from the experience of a dedicated team with varied and extensive municipal experience and the ability to support various types of projects that the City may undertake.

We have established a reputation of meeting the expectations of our clients by employing experienced staff members who not only understand engineering design, but also have a solid foundation of the inner workings of the municipal government and public works' practices. More than 90% of our local office staff, as part of their past professional developments, have worked for City governments as employees. As a result, our company is known for providing responsive, quality recommendations and solutions to a wide variety of design and construction projects. We believe that successful projects are the result of a well-managed and motivated team, committed to being accountable and sharing ownership in the product or service that our team collectively provides.

I am authorized to negotiate and contractually bind and extend the terms of our proposal. **Our proposal price will remain valid for a period of at least 180 days.** I will serve as the contact person throughout the evaluation period and can be reached via phone at 714.982.5032 or via email at fdorrani@bowman.com.

Sincerely,

Farzad Dorrani, MS
Principal & Branch Manager

3060 Saturn Street, Suite 250, Brea, CA 92821
714.940.0100
bowman.com

Background and Project Summary Section

B

B Background and Project Summary Section

The Background and Project Summary Section should describe your understanding of the City, the work to be done, and the objectives to be accomplished. Refer to Scope of Work of this RFP.

The City of Huntington Beach, often referred to as "Surf City USA," is a dynamic coastal City in Orange County, California, known for its vibrant community, strong economic base, and commitment to high-quality infrastructure and environmental stewardship. Covering approximately 28 square miles and serving a population of nearly 200,000 residents, the City's infrastructure must support a wide range of needs, from storm water management and water distribution systems to transportation improvements, coastal resilience, and environmental sustainability. To meet these demands, the City's Public Works Department is seeking qualified on-call civil engineering professional consulting services to supplement City staff in delivering high-quality infrastructure projects and maintaining essential public services.

The on-call contracts will allow the City to efficiently and proactively manage infrastructure needs as they arise, ensuring projects move forward in a timely manner while maintaining fiscal responsibility. Consultants selected for this contract will provide services in four primary categories:

- **Water / Sewer / Storm Water Engineering** – Supporting the planning, design, and construction of potable water systems, wastewater treatment infrastructure, and storm water management solutions to ensure public health and regulatory compliance.
- **General Civil Engineering** – Assisting with roadway rehabilitation, bridges, sidewalks, curb and gutter improvements, and ADA compliance measures to enhance the safety and enhance mobility of the community.
- **Ocean Engineering** – Providing expertise in designing and maintaining coastal structures such as piers, seawalls, and harbors while evaluating the impacts of tides, currents, and climate change on coastal resources.
- **Environmental / Water Quality Engineering** – Ensuring compliance with state and federal storm water regulations, implementing sustainable water quality improvements, and supporting the City's long-term environmental goals.

Huntington Beach's infrastructure requires ongoing maintenance, upgrades, and innovative engineering solutions to accommodate growth, enhance safety, and meet stringent regulatory requirements. The selected consultants will provide planning, analysis, design, and construction support services for a variety of capital improvement projects, master planning efforts, grant-funded initiatives, and regulatory compliance programs. Tasks will include preparing plans, specifications, and estimates (PS&E), hydraulic modeling, geotechnical evaluations, topographic survey, environmental compliance, permitting assistance, utility coordination, and construction oversight.

By engaging highly qualified consultants on an as-needed basis, the City seeks to streamline project delivery, optimize resources, and ensure infrastructure resiliency. This initiative aligns with the City's mission to provide sustainable, cost-effective, and community-focused engineering solutions that support long-term growth, environmental protection, and improved quality of life for residents, businesses, and visitors.

Methodology Section

C

C Methodology Section

Provide a detailed description of the approach and methodology to be used to accomplish the Scope of Work of this RFP. The Methodology Section should include:

1) An implementation plan that describes in detail

(i) the methods, including controls by which your firm manages projects of the type sought by this RFP;

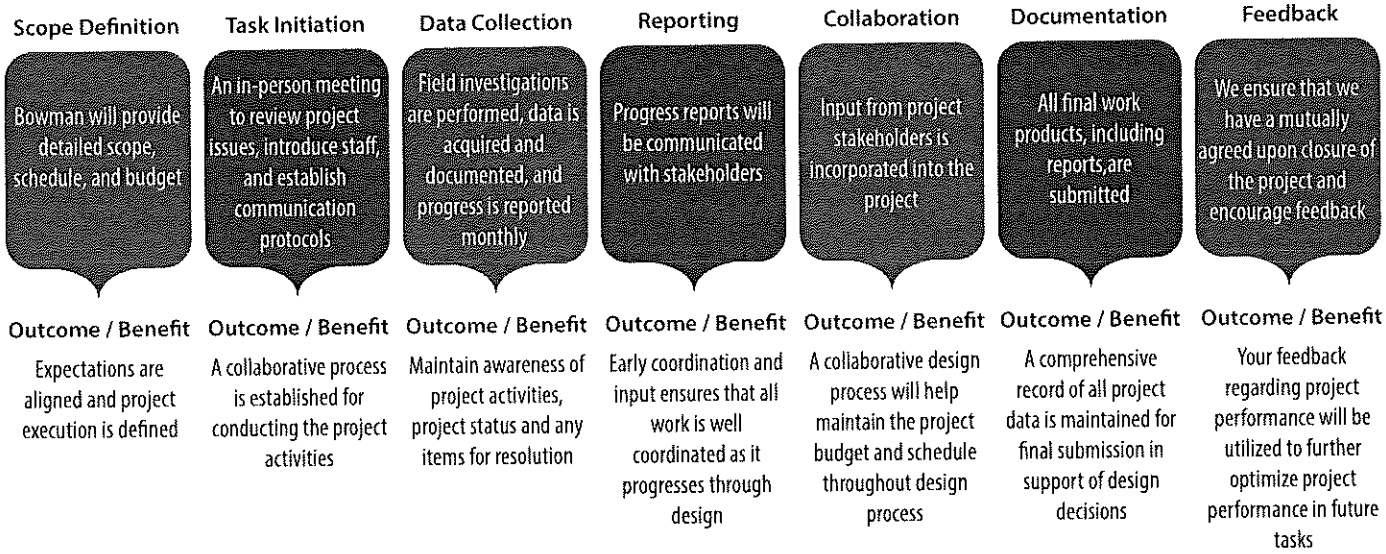
APPROACH

Effective execution of task order contracts requires clear delineation of work, streamlined communication and accountability of all stakeholders, as well as a collaborative approach with both internal resources and subconsultants. We are accustomed to serving our clients both on stand-alone projects as a dedicated consultant, as well as through staff augmentation roles, supporting our clients' needs for outside staffing.

Accordingly, Bowman's approach to delivering a successful task order within budget and on schedule begins with a clear understanding of the goals, scope, deliverables, budget, timeline, and involved stakeholders. On stand-alone projects, and based on this initial information provided to our team, we develop a project-specific management plan that delineates organizational structure, staffing, deliverables, and associated schedule, including progress and review meetings. ***As part of our approach to the execution of individual assignments within a multitask contract, it is imperative to understand several factors that may influence the project objectives, such as local site conditions, project-specific details and performance requirements, client-driven operational needs, community interface, seasonal restrictions, safety requirements, timelines, or legislatively mandated criteria.*** It is with this understanding that for each task, we evaluate the critical objectives and obstacles; implement best practices approach, cost effective and practical solutions; and implement such through engagement in all phases of the project.

Our project execution efforts are aimed at matching the right skill set to the project task, thereby ensuring effective and efficient use of resources. At Bowman, we instill a culture of consistency and high-quality performance through the preservation of personnel continuity on tasks through the life of the contract and the persistent pursuit of excellence through professional growth and innovation. Continuity of proven performers and preservation of project institutional knowledge yields quality performance and successful delivery metrics.

While we are prepared to work only on portions of a project (ex. a feasibility report or environmental assessment), our approach to developing our work product follows a total-project-life cycle mentality, as reflected in the workflow graphic below.



(ii) methodology for soliciting and documenting views of internal and external stakeholders;

Engaging internal and external stakeholders effectively is essential for project success. Our methodology for soliciting and documenting stakeholder views ensures transparent communication, inclusivity, and informed decision-making. The approach includes:

Identification of Stakeholders
Identifying stakeholders is the first critical step in the engagement process. Key internal stakeholders include City departments, project managers, and technical teams, whose expertise and insights shape project execution. External stakeholders such as residents, business owners, regulatory agencies, advocacy groups, and utility providers must also be considered, as their perspectives and concerns can significantly influence project outcomes. To systematically manage engagement efforts, a stakeholder matrix is developed to categorize stakeholders based on their influence, interest, and required level of engagement.

Engagement Strategies
Engagement strategies vary depending on the type of stakeholder. For internal stakeholders, structured meetings, workshops, and surveys are conducted to gather input from City staff, ensuring alignment with strategic goals. External stakeholders are engaged through public meetings, community forums, and online engagement sessions, providing opportunities for residents and businesses to voice their concerns and suggestions. Additionally, regular coordination meetings and formal correspondence with regulatory and partner agencies ensure open communication, regulatory compliance, and alignment with broader policy objectives. We have found that a proactive approach is needed for engaging outside regulatory agencies, such as Caltrans, AQMD, California Coastal Commission (CCC), California State Water Resources Control Board (SWRCB), California Environmental Protection Agency (CalEPA), federal agencies, etc. Early engagement will ensure that all permitting and regulatory documentation is initiated early, avoiding potential delays.

Documentation and Analysis
To maintain a clear record of stakeholder input, meeting summaries are meticulously documented, capturing key concerns, recommendations, and action items. Stakeholder feedback reports are developed, summarizing the input received and demonstrating how it informs project decisions. Interactive dashboards are also utilized to track stakeholder concerns, responses, and project progress, ensuring transparency and accessibility of information for all relevant parties.

Integration of Feedback Into Decision-Making
Integrating stakeholder feedback into decision-making is essential for ensuring project success and stakeholder satisfaction. Insights gathered from stakeholders are incorporated into project design and implementation strategies, ensuring that identified concerns are adequately addressed. Response strategies are developed to mitigate any potential issues, aligning project plans with City objectives. To maintain transparency, stakeholder feedback summaries are published, showcasing how stakeholder input has influenced project outcomes and reinforcing a collaborative decision-making approach.

This systematic approach ensures that the views of internal and external stakeholders are effectively solicited, documented, and integrated into the project decision-making process, fostering collaboration and enhancing project success.

(iii) and any other project management or implementation strategies or techniques that the respondent intends to employ in carrying out the work.

QA / QC Program
Bowman's quality management practice is anchored first on the commitment and performance by highly trained and experienced staff, each well-aligned with their particular discipline of work. This staffing commitment is paired with our detailed and robust Quality by Design (QBD) program that involves two actions: Quality Assurance and Quality Control (QA / QC). Bowman operates with the understanding that quality is built in, not added on. In addition, Bowman continuously reviews its quality management

Methodology Section (Cont'd)

practices, updating them to incorporate industry best practices as they evolve, as well as implementing lessons learned from past projects. This, coupled with ongoing training / mentoring of our staff and technical leadership of our practice leaders, forms a solid foundation for our quality delivery practice and mindset.

Quality Assurance

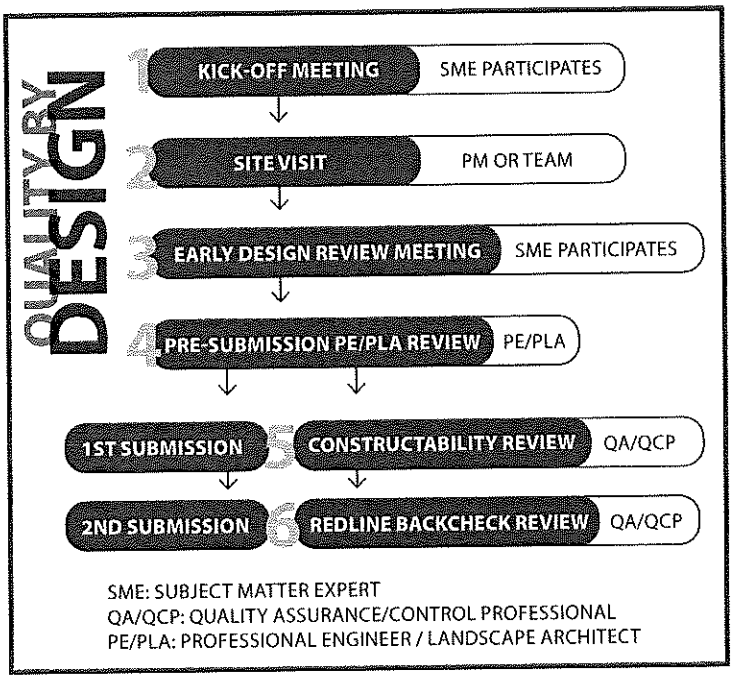
Depicted in the diagram to the right, the workflow of Bowman's QBD program will be implemented by the project QA management team, composed of the principal, project manager, and Bowman's dedicated QA / QC Manager. They will directly oversee a series of quality management reviews of the project at each designated milestone, ensuring that all the City's needs and requirements are being met.

Specifically, QA will be led by the ***Masoud Sepahi, PE, LEED GA***. Masoud has over 35 years of experience in all types of capital improvement projects, and he has delivered many challenging projects for the LA Metro, City of Los Angeles, and many other local cities. He will be utilizing Bowman's proven QA procedures, overseeing the work products from all disciplines, including scope of work, verifying the basis of design, constructability review, contents of the deliverables, as well as qualifications of the staff preparing and reviewing the work. This process will also confirm that QC reviewers are independent of the team that produced the work products.

Masoud's experience as the Director of Construction Management Division for Metro and as City Engineer for the City of Placentia provides him with a unique experience that enables him to not only ensure a higher quality design but to also lessen risk of project cost overruns, delays and excessive change orders.

Quality Control

QC will be led by discipline leaders appointed by the project manager, and it will involve a 100% review of all deliverable products such as surveys, reports, plans, specifications, calculations, cost estimates, and other work products. Standardized checklists of work items are established at the start of the assigned task or project to develop a consistent metric of checking. QC includes review of basis of design, including applicable codes being used and accuracy of calculations, and basis of cost estimates; interdisciplinary coordination and review of project interfaces to avoid conflicts; coordination and consistency of plans, sections, and details to ensure accuracy and clarity; coordination of plans with specifications; and constructability to ensure efficiency in construction and avoidance of conflicts. A key part of quality review is ensuring that site conditions such as existing utilities, topography, and structures are properly integrated in the design and that jurisdictional permitting requirements are incorporated to achieve plan review compliance. QC reviews are performed at all design development milestones and allow time to review, comment, and resolve issues or reconcile comments.



Before final delivery, a technical and editorial review of each work product is performed to ensure that the standard set at the beginning of the project has been achieved, and the goals have been reached. The review comments are recorded in customized project review checklists and placed in the project record. Subcontractor work products are incorporated into our review process and comments related to subcontractor work product are reconciled via separate review sessions to ensure compliance with expectations. We engage with our clients to seek their

feedback on our deliverables and incorporate such feedback in both resolution and finalization of work products and in improving our practices through this input.

2) Detailed description of efforts your firm will undertake to achieve client satisfaction and to satisfy the requirements of the "Scope of Work" section.

Communication is Essential
Good communication is the key to every successful project. The Bowman team will:

- Comply with the Contract provisions, and follow the City's directions for compliance with the provisions of the consulting agreements
- Proactive management of subcontractors involved with every task
- Monitor and coordinate workload amongst the staff and subcontractors
- Oversee staffing, schedules and budgets
- Coordinate duties and invoices for an anticipated duration for each Task Order
- Prepare monthly progress reports and invoicing per the City's requirements and standards and discuss any outstanding issues for resolution

We recommend at least one monthly meeting to discuss the progress of each Task Order under this annual contract. We ask this in order to maintain a high level of communication and interaction with our team members. We will attend other meetings, as necessary, and as directed by the City. We will also attend City Council meetings, to provide input and support for projects under our management.

