

PROFESSIONAL SERVICES CONTRACT BETWEEN
THE CITY OF HUNTINGTON BEACH AND
GHD INC.
FOR
ON-CALL CONSTRUCTION MANAGEMENT, MATERIALS TESTING, AND
INSPECTION 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, GHD, INC., a hereinafter referred to as "CONSULTANT."

WHEREAS, CITY desires to engage the services of a consultant to perform on-call construction management, materials testing and inspection 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 Natasha Johnson 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 _____, 2025 (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 two (2) 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 Five Hundred Thousand Dollars (\$2,500,000.00).

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:

GHD, Inc.
ATTN: Emma Del Vento
320 Goddard Way, Suite 200
Irvine, CA 92618

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 Attorney. 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,
GHD, INC.

By: _____



PAUL HERMAN

print name

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

AND

By: _____



KIA BOOKER

print name

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

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

City Manager

INITIATED AND APPROVED:

Director of Public Works

APPROVED AS TO FORM:



City Attorney

Date 10/27/2025

RECEIVE AND FILE:

City Clerk

Date _____

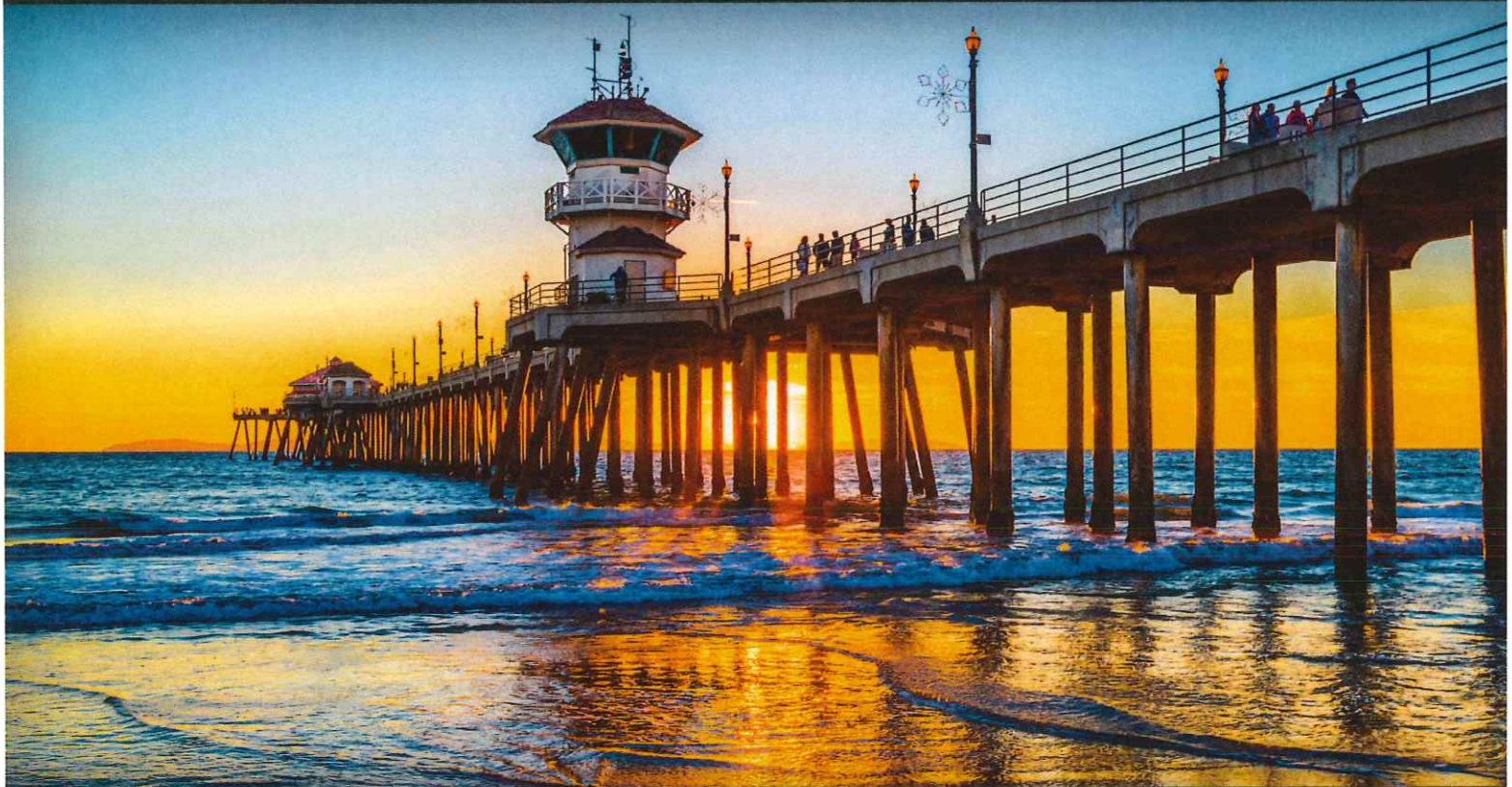


EXHIBIT A

Proposal

→ On-Call Construction Management, Materials Testing, and Inspection Services

• June 13, 2025 •



Submitted to the City of Huntington Beach

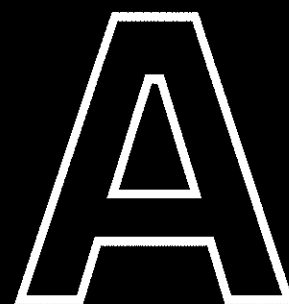
→ The Power of Commitment



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© GHD 2025: This document is and shall remain the property of GHD. The document may only be used for the purpose for which it was submitted and in accordance with any of the solicitation to which this document responds. Unauthorized use of this document in any form whatsoever is prohibited.



→ **Cover Letter**

→ **The Power of Commitment**



320 Goddard Way | Suite 200
Irvine, CA 92618

Phone: 949.648.5200
www.ghd.com

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

June 13, 2025

Re: Proposal for On-Call Construction Management, Materials Testing, and Inspection Services

Dear Selection Panel,

The City of Huntington Beach's Capital Improvement Program represents a vital investment in public infrastructure and community facilities. GHD is honored to submit our proposal to continue supporting this vision through a comprehensive suite of construction management, inspection, and materials testing services—strategically tailored to meet the City's evolving needs.

As the City's current provider of engineering and design services, our team is well-positioned to deliver high-quality, compliant, and cost-effective solutions. With experience managing over 85 on-call contracts across California, we bring a deep understanding of municipal project delivery and a strong track record of meeting compliance, quality, and performance standards.

To ensure the City receives the highest level of service, we have assembled a multidisciplinary team of industry-leading subconsultants:

- **Twining, Inc.** will serve as our primary partner for materials testing and inspection. With over 100 years of experience and Caltrans-certified laboratories, Twining offers advanced testing for soils, concrete, asphalt, steel, and more. Their certified inspectors and engineers will ensure all materials meet ASTM, AASHTO, and Caltrans standards.
- **Vanir** brings nationally recognized expertise in program, project, and construction management. Their team will support vertical and facilities inspection, labor compliance, and schedule control, ensuring seamless execution and stakeholder alignment.
- **Montez Group, Inc. (MGI)** will provide quality management and construction management support services. MGI's strengths in QA/QC, document control, and safety verification will enhance our ability to deliver technically sound and well-documented projects.

Our approach emphasizes **proactive planning, clear communication, and a collaborative mindset**. We apply structured pretask planning, real-time documentation, and early issue resolution to support successful project delivery. Our use of **web-based construction management software** enhances transparency and reduces turnaround times for RFIs and submittals.

We offer:

- **Integrated Expertise** across civil, structural, MEP, traffic, and environmental disciplines.
- **Design-Build Readiness** with proven success in early-phase constructability reviews and post-award oversight.
- **Client-Focused Delivery** aligned with the City's performance goals, budget, and schedule.
- **Dispute Avoidance and Change Management** through structured communication protocols and regular coordination meetings.

Our **local presence** is a significant advantage. Our main office, located at 320 Goddard Way, Suite 200, Irvine, CA 92618, serves as the central hub for project coordination. This is further supported by additional offices in Los Angeles, Costa Mesa, and Long Beach, with a combined team of 120 staff members. This close proximity enables us to respond swiftly, foster strong relationships, and remain deeply attuned to the City's evolving needs.

We have reviewed the City's standard Professional Services Agreement and insurance requirements and confirm our ability to execute the agreement as drafted. Additionally, GHD holds a valid City of Huntington Beach Business License (License No. A291789), issued more than six months prior to the RFP release date.

Thank you for considering our qualifications. We look forward to the opportunity to continue serving the City of Huntington Beach.

Regards,



Emma Del Vento
Contract Manager
425.412.6249
emma.delvento@ghd.com



Steve Briggs
Construction Manager
949.815.3816
steve.briggs@ghd.com



B

→ Vendor Application Form

→ The Power of Commitment

REQUEST FOR PROPOSAL

VENDOR APPLICATION FORM

TYPE OF APPLICANT: ☐ NEW ☒ CURRENT VENDOR

Legal Contractual Name of Corporation: GHD Inc.

Contact Person for Agreement: Emma Del Vento

Corporate Mailing Address: 320 Goddard Way, Suite 200

City, State and Zip Code: Irvine, CA 92618

E-Mail Address: emma.delvento@ghd.com

Phone: 425.412.6249 Fax: N/A

Contact Person for Proposals: Natasha Johnson

Title: Senior Proposal Specialist E-Mail Address: natasha.johnson@ghd.com

Business Telephone: 916.245.4222 Business Fax: N/A

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

Names & Titles of Corporate Board Members

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

Names	Title	Phone
<u>See the following page for Corporate Board Members</u>		
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Federal Tax Identification Number: **98-0425935**

City of Huntington Beach Business License Number: **A291789**
(If none, you must obtain a Huntington Beach Business License upon award of contract.)

City of Huntington Beach Business License Expiration Date: **January 1, 2026**

GHD INC.