Project Management Plan - How We Deliver Our Services
A Project Management Plan is a valuable communication tool to keep the design team and all project stakeholders appraised on key elements of the project. We understand that the City's staff and potentially other stakeholders will be an integral part of the delivery for every project that is assigned to Bowman. In order to clarify and define expectations at the beginning of each task, the following information will be included in our Project Management Plan:

- Document controls and communication protocols
- A detailed project schedule including delivery milestones
- A budget summary with costs defined for each activity
- A QA / QC plan for internal quality reviews
- A staffing plan with the roles and responsibilities of team members.

In order to ensure that the project is completed effectively and efficiently, the following sequence of activities will be incorporated into our management approach with the City of Huntington Beach.

Develop a Comprehensive Scope and Fee Proposal
Upon selection by the City for Bowman to start a project, we will prepare a comprehensive and detailed proposal that will identify each task and subtask needed for successful delivery of the work. We will identify the type of engineering discipline, along with other support services needed, such as surveying, geotechnical engineering and outside permitting needed for each project. We will the determine the applicable budgets and a detailed project schedule that allocates durations required to complete these activities. Bowman will include activities such as dates and durations for internal QA review within our team structure, in addition to anticipated durations for review by the City of Huntington Beach as well as applicable review agencies such as California SWRCB, CalEPA, Caltrans, the U.S. Army Corps of Engineers (USACE), CCC, Orange County Flood Control District (OCFCD) and other applicable stakeholders.

The preparation of a detailed and accurate proposal is a very critical step in successful project delivery. The proposal becomes a critical communication tool to establish a formal delivery strategy for the project and communicate tasks and activities throughout the full project schedule.

Review the Proposal and Obtain City Approval
Our goal is to engage swiftly with the City to discuss the proposal contents and resolve any questions, requirements, assumptions and budget limitations proposed in the contract. Typically, we recommend that the proposal is submitted in advance of a meeting and to discuss the feedback from the City so that we can swiftly move into the approved contract

with full understanding of all the expectations and obligations contained in our proposal.

Initiate Project Kickoff / Chartering Meeting
Communication and collaboration are the key elements for every successful project. A well written and detailed proposal is the first critical step in effectively communicating the work to be performed under the contract. After confirming the full scope of the project, the next step is to conduct a kickoff meeting with the entire design team, the City staff and other key stakeholders to initiate the work. The agenda for the kickoff meeting will include the following:

- Introduction of key members from our team and the City to identify roles and responsibilities
- Review the scope and milestones such as field activities and deliverables in the schedule
- Identify stakeholders to be involved with the project including the local community and regulatory agencies
- Discuss ongoing / planned community outreach programs
- Ensure that all pertinent documentation and record plans that are available within the project area are obtained by our design team
- Establish an ongoing action item list and risk register to be maintained throughout the project

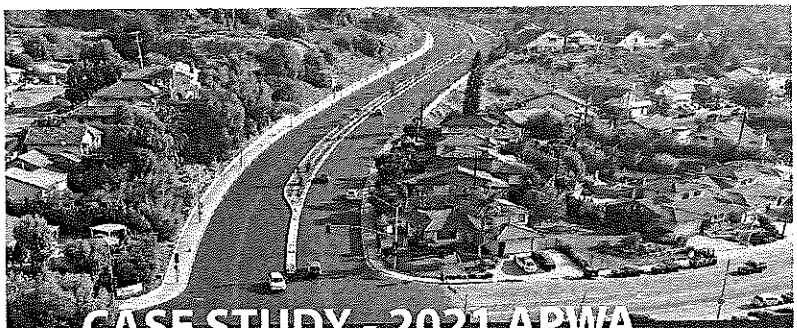
Hold Regular Progress Meetings
On a monthly basis, we will conduct progress meetings either virtually or in person with the design team and the City's project team. In this meeting we will review the status of the project, the progress made since the last meeting and review upcoming planned activities. The meeting will also include required action items and issues requiring resolution to maintain the schedule. Bowman will maintain meeting minutes and distribute to all participants subsequent to the meeting.

Set Up a Collaborative Document Sharing Drive
Bowman proposes that all documents, deliverables, and schedules be posted into a team site such as SharePoint, OneDrive, or similar shared document system to enable full access and collaboration by all involved project stakeholders. This will allow all participants to have full visibility into the activities during the entire duration of the project. During construction, a formalized document control system will be maintained by Bowman using a system acceptable to the City. Bowman utilizes C-MIS document control program, which is an online, sharing platform, allowing all participants to view and post documents in real time.

GENERAL CIVIL ENGINEERING

Roadway / Bridge Design
Bowman has a comprehensive understanding of roadway and bridge design projects. Our expertise spans the full project lifecycle, from conceptual planning to final construction, with a focus on regulatory compliance, efficiency, and stakeholder coordination. For roadway construction, our team develops complete design packages that include preliminary alignments, corridor studies, and impact assessments to minimize disruption to residential and commercial properties, as well as environmentally sensitive areas. We are well-versed in the Local Assistance Program (LAP) Manual, AASHTO, and Caltrans Road and Bridge Standards, ensuring that all plans adhere to the latest state and federal guidelines. Our roadway designs integrate elements such as traffic signalization, pedestrian accommodations, stormwater management (SWM), and construction phasing to maintain traffic flow and accessibility during implementation.

Bowman's approach to bridge projects includes detailed drainage studies, structural load calculations, and utility coordination to ensure that the design of the bridge meets modern ASHTO and Caltrans design and construction standards while minimizing environmental and right-of-way impacts. For roadway and bridge projects alike, our construction documentation includes comprehensive bid packages, traffic management plans, and phased implementation strategies to facilitate smooth project execution.



CASE STUDY - 2021 APWA PROJECT OF THE YEAR

Montebello Blvd Beautification Improvement Project, Montebello, CA

As part of the City of Montebello's beautification improvement project, our team provided design engineering services to widen Montebello Boulevard to accommodate a new class II bike lane with new raised medians and hundreds of new trees and tree wells with a decorative percolation system with landscaping and irrigation. Activities included the excavation of approximate 8,000 CY of dirt to make room for the widening required; construction of 5-ft high retaining wall; traffic signals upgrades; construction of a reclaimed water line from Lincoln Avenue to Jefferson Avenue; relocation of water lines, gas lines and streetlights; grind and overlay of approximately 500,000 sq. ft. ground and 10,000 T of asphalt concrete (AC); new thermoplastic striping; coordination with the California Department of Fish and Wildlife (CDFW) to protect nesting of birds due to the potential impact of the roadway widening adjacent to a natural reserve.

Streetscape Design

Bowman brings extensive expertise in municipal streetscape projects through our deep understanding of roadway GreenStreet infrastructure design, permitting, and utility coordination. Bowman also provides critical peer review services, ensuring code compliance, constructability, and technical validation to mitigate risks, prevent costly delays, and enhance project success. Bowman streamlines the permitting process, efficiently obtaining approvals for land disturbance, civil engineering plans, and final construction certifications. Our team is well-versed in working with regulatory agencies and local jurisdictions, ensuring that projects adhere to all local and state requirements. Our approach to designing every project includes coordination with other ongoing city initiatives and programs. In every design, we will explore multi-modal transportation opportunities for enhancement of the City's various transportation modes such as bike lanes, pedestrian paths, traffic signal improvements, street lighting, way-finding signage, bus routes, school routes, emergency response provisions, and other important City related events and programs. We have gained valuable experience, through managing these types of programs for our city clients, over the past 30 years. Our team is also capable of assisting the City with Smart City initiatives, using technology, data and innovation to improve the city's broadband fiber and internet network.

Beyond design and permitting, Bowman actively engages with the community, leading public outreach efforts through workshops, design charrettes, and stakeholder meetings. We also possess significant procurement and construction administration experience. This comprehensive approach—integrating design, permitting, utilities, public engagement, and contract execution— positions Bowman to effectively deliver efficient and successful streetscape projects.

Surveying

Bowman is well-versed in the preparation of public land surveys, geodetic control surveys, and general surveying and mapping activities, such as acquisition boundary surveying, preparation of legal descriptions, topographic surveying, field location of areas defining categories of value or ownership / parcel mapping, mapping for appraisal purposes, court testimony, surveyor reports, and photogrammetric surveying. We use state-of-the-art data collection instruments and the most current photogrammetric and lidar surveys to produce fully digital survey data that can be seamlessly integrated into a CADD environment with maximum efficiency. Additionally, our growing resource of dedicated GIS specialists routinely supports mapping efforts in a wide array of municipal projects, helping clients understand their own infrastructure, predict maintenance costs, and track project progress in real-time.

C Methodology Section (Cont'd)

General Approach to Surveying Services

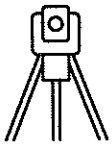
Bowman's approach to land surveying services is structured around precision, adaptability, and proactive client engagement. Our process includes:

01 PRE-SURVEY PLANNING AND PRICING

- Define scope and objectives with client.
- Review existing maps and site information.
- Perform a site visit (if required) to understand terrain and accessibility.
- Propose work methodology and pricing.

02 PROJECT PREPARATION

- Obtain necessary permits and clearances.
- Identify survey control points and benchmarks.
- Ensure all equipment is calibrated and ready for fieldwork.



03 FIELD WORK

A. Geodetic Control Surveys

- Recon existing survey control.
- Conduct multiple session static GNSS observations on existing and new monuments.
- Collect RTK observations of the same points as gross error check.

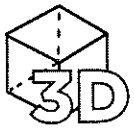
B. Photo Control Surveys

- Recon existing survey control.
- Conduct multiple session static GNSS observations on existing and new monuments.
- Collect RTK observations as gross error check.

C. Property Surveys

D. Ground Based Lidar Surveying and Mapping Services

- Recon existing survey control.
- Create and expand a secondary control network.
- Collect ground based lidar / scans using Trimble Laser Scanners and Mobile Mapping.
- Collect a suitable number of check points.



04 DATA PROCESSING AND ANALYSIS

- Utilize Trimble Business Center to import, quality control and project data.
- Perform baseline processing and least square adjustments of Control network.
- Use Autodesk Civil3D, Pix4D and Global Mapper to generate 3D models, contour maps, and detailed terrain data (Ground-Based Lidar Surveying and Mapping Services).

05 QUALITY ASSURANCE AND CONTROL

- Verify data accuracy by cross-referencing control points.
- Check for any inconsistencies or missing information and remedy if necessary.
- Ensure that the jurisdiction's CADD Standards and other guidelines and standards are being used.

06 MAP PRODUCTION AND REPORT PREPARATION

- Create final topographic maps and survey control reports.
- Deliver maps in client-specified formats (CADD, PDF, GIS).
- Provide digital and / or hard copies of the survey data.

Areas of Expertise

- Extensive experience on a full range of surveying services
- Boundary Surveys
- City Plat & Map Reviews with Recommendations
- Construction Layout & Subsurface Utility Locations
- Construction Staking
- Cross selections for Drainage Basin Analysis
- Design Surveys
- Easement Sketches
- Electronic Field Surveys for Engineering Plans
- GIS Grade Mapping
- Legal Descriptions
- Marine Surveys
- Preparation of Land Surveys
- Right-of-Way Location Surveys
- Title Searches
- Topographical Surveys
- Tree Surveys

Beyond Land Surveying

Comprehensive Right-of-Way & Land Services

- Many firms focus solely on surveying, but **Bowman integrates right-of-way (ROW) acquisition into its surveying process.** This minimizes delays in land transactions and ensures compliance with state and local regulations.
- **Proactive coordination** with property owners, municipalities, and legal entities streamlines the acquisition process, reducing project bottlenecks.
- Ability to **handle easement negotiations and permitting in-house,** avoiding the need for third-party consultants.

Advanced GIS Capabilities for Enhanced Surveying

- Our in-house GIS specialists bring a **data-driven approach to surveying,** improving accuracy and visualization.
- The use of GIS mapping for **property boundaries, easements, and topographic analysis** ensures precise planning and decision-making.
- Ability to integrate survey data with municipal GIS databases allows for **better asset management and long-term planning.**
- Enhanced **spatial analysis capabilities** provide valuable insights for land-use planning and infrastructure development.

More Efficient & Cost-Effective Project Delivery

- The combination of **surveying, ROW, and GIS expertise eliminates the need for multiple subcontractors,** providing **faster turnaround times** and **cost savings.**
- Real-time GIS integration helps **identify conflicts early,** reducing the likelihood of costly revisions or legal disputes.
- GIS-based **progress tracking** allows for efficient reporting and project updates.

Strategic Advantage in Large-Scale & Public Sector Projects

- Many public agencies prefer working with firms that offer **end-to-end land surveying and acquisition services,** reducing administrative burden.
- GIS technology enhances **public engagement and transparency,** which is a key factor in government projects.
- Bowman can **support future infrastructure expansions** by providing scalable GIS data for long-term planning.

Geotechnical Engineering

PA & Associates brings extensive expertise in soil and water testing for municipal roadway improvement projects, combining proven geotechnical methodologies with decades of hands-on experience. They employ a systematic approach to site investigation, laboratory testing, and geotechnical analysis, beginning with a detailed review of geologic data to determine optimal boring locations, drilling depths, and sampling methods, including Standard Penetration Tests (SPT), undisturbed sampling, and rock coring. Field exploration is conducted by experienced engineers and geologists who log borings, record groundwater levels, and document subsurface conditions. Laboratory testing is then performed to evaluate soil properties, pavement subgrade conditions, and stormwater infiltration rates. Their geotechnical reports provide recommendations for foundation design, floor slabs, retaining walls, pavement subgrade preparation—including California Bearing Ratio (CBR) values—and SWM features such as infiltration rates and clay liners for embankments. PA has successfully applied this methodology to municipal infrastructure projects, delivering precise assessments that support safe and durable roadway construction.

WATER / SEWER / STORM WATER ENGINEERING

We understand that the City's water system is managed by the Huntington Beach Utilities Division, which provides potable water from local wells and imported water sources. The City's sewer system is overseen by the Public Works Department, who is responsible for wastewater collection and maintenance before it is treated by the OC Sanitation District. The City's storm drain system is also managed by the Public Works Department, ensuring proper drainage and compliance with environmental regulations. The scope of the work is anticipated to range from condition assessments, preliminary engineering and planning document preparation and full design and construction administration services. We anticipate that these services may include, but not be limited to the following:

Field Surveying Services

It is anticipated that the City will need a local full-service field surveying team to prepare topographic mapping, utility mapping, easement plats and other related field surveying services associated with providing the necessary information to be utilized for engineering design and permitting activities for the utility line projects. Along with the field surveying, we anticipate the team will be providing utility designation and test pitting along the alignments and work areas selected in the design to ensure that existing utilities are identified in advance to mitigate potential impacts during construction.

Sewer Line Condition Evaluations

As part of the City's ongoing asset management evaluations of the sanitary sewer system, we anticipate that support will be needed to document the age, condition, and deficiencies within the existing sewer system. Field evaluation surveys to accurately document the condition and scope of defects will be noted by qualified field personnel and engineering staff so that applicable repair work, rehabilitation or replacements can be recommended. Potential risks of failure would also be an important aspect to prioritize repairs so that risks can be mitigated. The project team will utilize a full suite of field staff and technologies including CCTV equipment, I / I and flow metering equipment, smoke testing equipment and other applicable staff and equipment to fully complete condition assessment services.

Water Main Evaluations

Water main evaluations may be beneficial to determine defects in the water distribution and transmission main system. These evaluations can be performed by leak detection personnel using above grade detection devices and other devices such as in-pipe submersible sensors that are now readily available in the industry. Prioritizations can also be developed based on breakage history and field information obtained by utility division operations staff. Using this information, Bowman can determine the locations, scope, and approach for repairing the system.

Pipeline Rehabilitation

We anticipate that the potential scope of work may include providing recommendations for utilizing rehabilitation techniques such as internal pipe liner

systems, providing point repairs for failed sections of pipelines and / or potentially doing full section replacements for pipelines that cannot effectively be repaired by trenchless rehabilitation methods.

Pipeline Design Services
We anticipate that design projects may include the design of new water mains, gravity sewer systems and force mains. These pipelines may be along Caltrans roadways in many cases. During the planning and design phase, these areas will need attention to maintenance of traffic design services, Caltrans coordination and permitting, connection strategies for connecting new pipelines into active existing lines and addressing constructability considerations. We also anticipate that some lines will need to be planned and designed on private property which will require coordination with property owners, developing temporary and permanent easements to facilitate construction and careful attention to the limits of disturbance to ensure the impact on private property is well controlled during construction.

Pumping Station Design Services
We anticipate that services may also include the planning, design of new or rehabilitated water and wastewater pumping stations. This work may involve condition assessments of older facilities to quantify the age, condition, and remaining useful life of existing stations and perform the design of appropriate rehabilitation or replacement work of these pumping stations to ensure their continued reliable future service can be maintained.

Manhole Rehabilitation
Potential projects may also be to repair and rehabilitate existing sanitary sewer manholes that our team, or the City's team has identified as candidates for rehabilitation. Rehabilitation solutions may include leak mitigation at manhole joints and field applied interior coating systems to provide protection from the effects of hydrogen sulfide.

Storm Water Quality / Hydromodification
Our team brings a wide range of technical expertise to the challenges of storm water quality and hydromodification modeling for a wide range of projects, including small infill developments, street retrofit projects, and large master plan developments. With recent changes in storm water standards, it is increasingly important that the detailed storm water and hydromodification analysis be completed in detail during the initial planning stages of the project to ensure that the project will comply with the new stringent requirements. Storm water quality requirements, and particularly hydromodification requirements, have become a major component in the approval process for all projects. Our team has demonstrated significant cost savings for clients in designing efficient BMP and hydromodification designs.

Permitting Services
Effective and efficient permitting of all water and wastewater project work is imperative for completing any project in a timely and cost-effective manner. We anticipate that all potential permits that would be necessary for implementation will be part of this project. Permits include state and federal agencies such as the SWRCB, CalEPA, Caltrans, the USACE, CCC, OCFCD and other agencies. We understand that potential cultural and archaeological resources may also be needed for evaluation as part of this work.

Construction Support
As the project moves from the planning and design phase into construction, we anticipate that there will need to be continued support with project bidding, construction administration and management and potentially field inspection services. Having an engineering firm as a local partner with a full suite of services for construction phase work including setting up and maintaining document control systems, managing progress meetings, tracking and responding to all contractor submittals, reviewing construction schedules, change orders and claims and providing the ability for full construction inspection and commissioning service support so that all potential needed services can be pulled in so that the project can be successfully constructed, tested and commissioned into service.

OCEAN ENGINEERING
Preserving the environment is essential to the health and safety of our society and is an important service to Bowman. With a focus on minimizing

environmental impacts, Bowman offers cost-effective solutions to clients in the public sector, the private development industry, and within the conservation community on how to deal with issues such as water scarcity, climate change, managing environmental liabilities, regulatory obligations, risk management, and good environmental stewardship.

Bowman offers a unique portfolio of extensive experience in natural resource inventories, wetland delineations, habitat assessments for threatened and endangered species, and surveys for conservation, development and infrastructure improvement projects. We also provide environmental services such as planning, compliance, and permitting, and we have developed, or contributed to, numerous regional habitat conservation plans (HCPs), statewide parks planning assessments, and endangered species research, planning and compliance projects.

Our waterfront facilities experience ranges from industrial ports and harbors to urban waterfront development. Industrial port experience includes facilities handling liquid and solid bulk, break bulk and containerized commodities. Urban waterfront experience includes residential and commercial waterfront development, ferry terminals, recreational docks including floating docks, marinas and fishing piers. Additionally, Bowman also services heavy industrial facilities including cooling towers, warehouses, storage tanks and mechanical systems including pumps, piping and blending systems. Services include but not limited to the following:

Inspection, Investigation & Evaluation
- Damage Investigation
- Feasibility Studies and Cost Estimation
- Geologic Investigations
- Geophysical Studies
- Underwater Inspections and Evaluation

Environmental Engineering
- Hydraulic & Mechanical Dredging
- Mechanical Dredging Feasibility Studies
- Permitting
- Regulatory Compliance

Engineering
- Bulkheads and Shoreline Stabilization Design Including Revetment Design
- Deep and Shallow Foundations Analysis, Design and Testing
- Design of New and Rehabilitation of Existing Industrial Facilities
- Design of New and Rehabilitation of Existing Ports and Waterfront Facilities
- Fender System Design
- Marinas and Floating Dock Design
- Marine Loading Arm and Hose Tower Design
- Mechanical Engineering
- Mooring Bollard Design, Rating and Testing
- Pipe Rack Design
- Pump and Piping Design Including Hydraulic Analysis
- Static and Dynamic Mooring Analysis
- Stationary and Mobile Equipment Foundation Design
- Structural Analysis and Load Rating of Waterfront Structures
- Structural Inspection and Evaluation of Industrial Structures
- Tank Blending Design

Environmental
Dedicated environmental scientist and professional engineers specializes in environmental regulatory compliance, permitting, regulatory interactions, negotiations, public participation, and sampling & assessment for land, waterfront, marine and dredging projects.

Engineering
Extensive marine design and construction experience from feasibility studies, cost estimation, planning, under and above water inspection & investigation, design, permitting, construction inspection & management and dredging.

Key Staff
Bowman values the importance of committing seasoned and highly qualified staff, as well as maintaining key staff continuity for on-call contracts to achieve quality of service and preserve institutional knowledge with the client and projects. For this contract, we are prepared to commit our key staff members who bring both proven performance credibility and deep ocean engineering knowledge.

Methodology Section (Cont'd)

Presented below are brief introductions to the key members of our team for this contract.

Principal, EVP of Ports & Harbors, Vijay Agrawal, PE has over 25 years experience in providing integrated port planning, strategic master planning, design and construction of major container, cruise, bulk, oil & petroleum terminals and all associated landside infrastructure dealing with all relevant stakeholders.

Senior Project Manager, Ports & Harbors, Bryan Seitz has 20 years of experience in ports and harbors planning and operations. Bryan spent 12 years with the Port of Houston Authority, where he began as operations manager before promotion to analysis and planning manager and most recently as general manager of container operations. Through his tenure with the Port of Houston, Bryan interacted with and learned from every department within the organization. He was employed at both the turning basin and container operations groups, which provided invaluable insight into the ports and harbor industry. Bryan also spent over six years as marine shift manager with Maersk Line, APM Terminals.

Director, EVP of Structural Engineering, Santosh Kuruvilla, PE, SE, PMP has extensive experience in design and management of projects for and adjacent to Port / NWSA properties. He recently was project principal on several Sea-Tac Port of Seattle projects.

ENVIRONMENTAL / WATER QUALITY

The City of Huntington Beach seeks a qualified consultant to provide an assortment of environmental services related to stormwater on an as-needed basis. For 30 years, Bowman's local Brea office has provided MS4 compliance, investigation, and permitting assistance, and staff training – either as part of our typical plan check and construction inspection services or as a separate program. We have provided MS4 compliance, permitting assistance and inspection services to the cities of Baldwin Park, Bell Gardens, Calexico, Lynwood, Montebello and South Gate. Our accomplished team of professionals understand the complexities of the Federal Clean Water Act and Porter-Cologne Act and are experienced in advising cities how to properly implement water conservation, landscape maintenance, water and waste water operations in conformance to standards set forth by the State Water Resources Control Board. As such, we have the experience and capability to provide complete water quality engineering services, which include NPDES compliance and permitting, MS4 compliance, Storm Water Pollution Prevention Plans (SWPPP), Standard Urban Storm Water Mitigation Plans, Water Quality Management Plans (WQMP), Low Impact Development, Green Street Policy engineering, inspection and full-service staff augmentation services in support of cities' water resource capital improvement projects. Our team vigorously promotes a clear understanding of potentials for activities to pollute storm water and identify opportunities to require, implement, and maintain appropriate BMPs.

Additionally, our team is knowledgeable and fully equipped to guide the City on various issues in regard to policies, ordinances, resolutions, processes, Local Implementation Plans and procedures, and WQMP reviews. With our solid pedigree and leadership from seasoned veterans, including Douglas Benash, PE, QSD as our proposed Senior Engineer and Jon Becker, PLA, AICP as Environmental Specialist.

Preliminary Analysis and Reports

Our team of environmental consultants begin every project by conducting the essential due diligence in order to prepare a preliminary analysis report to compliance. We understand the importance of these early determinations in the environmental analysis process. It is the determining factor to evaluate the required environmental actions, which could include the environmental studies, site assessments, and development and implementation of new policies and procedures with applicable regulatory requirements. Our Environmental Consulting Team has extensive experience in the preparation of technical studies and have successfully completed many technical reports of similar nature to the RFP's scope of work and have completed many work products for such projects throughout Southern California.

Design & Development Process Support

Bowman has the know-how to identify the principal constraints on site design and selection of LID BMPs as well as opportunities to reduce imperviousness and incorporate LID Principles into designs for project

sites and landscape plans. For example, constraints might include impermeable soils, high groundwater, groundwater pollution or contaminated soils, steep slopes, geotechnical instability, high-intensity land use, heavy pedestrian or vehicular traffic, utility locations or safety concerns. We have successfully identified opportunities such as existing natural areas, low areas, oddly configured or otherwise unbuildable parcels, easements and landscape amenities including open space and buffers, and differences in elevation for a number of cities, including Baldwin Park, Bell Gardens, Calexico, Lynwood, Montebello and South Gate, among others. We assess the conditions by preparing a brief narrative for each of the site optimization strategies to aid with our Low Impact Development (LID) design or review and explain the decisions to others. We know from experience the importance of putting thought upfront to organize the various elements of a site to help in significantly reducing potential impacts on the environment in addition to reducing the number and size of Structural LID BMPs that must be implemented.

NPDES Program Administration & Presentation
Bowman has administered NPDES compliance programs to develop plans and schedules, administer contracts, maintain tracking systems, process payments, and prepare reports for a number of cities in Southern California. Our team has managed contracts for assistance with LID code and manual update implementation; implemented new NPDES time tracking procedures for Community Development and Public Works; introduced new online reporting tool for annual reports; and updated SWMPs. We place a strong emphasis in accurately maintaining records of NPDES activities for each permit component

Inspection Program
Our team is thoroughly familiar with the Compliance Inspection Manual for National Pollutant Discharge Elimination System composed by the Environmental Protection Agency (EPA) to conduct NPDES inspections of wastewater treatment plants, storm water industrial and construction sites, pretreatment facilities, biosolids handling and treatment facilities. We have created inspection checklists and forms to develop an inventory database for commercial and industrial businesses for many cities and have conducted inspections to monitor and report discharges to the MS4 system from industrial and commercial businesses. We are well-versed in performing field research to document and verify existing conditions of drainage characteristics, surface best management practice (BMP) features, general descriptions of sites and other visual pollutants within the area of inspection. Upon completion, our team provides recommendations to improve water quality and inform facility owners about storm water regulations and how to prevent discharges to the storm drain system.

Training
Bowman has provided training that focuses closely on the details of discharge permitting and pretreatment standards. We present water discharge permitting and restrictions in an understandable, structured, and logical format. As part of our resource program for NPDES training, Bowman compiles information and sources from materials available at the State Water Quality Control Board website and workshops. We develop training materials to provide guidance to City staff, as well as contractors, at the time of preconstruction meetings. Training modules have been prepared with PowerPoint presentation programed by Bowman and covers the principles of storm water quality management, NPDES, the new MS4 permit, essential knowledge for operation and maintenance, definition of storm water and non-storm water, illicit connection / illegal discharge, pollutants of concern, WMP, LID, Green Street policy, spill prevention cleanup, and drainage system maintenance.

3) Detailed project schedule, identifying all tasks and deliverables to be performed, durations for each task, and overall time of completion.

MEETING SCHEDULE REQUIREMENTS
As the prime consultant and team manager, we understand that adherence to project schedules is critical. Projects may be driven by regulatory compliance, needs for growth-related capacity, or improvements to reliability and redundancy. Regardless of the cause, Bowman will manage and

Methodology Section (Cont'd)

drive the project forward proactively by developing a project plan that incorporates all required stakeholders and design disciplines. We have proven experience in designing and permitting various projects that involve as few as one internal discipline to as many as eight external subconsultants. More than anything, executing projects within budget and on schedule requires a clear delineation of work, streamlined communication, accountability of all stakeholders, and a collaborative approach and mentality.

Bowman utilizes Critical Path Scheduling for successful project timeline and budget monitoring. This planning and execution tool is an important one in the process of delivering a project in a timely and well-planned manner. It requires a thorough understanding of the project and what it takes to design and construct it. With this understanding, emphasis can be placed on the elements of a project that impact the delivery schedule. Please refer to "Appendix: Forms, Resumes and Graphics" for a sample schedule.

4) Detailed description of specific tasks you will require from City staff. Explain what the respective roles of City staff and your staff would be to complete the tasks specified in the Scope of Work.

Collaboration between our consulting team and City staff is vital to successfully executing task orders under this contract. To ensure clarity in roles and responsibilities, we outline specific tasks that will require City staff participation:

CITY STAFF RESPONSIBILITIES

City staff will be instrumental in providing project oversight, regulatory compliance, and stakeholder coordination. They will assist in defining project priorities, reviewing key deliverables, and ensuring that our approach aligns with City policies and objectives. Specifically, City staff will be responsible for:

- Providing background information, existing conditions data, and available GIS mapping for each assigned task order.
- Facilitating introductions and communications with key stakeholders, including public agencies and private utility companies.
- Assisting in obtaining necessary permits and approvals from local, state, and federal regulatory agencies
- Reviewing and providing timely feedback on draft deliverables, including preliminary engineering reports, feasibility studies, and PS&E packages.
- Participating in project status meetings to ensure alignment between City objectives and consultant activities.
- Providing construction oversight support by coordinating inspections and addressing field challenges in collaboration with the consultant team.

CONSULTANT RESPONSIBILITIES

Our firm will be responsible for executing technical analyses, engineering design, stakeholder engagement, and project documentation. Specifically, our team will:

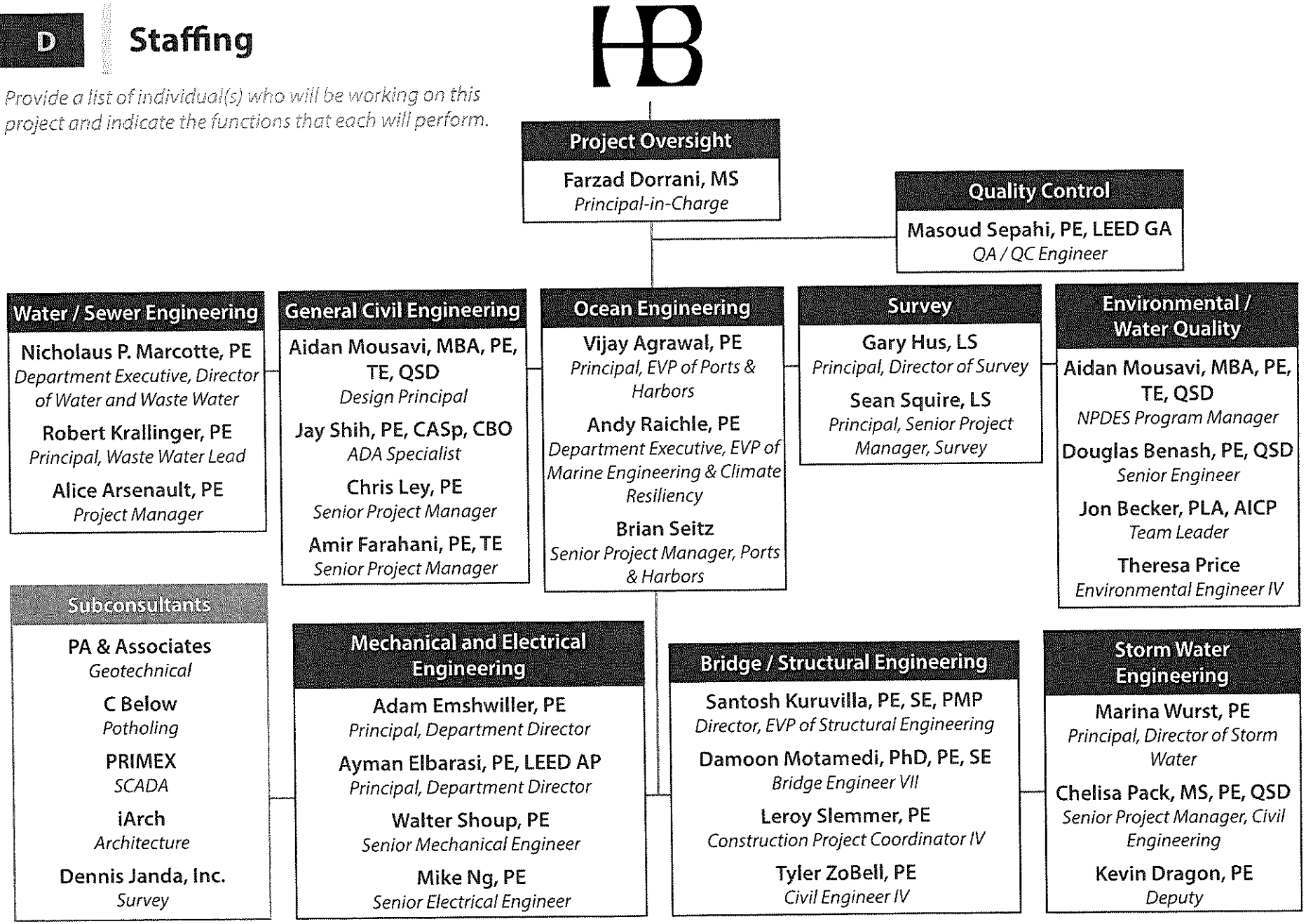
- Develop comprehensive work plans and schedules for each task order, ensuring efficiency and timely completion.
- Conduct site investigations, surveys, and feasibility studies to inform design decisions.
- Prepare design drawings, specifications, and cost estimates for assigned infrastructure projects.
- Engage with community stakeholders to incorporate feedback into project design and implementation.
- Provide technical expertise and recommendations to City staff for informed decision-making.
- Support City staff during the construction phase by responding to RFIs, reviewing submittals, and conducting field visits as necessary.