Officers and Directors
Effective March 15, 2025

OFFICERS

Christopher Hunter 455 Phillip Street, Waterloo, ON N2L 3X2	Board Chair/Executive Vice President
Tom Klin 45 Farmington Valley Drive, Plainwell, CT 06062	Executive Vice President
Rachel McCaffery 410 Eagleview Boulevard, Suite 110, Exton, PA 19341	Executive Vice President
Theodore Whiton 2235 Mercury Way, Suite 150, Santa Rosa, CA 95407	President
Derek McBean 70 York Street, Suite 801 Toronto, Ontario M5J 1S9	Vice President - Legal
Michael Moran 100 Milverton Drive, Suite 404, Mississauga, Ontario L5R 4H1	Treasurer
Pardeep Ark 455 Phillip Street, Waterloo, ON N2L 3X2	Assistant Treasurer
Gabriella Somoza 550 E. Swedesford Road Suite 140 Wayne, Pennsylvania 19087	Assistant Treasurer
Patricia Osoko 455 Phillip Street, Waterloo, ON N2L 3X2	Company Secretary
Lindsay Ray 455 Phillip Street, Waterloo, ON N2L 3X2	Assistant Company Secretary
Maria Erassova 455 Phillip Street, Waterloo, ON N2L 3X2	Assistant Vice President- Tax

DIRECTORS

Theodore Whiton
2235 Mercury Way, Suite 150, Santa Rosa, CA 95407

Michael Moran
100 Milverton Drive, Suite 404, Mississauga, Ontario L5R 4H1

Tom Klin
45 Farmington Valley Drive, Plainwell, CT 06062

Rachel McCaffery
410 Eagleview Boulevard, Suite 110, Exton, PA 19341

Christopher Hunter
455 Phillip Street, Waterloo, ON N2L 3X2

Michelle Jones
One California Street, Suite 1450 San Francisco, California 94111



CITY OF HUNTINGTON BEACH
BUSINESS LICENSE
P.O. Box 190
Huntington Beach, CA 92648-2702
(714) 536-5267

David Cain
Interim Chief Financial Officer

HNY0121A
4000000106 104/1



GHD INC
320 GODDARD STE 200
IRVINE CA 92618-4613

Dear Business Owner:

Thank you for your payment. Attached is your City of Huntington Beach Business License certificate. Please note that approximately one month prior to the license expiration date, you will be mailed a renewal notice for the upcoming year. If for any reason your renewal notice does not arrive, you are still responsible for renewing and paying your business license prior to the expiration date. Penalties will be incurred if the payment is not received by the expiration date.

Please post the business license in public view. If you do not transact business from a fixed location within the City, you must carry this license with you at all times. If a vehicle license plate number is displayed on the Business License certificate below, you must carry a copy of the certificate in that vehicle. Please contact the Business License office if there are any changes to: ownership, address, business name, business vehicle, or type of business conducted. Additionally, please notify our office if you discontinue your business.

The Gender Tax Repeal Act of 1995 (Act) prohibits a business from discriminating based on a person's gender for prices of similar or like-kind goods and services. However, the Act does not prohibit price differences based on the amount of time, difficulty, or cost of providing the services. In addition to prohibiting discrimination based on a person's gender, the Act requires certain businesses to clearly and conspicuously disclose to customers in writing the pricing for each standard service provided. The posting requirement applies to barbers and hair salons, tailors or businesses providing aftermarket clothing alterations, dry cleaners, and laundries providing services to individuals. To access the Department of Consumer Affairs publication, please use the following webpage: https://www.barbercosmo.ca.gov/consumers/gender_policy.pdf. To access the publication in Korean, Spanish, Vietnamese, Traditional Chinese, Simplified Chinese, or Tagalog, please use the following webpage: <https://www.dca.ca.gov/publications/index.shtml>

There are many resources available to our business owners. Listed below are a few that might be of interest and assistance to you.

Office of Business Development - (714) 536-5582

Huntington Beach Chamber of Commerce - (714) 536-8888

CA Department of Tax and Fee Administration - (949) 440-3473

Service Corps of Retired Executives - (714) 550-7369

Fictitious Business Name Information - (714) 834-2889

Community Development - (714) 536-5271

If you have any questions, please call a Business License representative at (714) 536-5267.

City of Huntington Beach

Business License

Business Name / Service Address

GHD INC

POST IN PUBLIC VIEW

License Number

A291789

Owner / Corporation

GHD INC

Effective Date

2/1/2025

Expiration Date

1/31/2026

License Type

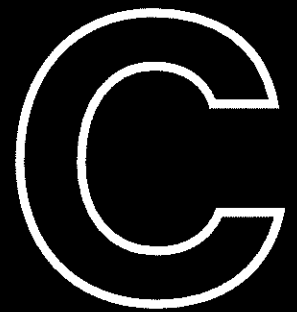
PROFESSIONAL SERVICES

Amount Paid

\$110.80



THIS LICENSE IS ONLY FOR THE BUSINESS AND TYPE SHOWN. IT IS FOR THE PERSON TO WHOM ISSUED AND IS NON-TRANSFERABLE. RENEWAL IS DUE ON OR BEFORE THE EXPIRATION DATE.



→ Pre-Qualification Form (Exhibit A)

PRE-QUALIFICATION FORM

ON-CALL CONSTRUCTION MANAGEMENT and MATERIALS INSPECTION CONSULTING
SERVICES

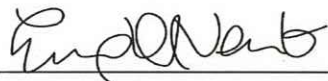
SERVICE CATEGORY	PROPOSING? Y/N (circle)
A. Construction Management	☒ Yes / No

EDV (Initial) Consultant is willing to execute the Agreement as drafted (See **Appendix B**).

EDV (Initial) Consultant is able to provide the insurance as required (See **Appendix C**).

Firm Name: **GHD Inc.**

Firm Address: **320 Goddard Way, Suite 200, Irvine, CA 92618**

Signature:  Date: **June 13, 2025**



→ Service Category

→ The Power of Commitment

D.1

Firm Qualifications

Having served clients in California since 1985, GHD offers a strong local presence, with over 500 employees within a 250-mile radius of the project. In addition to our local knowledge, GHD has 1,900 staff across the United States and 12,000 employees operating globally. When needed, we can leverage national and global experts to provide insights and offer input into developing actionable solutions.

→ CM/Inspection Experience

GHD is an industry-recognized leader in managing complex public infrastructure and facility construction projects. Our Construction Management Group operates across the United States and Canada. We are known for completing work safely, on time, and within budget—consistently exceeding client expectations.

GHD's team brings deep expertise in delivering a full range of project delivery methods, including conventional construction management, design-build (DB), and progressive design-build (PDB). We have successfully managed projects under various contracting models such as competitive bidding, negotiated contracts, and performance-based agreements. Our experience spans a wide array of public works infrastructure, including pump stations, lift stations, pipelines, traffic signals, road rehabilitation, and bridge retrofits, as well as vertical construction projects such as fire stations, police facilities, libraries, and community centers.

With a highly skilled and certified staff—including PMP- and CCM-certified construction managers—GHD is well-equipped to support the City of Huntington Beach in delivering its capital improvement program. We offer a collaborative, proactive approach to construction management that emphasizes constructability review, schedule

96+ years in operation
135+ countries served
160+ offices worldwide
1.9^B USD revenue 2024
5 global markets
12^K people
45+ service lines

→ Providing engineering, environmental, and construction services

and cost control, quality assurance, and stakeholder coordination throughout all phases of project delivery.

Our highlighted project experience on the following pages showcases the value we will provide the City. We offer program development during the project's initiation stage to align with business case objectives, delivering early methodology selection, initiation, design document review, schedule and cost estimation, and bidding support. GHD is also proud of its longstanding experience delivering on-call services comparable to those outlined by the City, as detailed in the table on the following page.



→ Key Personnel Experience

We are a team of seasoned professionals with extensive experience delivering complex infrastructure projects. The matrix below offers a concise visual summary of our collective qualifications, highlighting each team member's expertise across 18 key service areas. This representation underscores the depth and breadth of our capabilities and demonstrates our proven ability to achieve high-quality outcomes throughout every phase of project execution. Grounded in technical excellence, collaborative problem-solving, and industry best practices, the GHD team is exceptionally well-equipped to meet project goals with precision and efficiency. Resumes for key personnel are included in the appendix of this proposal.

	Steve Briggs Construction Manager	Emma Del Vento Contract Manager	Bob Sherwood Quality Control Manager	Youngha Choi Assistant Project Manager	Mike Porter Inspector – Public Works Infrastructure	Stacey Maurer Controls Lead	Vanir	Twining, Inc.	Montez Group
Years of Experience	25+	20+	25+	8+	30+	16+	45+	125+	13+
Constructability/Bidability Reviews	✓	✓	✓	✓	✓		✓		✓
Value Engineering	✓		✓	✓	✓		✓		✓
Public Bidding Phase Support	✓	✓	✓				✓	✓	✓
Submittal Tracking, Reviews	✓	✓	✓	✓			✓		
Construction Management & Controls	✓			✓	✓		✓		
Contract Administration	✓			✓		✓	✓		
Inter-agency and Third-Party Utility Coordination	✓	✓							
Construction Inspection							✓		✓
Storm Water Quality Inspections							✓		✓
Materials Testing								✓	✓
Progress Meetings and Reporting	✓	✓		✓		✓	✓		
Progress Payments and Grant/Fund Tracking	✓			✓	✓	✓	✓		
Change Order Management	✓			✓	✓	✓	✓		
Permit Monitoring	✓			✓			✓		
SWPPP & Erosion/Sediment Control Monitoring									✓
Claims & Disputes Prevention/Mitigation	✓			✓		✓			
Project Closeout	✓	✓		✓	✓	✓	✓	✓	
On-call Services	✓	✓	✓		✓	✓	✓	✓	
Design Build Experience	✓	✓	✓	✓			✓		
Progressive Design Build Experience	✓	✓					✓		

→ Subconsultants



Founded in 1964, **Vanir** is a nationally recognized leader in program, project, and construction management (PMCM), as well as real estate development.

Consistently ranked among the top PMCM firms by Engineering News-Record for over 30 years, Vanir has delivered \$30.8 billion in construction value across hundreds of projects nationwide.

State and Local Government Expertise

Vanir partners with state and local government agencies—cities, counties, municipalities, and special districts—throughout all phases of the project lifecycle, from planning and design to construction and occupancy. With experience spanning 17 states and over 3,000 projects, the firm has contributed to facilities that strengthen public services and enrich communities.

With a portfolio that includes work for over 80 municipalities, Vanir brings deep insight into public agency operations. Many team members have prior experience in municipal roles, offering a unique perspective that aligns with agency goals and operational needs. The firm consistently advocates for its clients, allowing them to focus on core responsibilities while Vanir manages project execution.