This structured collaboration between City staff and our consulting team will ensure that all project tasks are executed efficiently while maintaining high-quality standards and regulatory compliance.

Staffing D

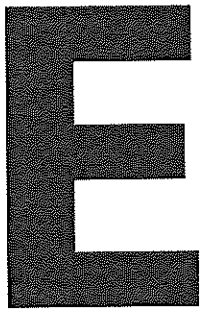
D Staffing

Provide a list of individual(s) who will be working on this project and indicate the functions that each will perform.



** Resumes appear in section F "Appendix: Forms, Resumes and Graphics"*

Qualifications



E Qualifications

2) A summary of the firm's demonstrated capability, including length of time that your firm has provided the services being requested in this Request for Proposal.

Bowman is a trusted, multi-faceted professional services firm offering a broad range of engineering, infrastructure, environmental management, energy and real estate solutions to both public and private clients across the country. From large commercial developments, to master planned communities, to local transportation projects, Bowman delivers outstanding project results, builds long-lasting relationships and leverages the growth of our organization to serve the constantly changing needs of our clients. We have been providing the services requested in this RFP since 1995.

30	$376	2,300	106
Years in Business	Current Gross Revenue Pace (Millions)	Number of Employees (Approx.)	Offices Nationwide

1) Names of key staff that participated on named projects and their specific responsibilities with respect to this scope of work.

3) Provide at least five (5) local references (Appendix A) that received similar services from your firm. The City of Huntington Beach reserves the right to contact any of the organizations or individuals listed. Information provided shall include:

- *Client Name*
- *Project Description*
- *Project start and end dates*
- *Client project manager name, telephone number, and e-mail address*

Prompts 1 and 3 are answered on the following pages. The City-provided "Appendix A" appears in the "Appendix: Forms, Resumes and Graphics" section of this proposal.

Brier Road Water Resources Engineering and Historic Drainage Project

La Mesa, CA

We provided the City of La Mesa with expert analysis of the engineering and drainage law conditions surrounding the sinkhole located at 9210 Brier Road. The analysis and summary report included a records review of historic drainage maps and other documents and hydrology and hydraulic calculations of the existing drainage patterns for Brier Road. The results and analysis helped the city establish the responsibility for the flow of water, drainage structures, their maintenance, and associated property damage for the private residence on Brier Road.

Client Name
City of La Mesa, CA

Client PM Contact
Michael Throne
p: 619.667.1388
e: pwdir@cityoflamesa.us

Schedule
11/27/23 - Ongoing

Services Provided
- Storm Water

Key Staff
Chelisa Pack - Project Manager

E Qualifications (Cont'd)

Water Well #1, Booster Stations and Reservoir

Bell Gardens, CA

The scope of work provided by our team included the development of well improvements and piping to a new reservoir with subsequent booster station to deliver water at a constant pressure to the customers. The new reservoir provides needed fire flow and operational benefits to the customers mitigating the need for imported Metropolitan Water District of Southern California (MWD) water. The city's well was turned off due to reaching the notification limits for perfluorooctane sulfonic acid (PFOS). Our team worked with the state to obtain funding for a total project including treatment for the well water prior to entering the reservoir, then booster station. This shows how projects can change due to impacts of regulations. The work involved direct coordination with the state and the Division of Drinking Water (DDW) for compliance with permitting and operational permits. All work was funded by the state through a grant. The city also utilized Besst and Q3 services on this project.

Client Name
City of Bell Gardens, CA

Client PM Contact
Bernardo Iniguez
p: 562.806.7770
e: biniguez@bellgardens.com

Schedule
2018 - Ongoing

Services Provided
- Civil Engineering
- Potable Water

Key Staff
Aidan Mousavi - Project Manager
Christopher Ley - Senior Civil Engineer

Butterfield Sewer

Poway, CA

This project involves removing and replacing surcharging pipes along Ash Hollow Crossing Road, Espola Road, and Cloudcroft Drive between Butterfield Trail and southeastern corner of The Farm development. The existing 8-in pipeline is more than 50 percent full under existing peak dry weather conditions. The pipeline is surcharged under existing peak wet weather conditions for both the 5-year and 25-year modeled storm events. Approximately 2,900 ft of 8-in diameter pipe will be replaced with 12-in diameter pipe as shown in the provided attachment. The sewer pipes and manholes to be removed and replaced as a part of this project are within existing sewer easements or city right-of-way. Some portions of the sewer to be replaced are within a San Diego County Water Authority (SDCWA) easement and / or crossing SDCWA pipelines within the Espola Road right-of-way.

Client Name
City of Poway, CA

Client PM Contact
Sara Trunzo
p: 858.668.4622
e: strunzo@poway.org

Schedule
2023 - Design Ongoing

Services Provided
- Water / Wastewater / Storm Water

Key Staff
Chelisa Pack - Project Manager

E Qualifications (Cont'd)

Long Beach Boulevard Improvement Project

Lynwood, CA

"2020 American Public Works Association (APWA) Southern California Chapter Project of the Year" award winner. Our team provided construction management, inspection, and labor compliance for this project that involved roadway resurfacing of 192,779 sq. ft. with a section of 2-in AC top course and 1-in AC leveling course and 40,000 sq. ft. with a section of 2-inch of asphalt rubber hot mix (ARHM) over ½-in strain alleviating membrane interlayer (SAMI) sealant and 1-in leveling course. Concrete improvements included 4-in sidewalk, driveway approaches, cross gutters, curb and gutter, curb ramps, installation of 16 detectable warning surfaces on existing curb ramps, and construction of six new bus pads. Our inspectors provided compliance with plans, specifications, and the contract; oversaw traffic control, and provided daily log and inspection report entries, including pictures of the project. Reviewed and reported contractor claims, prepared weekly update reports, and reviewed contractor's invoices, verified completed work and approved all quantities.

Client Name
City of Lynwood, CA

Client PM Contact
Julian Lee
p: 310.603.0220
e: jlee@lynwoodca.gov

Schedule
12/2017 - 06/2020

Services Provided
- Civil Engineering
- Construction Management
- Utility Coordination

Key Staff
Aidan Mousavi - Project Manager

Downtown Beautification

Baldwin Park, CA

The scope of work included replacing existing streetlight and traffic signal infrastructure with new decorative infrastructure designed to identify and create visual points of interest that highlight and activate the Baldwin Park community. The aesthetic features of the new infrastructure also served as a catalyst to stimulate existing commercial centers within downtown Baldwin Park. The goal was for the city to be recognized as a community of a well-planned neighborhood and to be aesthetically pleasing with physical characteristics that act as the cornerstone for developing streetscape beautification guidelines. Branding for the Downtown Beautification Project included streetscape enhancements and decorative poles designed to tie-in with the new infrastructure including, but not limited to, decorative pavement in the parkway and crosswalks, entry monument signs in the center medians and installation of a public art centerpiece on Ramona Boulevard.

Client Name
City of Baldwin Park, CA

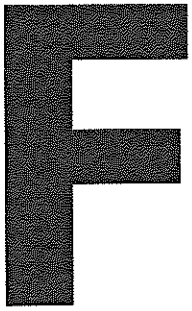
Client PM Contact
Romany Basilyous
p: 626.960.4011 ext. 459
e: rbasilyous@baldwinparkca.gov

Schedule
2019 - 2021

Services Provided
- Civil Engineering
- Construction Management

Key Staff
Aidan Mousavi - Project Manager

Appendix: Forms, Resumes and Graphics



F Appendix: Forms, Resumes and Graphics

REQUEST FOR PROPOSAL

VENDOR APPLICATION FORM

TYPE OF APPLICANT: ☒ NEW ☐ CURRENT VENDOR

Legal Contractual Name of Corporation: Bowman Consulting Group Ltd.

Contact Person for Agreement: Farzad Dorrani

Corporate Mailing Address: 3060 Saturn Street, Suite 250

City, State and Zip Code: Brea, CA 92821

E-Mail Address: fdorrani@bowman.com

Phone: 714.982.5032 Fax: N/A

Contact Person for Proposals: Justin Wiekamp

Title: Marketing Specialist E-Mail Address: jwiekamp@bowman.com

Business Telephone: 714.982.5060 Business Fax: N/A

Year Business was Established: 1995

Is your business: (check one)

☐ NON PROFIT CORPORATION ☒ FOR PROFIT CORPORATION

Is your business: (check one)

☒ CORPORATION
☐ INDIVIDUAL
☐ PARTNERSHIP
☐ LIMITED LIABILITY PARTNERSHIP
☐ SOLE PROPRIETORSHIP
☐ UNINCORPORATED ASSOCIATION

1 of 2

Names & Titles of Corporate Board Members
(Also list Names & Titles of persons with written authorization/resolution to sign contracts)

Names	Title	Phone
Gary P. Bowman	Chairman	703.464.1000
James P. Laurito	Director	703.464.1000
Patricia Mulroy	Director	703.464.1000
Stephen A. Riddick	Director	703.464.1000
Raymond Vicks, Jr.	Director	703.464.1000
Farzad Dorrani	Principal & Branch Mgr.	714.982.5032

Federal Tax Identification Number: 54-1762351

City of Huntington Beach Business License Number: Upon award
(If none, you must obtain a Huntington Beach Business License upon award of contract.)

City of Huntington Beach Business License Expiration Date: Upon award

Disciplines of Civil Engineering Services Application Form

Circle all that apply

Civil Engineering Service Area	Bidding? Y/N (circle)
• Water/Sewer/Storm Water Engineering	(Yes) / No
• General Civil Engineering	(Yes) / No
• Ocean Engineering	(Yes) / No
• Environmental/Water Quality	(Yes) / No

References of Work Performed Form

(List 5 Local References)

Comany Name: Bowman Consulting Group Ltd.

1. Name of Reference: City of Bell Gardens, CA

Address: 8327 Garfield Avenue, Bell Gardens, CA 90201

Contact Name: Bernardo Iniguez Phone Number: 562.806.7770

Email: biniguez@bellgardens.com

Dates of Business: 2018 - 2020

2. Name of Reference: City of La Mesa, CA

Address: 8130 Allison Ave, La Mesa, CA 91942

Contact Name: Michael Throne Phone Number: 619.667.1388

Email: pwdir@cityoflamesa.us

Dates of Business: 11/23/23 - Ongoing

3. Name of Reference: City of Poway, CA

Address: 13325 Civic Center Dr, Poway, CA 92064

Contact Name: Sara Trunzo Phone Number: 858.668.4622

Email: strunzo@poway.org

Dates of Business: 2023 - Ongoing

4. Name of Reference: City of Baldwin Park, CA

Address: 14403 Pacific Avenue, Baldwin Park, CA 91706

Contact Name: Romany Basilyous Phone Number: 626.960.4011 ext. 459

Email: rbasilyous@baldwinparkca.gov

Dates of Business: 2019 - 2021

5. Name of Reference: City of Lynwood, CA

Address: 11330 Bullis Road, Lynwood, CA 90262

Contact Name: Julian Lee Phone Number: 310.603.0220

Email: jlee@lynwoodca.gov

Dates of Business: 12/2017 - 06/2020

F Appendix: Forms, Resumes and Graphics (Cont'd)

Farzad Dorrani, MS

Principal-in-Charge

Education

M.S. Civil Engineering, Queen's University of Belfast, U.K.

B.S. Civil Engineering, University of Ulster, U.K.

Farzad Dorrani has 38 years of experience in a variety of civil engineering projects. He has worked extensively on major infrastructure and public works improvement and rehabilitation projects throughout southern California for various agencies, such as the cities of La Puente, Montebello, Anaheim, Irwindale, Malibu, as well as the Alameda Corridor-East Construction Authority. Farzad's experience includes roadway design projects, parks, and downtown revitalization design projects, contract procurement, construction management, project management and administration.

Experience

Lincoln Park Improvement | *City of Anaheim, CA*
Principal-in-charge responsible for project management and design review for this project that improved the park's traffic movement, parking, pedestrian access, drainage, roadway pavement, install a raised median with a park monument sign, and provide infrastructure for a future restroom building.

HSIP Cycle 8 - Various Intersection Improvements | *City of Bell Gardens, CA*
Principal-in-charge responsible for high-lever oversight of the preparation of PS&E, project management, administration, construction management and inspection, fund administration and labor compliance for the intersections at Eastern Avenue and Lubec Street and Garfield Avenue and Loveland Street. The project also included the addition of video detection on all intersection approaches and the reconstruction of the pavement within the intersection with concrete. The signal design included field surveys, signing and striping, geotechnical investigations. Bid package was prepared and submitted to city.

HSIP Cycle 7 Project - Various Intersections Improvements | *City of Montebello, CA*
Principal-in-charge responsible for oversight of our team providing the preparation of PS&E for roadway improvements, pavement rehabilitation, concrete improvements, ADA improvements and utility adjustments at three intersections: Garfield Avenue and Whittier Boulevard, Garfield Avenue and Via Campo, and Via Campo and Findlay Avenue.

ATPL Federally Funded Project, ATPL 5373, Citywide Safety Enhancement | *City of Bell Gardens, CA*
Project manager responsible for safety improvements to the intersections at Eastern Avenue and Lubec Street Intersection and

**Experience prior to joining the firm*

Farzad Dorrani, MS *(page 2)*

Principal-in-Charge

Garfield Avenue and Loveland Street Intersection. Our team provided PS&E, project management, administration, construction management and inspection, fund administration and labor compliance for this project.

Arroyo Drive Improvements | *City of Montebello, CA*
QA / QC reviewer and project manager for oversight of our team who provided design, project management, bidding of contract, construction management and inspection, as well as federal fund administration for this project that involves removal of existing AC paving and paving of AC pavement and concrete improvement reconstruction, including replacing existing curb and gutter, sidewalk, driveway approaches, access ramps, and adjustment of utility covers, traffic striping, markers, pavement markings and curb painting. The project ran from Arroyo Drive from Astra Drive to Rose Glen Avenue.

Pavement Repairs and Skin Patch of Various Streets CDBG Zone | *City of Montebello, CA*
QA / QC reviewer and project manager responsible for oversight of design, project management, bidding, award of contract, construction management and inspection as well as federal fund administration and labor compliance of various streets pavement repairing and skin patching as agreed with the city to complete as much of the street improvements within the fixed project budget.

Eastern Avenue and Florence Avenue Regional Surface Transportation Improvements | *City of Bell Gardens, CA*
Project manager responsible for project oversight which included the construction of two westbound left-turn lanes with a new west-bound dedicated right-turn lane to increase the intersection capacity in the westbound direction. The westbound leg is the only leg without dual left-turn lanes or dedicated right-turn lane. The intersection underwent new pavement reconstruction. The existing 7-in asphalt concrete (AC) over a 10-in aggregate base (AB) section was upgraded to a 10-in Portland Cement Concrete (PCC) pavement over 12-in AB section; increasing the service life and structural capacity of the intersection. Traffic signal system components for the intersection were upgraded as well. The existing traffic signal poles were upgraded from 80 mph design poles to 100 mph design poles (current Caltrans standard), a new P cabinet will be installed as well as new luminaries and full intersection video detection for all traffic movements.

**Experience prior to joining the firm*

F Appendix: Forms, Resumes and Graphics (Cont'd)

Masoud Sepahi, PE, LEED GA

QA / QC Engineer

Education

B.S. Civil Engineering, Loyola Marymount University

Structural / Civil Engineering, California State University, Northridge

Registrations

Professional Civil Engineer: California (#52786)

Leadership in Energy and Environmental Design, Green Associate (LEED GA)

Masoud Sepahi has over 37 years of experience working for both public agencies in addition to the private sector, managing a variety of large and complex public works and capital improvement projects. He has held various leadership positions in managing a variety of projects for major public works programs. As the city engineer for the City of Placentia, he was responsible for delivery of many projects. As the director of construction management for the Los Angeles Metropolitan Transportation Authority, Masoud was responsible for the southern portion of the Crenshaw / LAX Transit Project. During his tenure with LA Metro, Masoud was responsible for management of all construction on the southern segment of the project, including major utility relocations. Working for the City of Los Angeles for 10 years, Masoud held various positions, managing many types of public improvement projects.

Experience

Various Projects | *Brea, CA*
As the director of city engineering and construction management services, Masoud is responsible for leading Bowman's engineering and construction management team for multiple municipalities in the southern California region. Duties include oversight and quality control for city engineering and construction management services in addition to interaction with our clients for delivery of all the services. Masoud is also responsible for implementing the company's overall performance, for every PM / CM contract to ensure quality service is provided to our clients. Other responsibilities include staff training and guidance to all project managers, construction managers and reporting to the executive level management related to company's financial goals and objectives.

Various Projects* | *City of Placentia, CA*
As city engineer Masoud's responsibilities included management and processing of all public works encroachment permits in addition to all other city engineering and management functions. Masoud was responsible for plan check, design review, and inspections associated with private developments throughout the city. He assisted the director of public works with preparation of the capital improvement program (CIP) budgets and monitored the expenditures in conformance with the department's goals and objectives. He managed all design and construction contracts associated with the public works CIP program to ensure delivery of projects on time and on budget. Masoud supervised and assigned work to in-house engineering, maintenance staff and consultant staff associated with CIP and plan-checking activities. His responsibilities also included negotiating and enforcing design and

**Experience prior to joining the firm*

Masoud Sepahi, PE, LEED GA *(page 2)*

QA / QC Engineer

construction contracts, cooperative agreements, interacting with other cities and agencies, license agreements, lease agreements, schedules, and work plans to ensure projects were completed within expected timelines, material specifications, and budget. He reviewed change orders, evaluated budgets, costs, and technical feasibility. Conducted staff meetings with city personnel; attended meetings with other city departments, government agencies, private developers, contractors, and consultants to coordinate various projects and programs. Prepared schedules and budgets for various projects and assist with preparation of the CIP and grant applications. Reviewed and approved tract maps, parcel maps, lot-line adjustments and provided advice to the city administrator, planning and city council regarding engineering and administrative issues. Prepared agenda reports on various actions required by the city council. Attended city council, planning commission, traffic commission, and other public meetings and made presentations on various engineering and construction proposals, contracts, engineering reports, and staff recommendations.

Various Projects* | *City of Los Angeles, CA*
As the director of construction management for the Los Angeles Metropolitan Transportation Authority, Masoud was responsible for the southerly portion of the Crenshaw / LAX transit project. This project was an eight-and-a-half-mile light-rail line, which connects the Expo Line on Exposition Boulevard to the Metro's Green Line at the Los Angeles International Airport. This $2B project consisted of eight Stations, eight aerial bridges over major streets and the I-405 Freeway. During his tenure with LA Metro, Masoud was responsible for management of all construction on the southern segment of the project, extending from the Green Line station to the outside of City of Inglewood. His responsibilities included management of the entire construction staff, reporting to executive management on construction progress and issues in addition to interfacing with the city officials, utility agencies, contractors, and designers. Also, working for Metro, Masoud was responsible for the management of three major Advanced Utility Relocation Contracts as part of the Purple Line Corridor Project. This project extended the terminus at Wilshire / Western westward for about nine miles with seven new stations. He performed resident engineering for three major contracts under this $4B transit project. Responsible for all of the utility relocations at three major intersections, La Brea and Fairfax in the City of Los Angeles and La Cienega at the City of Beverly Hills. Duties included management of construction and design staff, interaction with utility agencies, contractors, designers and city officials.

**Experience prior to joining the firm*

Aidan Mousavi, MBA, PE, TE, QSD

Design Principal

Education

M.B.A. General, California State Polytechnic University, Pomona

B.S. Civil Engineering, California State Polytechnic University, Pomona

Registrations

Professional Civil Engineer: California (#91136)

Professional Traffic Engineer: California (#3116)

Qualified SWPPP Practitioner (QSP) / Qualified SWPPP Developer (QSD): California (#91136)

Aidan Mousavi's professional focus is primarily in the field of city engineering and environmental infrastructure by providing civil engineering assistance to public works and engineering departments. He also works closely with cities to ensure compliance with the National Pollutant Discharge Elimination System (NPDES). Aidan has developed strategies for the efficient use of Best Management Practices (BMPs), thus gaining a set of skills that assists municipalities with compliance and helps keep them under budget. Aidan is familiar with municipal protocols and works within these structures to conduct field inspections and develop annual compliance reports. As an MBA graduate, Aidan brings his academic knowledge to work with our operations manager to manage all capital improvement program (CIP) and non-CIP projects.

Experience

Montebello Boulevard Beautification Project | *City of Montebello, CA*
Engineer team leader for design plans, specifications, and estimate for street widening, new curbed medians, class II bicycle lanes, new sidewalk, and signal modifications. Coordinated efforts with landscape architects and employed hydrologic analysis for new percolation systems. Improvements included hundreds of new trees and tree wall, street lights, AC improvements and various concrete improvements including new ADA ramps. Coordination efforts with California Department of Fish and Wildlife (CDFW) to protect nesting of birds due to the potential impact of the roadway widening adjacent to a natural reserve.

NPDES Watershed Management Plan and Integrated Monitoring Program Coordination | *City of Bell Gardens, CA*
Project manager. The NPDES permit, which is authorized by the Clean Water Act (CWA), was issued by the regional water quality control board. The purpose of the permit was to ensure the MS4 permits in the County of LA were not causing or contributing to exceedances of water quality objectives set to protect the beneficial uses in the receiving waters in the LA region. Aidan worked with a variety of agencies.

NPDES Watershed Management Plan and Integrated Monitoring Program Coordination | *City of Montebello, CA*
As project manager, Aidan represented the City of Montebello during all of their negotiations and participation in subregional watershed management programs. He worked with a variety of agencies to customize the city's storm water programs by using BMPs to achieve compliance. Aidan coordinated with the LA County Flood Control

**Experience prior to joining the firm*

Aidan Mousavi, MBA, PE, TE, QSD *(page 2)*

Design Principal

District and 14 other cities in LA and worked on developing the strategy, design, and implementation of a WMP and a CIMP. As the city's representative, he attended all watershed meetings and provides the reports to the city engineer. Aidan also conducted commercial and industrial inspections for all businesses in the City of Montebello and provided all documentation, as required by the permit. With the collaboration of engineering, code enforcement, building, street maintenance, planning and relevant contracted services, Aidan developed the annual report for the city, identifying methods used to meet compliance as well as providing calculations for scientific justification.

Lilita Street and Eve Avenue Storm Drain Improvement | *City of Lynwood, CA*
Project manager responsible for conducting a field investigation to identify cause of flooding issue. Drafted a hydrology and hydraulics report to identify issues and provided two solutions to alleviate flooding. Developed plans to address flooding through use of drywells and developed alternative plans to direct connect proposed storm tank to existing storm drain main line.

Slauson Avenue Congestion Relief Improvement Project | *City of Huntington Park, CA*
Project manager responsible for hydrology and hydraulics analysis to divert and treat runoff from two-mile long corridor along Slauson Avenue. Designed BMPs to treat runoff and make street into a green street. Ran Synchro Simulation for ten signalized intersections for LOS analysis, coordination and timing. Designed plans and specifications for signal system upgrades and street widening.

ATP Cycle 2, Unprotected Crosswalk Safety Enhancement Improvements | *City of Huntington Park, CA*
Associate engineer responsible for revising and completing the plans (39 sheets), specifications and estimates which had been prepared by TransTech. The scope included 22 intersection improvements for pedestrian accessibility and safety. The city also requested our team to obtain E76 for construction since it has only obtained Preliminary Environmental Study (PES) certifications from Caltrans. To complete the E76 process, the right of way certifications and request for construction was required before completion, this process took between 6-8 weeks after completion of the 100% PS&E documents.

**Experience prior to joining the firm*

Nicholaus P. Marcotte, PE

Department Executive, Director of Water and Waste Water

Education

B.S. Civil Engineering, University of Kansas

Registrations

Professional Civil Engineer: Colorado (#47164), Kansas (#23806), Wyoming (#16199)

Nick has over 17 years of experience in civil engineering including project management, client management, wastewater treatment and collection design, water treatment and distribution design, master planning, contract documents, construction observation, and grant funding assistance.

Experience

Center Sanitation District Wastewater Treatment Plant Improvements | *Center, CO*
Project Manager. Managed design of 0.60 MGD activated sludge wastewater treatment plant to replace lagoon system. Acted as project and client manager including oversite of design, budget, and funding. Plant was designed to meet stringent effluent groundwater limits including total inorganic nitrogen limit of 10 mg / L and total coliform limit of 2.2 per 100 mL. Design included: influent lift station, headworks, hybrid continuous flow / sequencing batch reactor activated sludge system, tertiary filter, UV disinfection, and sludge handling. Obtained and managed funding for project design and construction through CDPHE, DOLA, and USDA.

Greatrock North Water and Sanitation District Water Treatment Plant Improvements | *Adams County, CO*
Project manager. Design, bidding, and construction management of a 200 GPM reverse osmosis water treatment plant improvement project. Services included preliminary bidding and pre-qualification of reverse osmosis equipment, design and permitting through CDPHE, and land use permitting through Adams County.

City of Ouray Wastewater Treatment Plant Improvements | *Ouray County, CO*
Project manager. Planning and design of a 3 MGD ultra-filtration water treatment plant for the City of Ouray. The city's water source was determined to be groundwater under the influence of surface water and required a fast tracked treatment plant design. Element worked with the city to complete CMAR bidding, design, permitting, and funding of the project.

Lake Forest Mutual Water Company Water System Improvements | *Grand Lake, CO*
Project Manager. Acted as project and client manager for water system improvements project including 12,500 LF of water distribution pipe, pressure reducing valves, 45,000 gallon potable water storage tank, and distribution pumping system. Coordinated between company

**Experience prior to joining the firm*

Nicholaus P. Marcotte, PE *(page 2)*

Department Executive, Director of Water and Waste Water

representatives and design team to determine appropriate pipe alignment based on narrow utility corridors and mountainous terrain. Compiled EJCDC contract documents in accordance with USDA requirements. Managed funding for project design and construction through USDA.

Wastewater Treatment Plant Improvements | *Hugo, CO*
Managed design of 0.085 MGD evaporative pond system and associated lift station to replace un-aerated, un-lined lagoon system not capable of meetng CDPHE effluent limits. Coordinated with CDPHE and client to manage design, permittng, funding, and floodplain details.

Wastewater Treatment Plant Improvements, Activated Sludge | *Project Manager and Project Engineer*
Managed and designed activated sludge wastewater treatment plants including flow monitoring, lift station, headworks, secondary treatment, tertiary filter, UV disinfection, and chlorine disinfection. Designed to meet stringent effluent ammonia, total inorganic nitrogen, and total coliform limits. Compiled and managed the compilation of design reports, construction drawings, and contract documents. Projects include: Center Sanitation District | Edgemont Ranch Metropolitan District | Town of Alma | Town of Red Cliff

Wastewater Treatment Plant Improvements—Lagoons | *Project Manager and Project Engineer*
Managed and designed lagoon wastewater treatment plant improvements including flow monitoring, lift station, headworks, complete mix and partial mix lagoons, cold weather nitrification technologies, chlorine disinfection, hydraulic re-rating, and discharge point relocation. Designed to meet effluent BOD, TSS, ammonia, and Regulation 84 re-use limits. Compiled and managed the compilation of alternative technology reports, design reports, construction drawings, and contract documents. Projects include: Kremmling Sanitation District | Fairways Metropolitan District | Town of Del Norte

Evaporative Wastewater Treatment | *Project Manager and Project Engineer*
Managed and designed non-discharging evaporative wastewater treatment ponds as low maintenance alternatives to discharging lagoons or activated sludge plants. Compiled and managed the compilation of design reports, construction drawings, and contract documents. Projects include: Town of Hugo | Town of Eckley | Town of Wiley | Town of Bethune | Town of Ramah

**Experience prior to joining the firm*

F Appendix: Forms, Resumes and Graphics (Cont'd)

Vijay Agrawal, PE

Principal, EVP of Ports & Harbors

Education

M.S. Civil Engineering, Lamar University, Beaumont, TX

Master of Structural Engineering, MS University, Gujarat, India

B.S. Civil Engineering, SP University, Gujarat, India

Registrations

Professional Engineer: Texas (#132615)

Associations

Current Chair, American Society of Civil Engineers, Coasts, Oceans, Ports & Rivers Institute (ASCE COPRI) , Asset Management Task Subcommittee on Conditions Assessment

Advisory Board Member, Lamar University Center for Advances in Port Management

Advisory Board Member, Broward College Supply Chain Management Program

Areas of Expertise

New Port Feasibility Studies
Port Master Planning
Asset Management
Port Automation
Port Electrification and Decarbonization
Freight Studies
Financial Analysis Valuation

Vijay is a professional Civil Engineer and Port Planner with 25 years of experience in Global Ports, Freight and Intermodal transportation infrastructure development projects with emphasis on efficiency improvement, emissions reduction, and optimization of capital and operating cost of moving freight and people. Vijay has led and managed more than 60 Port and Intermodal Projects worldwide for development of efficient movement of cargo and people with scope of work ranging from strategic master planning, detail terminal planning to detail design and construction supervision.

Vijay has deep interest in bring VALUE with integrated offering of Asset Management and technology solutions offering clients new and innovative ways to manage Port assets, optimize terminal operations and maintenance and undertaking simulation modeling services to increase production and throughput of conventional and automated terminals with optimum resources. Vijay has authored several papers in the industry conferences and publications and currently serving as the Chair on ASCE COPRI Asset Management subcommittee on Conditions Assessment; as well as in the advisory Board Member capacity for the Center for Advances in Port Management in Lamar University and for the Broward College – Supply Chain Management Program, bringing Port industry knowledge to academia.

Experience

Port of Los Angeles Capacity Analysis* | *Los Angeles, CA*
Project manager responsible for analysis of Port's existing and planned marine terminals capacity, taking into account recent and projected trends in the port industry to handle the expected container cargo in 2025. The project scope involved using the Terminal Inventory Simulation Program to determine the peaking factors in various scenarios for each facility. Prepared the final capacity analysis report and developed a spreadsheet capacity model

West Cost Labor Utilization Study for the Pacific Maritime Association*
Lead analyst for conducting a comprehensive review of best available marine terminal technologies worldwide. Responsible for developing a spreadsheet model to calculate impact of technology implementation and work practice changes on labor demand at 31 West Coast container terminals in the USA in support of PMA negotiations with labor union in 2002.