TWINING

Twining, Inc. is a leading provider of construction materials testing and

inspection services with over 100 years of experience. Serving transportation, infrastructure, commercial, and municipal sectors, Twining offers comprehensive testing for soils, concrete, asphalt, steel, and more—ensuring compliance with ASTM, AASHTO, and Caltrans standards.

Their certified inspectors specialize in structural steel, concrete, masonry, and post-tensioned systems, holding credentials from ICC, AWS, and

ACI. Twining's proactive approach emphasizes early issue detection, clear communication, and detailed reporting to help clients maintain schedules and budgets.

Known for technical excellence and client-focused service, Twining delivers reliable, value-driven solutions that enhance construction quality and project success.



Montez Group, Inc. (MGI) is

a trusted provider of Special Inspection and Field-Testing Services, supporting vertical

and civil construction projects with a strong focus on quality, compliance, and communication. Our certified inspectors ensure work meets code, performance standards, and audit requirements.

MGI deploys ICC and ACI-certified professionals throughout the region, providing on-site support in concrete, masonry, soils, asphalt, structural steel, and fireproofing. Serving sectors such as healthcare, education, infrastructure, and commercial development, the company delivers dependable inspection services tailored to the specific needs of each project.

Core Services:

- Special Inspection per CBC Chapter 17 and project specs
- Field Testing and Sampling
- Daily Field Reports and Nonconformance Tracking
- Document Control and Audit-Ready Reporting

Certifications & Accreditations:

- ICC and ACI Certified Inspectors
- DSA Certified Laboratory (K-12 and community colleges)
- HCAI Certified (California healthcare construction)

→ References

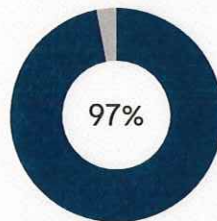
GHD is proud of our reputation for providing quality planning, design and construction management expertise in all facets of project implementation. We encourage you to talk with some of our clients about our performance on recent similar projects.

There is no better proof of our work than direct testimonials from our clients. **90 percent of our clients are municipal agencies or government entities, and approximately 75 percent of our work comes from repeat clients.** This track record illustrates our in-depth knowledge of specialized engineering services and speaks to our clients' confidence in our ability to deliver a project from planning and implementation, through to completion.

→ The following project case studies illustrate our team's depth and breadth of experience to our construction management services.

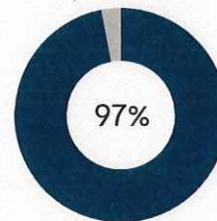
GHD's success at exceeding our clients' needs is evidenced by the high percentage of repeat business that GHD has experienced and the results of more than 7,000 client responses received since February 1999 under our ISO 9001:2015

Overall Performance



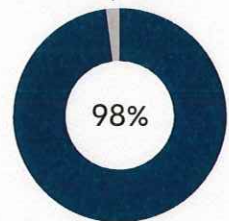
Excellent or Good

Responsiveness



Excellent or Good

Client Expectations



Meets or Exceeds



Construction Management for U.S. Wilmington Site

GHD is leading construction at the Wilmington site, ensuring all work aligns with Rio Tinto's health, safety, and environmental standards. We prioritize safety, environmental stewardship, and quality. As Rio Tinto's on-site representative, we manage permits, inspections, and contractor coordination. Our team collaborates with plant

Client: Rio Tinto Alcan Inc.

Contact: Mitch Calhoun; T: 760.762.7440;
Email: mitch.calhoun@ritinto.com

Dates: 2024 - Present

Key Team Members: Emma Del Vento (Project Director); Steve Briggs (Construction Manager); Bob Sherwood (Quality Control Manager)

leadership to align construction with operations. We support design and constructability reviews, offering practical solutions. RFIs, change notices, and schedules are managed precisely to maintain momentum. Using Procore, we enable real-time communication and visibility. Our proactive planning anticipates challenges, ensuring smooth execution. With decades of experience and a collaborative approach, we're advancing the project safely and efficiently.



Carlsbad New Intake Concrete Repair

GHD provided critical support to Poseidon Water/Channelside LP in the design and construction of a larger intake structure for the Carlsbad Desalination Plant. The project included key upgrades such as large rotating screens to protect marine life, a screen cleaning system, improved water circulation infrastructure, and repairs to the existing intake concrete. Through a collaborative value engineering (VE) review, GHD identified opportunities for significant cost savings. A VE

Client: Poseidon Channelside

Contact: Ken Rayburn; T: 760.475.3661;
Email: krayburn@channelsidedesal.com

Dates: 2023 - Present

Key Team Members: Bob Sherwood (Project Manager); Satish Chilka (Marine Structural Lead)

site inspection helped refine the repair strategy, focusing on a 30-year design life, potable water standards, and eliminating the need for cathodic protection. GHD recommended in-kind repairs for above-water elements and demolition of a large section of the concrete deck instead of repairing it. This approach reduced both time and cost. GHD's marine construction expertise and innovative solutions were essential to the project's success, ensuring long-term durability, environmental compliance, and efficient delivery.



CAL FIRE/Cal OES/USFS - Southern Operations Headquarters Joint-Use Facility

Vanir was selected to manage the \$40M development of the Southern Region Operations Headquarters, a joint-use facility for CAL FIRE, California Governor's Office of Emergency Services (Cal OES), and U.S. Forest Service (USFS). Located on 12.5 acres at March Air Reserve Base in Riverside County, the LEED Gold-certified facility supports disaster response coordination from Sacramento to

Client: California Department of General Services

Contact: Tom Schanberger; T: 916.376.1687;
Email: Tom.Schanberger@dgs.ca.gov

Date: 2016 - 2019

Key Team Members: Jon Murphy (Cost Estimator)

the Mexican border. The 63,000 sq. ft. project included an Operations Coordination Center, Joint Information Center, solar power system, and critical infrastructure such as emergency generators and a 130-foot communications tower. Managed by the California Department of General Services, the program required close collaboration among CAL FIRE, Cal OES, USFS, Riverside County, the U.S. Air Force, and various permitting agencies. A key priority throughout the project was ensuring long-term reliability and seamless system performance.

D.2

Preferred Staffing

In alignment with your on-call service requirements, we have structured a project team that covers the full range of anticipated services for this contract. Our team members bring a strong history of successful collaboration on similar projects, and we maintain the flexibility to integrate additional expertise as needed. We are fully committed to retaining the proposed team throughout the duration of the contract to provide consistency and continuity. Resumes for key personnel are included in the appendix of this proposal

→ Organization Chart



INSPECTORS

Samuel Jung
③ Dickson Sum, Architect LEED AP

① Paul Warner
② ① Gerard Pena

① Merideth Holloway, PNLs
① Orry Nottingham, PE, LEED AP, CxAP

MATERIAL TESTING

② Amir Ghavibazoo, PhD
② Paul Soltis, PE, GE
③ Estuardo Ramirez

Key	
②	Key Personnel
①	Vanir
②	Twining, Inc.
③	Montez Group

PROJECT RESOURCES

Scheduling

Elijah Turner
① Jon Murphy

Labor Compliance

Crystal Prairie

Project Coordination

Youngha Choi, LEED GA
Nicole Garza

Cost Estimating

Steve Ferrero

Alternative Delivery

Casey Raines, PE, PACP, MACP
Greg Watanabe, PE, DBIA, PACP, MACP

Bridges

Luke Miner, PE

Traffic

Byung Lee, PE, TE

Fiber Optic

Crystal Prairie

→Key Personnel



Steve Briggs, CCM
Construction Manager

Education: AS, Construction Technology, Penn Foster College, Scottsdale, AZ

Registration: Certified Construction Manager #9585, Construction Manager Certification Institute; State Contractor's License "B", CA #831646

Steve is a **Certified Construction Manager** with over 25 years of experience leading infrastructure and facility projects. He specializes in construction oversight, team coordination, and contract administration, managing multidisciplinary teams on public works projects exceeding \$40 million in value.



Youngha Choi
Assistant Project Manager

Education: BS Architecture; University of Michigan

Registration: OSHA 30 Certification; LEED Green Associate Certification; #11201526; CA Department of Real Estate Sales; #20195785

Youngha is an Assistant Project Manager with 8 years of experience supporting commercial, industrial, and residential developments up to \$20M. Skilled in coordinating teams, managing budgets and schedules, and ensuring safety compliance, Youngha consistently delivers high-quality results while fostering strong client relationships and supporting sustainable project goals.



Emma Del Vento, AICP, PMP, LEED AP
Contract Manager

Education: MA, Architecture, University Institute of Architecture, Venice, Italy

Registration: American Institute of Certified Planners, #276197; Project Management Professional, Project Management Institute; Leadership in Energy and Environmental Design, US Green Building Associate; Architecture Registration Exams, Italy

Emma is a seasoned contract manager with over 20 years of experience overseeing complex capital programs. She excels in contract negotiation, compliance, and multi-stakeholder coordination, delivering infrastructure and public works projects on time and within budget for federal, maritime, and transportation clients.



Bob Sherwood, PE
Quality Control Manager

Education: BS, Civil Engineering, University of California, Irvine, CA

Registration: Civil Engineer, CA #64351; Coastal Engineering Certificate Program, Old Dominion University, Norfolk, VA

Bob is a civil/waterfront engineer with over 25 years of experience specializing in quality control for marine and coastal infrastructure. He has led inspection and QA/QC efforts on complex projects, ensuring compliance with engineering standards and delivering durable, high-performance solutions across public, industrial, and environmental sectors.



Mike Porter

**Inspector – Public Works
Infrastructure**

Registration: FAA Aircraft Repair
certificate #370510Drilling/Core
Sampling & Geotechnical Sampling

Mike is a Lead Inspector with over 30 years of experience in public works infrastructure. He specializes in QA/QC for roads, bridges, and highways, with expertise in materials testing, geotechnical sampling, and seismic retrofit inspections on major Caltrans projects across California.



Stacey Mauer, PMP, CPPM

Controls Lead

Education: Certified Practicing
Project Manager, Australian

Institute of Project Management; Diploma, Project Management, Scope Training Pty Ltd, Subiaco, WA; Certified Prince2 Foundation, Axelos, PeopleCert

Registration: Project Management Professional
#3855325, Project Management Institute

Stacey is a seasoned Project Controls Lead with over 16 years of experience managing cost, schedule, and risk on major infrastructure and transportation programs. She specializes in earned value analysis, forecasting, and contract administration, ensuring financial performance and compliance across complex, multi-million-dollar public sector projects.