**Experience prior to joining the firm*

Vijay Agrawal, PE *(page 2)*

Principal, EVP of Ports & Harbors

Terminal Operating Systems Benchmark Study | *Stevedoring Services of America*
Lead analyst for a study to compare SSA's Terminal Operating System (TOS) with the systems used by other terminals in the Los Angeles Basin. Reviewed and benchmarked client's TOS functionality, reliability, support staffing, user training, data entry requirements, interface with outside parties, truck turn-times, and costs.

EuroMax Container Terminal, P&O Nedlloyd | *Rotterdam, Netherlands*
Responsible for conceptual planning, design and simulation analysis of one of the first fully-automated container terminals on a Greenfield site in Northern Europe. Work involved the comparison of automatic stacking cranes and automatic overhead bridge cranes to move cargo between the wharf and truck transfer / rail yard areas using automated straddle carriers in the yard.

Pier 300 Terminal for American President Lines | *Port of Los Angeles, CA*
Lead analyst responsible for the simulation analysis and conceptual terminal design and planning of a new 226-acre marine container terminal with an on-dock rail interchange yard.

Georgia Ports Authority 10M TEU Capacity Regulatory Strategy | *Savannah, GA*
Port planner providing strategic consulting on preparing regulatory strategy for building the capacity to handle up to 10M TEU throughput and on-call assistance with facility planning and design of infrastructure projects. Provided advisory services on various GPA projects including capacity upgrade projects at Garden City Terminal, offsite container terminals West and East PCS, Savannah River Channel Capacity Analysis and Simulation modeling, as well as strategy to develop Ocean Container Terminal.

87 Acres Barbous Cut Container Yard Upgrade* | *Houston, TX*
Project manager leading the team and 5 sub-consultants to deliver master planning, 30% design, detail design, bid support and construction support services for upgrading 87 acres of operating container yard with new pavement and utilities. Project scope includes managing risk register, environmental assessment and compliance with $90M INFRA grant received on the project. Project is under construction in several phases. Phase 1 and 2 have been completed and Phase 3 is in works with terminal operational during the construction. The project cost is approximately US$250M.

**Experience prior to joining the firm*

Santosh Kuruvilla, PE, SE, PMP

Director, EVP of Structural Engineering

Education

Ph.D. Studies and M.S. Civil Engineering, Washington State University

B.S. Civil Engineering, Birla Institute of Technology, India

Registrations

Professional Engineer: California (#51282)

Structural Engineer: California (#3901)

Certifications

Project Management Professional, Project Management Institute (#02935)

Professional Affiliations

Board Member and Engineers Representative, Washington State Department of Enterprise Services Capital Project Advisory Review Board (CPARB)

Co-Chair, CPARB Business Equity / Diverse Business Inclusion Committee

American Council of Engineering Companies (ACEC) Washington Chapter WSDOT Business Administration Committee

Santosh Kuruvilla brings more than 30 years of transportation and project management experience in complex and large-scale transportation projects. His expertise covers roadway corridor, widening and design; and bridge analysis, design, and seismic retrofits and rehabilitations, especially in an urban setting. He has managed all aspects of complex urban design projects—including environmental process, utility relocation, and cost savings alternatives for bridge and roadway widening, and construction phasing and construction management services. His experience includes the management and coordination of the structural design of buildings, tunnels, bridges, port and waterfront facilities, and civil design for urban and waterfront infrastructure. He is a strategic thinker and problem solver and a valued and trusted engineering advisor.

Experience

Downtown Bremerton Waterfront Revitalization | *Bremerton, WA*
As principal-in-charge, Santosh oversaw planning, development of alternatives and cost estimates, environmental permitting, and civil and structural engineering design services for projects totaling over $70M. Project elements included:

- Shoreline protection modifications to seawalls and riprap for new CSO line
- Concrete floating breakwater structure
- A new 970-foot cut-and-cover tunnel for vehicles exiting the Washington State Ferry terminal, that incorporated anti-terrorism / force protection (ATFP) standards and blast design
- New roadway, roadway widening, and streetscape design (including ferry access) across challenging topography in a dense urban setting
- Improved pedestrian and bicycle circulation and safety
- Significant utility and storm drainage design and coordination
- Coordination with multiple public agencies and public and private stakeholders

Elliot Bay Seawall Independent Cost Estimate Cost Estimate and Design / Constructability Recommendations | *Seattle, WA*
At 10% design, our team was hired by the Seattle Department of Transportation to provide independent cost estimate and design / constructability recommendations for the three alternatives that had been identified for further evaluation through the ongoing

**Experience prior to joining the firm*

Santosh Kuruvilla, PE, SE, PMP *(page 2)*

Director, EVP of Structural Engineering

development of the structural design solutions and public / habitat enhancements associated with the project. As our project manager, Santosh oversaw development of independent cost estimates on the 10% design of the three alternatives. Our team prepared a Final Report that included detailed quantities (based on 10% design), and unit costs developed for each of the alternates and respective sub elements; 10 cost savings opportunities were identified creating potential total project savings in the range of $88 to $98M.

Elliot Bay Seawall Replacement | *Seattle, WA*
Deputy project manager for final design of the superstructure, wall, and sidewalk system, for the gravity wall structural elements of the Elliott Bay Seawall Project Central Segment located in Zones 1 and 2 of the project. Also included was the new seawall structure adjacent to the Seattle Fire Station, the temporary support for the existing Marion Street Pedestrian Bridge, and a new foundation for the National Historic Register-listed Pergola at Washington Street along the waterfront. The design involved determining preliminary geometric requirements such as span lengths, structure dimensions, superstructure types and arrangement, elevations, clearances, foundation types, debris containment concepts, and temporary shoring concepts.

North Marina Lot and Bulkhead Replacement | *Des Moines, WA*
Principal-in-charge of project that successfully replaced the aging, failing infrastructure with a seismically resistant system and met nearshore restoration goals. It has created safe and inviting pedestrian areas, providing facilities and amenities that serve the general public, the boating community, and at the same time, reinforces the city's unified, thematic waterfront design theme. The project supports the Marina's role as a vital centerpiece of the community. Our team led the design of replacement bulkhead and breakwater structures and provided overall project management; civil, structural, and utilities engineering; environmental permitting and agency coordination; construction plans, specifications, and cost estimates; bid support; and construction management and inspection services. Our team delivered a cost-effective, highly constructible Parking Lot Bulkhead and Breakwater design that showcased best practices for structural, civil, and ocean engineering: employing cost effective conventional, low-risk construction techniques while incorporating unique features that are protective of life and the sensitive marine environment.

Structural Analysis and Evaluation of Hangar 1 | *Moffett Field, CA*
Santosh was the principal-in-charge of the gravity, seismic, and wind vulnerability study of the historic hangar. The study included evaluation

**Experience prior to joining the firm*

Santosh Kuruvilla, PE, SE, PMP *(page 3)*

Director, EVP of Structural Engineering

of subsurface condition including liquefaction and its impact on the analysis of structure and its foundation system.

Marine Corps Reserve Training Center | *Naval Air Station, Lemoore, CA*
Santosh was the principal-in-charge of the preliminary, development, pre-final, and final design of the Marine Corps Reserve Training Center (MCRTC). Our team provided design recommendations, prepared a 3-D finite element model of the buildings, performed gravity and lateral design services, and provided a complete set of drawings.

Replace Crane 172 at Powerhouse N114, Study and Design-Build RFP Preparation | *San Nicolas Island, CA*
Santosh led team delivering study to determine the most feasible and cost-effective solution to repair, replace, or upgrade the existing crane systems in Powerhouse N114. Two cranes with different capacities were used in this project. Both cranes are used to maintain prime power generating units.

Seismic Vulnerability Studies for Seven Historical Buildings | *Marine Corps Recruit Depot, San Diego, CA*

Marine Corps Air Station Main Gate Blast Wall Construction | *Camp Pendleton, CA*

Reservoirs 24174 and 2491 and 10-in Water Line | *Camp Pendleton, CA*

Taxiway Signs and Lighting | *Camp Pendleton, CA*

Marine Corps Air Station Building 2525 Conversion to Recreation Center | *Miramar, CA*

Buildings P-520 and P-176 Design-Build RFP Preparation | *Pt. Hueneme, CA*

Marine Corps Air Station Miramar APOE-Air Passenger Terminal P-025 | *San Diego, CA*

Building 241 Rehab at Naval Weapons Station | *Seal Beach, CA*

Building 56 Rehab at Naval Weapons Station | *Seal Beach, CA*

**Experience prior to joining the firm*

F Appendix: Forms, Resumes and Graphics (Cont'd)

Marina Wurst, PE

Principal, Director of Storm Water

Education

B.S. in Civil Engineering, Pennsylvania State University

Registrations

Professional Engineer: California

Associations

Society of Hispanic Professional Engineers, Member

BIA of Orange County, Member

BIA of Riverside County, Member

Marina is an Assistant Vice President at our firm specializing in land development engineering and project management. Marina is a registered civil engineer with over 27 years of experience in managing several multi-million dollar projects throughout Southern California.

Experience

Millenia Fairfield Apartments | *Chula Vista, CA*
Project manager responsible for this project that entailed construction of 273 apartment units within the Millenia Development. This was the first project entitled, permitted, and constructed in the Millenia development. Our team prepared all of the entitlement and construction permits required for the city of Chula Vista, along with construction support services. This project will be the first of many within the up and coming development of the 230-acre Millenia project.

Bressi Ranch | *Carlsbad, CA*
Project manager responsible for planning, entitlement, and final engineering on a 585-acre property, consisting of 2.1 million sq. ft. of industrial / commercial, 525 single-family residences, 100 multi-family affordable units and over 12 acres of community facilities. Successfully managed this 12-year project from entitlements through project build-out, with responsibilities including processing and approval of the EIR, Master Plan, LFMP, Tentative Maps, Final Engineering, Final Mapping and all Building Permits.

3Roots | *San Diego, CA*
Our firm provided planning, engineering, water resources, and surveying services on an innovative mixed-use community with a much-needed 25 acre community park. The project site is a former mining operation. The project features 1,800 residential units (multi-family, single-family, and 180 units of affordable housing), a 40 acre village core where 45% of the residential units are sited, and 40 acres of public parkland that include the community park, neighborhood parks, and a comprehensive trail system that provides linkages to off-site trail connections. The project will preserve nearly 60% of the site within open spaces and parks. The project will rehabilitate the existing creek and construct a significant portion of Carroll Canyon Road. The project is consistent with the City's approved Master Plan.

Rancho Bernardo Road Widening | *San Diego, CA*
Street improvement's purpose was to widen a two lane road into three lanes and included AC pavement design. The project required

**Experience prior to joining the firm*

Marina Wurst, PE *(page 2)*

Principal, Director of Storm Water

the introduction of a parkway retaining wall. Early analysis produced photorealistic simulations to better express the visual impact that this wall would have on the street. A solution was devised to introduce architectural element into the retaining wall to help incorporate and maximize the wall's aesthetic potential. In addition, climbing vines, colorful drought tolerant ground cover and shrub plantings were introduced to help to soften the street view of the retaining wall.

Tuscany West
Project manager responsible for final engineering on a 70-acre property, consisting of 164 single-family residences in the Lake Elsinore area. Coordinated with the City of Lake Elsinore, Riverside County agencies, and EVMWD to obtain project approvals and sufficient water and sewer capacity.

Tuscany Crest
Project manager responsible for final engineering on a 65-acre property, consisting of 221 single-family residences in the Lake Elsinore area. Coordinated with the city of Lake Elsinore, Riverside County agencies, and LAFCO to obtain approvals and sufficient water and sewer capacity.

Little Valley
Project manager responsible for final engineering on an 85-acre property, consisting of 134 single-family residences in the Lake Elsinore area. Coordinated with the city of Lake Elsinore, Riverside County agencies, and LAFCO to obtain project approvals and sufficient water and sewer capacity.

Wasson West
Project manager responsible for planning, entitlement and final engineering on a 65-acre property, consisting of 269 single-family residences. Marina worked with surrounding property owners, obtained Southern California Edison approval, and made successful presentations at Planning Commission and City Council hearings.

Elmore Ranch
Project manager responsible for validating 300 single-family and 200 multi-family residences in the Temescal Valley Area in Riverside County. Assisted in due diligence effort to identify and provide project costs, earthwork, sewer capacity, water capacity and storm drain designs.

**Experience prior to joining the firm*

Gary Hus

Principal, Director of Survey

Education

B.A. Applied Geography (Cartography), San Diego State University

A.A. Surveying, Palomar College

Registrations

Land Surveyor (LS): California (#7019), 1994

Certified Federal Surveyor (#1028), 2007

Associations

California Land Surveyors Association, Member

Gary Hus is a licensed land surveyor with more than 35 years of experience in boundary surveys, geodetic control, subdivision mapping, right-of-way mapping, construction calculations and coordinating field crew staking. He successfully applies technical and analytical skills to projects involving railroads, road rights-of-way, pipelines, water mains and related facilities, subdivisions, military installations, office complexes, records of survey and large master-planned communities includes recordation of survey in 12 different California counties.

Experience

SDSU Mission Valley Redevelopment Site | *San Diego, CA*
Survey Manager for the SDSU Mission Valley Redevelopment Site. This included the supervising of the survey team that performed the complex historic boundary and encumbrance survey on the project site and surrounding properties, Trolley LRT, Caltrans RW and connecting streets. The task included an ALTA Title Insurance Survey, aerial mapping, significant utility surveys and design data collection.

San Diego Unified Port District As-Needed Survey | *Port of San Diego, CA*
Overall Project Manager for successive "On-Call" Port survey contracts since 2007. I have managed over 50 tasks for both the Engineering and Real Estate groups at the Port. This role has been for both working with a Licensed Surveyor (LS) at the Port and during times where there has not been a survey manager. Tasks have included engineering design topo, (3) mean high tide line record of surveys, various lease plat exhibits and legal descriptions. In addition, Specific waterfront projects such as NEVP, IQHQ, Sea Port Village and the Convention Center expansion.

SDG&E As-Needed Survey Contract | *San Diego, CA*
Project Manager for providing as-needed surveying services for (20) years. Tasks typically include easement alignment surveys for natural gas and electric transmission lines and distribution lines. Work products include boundary surveys, topographic surveys, aerial topographic surveys, centerline profiles, easement / right-of-way map exhibits, and construction layout surveys.

San Diego County Water Authority (SDCWA) | *San Diego, CA*
Gary has been the Survey Manager for our firm working continuously with SDCWA since 2000 on various RW surveys. Services have included design surveys, utility surveys, right-of-way retracement surveys and

**Experience prior to joining the firm*

Gary Hus *(page 2)*

Principal, Director of Survey

mapping, appraisal maps, and legal descriptions. Significant projects have included the San Vicente 11-mile Aqueduct tunnel right-of-way survey with acquisition plats and legal descriptions and a final right-of-way filed Record of Survey. Another notable project is the recently completed San Vicente Dam Raise project which involved surveying 16 PLSS sections of city-owned watershed and filing Record of Surveys. We are currently on a multi-year "as-needed" surveying and mapping services contract.

San Dieguito Lagoon Wetlands Restoration | *Cities of San Diego and Del Mar, CA*
Survey Project Manager responsible for aerial topographies, staking, surveying, as-built surveys, boundary surveys, and land acquisitions for a 450-acre site within the San Dieguito Lagoon. This project won the 2011 ACEC Engineering Excellence Merit Award.

North County Transit District (NCTD) | *City of Oceanside, CA*
Project Surveyor for a five-year as needed contract. Tasks include design of a two-acre bus transit center, design of a caster station, design of a station platform extension, design of over 80 bus stop sites, and preparation and processing of plans through multiple jurisdictions.