Tony Andrews

**Inspector – Vertical &
Facilities**

Education: State of California
Vocational School, Welding
Certified

Tony brings over 35 years of experience in construction management and inspection. With a strong background in field supervision, he excels at identifying and resolving issues through hands-on collaboration with contractors and stakeholders. Tony has led inspection efforts across planning, procurement, and construction phases, ensuring quality, safety, and compliance. His deep trade knowledge and commitment to building strong working relationships make him a trusted leader on complex, high-impact projects.



Amir Ghavibazoo, PhD **Material Testing**

Education: Doctorate, Civil
Engineering, California State
University, Long Beach, CA; BS,
Civil and Environmental Engineering, California
State University, Long Beach, CA

Dr. Ghavibazoo is a pavement engineer and project manager with over 11 years of experience in materials testing. He specializes in asphalt mix design, geotechnical evaluation, and quality assurance. Amir leads innovative, cost-effective pavement solutions through rigorous testing, inspection, and engineering expertise across diverse infrastructure projects.

D.3

Understanding & Methodology Section



Overview

The City of Huntington Beach is implementing the projects from the Capital Improvement Program (CIP)—a strategic five-year initiative designed to enhance municipal infrastructure, improve quality of life for residents, and strengthen the City's appeal as a premier coastal destination.

GHD is proud to support this vision through our deep expertise in On-Call Construction Management, Materials Testing, and Inspection services. Our integrated delivery model—led by Certified Construction Managers (CCM) and Project Management Professionals (PMP)—promotes streamlined communication, strong accountability, and seamless execution from planning through completion.

GHD's strong local presence—anchored by offices in Irvine, Los Angeles, Long Beach, and Tustin—includes a team of 120 professionals with deep municipal project delivery knowledge and direct access to GHD's global network of multidisciplinary experts. This structure enables us to deliver tailored, high-quality solutions with the responsiveness of a local firm and the capabilities of a global organization.

Building on our ongoing involvement in the City's civil engineering and infrastructure design efforts, GHD facilitates a smooth transition from design to construction. This continuity supports early constructability reviews, proactive risk mitigation,

PMCMs Approach to Health and Safety

Training - All field staff are required to complete training to match the requirements of their onsite duties.

Job Safety and Environmental Analysis

(JSEA) - will be used to identify potential hazards, evaluate risks, and determine control measures before starting a job.

Daily - staff expectations for site visits - Vehicle Inspection, and pre-work assessment, used to help ensure staff are cognizant of the conditions under which they are about to work.

Oversight of Contractor - GHD on site staff will provide oversight for compliance with safety regulations.

Subconsultant approach - prequalification, audits, health and safety plan review.

real-time coordination between design and construction teams, and comprehensive post-award oversight. By aligning design insight with field implementation, we deliver a unified solution that optimizes schedules, controls costs, and upholds the highest quality standards.

GHD looks forward to supporting the City's mission of keeping Huntington Beach running smoothly on an everyday basis and becoming a more resilient City by managing the execution phase to provide water, street, and park structures and facilities as scoped in design. Urgent challenges around aging infrastructure, facility rehabilitation, system redundancy will provide excellent project opportunities to leverage the years of knowledge our design team has gained and transfer to the construction phase. Our construction leads will add value with a deep scope understanding, a better customized

selection of Contractors, and managing execution safely and with minimal interruptions to key services for users.

Our deep understanding of the City's infrastructure challenges further reinforces our role as a trusted partner and effective problem solver. For instance, our issue log identifies recurring geotechnical concerns at the McFadden Lift Station and Feeder No. 2 Pipeline projects. We conducted a thorough analysis of historical records and adjacent project documentation and collaborated closely with both internal and external geotechnical teams to resolve these issues. We meticulously documented the mitigated risks and shared key lessons learned across our local offices to inform future project planning. This proactive, solutions-oriented approach was also demonstrated during the City's other gas connection project, coordinating with Southern California Gas Company. Leveraging our technical expertise and stakeholder engagement skills, we successfully coordinated with the public and municipal agencies to address potential concerns related to safety and permits, resulting in smooth project execution and strong community alignment.

Our proven track record includes the successful management of complex municipal projects such as stormwater treatment system improvements in Wilmington and desalination plant repairs in Carlsbad. These projects reflect our commitment to delivering solutions that meet regulatory requirements and exceed client expectations. By leveraging advanced project delivery methods and certified testing protocols, we ensure durability, safety, and functionality across all project types.

To further support the City's goals, GHD has partnered with Twining, Inc.—a Caltrans-certified laboratory recognized for its excellence in materials testing. Twining provides a full suite of services across transportation, infrastructure, and municipal sectors. Their certified inspectors and advanced laboratories conduct rigorous testing of soils, concrete, asphalt, steel, and masonry in accordance with ASTM, AASHTO, and Caltrans standards. This partnership ensures that every material component performs as designed—minimizing risk and supporting long-term infrastructure resilience.

US WEST

ALTERNATIVE DELIVERY REPRESENTATIVE PROJECTS

Water

- Carlsbad Desalination Plant
- Huntington Beach Desalination Plant
- Union County Poplin Point Pump Station
- EPCOR Water Sun City Well Replacement
- East County Advanced Water Purification Project (ECAWP) Package 2 water pipeline
- Arcadia WTP Expansion and Olympic Sub Basin Restoration, City of Santa Monica
- Oliver P Roemer Facility, West Valley Water District
- East Garden Grove Wintersburg Channel
- Albert Robles Center for Water Recycling & Environmental (ARC), Water Replenishment District of Southern California

Energy & Resources Environment

- Rialto Bioenergy Facility
- Sun Valley Transfer Station and Material Recovery Facility

Property & Buildings

- California Health Care Facility Project
- Levi's Stadium

Federal

- Naval Surface Warfare Consolidation, Pacific Fleet
- Wharf Improvements, Guam
- Naval Air Weapons Station, China Lake
- Advanced Water Treatment Plant, Camp Pendelton
- Recycled Water Conveyance, Camp Pendelton

Transportation

- Holman Highway 68 Roundabout



Construction Management & Inspection Services

GHD's Construction Management Team (CMT) will coordinate with the city to discuss project details, review schedules, provide drafts for review and produce final documentation ready for the city council's signature. Throughout the construction phase, we will take a proactive approach to mitigate any disruptions to the contractor's schedule, ensuring that high-quality work is delivered. We will provide periodic updates, coordinate meetings and telephone calls, and promptly transcribe and distribute meeting notes. We will perform the following services:

Task 1 Project Management

Task 1.1 – Provide Management of GHD CM Services

GHD project management will prepare and maintain budgets and schedules for our CM services, instructions to the GHD team, field safety instructions, and routine progress reporting via Virtual Project Manager (VPM) and Project Tracking System (PTS) platforms as requested.

Task 2 Contract Management

Task 2.1 – Provide Project Coordination

We will coordinate with City staff to discuss and address project issues. We will accomplish this through daily/weekly email updates of the activities that preceded the work accomplished in the period when issues that occurred. The weekly update will be more in depth by providing a two-week schedule look ahead and will contain an ongoing list of outstanding critical issues.

Task 2.2 – Prepare and Conduct the Preconstruction Meeting

The pre-construction meeting will include the City, the design team, and the contractor. The CMT will prepare the agenda and meeting minutes. Before the meeting, the CM will prepare a draft contact list, including GHD staff, City staff, contractors, and others as appropriate. We will identify contact information for key personnel from each agency to be contacted in the event of an emergency. The CM will update, finalize, and distribute the list to all participants after the meeting, and to the police and fire departments.

Task 2.3 – Conduct and Document Project Meetings

We will conduct weekly progress meetings and other special technical meetings throughout the project. The CM will prepare the agenda, describing key issues, schedule status, and potential change orders, and distribute notes to meeting participants.

Task 2.4 – Review Contractor's Construction Schedule

We will review the contractor's project schedule for conformance with the specifications and reasonableness of activity durations and sequence. The CM will perform the following activities:

- Coordinate review comments by the City and design team and transmit review comments to the contractor.
- Meet with the contractor to discuss and clarify any significant issues, review revised schedules and work progress as compared to the as planned schedule, and notify contractor of schedule slippage.
- Review the schedule to determine weather and change order impacts on the construction schedule; and review the contractors' updates of the construction schedule that incorporates actual progress, weather delays, and change order impacts.

Task 2.5 – Maintain Project Records

We will maintain project records, including daily logs, inspection reports, compliance testing results, photos, measurement of quantities, schedules, submittals, RFIs, RFCs, PCOs, change orders, monthly pay requests, issues, and correspondence. We will maintain project records in an organized manner for quick reference. The project records will be a combination of the web-based management system and project-specific reports.

Task 2.6 – Review and Evaluate Monthly Progress Payments

We will review and evaluate the contractor's submitted monthly progress payment requests, negotiate payment differences, and recommend payment to the City. We will check quantity vouchers, signed independently by the CM, to monitor quantities paid against estimated quantities. Our CM will monitor certified payrolls. (This task was not included in the RFP Scope, and may be deleted if City staff will handle).

Task 2.7 – Prepare Monthly Status Reports

The CM will prepare and submit to the City a monthly progress report, which will include:

- A narrative description of the work and major tasks completed
- Schedule overview
- Contract change order summary
- RFI Summary
- Representative progress photos
- Summary of construction progress for the prior reporting period
- Inspection results
- Status of significant project issues
- Material testing reports

Task 2.8 – Requests for Information (RFIs)

The CM will coordinate, evaluate, and manage the process of responding to RFIs. This effort includes monitoring the electronic submittal and transmittal of RFIs and responses and providing responses to inquiries that relate to field



conditions. The CM and inspectors will review all RFIs to understand requirements and identify potential issues.

Task 2.9 – Potential Change Orders (PCOs) and Change Orders

The CM will coordinate and manage the change order process, including logging, reviewing them in conjunction with the design team and the City, assisting with determination of changed conditions and scope definition as needed, developing independent cost estimates, assisting with negotiation, and incorporating change orders into the construction contract.

Task 2.10 – Submittal and Shop Drawing Review Process

We will coordinate the submittal and shop drawing review process, including logging submittals from the contractor, transmitting them to the design team for response, coordinating with the design team on field status, tracking progress, reviewing responses, and transmitting responses to the contractor. Incomplete submittals will be returned to the contractor before being submitted to the

design team. The CM and inspectors will also review submittals of shop drawings, materials, test reports, and manufacturer cut sheets to understand installation requirements and identify potential issues.

Task 2.11 – Monitor Construction Record Drawings

We will require the contractor to maintain construction record drawings in coordination with the progress pay request. The drawings will be reviewed by the CM Team, annotated as appropriate, and provided to the design engineer to update the CAD files.

Task 2.12 – Monitor Labor Compliance

We will notify the contractor and ensure compliance with prevailing wage requirements by conducting spot checks on adherence to state labor laws and documentation, including certified payroll. Daily reports will be prepared, detailing employees, labor classifications, hours worked, and equipment used on the project. We will verify that apprentices are employed, confirm that David-Bacon or state prevailing wage rates are paid, and ensure the contractor displays all required posters, notices, and wage determinations at the job site.

Task 2.13 – Perform Claims Management

We will analyze potential claims for additional compensation submitted during the construction period and make recommendations to the City for resolution. The CM will coordinate and monitor claims response preparation, logging and tracking status, monitoring and assisting in mitigating any potential project claim, and supporting in defending any construction claims. We will negotiate construction claims as an extra service.



Task 3 – Provide Field Inspection/ Observation

GHD will provide on-site construction inspector/ observer to monitor the contractor's work for compliance with the contract documents, submittals, RFIs, change orders, traffic and pedestrian control plan, public outreach plan, and environmental compliance. The contractor's certified payrolls will be checked and documented by the inspector.

Task 3.1 – Prepare Photograph or Video Documentation

We will document initial site conditions before the contractor's commencement of construction using either still photographs or video and will provide additional photos of construction progress periodically throughout construction, including:

- will coordinate with assigned inspectors to monitor and enforce construction noticing requirements including, but not limited to SWPPP requirements.

Task 3.2 – Document Field Changes to the Drawings and Specifications

We will document field changes to the contract documents on a real-time basis during the progress of construction.

Task 3.3–Daily Observation and Reports

We will conduct daily observation, including monitoring for compliance with the technical and administrative requirements in the Contract Documents. The Inspector will prepare daily observation reports, including employee names and labor classification, equipment identification, hours that were worked and equipment utilized, weather conditions, and issues, observations, and significant conversations between the inspector and the contractor and public. The daily reports will have photographs and material tags.

Task 3.4 – Develop Punch List

We will develop a preliminary punch list for the project and maintain a running punch list through the project course. The CMT will schedule the City and design team to conduct completion inspections and issue final punch lists.

Task 3.5 – Compile Final Records/Closeout

We will provide the City with a complete set of project records, indexed and filed, and a list of warranties provided under the project including the items covered and the warranty duration. The required closeout documentations listed on RFP, including but not limited to inspection records, NOC, manuals, as-built drawings, lien releases, will be all in electronic format, and submitted digitally.

Task 3.6 – Prepare Final Pay Estimates

We will prepare the final pay estimate and balancing change orders, prepare the Notice of Completion, and coordinate retention release after construction.

Task 4 – Materials Testing

GHD's locally partnered materials testing laboratory, Twining, Inc., a Caltrans-certified facility, will perform tests and review laboratory, shop, and mill test reports of materials and equipment, coordinating as needed with Design Engineers. All testing procedures follow industry standards, with results meticulously certified and documented to support compliance and maintain transparency.

Methodology: GHD's Program Management Approach

At GHD, our team of experts has experience in delivering complex projects across various sectors listed on the City of Huntington Beach Capital Improvement Program, including Linear Water Infrastructure & Wastewater Treatment, Transportation/Traffic Control, Fiber Optic, Park Development, and Tenant Improvement projects. Our company and key personnel have a deep understanding of the unique challenges and requirements of each project type, allowing us to provide the right solutions that meet the specific needs of our clients. In addition to our sector-specific experience, our team has also worked on a range of specialized projects, including environmental work. This has given us a unique understanding of the importance of environmental sustainability and the need to balance project goals with environmental considerations.

The application of personal wellness practices to construction projects monitors important functions, provides important information to the team, and facilitates appropriate responses to project challenges.



→ Methodology: Client Satisfaction



To achieve client satisfaction and meet project requirements, GHD will undertake the following efforts:

Understanding Client Needs: We prioritize comprehensive initial consultations to gain a deep understanding of our clients' unique needs, goals, and expectations. This involves engaging in detailed discussions and asking insightful questions to uncover all relevant aspects of the project. We also conduct thorough requirement analyses to capture every detail necessary for success. This approach allows us to tailor our services to meet and exceed client expectations, building a strong foundation for a successful partnership.

Effective Communication: We are committed to maintaining transparent and consistent communication throughout the project. Regular updates will be provided through meetings, detailed emails, and comprehensive reports to keep the City fully informed of our progress.

A robust feedback mechanism will be in place to promptly address any concerns or requested changes, allowing us to remain responsive and aligned with the City's needs.

Timely Delivery: Each project phase will be carefully planned and monitored using advanced project management tools and methodologies. By optimizing resource allocation and applying proactive risk management strategies, we aim to avoid delays and promote seamless, efficient execution.

Technical Expertise: A team of highly skilled professionals with relevant experience will be assigned to each task. We invest in continuous training and professional development to keep our team at the forefront of industry advancements. This commitment allows us to apply the latest technologies and methods, delivering innovative and effective solutions.

Sustainability and Compliance: Sustainable practices will be integrated into project execution to align with the City's goal of Profitability through Sustainability. All project activities will be conducted in accordance with applicable laws, regulations, and industry standards.

Client satisfaction ratings

We aspire to be the partner our clients rely on to achieve what matters most to them, their business, and the community in which they operate. Our Commitment begins with "Your Voice," our client feedback program. The program goes beyond listening, capturing the intricacy of client sentiment, and gathering meaningful and actionable feedback. It provides insights that enable us to deeply understand how our clients feel, think, and act. We want to do more than just listen; we want to deliver exceptional experiences by continually enhancing and adapting to meet our clients evolving needs.



Four key components to GHD's approach:

1. Project communications and tracking
2. Task planning/problem avoidance
3. Problem solving
4. Critical response

1 Project Communications and Tracking

The most important factor in the success or failure of a construction project is often communication. Clear communication between the design team, the field staff, and the City is critical to understanding priorities and establishing good working relationships that will foster the trust needed to work through significant project issues. Clear construction documentation is essential to support personal communications and to understand project status. GHD uses document controls to organize critical documents and track critical performance metrics. Like a dashboard for your project, document controls:

- Provide a quick overview of performance metrics
- Allow users to drill down into critical data
- Has alert and e-mail notification capabilities
- Provide reports that illustrate project performance
- Share information across the project team.

Similar to a focus on healthy personal habits, document controls support healthy project habits.



2 Task Planning/Problem Avoidance

GHD recommends a pre-task planning session before the start of a new activity or work with a new crew, similar to an OSHA Job Hazard Analysis. Just as a task is evaluated from a safety perspective, GHD recommends meeting with the contractor to evaluate each new task from a quality control perspective. Assuring that the construction crew has a clear understanding of the work required and the associated quality control requirements before beginning the task is the best way to build quality into a project. Similar to checking that the necessary Personal Protective Equipment (PPE) is on-hand as part of a Job Hazard Analysis, a quality control task analysis includes assuring that the necessary tools, materials, and equipment are on-hand, including confirmation that the associated submittals have been approved, and any quality control inspections or testing are scheduled. Spending time before the task to review requirements and anticipate potential challenges is preventive medicine for the project's health.

3 Problem Solving

Despite tracking to encourage healthy project habits and planning to avoid hazards, challenges come up on every project. Like personal care physicians, GHD's construction management team takes an active role in:

- Diagnosing the problem
- Evaluating alternatives
- Working with the contractor, City, design team, and other stakeholders to identify the solution that will restore the project to health as efficiently as possible

Initiating discussions on contentious issues as soon as they arise can allow the resolution of potential claims before the parties become entrenched. GHD fosters a team approach to project issues so that challenges are less likely to inflame adversarial relationships and have a long-term impact on project success.

4 Critical Response

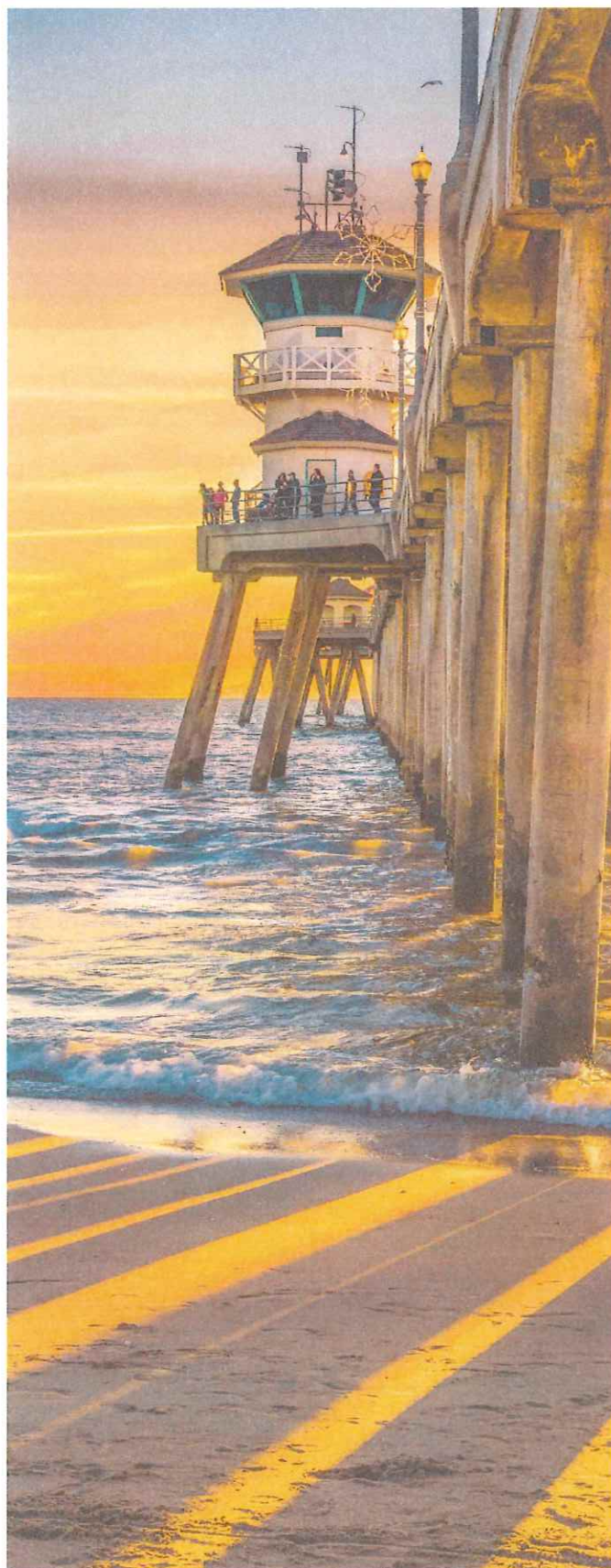
GHD's Construction Management Approach – Good for the “Wellness” of Your Project Sometimes, projects are threatened by urgent issues, either due to the actions of one of the project team members or due to something beyond the control of the team. Regardless of cause, professional relationships, clear communications, and a commitment to project success will allow project participants to work as a surgical team to resolve the issue effectively. Like a critical care unit, GHD has subject matter experts who can be engaged quickly to assist in pinpointing the most urgent steps to minimize collateral schedule and cost impacts.