Lake Hodges Reservoir | *City of San Diego, CA*
Project Manager for the survey team providing survey and mapping services on the City of San Diego-owned Lake Hodges Reservoir in the fall of 2013. The City Water Utility Department had a need to update the volume capacity of this 1100-acre city reservoir and contracted for updated accurate base mapping. This mapping included highresolution digital color ortho-imagery, upland watershed aerial topographic mapping, and a bathymetry survey of the bottom of the reservoir. The mapping was based upon first-order geodetic control and airborne-GPS. The bathymetry survey was prepared from a small vessel outfitted with a side-mounted Single Beam Echo Finder calibrated to a DGPS system with the deliverable in conformance with current U.S. Army Corp. standards. The aerial topographic mapping was prepared in conformance with national mapping accuracies and was combined with the bathymetry survey into a seamless topographic map of the reservoir bottom and watershed. The deliverable included a Digital Terrain Model (DTM) in the City of San Diego format to allow an accurate volume calculation. The project was delivered on schedule and budget.

**Experience prior to joining the firm*

SUBCONSULTANT BIOS

PA & Associates - Geotechnical

PA & Associates, Inc. is located in Laguna Hills, CA and has been in business for 33 years. We specializes in Engineering Geology, material testing and inspection, Geotechnical Engineering, as well as earthwork monitoring and testing. To ensure the highest professional standards, the firm assesses each project individually using experienced personnel from several disciplines. These services are provided to public and private organizations, municipalities, governmental agencies, and the land development industry throughout Southern California. Our services are provided during all phases of construction, including site acquisition, land planning, preliminary geotechnical design, grading, material testing, and inspection during construction. Post- construction services include forensic investigation of foundation, structural, pavement, slope or soil distress. We have an in-house City of Los Angeles certified soils laboratory and partner with C.E.M. Lab, a Caltrans certified laboratory. Utilizing advanced computer technology and the professionalism of our staff enables us to provide quality service which is timely and cost effective. We maintain a required professional liability insurance policy.

Certerra Subsurface Imaging C Below - Potholing

Our highly experienced technicians utilize the most advanced equipment in the industry. We locate horizontal and vertical locations of underground utilities including gas, power, waste, communications, and cable / TV. Many different methods are used to locate these utilities. These methods include GPR (ground penetrating radar), CCTV, utility locators, electromagnetic locators, and potholing. Accurate information is vital in planning and can prevent costly delays from damage caused by cutting, coring, drilling, or digging in areas congested by unforeseen hazards in concrete, masonry, and underground. Information can be provided in the form of pull box or electrical reports, potholing reports, underground mapping, 3D modeling, CAD drawings or simply marking surfaces.

C Below has been in the utility locating business for fourteen years (Founded in 2009) and employs the most experienced technicians in the industry, some with over twelve years of experience. With our corporate office located at 1385 Old Temescal Rd. Suite 100, Corona CA, 92881, where we can mobilize quickly throughout Central and Southern California. C Below currently has over eighty employees, including sixty-six technicians, the sales department, a Project Engineer, a surveyor, and a CAD technician. C Below's maintains a hand–on approach by researching and acquiring equipment that utilizes the most accurate technology available in the industry. DIR Registration Number: 1000003150

Prime X - SCADA

SJE® dba as PRIMEX® is a company providing engineered control solutions for water and wastewater clients. SJE has more than 500 employees across multiple locations in the United States and China. We are the largest provider of complete control solutions a broad end-to-end suite of products and services, including: standard pump control panels; full-featured, web-hosted icontrol® SCADA solutions; and highly industrial, and commercial applications. With thousands of installations across North America, nearly a century of expertise, and hundreds of combined years of engineering and electrical controls experience, PRIMEX provides control solutions using multiple design and production facilities located across North America ensure PRIMEX customers PRIMEX team members are fully engaged in every ongoing service and support help us serve the needs of our customers.

Appendix: Forms, Resumes and Graphics (Cont'd)

PRIMEX Product Development is continually designing innovative solutions to meet the growing demands of the water control industry.

INFRASTRUCTURE ARCHITECTS

iArch - Architecture

Infrastructure Architects, Inc. (iARCH) is a California corporation that was founded in 2017. iARCH's mission is to provide professional architectural services to cities and counties throughout Southern and Central California. From the beginning, we have been committed to being the best municipal services provider. Our mission is to earn the respect and confidence of our clients by providing the highest standard of professional architectural services that ultimately make a positive contribution to the community. As an architectural service provider, focused on public sector assignments, iARCH provides services that include design services for facilities and parks for municipal agencies. Over the past 8 years, we have had the honor of working on numerous capital projects that include many new and existing parks, city halls, community centers, senior centers, transit buildings, fire stations and other municipal capital projects.

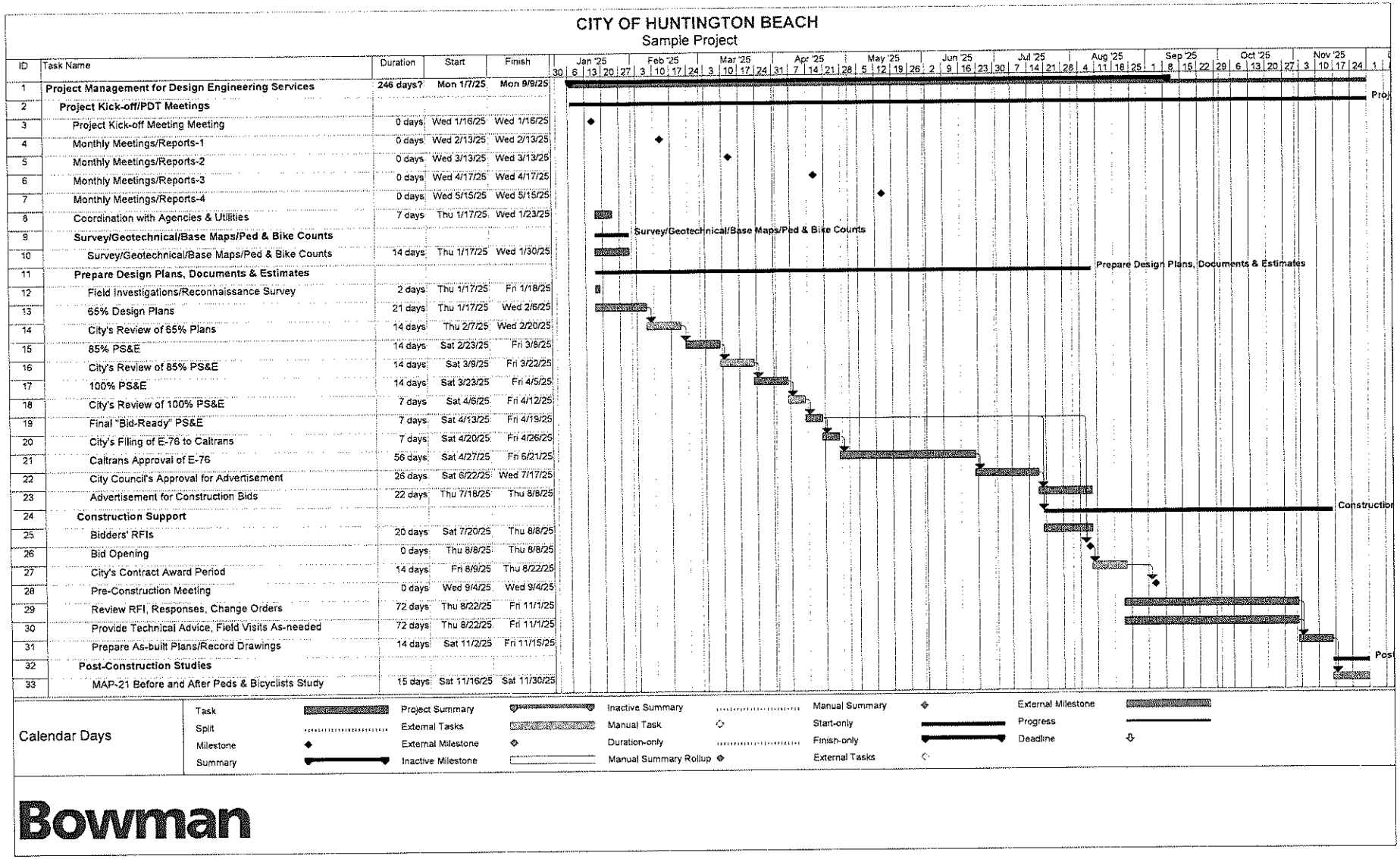
At iARCH, we love to deliver legendary client service. We are passionate about what we do, and we make quality personal. In other words, we are the difference between a company that says what it will do and a company that does what it says. As doers, iARCH will get it done. We embrace a company culture of clear communication, friendliness, and strong core values which include company 'Fundamentals' that constantly remind us how to communicate with each other, deliver on the promises made and appreciate the commitments made to our clients.

DJI

Dennis Janda, Inc. - Survey

Dennis Janda, Inc. (DJI) is a private corporation providing land surveying and mapping services and is a Certified Small Business Enterprise in the state of California. The owners and managers of DJI have worked together for both public and private sectors clients throughout Southern California since 1997. DJI's core staff has their roots in the traditional disciplines of land planning, civil engineering, land surveying and mapping mainly working on development and public works projects throughout California. This experience using and participating in the evolution of surveying and mapping practices has helped in our ability to contribute in time and cost saving practices and processes from project conception through the development, to recording. Upon this foundation we added a diverse team of professionals using the best use of equipment and technology to contribute to our client's specific project goals and schedules. DJI's staff has been working with municipalities and utility districts providing these services for 26 years.

Appendix: Forms, Resumes and Graphics (Cont'd)



ID	Task Name	Duration	Start	Finish
1	**Project Management for Design Engineering Services**	246 days?	Mon 1/7/25	Mon 9/9/25
2	**Project Kick-off/PDT Meetings**			
3	Project Kick-off Meeting Meeting	0 days	Wed 1/16/25	Wed 1/16/25
4	Monthly Meetings/Reports-1	0 days	Wed 2/13/25	Wed 2/13/25
5	Monthly Meetings/Reports-2	0 days	Wed 3/13/25	Wed 3/13/25
6	Monthly Meetings/Reports-3	0 days	Wed 4/17/25	Wed 4/17/25
7	Monthly Meetings/Reports-4	0 days	Wed 5/15/25	Wed 5/15/25
8	Coordination with Agencies & Utilities	7 days	Thu 1/17/25	Wed 1/23/25
9	**Survey/Geotechnical/Base Maps/Ped & Bike Counts**			
10	Survey/Geotechnical/Base Maps/Ped & Bike Counts	14 days	Thu 1/17/25	Wed 1/30/25
11	**Prepare Design Plans, Documents & Estimates**			
12	Field Investigations/Reconnaissance Survey	2 days	Thu 1/17/25	Fri 1/18/25
13	65% Design Plans	21 days	Thu 1/17/25	Wed 2/6/25
14	City's Review of 65% Plans	14 days	Thu 2/7/25	Wed 2/20/25
15	85% PS&E	14 days	Sat 2/23/25	Fri 3/8/25
16	City's Review of 85% PS&E	14 days	Sat 3/9/25	Fri 3/22/25
17	100% PS&E	14 days	Sat 3/23/25	Fri 4/5/25
18	City's Review of 100% PS&E	7 days	Sat 4/6/25	Fri 4/12/25
19	Final "Bid-Ready" PS&E	7 days	Sat 4/13/25	Fri 4/19/25
20	City's Filing of E-76 to Caltrans	7 days	Sat 4/20/25	Fri 4/26/25
21	Caltrans Approval of E-76	56 days	Sat 4/27/25	Fri 6/21/25
22	City Council's Approval for Advertisement	26 days	Sat 6/22/25	Wed 7/17/25
23	Advertisement for Construction Bids	22 days	Thu 7/18/25	Thu 8/8/25
24	**Construction Support**			
25	Bidders' RFIs	20 days	Sat 7/20/25	Thu 8/8/25
26	Bid Opening	0 days	Thu 8/8/25	Thu 8/8/25
27	City's Contract Award Period	14 days	Fri 8/9/25	Thu 8/22/25
28	Pre-Construction Meeting	0 days	Wed 9/4/25	Wed 9/4/25
29	Review RFI, Responses, Change Orders	72 days	Thu 8/22/25	Fri 11/1/25
30	Provide Technical Advice, Field Visits As-needed	72 days	Thu 8/22/25	Fri 11/1/25
31	Prepare As-built Plans/Record Drawings	14 days	Sat 11/2/25	Fri 11/15/25
32	**Post-Construction Studies**			
33	MAP-21 Before and After Peds & Bicyclists Study	15 days	Sat 11/16/25	Sat 11/30/25

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EXHIBIT "B"

Payment Schedule (Hourly Payment)

A. Hourly Rate

CONSULTANT'S fees for such services shall be based upon the following hourly rate and cost schedule:

SEE ATTACHED EXHIBIT B

B. Travel Charges for time during travel are not reimbursable.

C. Billing

1. All billing shall be done monthly in fifteen (15) minute increments and matched to an appropriate breakdown of the time that was taken to perform that work and who performed it.

2. Each month's bill should include a total to date. That total should provide, at a glance, the total fees and costs incurred to date for the project.

3. A copy of memoranda, letters, reports, calculations and other documentation prepared by CONSULTANT may be required to be submitted to CITY to demonstrate progress toward completion of tasks. In the event CITY rejects or has comments on any such product, CITY shall identify specific requirements for satisfactory completion.

4. CONSULTANT shall submit to CITY an invoice for each monthly payment due. Such invoice shall:

   A) Reference this Agreement;
   B) Describe the services performed;
   C) Show the total amount of the payment due;
   D) Include a certification by a principal member of CONSULTANT's firm that the work has been performed in accordance with the provisions of this Agreement; and
   E) For all payments include an estimate of the percentage of work completed.

   Upon submission of any such invoice, if CITY is satisfied that CONSULTANT is making satisfactory progress toward completion of tasks in accordance with this Agreement, CITY shall approve the invoice, in which event payment shall be made within thirty (30) days of receipt of the invoice by CITY. Such approval shall not be unreasonably withheld. If CITY does not approve an invoice, CITY shall notify CONSULTANT in writing of the reasons for non-approval and the schedule of performance set forth in **Exhibit "A"** may at the option of CITY be suspended until the parties agree that past performance by CONSULTANT is in, or has been brought into compliance, or until this Agreement has expired or is terminated as provided herein.

5. Any billings for extra work or additional services authorized in advance and in writing by CITY shall be invoiced separately to CITY. Such invoice shall contain all of the information required above, and in addition shall list the hours expended and hourly rate charged for such time. Such invoices shall be approved by CITY if the work performed is in accordance with the extra work or additional services requested, and if CITY is satisfied that the statement of hours worked and costs incurred is accurate. Such approval shall not be unreasonably withheld. Any dispute between the parties concerning payment of such an invoice shall be treated as separate and apart from the ongoing performance of the remainder of this Agreement.