Methodology: Construction Phase Approach

Schedule Control

GHD will adopt a proactive stance to help deliver the project with excellence—maintaining high quality standards, staying on schedule, and meeting budgetary goals. While change is often unavoidable in construction projects, our focus remains on preemptive planning and effective communication to minimize its impact.

Approach: Upon written or verbal request, and depending on the type of project, in-person meetings can generally be scheduled within the following week, while virtual meetings can be scheduled on shorter notice. For larger projects, formal schedules will be created using Microsoft Project to identify critical path tasks and resource requirements. From the kickoff date, milestones are set for each project task for peer review of project deliverables. As the project advances, the schedule is watched closely so that the items are completed within the time required.





Result: GHD will create, maintain, and refine the project schedule developed in coordination with the city staff to produce the baseline schedule. The schedule will be used to establish and monitor the project milestones and critical path items for deliverables, agency submission, and meetings. GHD's Project Manager will provide regular updates of the project schedule and submit to the city prior to each progress and or milestone meeting. GHD's Project Manager will further call on any resources necessary to address schedule issues.

Cost Control

We have extensive experience managing both participating and non-participating costs for various grants and funding sources. When needed, we implement tracking systems that support accurate accounting. GHD's in-house accounting systems are robust and fully compliant with state and federal requirements for both direct and indirect cost accounting.

Approach: GHD will establish a pattern of open communications and a team approach to problem solving to allow proactive handling of issues whenever possible. To facilitate staying current with project changes, we recommend conducting weekly coordination and progress meetings. Following routine coordination tasks and updates, leaders representing the city, PM/CM, and contractor teams can convene to review the comprehensive schedule and assess the status of change orders.

Result: Weekly coordination and progress meetings establish a target time for completion of change order paperwork and an opportunity to

advance resolution of project issues with senior management.

Constructability reviews

Constructability reviews play a vital role in the successful execution of construction projects. These evaluations examine design contract documents to verify that all necessary project information is clearly described and included. This process helps identify potential issues early, allowing for timely adjustments that can save both time and cost during construction. By taking a proactive approach, constructability reviews enhance project efficiency and feasibility while helping the final outcome align with the intended design and quality standards.

Approach: GHD will collaborate with the internal engineering resources to review and provide expert's input on designs in early phases. This collaborative effort will enable the team to review constructability concurrent to the project progression, quickly adapt to necessary changes, meet the deadlines of aggressive schedules.

Result: The city will benefit from GHD's flexible approach that can adapt to changing project needs and requirements based on field expert's feedback.

Risk Management

GHD will oversee all risk management activities throughout their assigned project throughout the project phases. The process begins with identifying potential risks during the development of the project approach and continues to be revisited throughout the project's lifecycle as part of ongoing project control.

Approach: All identified risks are documented in a Risk Register, where they are addressed and tracked to prevent adverse effects on the project schedule or budget. If a risk cannot be fully avoided, it is flagged as a potential impact to cost or timeline. Upon identification, we conduct a comprehensive brainstorming session involving technical, budgetary, and management professionals.

Result: This collaborative effort focuses on developing solutions that either eliminate the risk or reduce its impact. Through proactive risk management, we work to maintain project integrity and support successful delivery within the defined constraints.

Dispute Resolution

Identification of potential problems, risks, and concerns is crucial to ensuring a project's success. Building strong relationships with all stakeholders is vital to developing solutions that align with key project objectives.

Approach: During the early stages, we prioritize active listening over proposing solutions, recognizing that this approach creates a deeper understanding of stakeholders' needs. By implementing effective communication strategies, we can establish a collaborative environment among stakeholders, reducing the likelihood of conflicts. However, if disputes do arise, GHD adopts a tiered approach to resolution. Initially, we attempt to resolve issues at the lowest possible level, involving the Project Management team from both GHD and the City. If necessary, we escalate the issue to a higher level, scheduling in-person or virtual meetings with the Project

Director, Quality Assurance Manager, and Upper Management City staff to reach a resolution.

- **Communications:** Establish and maintain routine communications to build relationships and facilitate the necessary conversations to overcome obstacles, solve problems, and neutralize areas of potential dispute. We will facilitate good team communication through daily interactions, weekly coordination meetings, and monthly progress meetings.
- **Issue escalation:** Mutually agree to time frames to escalate issues for resolution. Employ staff to resolve issues at the lowest practical level and elevate quickly if relevant information is known and the current level of ownership is unable to resolve an issue.
- **Decision-making:** Keep management informed so that efficient decisions are made when needed by team members not involved in day-to-day activities.

Result: Our goal is to identify viable alternatives and dispute avoidance. We will proactively seek for resolutions with positive attitude and a culture of collaboration.





→ Appendix A Resumes



Steve Briggs, ccm
Construction Manager

Contact

- 📞 949-815-3816
- ✉️ steve.briggs@ghd.com

👤 Years' Experience

25

- #### ⚙️ Professional Licenses
- Certified Construction Manager #9585, Construction Manager Certification Institute
 - State Contractor's License "B", CA #831646

- #### ✍️ Qualifications/Accreditations
- AS, Construction Technology, Penn Foster College

- #### ⚙️ Key Technical Skills
- Construction Management
 - Contractor/Subcontractor Coordination & Management
 - Change Orders & Claim Resolution
 - Client/Contractor Engagement
 - Coordination with Stakeholders

- #### 👥 Memberships
- Construction Management Association of America

Steve is a Certified Construction Manager with over 25 years of experience leading infrastructure and facility projects. He specializes in construction oversight, team coordination, and contract administration, managing multidisciplinary teams on public works projects exceeding \$40 million in value.

Relevant Experience

Design, Procurement, and Construction of Mini-High ADA Ramps and Platforms | San Joaquin Regional Rail Commission | San Francisco Bay Area to Bakersfield, CA | Senior Project Manager. Led the design and construction of ADA-compliant mini-high platforms at all stations along the Amtrak San Joaquin route. Oversaw all phases from concept through construction, including stakeholder coordination, schedule management, and quality assurance. This project demonstrates Steve's expertise in accessibility compliance, public infrastructure, and managing multidisciplinary teams.

Modification and Overhaul of Existing State-Owned Rolling Stock | Caltrans Division of Rail & Mass Transit | California | Project Manager. Managed multiple concurrent projects involving HVAC upgrades, flooring replacement, digital train line integration, and ADA communication system enhancements across a fleet of 140+ railcars. Coordinated engineering, QA/QC, and contractor oversight. This work reflects Steve's ability to manage complex, multi-site infrastructure upgrades with a focus on MEP systems and public safety.

Siemens Single-Level New Car Deployment - Maintenance Facility Expansion | Caltrans | Stockton, CA | Task Order Manager. Oversaw the expansion of the Altamont Corridor Express (ACE) maintenance facility to accommodate new Siemens trainsets. Responsibilities included managing design and construction coordination, stakeholder engagement, and compliance with state oversight. This project aligns with the City's vertical construction goals and demonstrates Steve's experience with facility retrofits and infrastructure expansion.



Youngha Choi, LEED GA
Assistant Project Manager

Contact

- 📞 562-206-7985
- ✉️ youngha.choi@ghd.com

👤 Years' Experience

8

⚙️ Professional Licenses

- LEED Green Associate Certification; #11201526
- CA Department of Real Estate Sales; #20195785

✍️ Qualifications/Accreditations

- B.S. Architecture; University of Michigan
- OSHA 30 Certification

⚙️ Key Technical Skills

- Architecture & Design
- Construction Management
- Contract Review and Negotiation
- Budget & Schedule Forecasting/ Reporting
- Client/ Stakeholder/ Subcontractor Coordinations
- Quality Control & Assurance

👥 Memberships

- Project Management Institute

Youngha is an Assistant Project Manager with 8 years of experience supporting commercial, industrial, and residential developments up to \$20M. Skilled in coordinating teams, managing budgets and schedules, and ensuring safety compliance, Youngha consistently delivers high-quality results while fostering strong client relationships and supporting sustainable project goals.

Relevant Experience

Baker Hostetler and Confidential Clients – Global Scale Law Offices | Century City, CA | Owner's Rep Project Manager.

Managed multiple high-end tenant improvement projects in Class A buildings, each averaging \$15M. Demonstrated excellence in contract review, change order negotiation, and financial forecasting. Delivered complex AV/IT and MEP upgrades under tight constraints, earning client accolades for transparency, efficiency, and high-quality execution.

New Balance Retail Store Rollout | US & Canada | Owner's Rep Project Manager.

Oversaw 25 retail construction projects across North America, managing up to 5 simultaneously. Implemented innovative coordination strategies and risk mitigation tools to ensure on-time, on-budget delivery. This project highlights Youngha's ability to manage multiple contracts, teams, and schedules in fast-paced environments.

Alpine Corporation Warehouse Development | Simi Valley, CA | Owner's Rep Project Manager.

Led a \$20M industrial warehouse development, integrating tilt-up construction, stormwater systems, and a client-facing office. Managed all phases from design through delivery, ensuring compliance, functionality, and cost-effectiveness. This project demonstrates Youngha's ability to manage large-scale construction with a focus on logistics and operational efficiency.



Emma Del Vento, AICP, PMP, LEED AP

Contract Manager

Contact

- 425-412-6249
- emma.delvento@ghd.com

Years' Experience

23

Professional Licenses

- American Institute of Certified Planners, #276197
- Project Management Professional, Project Management Institute
- Leadership in Energy and Environmental Design, US Green Building Associate

Qualifications/Accreditations

- MA, Architecture
- Architecture Registration Exams, Italy

Key Technical Skills

- Program Management
- Urban Planning
- Project Delivery
- Capital Program Delivery
- Aviation and Maritime
- Defense and Sustainability
- Asset Management
- Disaster Preparedness

Memberships

- MentorPOS Everyone Program
- American Planning Association Puget Sound Section Treasurer
- Port of Seattle Development and Diversity Council, Leadership Team
- Future Cities Essay and Regional Judge
- Federal Planning Division Awards Committee, Vice-Chair, Chair
- Jacobs Inclusion and Diversity Ambassador
- CH2M Ethics Ambassador
- CH2M Women's Network Chapter Lead & External Engagement Committee

Emma is a seasoned program manager, architect, and urban planner with 23 years of experience delivering complex, high-value engineering projects globally. She specializes in defense, aviation, maritime, and sustainability, with a strong leadership background and a commitment to equity, resilience, and innovation in public and private sectors.

Relevant Experience

Port of Hueneme – CalSTA Grant Management | Port of Hueneme | Oxnard, CA | Program Manager. Emma is currently managing 13 projects totaling \$80 million under the California State Transportation Agency (CalSTA) grant. Her responsibilities include overseeing contract execution, budget tracking, and coordination of infrastructure upgrades such as zero-emission systems and building removals. This role demonstrates her direct oversight of contract compliance and multi-project delivery.

Port of Seattle – Terminal 5 Modernization Program | Port of Seattle | Seattle, WA | Capital Program Leader. As Program Manager for the \$450 million Terminal 5 Modernization Program, Emma led contract administration, risk mitigation, and consultant performance monitoring. She collaborated with finance and executive leadership to align capital planning with business goals, showcasing her ability to manage large-scale contracts and stakeholder expectations.

US Army Corps of Engineers – Korea Military Transformation Program | USACE | South Korea | Planning Department Head and Project Manager. Managed a \$12 billion design and construction program for U.S.-Korean military transformation. Emma led a multidisciplinary team, overseeing contract execution, planning, and delivery across multiple installations. This project highlights her experience with high-value, complex contract environments and international coordination.



Bob Sherwood, PE
Quality Control Manager

Contact

- 949-648-5262
- robert.sherwood@ghd.com

Years' Experience

25

Professional Licenses

- Civil Engineer, CA #64351

Qualifications/Accreditations

- BS, Civil Engineering
- Coastal Engineering Certificate Program

Key Technical Skills

- Inspection of Marine Structures
- Master Planning and Design
- Recreational Boating Facilities
- Shore Protection and Restoration
- Grant Funding Assistance

Memberships

- American Society of Civil Engineers, Los Angeles, Harbors & Waterways Technical Group, Past Chairperson
- University of California – Irvine, Chapter of Chi Epsilon, Engineering Honors Society Past President

Bob is a civil and waterfront engineer with over 25 years of experience in marine infrastructure, inspection, and construction management. He specializes in quality control, structural assessments, and shoreline protection, with a strong track record supporting public agencies on complex waterfront and environmental projects across North America.

Relevant Experience

Raley's Dock Replacement | City of West Sacramento | Sacramento, CA | Waterfront Engineer (QC Check). Reviewed project submittals and RFIs during construction and led overall quality control for a dock facility on the Sacramento River, ensuring ADA-compliant access and verifying structural elements including berthing docks, guide piles, and a debris deflection barrier.

Carlsbad Desalination Plant Intake Structure | Claude "Bud" Lewis Carlsbad Desalination Plant | Carlsbad, CA | Waterfront Engineer (Owner's Representative). Assisted with overall quality control for the Carlsbad Desalination Plant intake structure by reviewing project design, submittals, and RFIs during construction. Ensured compliance with marine construction standards for rotating screens, cleaning systems, and water circulation infrastructure.

Esquimalt Graving Dock Water Lot Remediation – Phase 2 | Public Works and General Services Canada | Victoria BC, Canada | Quality Assurance/Quality Control (QA/QC) Lead Inspector. Involved in the development of drawings and specifications, and ultimately served as Lead Inspector for the demolition of an existing wharf and dredging of contaminated sediment, representing design firm of record for Public Works and General Services Canada.



Mike Porter

Inspector - Public Works Infrastructure

Contact

 mike.porter@ghd.com

 **Years' Experience**
30

 **Qualifications/Accreditations**
- FAA Aircraft Repair certificate
#370510Drilling/Core
Sampling & Geotechnical
Sampling

 **Key Technical Skills**
- Drilling/Core Sampling &
Geotechnical Sampling
- Nuclear Density Gauge Testing
- Material Sampling and Testing
- Plant Batch Inspections
- Contractor Progress
Inspections and Verifications

Mike is a veteran QA/QC inspector with 30 years of experience in public works infrastructure. He specializes in seismic retrofits, bridge and highway inspections, and materials testing. With a strong background in Caltrans projects, Mike ensures construction quality and safety through rigorous inspection, sampling, and verification processes across California.

Relevant Experience

Coronado Bridge Foundation Retrofit | Caltrans | San Diego, CA | QA/QC Manager. The Coronado Bridge Foundation Retrofit project aimed to enhance the seismic resilience of the iconic Coronado Bay Bridge in San Diego. The retrofit involved replacing existing rigid bearings with elastomeric isolation bearings at 13 support piers to improve seismic behavior. Additionally, dampers were installed between piers and the superstructure to provide a flexible, energy-dissipating connection. These measures were designed to ensure the bridge's structural integrity and safety during earthquakes.

Loma Prieta Earthquake I-880 Freeway Repair/Replacement | Caltrans | Oakland, CA | QA/QC Technician. The Loma Prieta Earthquake in 1989 caused significant damage to the I-880 Cypress Street Viaduct in Oakland, leading to its collapse. The project included fabricating and installing 13 prefabricated bridge sections, ensuring a robust and resilient replacement.

Hwy 14 / I-5 Interchange Earthquake Emergency Bridge/Overpass Repairs | Caltrans | Santa Clarita Valley, CA | QA/QC Technician. The Hwy 14 / I-5 Interchange Earthquake Emergency Bridge/Overpass Repairs project was initiated in response to the severe damage caused by the Northridge Earthquake in 1994. This project focused on repairing and retrofitting the interchange to restore its structural integrity and ensure safety for motorists. Key activities included replacing damaged bridge sections, reinforcing support structures, and implementing seismic retrofits to enhance earthquake resilience. The project was completed efficiently, minimizing disruption to the vital transportation network.



Tony Andrews

Senior Construction Manager



Contact

- 📞 213.627.7371
- ✉️ tony.andrews@vanir.com

👤 Years' Experience

36

- #### 📝 Qualifications/Accreditations
- OSHA 10-Hr
 - State of California Vocational School, Welding Certified

- #### 👥 Memberships
- Construction Management Association of America (CMAA)
 - Design-Build Institute of America (DBIA)
 - US Green Building Council (USGBC)
 - San Diego County Advisory Committee for the State of California Regional Occupational Program
 - Riverside County Advisory Committee for the State of California Regional Occupational Program

Tony has over 35 years of comprehensive construction management and superintendent experience. He has a unique combination of the skills necessary to successfully manage challenging construction projects honed through years of working with contractors, trades, equipment suppliers and owners. He has facilitated planning, design, procurement and construction to control schedule, cost, scope and quality effectively. He is highly motivated to build effective and productive relationships with owners, subcontractors, and team members to succeed on every project. Having spent many years in the trades, he is incredibly skilled at identifying and resolving issues collaboratively with contractors, subcontractors and stakeholders.

Relevant Experience

El Centro New Courthouse | Judicial Council of California | El Centro, CA | Project Manager/Construction Manager.

As Project Manager/Construction Manager for a \$74 million, 47,234 GSF CMAR courthouse project, Tony oversaw all phases of construction, including site development, building systems, and LEED Silver compliance. He managed off-site utilities and ADA access, reviewed schedules, costs, RFIs, pay applications, and change orders. Tony coordinated with engineers, architects, contractors, and suppliers, advised the client on project developments, and ensured completion of commissioning, punch list items, claims resolution, as-builts, and warranties.

Harrison Elementary School | Riverside Unified School District | Riverside, CA | On-site Senior Project and Construction Manager.

As Project Manager for a \$12 million multi-prime elementary school modernization and new construction project, Tony managed utility coordination, bringing all wet and dry utilities to the site, and supported storm drainage design and installation. He provided owner-advisory services, helping the client manage multiple trade contracts, ensuring coordination, quality, and timely delivery across all major work elements.



Stacey Mauer, PMP, CPPM
Controls Lead

Contact

- ☎ 808-470-4505
- ✉ stacey.mauer@ghd.com

Years' Experience

16

Professional Licenses

- Project Management Professional #3855325, Project Management Institute
- Certified Practicing Project Manager, Australian Institute of Project Management

Qualifications/Accreditations

- Diploma, Project Management, Scope Training Pty Ltd, Subiaco, WA
- Certified Prince2 Foundation, Axelos, PeopleCert

Key Technical Skills

- Program Cost Control
- Earned Value Analysis and Estimate at Completion (EAC) & Forecast Reporting
- Project Management & Program Management
- Contract Management & Administration
- Subcontractor Management
- Risk Management & Mitigation

Stacey is a certified project controls professional with 16 years of experience managing cost, schedule, and performance for large-scale infrastructure and transportation projects. She specializes in earned value management, forecasting, and cost reporting, delivering consistent results across rail, transit, and defense sectors in both U.S. and Australian markets.

Relevant Experience

Red Line Extension and Maintenance Yard and Facility Projects | Chicago Transit Authority | Chicago, IL | Project Controls Manager. TYLin provided the final Environmental Impact Statement, Record of Decision, and preliminary engineering services for the Red Line Extension in Chicago, Illinois.