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EXHIBIT "B"

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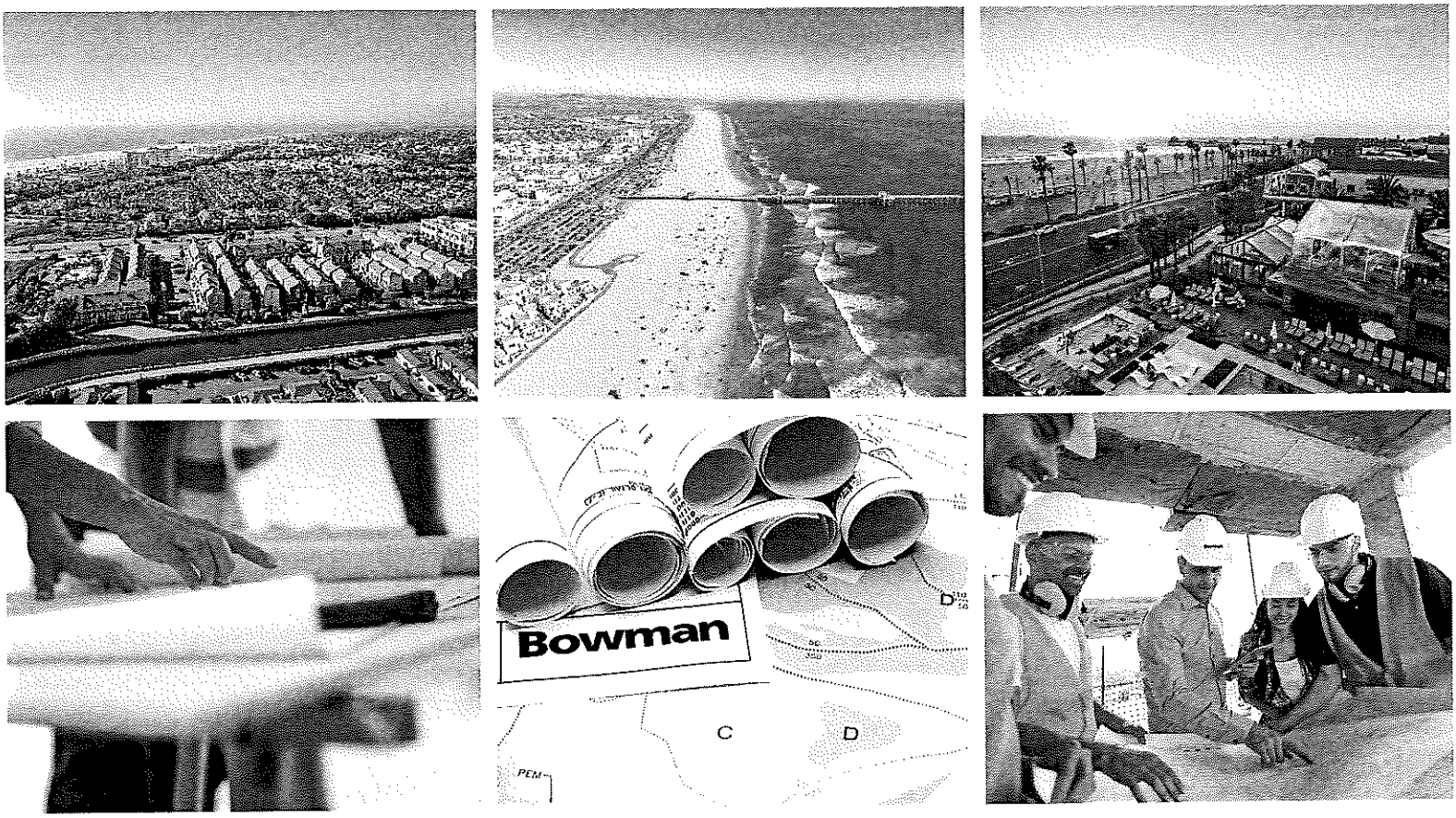

City of Huntington Beach, CA

On-Call Civil Engineering Professional Consulting Services

Cost Proposal

Submitted by:

Farzad Dorrani, Branch Manager
Bowman
3060 Saturn Street, Suite 250
Brea, CA 92821
714.982.5032 | fdorrani@bowman.com

Submitted to:

Chau Vu, Director of Public Works
City of Huntington Beach
2000 Main Street
Huntington Beach, CA 92648

March 13, 2025

bowman.com

Bowman

Cost Proposal

HOURLY RATE SCHEDULE
(effective January 1, 2025)

City of Huntington Beach

Bowman

Principal-in-Charge	$300
QA/QC Engineer	$220
General Civil Engineering	
Principal Engineer	$210
Senior Project Manager	$200
Project Manager	$185
Assistant Project Manager	$170
Senior Traffic Engineer	$190
Senior Engineer	$180
ADA Specialist	$190
Plan Check Engineer	$120
Engineer III	$155
Engineer II	$145
Engineer I	$140
GIS Analyst	$155
Water / Sewer Engineering	
Principal	$285
Department Executive	$235
Project Manager	$190
Assistant Project Manager	$175
Project Coordinator	$130
Engineer III	$170
Engineer II	$150
Engineer I	$140
Planner III	$200
Planner II	$135
Planner I	$115
Storm Water Engineering	
Principal	$245
Senior Project Manager	$230
Deputy	$229
Project Manager	$220
Project Coordinator	$195
Engineer III	$170
Engineer II	$165
Engineer I	$145
Senior Environmental Scientist	$195
Environmental Scientist III	$180
Environmental Scientist II	$160
Environmental Scientist I	$150
Administrative Professional	$100
Environmental / Water Quality	
Director	$210
Program Manager (NPDES)	$200
Senior Environmental Scientist	$195
Environmental Engineer IV	$186
Senior Engineer	$180
Senior Project Manager	$195
Project Manager	$180
Planning Manager	$167
Principal Planner	$163
Planner III	$153
Planner II	$139
Planner I	$129
Planning Technician	$98
Environmental Specialist	$175
Environmental Planner III	$165
Environmental Planner II	$155
Environmental Planner I	$144
Inspector (NPDES)	$145
Bridge / Structural Engineering	
Director	$346
Deputy	$230
Bridge Engineer VII	$186
Construction Project Coord. IV	$184
Civil Engineer IV	$182
Civil Engineer III	$165
Civil Engineer II	$118
Drafting Technician III	$120
Survey	
Principal	$245
Senior Surveyor	$200
Survey Technician III	$155
Survey Technician II	$140
Survey Technician I	$130
Survey Field Crew - 3 Man	$400
Survey Field Crew - 2 Man	$260
Survey Field Crew - 1 Man	$195
Remote Sensing Technician III	$150
Remote Sensing Technician II	$130
Remote Sensing Technician I	$110
Machine Control Technician	$255
Ocean Engineering	
Principal	$300
Department Executive	$270
Senior Project Manager	$240
Project Manager	$210
Estimator	$185
Engineer III	$175
Engineer II	$153
Engineer I	$137
Designer III	$155
Designer II	$140
Designer I	$130
CADD Drafter III	$145
CADD Drafter II	$120
CADD Drafter I	$95
Mechanical and Electrical Engineering	
Principal - Department Director	$320
Senior Mechanical Engineer	$200
Senior Electrical Engineer	$200
Program Management / Public Outreach	
Program Director	$184
Outreach Specialist	$155
Web Designer	$150
Media Specialist	$145
Labor Compliance Coordinator	$145
Administrative & Clerical	
Organizer / Supervisor	$125
Administrative Assistant	$115
Clerk Typist	$95
Other Charges	
Delivery	$110
Mileage (current federal guideline rate @ time of billing) / mile	
Travel	Cost + 15%
Reimbursements	Cost + 15%

**Hourly rates are automatically increases on July 1st of each year at the annual Consumer Price Index for All Urban Consumers (CPI-U), Orange County area increase rates for the preceding 12 months period as published by the Bureau of Labor Statistic.*

**Additional billing classifications may be added to the above list throughout the year as new positions are created. The above schedule is for straight time. Overtime will be charged at 1.5 times. Sundays and Holidays are charged at 2.0 times the standard time. Deposition and court appearances will be charged at 1.5 times the listed billing rates.*

3060 Saturn Street, Suite 250 | Brea, CA 92821 | Tel: 714.940.0100 | bowman.com

Cost Proposal (Cont'd)

DENNIS JANDA, INCORPORATED
MAPPING/SURVEYING SERVICES
GIS CONSULTING

42164 REMINGTON AVE.
TEMECULA, CA 92590
Ph: (951) 699-8874 Fax: (951) 699-8568
E-Mail: dennisj@pmcmap.com

On Call Contract
Hourly Rate Schedule as of January 2025 to January 2026**

Surveying / Services Fees

TITLE	RATE
Principal Surveyor	$ 180.00 HR
Assistant Surveyor	$ 145.00 HR
One Man Survey Crew	$ 200.00 HR
Two Man Survey Crew	$ 280.00 HR

Prevailing Construction Rates

**Prevailing wage is based on current determinations from the "Director of Industrial Relations" and may increase with the predetermined increase.

If there are any questions, please call me at (951) 699-8874 or by Email: dennisj@pmcmap.com .

Cost Proposal (Cont'd)

2025-2026 HOURLY RATE SCHEDULE
(Effective January 1, 2025)

iARCH

ARCHITECTS & ENGINEERS			
PIC	Principle in Charge	$275	HR
Director	Director of Architecture	$240	HR
SM	Studio Manager	$220	HR
SPM	Sr. Project Manager	$220	HR
PM/PA	Project Manager/Architect	$200	HR
SJC	Sr. Job Captain	$170	HR
JC	Job Captain	$150	HR
DD	Design Drafter	$130	HR
PE	Principle Engineer	$240	HR
SE	Sr. Engineer	$210	HR
SPCE	Sr. Plan Check Engineer	$210	HR
AE	Associate Engineer	$200	HR
ASE	Assistant Engineer	$160	HR
MEP	MEP Engineer	$200	HR
EA	Engineering Associate	$160	HR
EAS	Engineering Assistant	$130	HR
PTE	Principle Traffic Engineer	$220	HR
STE	Sr. Traffic Engineer	$210	HR
TE	Traffic Engineer	$200	HR
SWE	Sr. Water Engineer	$220	HR
WE	Water Engineer	$200	HR
PM-NPDES	NPDES Program Manager	$210	HR
CM	Construction Manager	$220	HR
RE	Resident Engineer	$250	HR
SI	Sr. Inspector	$160	HR
DSM	Development Services Manager	$240	HR
PLM	Planning Manager	$230	HR
PRP	Principle Planner	$210	HR
SRP	Sr. Planner	$200	HR
ASP	Associate Planner	$190	HR
CEQAS	CEQA/NEPA Specialist	$220	HR
EP	Environmental Planner	$200	HR
OC	Office Clerk	$130	HR

Additional billing classifications may be added to the above list throughout the year as new positions are created. The above schedule is for straight time. Overtime will be charged at 1.5 times. Sundays and Holidays are charged at 2.0 times the standard time. Deposition and court appearances will be charged at 2 times the listed billing rates.

100 Progress Suite 110 • Irvine, CA 92618 • • www.iARCHsocal.com

Cost Proposal (Cont'd)

Proposal File No. B225122-1
City of Huntington Beach, CA

RFQ # On-Call
Civil Engineering Consulting

2025 PROFESSIONAL FEE SCHEDULE

SOIL ENGINEERING ,GEOLOGY ,MATERIALS TESTING ,HAZARDOUS WASTE ASSESSMENT

PROFESSIONAL SERVICE FEES (Per hour)

Associate Engineer/Geologist	145
Senior Engineer/Geologist	145
Project Engineer/Geologist	135
Staff Engineer/Geologist	125
Field Engineer/Geologist	125
Engineering Field/Lab Technician	95
Technical Drafting	95
Technician, Deputy Inspector	95
Engineering Field Technician w/nuclear gauge & vehicle	95
Prevailing Wage Hourly Surcharge for Technician & Field Engineer	35/hr.

Overtime will be charged at the basic rate plus 50%. Overtime is defined as the excess above 8 hours on weekdays, time before 7 a.m. or after 5 p.m., and regular hours on Saturdays. Sundays, holidays and time between 12 mid-night to 7 am will be charged regular hour plus 100%. Call out for field is a minimum of 4 hours, over 4 hours is 8 hours.

SUPPORT SERVICES

Word Processing	75
Secretarial Services	75
General office	75
Sample/Document Pickup & Delivery	85

Expert witness testimony will be charged at $650 per hour; minimum charge of $2000.00

REIMBURSABLE EXPENSES

Heavy equipment, supplemental insurance, permit travel, shipping, reproduction, and other reimbursable expenses will be invoiced at cost plus 50%.

PROPOSAL ACCEPTANCE PERIOD

Proposals are valid for 60 days, unless otherwise specifically stated.

OTHER CHARGES

Travel time will be billed at appropriate hourly rates. A conveyance charge of 75 cents per mile shall be charged for round trip travel from our office to the project site.

LABORATORY TEST

Test	Fee Each
Moisture Content	45
Moisture and Density (Ring Samples)	65
Maximum Dry Density, ASTM (1557)	290
Maximum Density Checkpoint	75
Sieve Analysis including wash, ASTM (D244)	200
Percent Passing No. 200 Sieve	75
Liquid Limit and Plastic Index	290
Sand Equivalent	135
Expansion Index	140
Direct Shear (Undisturbed), (per point)	350
Direct Shear (Remolded), (per point)	360
Consolidation, (per point)	225
R-Value (Untreated), ASTM (D2844 or CA301)	380
R-Value (Treated)	420
Sulfate Content (min of 4)	75
Concrete Compressive Strength Test and report (min of 4)	75

Triaxial testing, residual shear tests, permeability, and special tests will be charged at hourly rates.

INVOICES

a. Invoices are rendered biweekly, payable upon receipt.
b. 50% of the fee for field studies is due at the time of authorization to cover equipment and mobilization costs.

PRIMEX

2024 Technical Service Rates

The following rates are effective for services and service agreements commencing on or after November 1st, 2023 and do not include any applicable sales tax. We reserve the right to increase rates on November 1st of each year.

Standard Services

Service Type	Standard Hourly Rates[1]	Preferred Hourly Rates[2]	Travel Rates[3]
PLC & SCADA System Programmer	$270	$ 235	
Field Service Technician	$185	$ 165	
Design & Engineering	$255	$ 230	
Project Management	$225	$195	
Manufacturing Services	$130	$118	
Drafting	$150	$130	
Mileage			$1.00/mile
Per Diem			$35 meal per diem
Travel Expenses (Hotel, Airfare etc.)			Cost + 10%

[1] Standard rates apply to all customers without a service agreement in place with PRIMEX, for services performed during normal business hours. See below for after-hours, overtime, and holiday service rate multipliers. There is a minimum charge of two (2) hours on site plus travel expenses.

[2] Preferred rates apply to customers with an annual service agreement in place with PRIMEX. Preferred customers enjoy priority scheduling ahead of non-preferred customers. There is no minimum trip charge for preferred customers. See below for after-hours, overtime, and holiday service rate multipliers. Contact your PRIMEX representative for service agreement details.

[3] In addition to the rates above, customers will pay incurred travel costs, including mileage, airfare, hotels, and meals.

Service Rate Multipliers

Description	Multiply Rate By:
Overtime – More than eight (8) hours worked in a day (excluding travel time)	1.5
Weekends – Work performed on Saturday or Sunday	1.5
After-Hours – Work performed between 6:00pm and 6:00am	1.5
Holiday – Work performed on a PRIMEX-observed holiday, or a holiday falling on a weekend	2.0

859 Cotting Court, Suite G, Vacaville, CA 95688 | 707.449.0341 ph | 707.449.8860 fax | www.primexcontrols.com

Cost Proposal (Cont'd)

CERTERRA
SUBSURFACE – C BELOW

Product Line Items

	Estimated Costs
Utility Locating	$4,460.00
Mapping	$1,720.00
Potholing	$10,340.00
Total USD	**$16,520.00**

Estimate Worksheets

Utility Locating

Item	Quantity	Unit	Unit Price	Total
Locating | Certified Supervising Technician	8	HR	$195.00	$1,560.00
Locating | Trained Certified Assistant Technician	8	HR	$180.00	$1,440.00
Travel Time | Crew	2	HR	$255.00	$510.00
Project Coordination	6	HR	$95.00	$570.00
Administrative	4	HR	$95.00	$380.00
			Subtotal	**$4,460.00**

Cost Proposal (Cont'd)

CERTERRA
SUBSURFACE – C BELOW

Mapping				
Item	Quantity	Unit	Unit Price	Total
Mapper | Certified Supervising Technician	4	HR	$230.00	$920.00
Drafting | In-house Drafting in AutoCAD	3	HR	$150.00	$450.00
Mapping | Travel Time | Single Tech	2	HR	$175.00	$350.00
			Subtotal	**$1,720.00**

Cost Proposal (Cont'd)

CERTERRA
SUBSURFACE – C BELOW

Potholing				
Item	Quantity	Unit	Unit Price	Total
Potholing Hourly Crew: Incl surface breaking, sand backfill, and perm cold patch repair	8	HR	$595.00	$4,760.00
Potholing | Travel Time | Crew	2	HR	$325.00	$650.00
Vacuum Excavation Spoil Removal and Dump Fee: Removal of excavated spoils and dumping of material	1	EA	$950.00	$950.00
Pothole Report	1	UNIT	$550.00	$550.00
Standard Traffic Control 25-55 MPH	1	DAY	$1,500.00	$1,500.00
Traffic Control Plans | Engineered Stamped Plans	1	Unit	$1,550.00	$1,550.00
Project Coordination	2	HR	$95.00	$190.00
Administrative	2	HR	$95.00	$190.00
			Subtotal	**$10,340.00**