- Managed the Project Cost Controls function for the two projects, tracking all incurred costs, EAC, invoicing management.
- Established project cost management procedures to drive best practice and consistency across the projects and the Central Region.
- Collaborated with project leaders and senior management for the collection, analysis and reporting of information regarding project planning, scheduling and monitoring of cost and schedule performance during project delivery.

Australian Rail Track Corporation, Inland Rail - Illabo to Stockinbingal (I2S) and Narromine to North Star (N2NS) | WSP/MM Joint Venture (JV) | Brisbane QLD/NSW | Project Controls Lead. The I2S project involves the construction of 37km of new rail corridor and 2km of upgraded track. The N2NS section will upgrade 189kmm of existing rail corridor and construct 2km of new track. The project scope involved the Environmental Impact Statement, Reference, and Detailed Design.

- Managed \$60 million program by monitoring expenditure, calculating forecasts, performing earned value, cost reporting.
- Collaborated with project leaders, engineering teams, senior management for the collection, analysis and reporting of information regarding project planning, scheduling and monitoring of cost and schedule performance during the delivery of various projects



Amir Ghavibazoo, PhD
Materials Testing

Contact

- 📞 562.900.5258
- ✉ aghavibazoo@twininginc.com

👤 Years' Experience

11

📝 Qualifications/Accreditations

- PhD, Civil and Environmental Engineering
- MS, Railways Engineering
- BS, Industrial Engineering

⚙️ Key Technical Skills

- Analysis of interaction between rubber and asphalt binder
- Research on effect of rubber modification of different aspect of rubberized asphalt performance
- Specialized in asphalt materials, asphalt materials testing,
- Specialized in project level pavement evaluation
- Develop pavement management system (MicroPaver)
- Perform pavement evaluations
- Develop volumetric mix designs for rubberized and unmodified asphalt binder following Superpave specifications
- Develop volumetric mix designs incorporating Reclaimed Asphalt Pavement (RAP) material.
- Develop Cold Recycling Mix Design incorporating 100% Rap
- Develop Soil Stabilization Mix Designs (Cement and Lime)

Dr. Ghavibazoo, Ph.D. in Civil Engineering, is a recognized expert in pavement materials, specializing in pavement design, evaluation technologies, asphalt mix design, material characterization, and preservation strategies. With advanced degrees in Civil and Environmental Engineering, Railways Engineering, and Industrial Engineering, he offers a multidisciplinary approach to delivering cost-effective, high-quality pavement solutions. Since joining Twining in 2014, he has applied both empirical AASHTO and Caltrans Mechanistic-Empirical methods, along with advanced pavement management systems, to optimize project efficiency. He also serves as an adjunct professor at California State University, Long Beach, teaching graduate-level Pavement Design.

Relevant Experience

Edinger Ave Bridge Widening Over Santa Ana River | Orange County Public Works | Orange County, CA | Pavement Engineer. Amir served as Project Manager for the Edinger Avenue Bridge Widening project, overseeing concrete and pavement testing and inspection to ensure compliance with project specifications and quality standards under the Orange County Public Works on-call contract.

Edinger Ave Widening | City of Huntington Beach | Huntington Beach, CA | Pavement Engineer/Project Manager.

Amir served as Senior Pavement Engineer/Project Manager for the Edinger Avenue Widening project, managing the quality assurance program, overseeing asphalt inspection and testing, and ensuring compliance with Caltrans specifications.

Nichols Lane Rehabilitation Project | City of Huntington Beach | Huntington Beach, CA | Pavement Engineer/Project Manager.

Amir served as Project Manager for the Nichols Lane rehabilitation project, overseeing material sampling and testing, providing technical guidance to the City, and developing cement-treated soil mix designs to ensure quality exceeded expectations.

Leffingwell Road Rehabilitation | City of La Mirada | La Mirada, CA | Pavement Engineer.

The project consisted of the grinding and overlaying of the existing pavement with updating the curb and gutter. Twining provided quality assurance material testing and inspection of asphalt and soils on this rehabilitation. Amir served as pavement engineer and project manager.



Gerard Pena

Construction Inspector



Contact

📞 916.575.8888

✉️ gerard.pena@vanir.com

👤 Years' Experience

6

🔧 Qualifications/Accreditations

- OSHA 30-Hour
- International Code Council (ICC), Reinforced Concrete Special Inspector - 47
- ICC, Prestressed Concrete Special Inspector - 92
- ICC, Grouting and Masonry Certifications
- ICC, Structural Steel Welding Special Inspector
- ICC, Commercial Building Inspector
- ICC, Spray Applied Fireproofing Special Inspector - 86
- ICC, Master of Special Inspections (MSI)
- American Concrete Institute (ACI), Concrete Field-Testing Technician Grade 1
- ACI Post-Installed Concrete Anchor
- Pacific Nuclear Technology Gauge Safety Operator, Gauge Safety

👥 Memberships

- Construction Management Association of America (CMAA)
- Design-Build Institute of America (DBIA)
- US Green Building Council (USGBC)

Gerard is an experienced construction inspector with a strong background in QA/QC and quality control management across all phases of construction. Gerard is skilled in contributing to preconstruction meetings, reviewing safety standards, structural drawings and project specifications. He has experience in conducting comprehensive inspections of materials, structural components and workmanship, including concrete reinforcement, post-tensioning, welding, soils and asphalt paving. Gerard ensures compliance with project requirements through detailed documentation, daily reporting and continuous communication with site superintendents, while identifying and reporting non-conforming items with actionable recommendations.

Relevant Experience

SMForward Program SMF Terminal B Parking Garage and Pedestrian Walkway | Sacramento International Airport | Sacramento, CA | Building/Construction Inspector, Group 1.

Gerard served as Construction Inspector for the SMForward parking garage at Sacramento International Airport. He conducted field inspections and quality control for structural, safety, and accessibility components, including the pedestrian bridge and vehicle counting system, ensuring compliance with project specifications on this \$1.3B capital improvement project.

San Francisco Department of Public Works | Geary Rapid East of Van Ness | San Francisco, CA | QC Inspector.

This \$35M, 7,700-linear-foot infrastructure project involved roadway and curb ramp renovations, side sewer and culvert replacements, and watermain upgrades using ductile iron pipe. Gerard performed subgrade compaction testing, grading oversight, and inspections for concrete pavement, traffic signals, and underground utilities per SFDPW specifications.

California Department of Water Resources | Palermo Canal Improvements | Oroville, CA | QC Inspector.

Gerard conducted quality control inspections for a \$100K, 1,200-linear-foot shotcrete lining project. He verified compliance with specifications, monitored shotcrete mix quality, and ensured proper application techniques were followed throughout the project to maintain structural integrity and meet performance standards.

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.



2025 Rate Schedule Notes

1. Basis of Charges

- Rates are for employees of GHD companies and subject to project and task specific proposals, agreements, and contracts.
- Field services are billed based on time required for staff to reach the project site from the GHD office providing the service required.

2. Direct Costs and Reimbursables

- Vehicle mileage, for staff who travel >50miles will be charged in accordance with government regulated standard rates.
- The 2025 mileage reimbursement rate for US employees increased to \$0.70 per mile based on the IRS published rate (up from \$0.67 per mile in 2024).
- Lodging, meals, travel for staff who travel >50miles will be charged at cost plus agreed markup unless a per diem rate is negotiated.

3. Administrative Project Costs

- An administration fee will apply to all invoices to cover in-house disbursements (Associated Project Costs) on a project. This will be charged at a rate of: Hourly rate of USD \$6.50

4. Specialty Software

- Specialty Construction Management software will be charged at cost.

5. Markups

- All other project related disbursements, expenses and subcontractor costs will be invoiced with a markup of 10%.

6. Annual Increase

- Fee schedule is subject to 4% increase annually on July 01 starting in 2026.

7. Prevailing Wage Rates

- The rates presented in this Fee Schedule are applicable for projects where there has been a General Prevailing Wage Determination made by the Director of Industrial Relations pursuant to California Labor Code Part 7, Chapter 1, Article 2, Sections 1770, 1773, and 1773.1 for commercial building, highway, heavy construction and dredging projects.

8. Non-Exempt Staff

- Regular time charges are applicable to services initiated Monday through Friday (excluding holidays), between 6:00am and 4:00 pm.
- Premium charges are applicable for services greater than 8 hours, night times, on holidays, and weekends.

Rate Schedule Notes

GHD Equipment Charge-Out Rates FY2025

SECTION 1										
BST Code				DESCRIPTION	CHARGE-OUT RATES				NOTES	
					HR	DAY	WEEK	MONTH		
US	CDN	BST8	BST10							
<u>AIR TESTING</u>										
U	C	0007	N2019	Air sampling, pump, SKC, Air Chek 52, Air Chek 2000 & Bios		35	120	310		
U	C		N2238	GilAir Air Sampling Pumps		35	125	315		
U	C	0009	N2020	Air sampling, Vac-U-Chamber (lung sampler)		50	150	450		
U	C	0074	N2022	Anemometer, Thermal Dwyer		30	90	360		
U	C	0075	N2024	Anemometer, TSI Velocicalc		60	180	540		
U	C	0025	N2047	Calibrator, air sampling, Buck (mini), Bios & SKC		45	135	360		
U	C	0026	N2046	Calibration Kit for Hi-Vol, PUF, PM-10 Samplers		30	90	225		
U	C	0003	N2113	Hand pump, air sampling, All Types		20	60	155	Cost of tubes extra.	
U	C	0284	N2115	High Volume Air Sampling Pump Kit (Asbestos Removal)		40	135	405		
U	C	0005	N2035	Hi Vol Air Samplers, PUF or TSP		150	450	1350		
U	C	0285		Hi Vol Air Samplers, PM-10		150	450	1350		
U	C	0004		Impingers, air sampling		20	60	175		
U	C	0280	N2024	Indoor Air Quality Meter, TSI Q-Track		80	180	540		
U	C	0044		Magnehelic Gauge, digital pressure		20	60	150		
U	C	0088	N2145	Manometer, Digital Dwyer		45	105	315		
U	C	0090		Manometer, Micro, Alnor		35	80	225		
U	C	0072		Mass Flowmeter, Aalborg		60	220	600		
U	C	0226	N2402	Pitot tubes, air Sampling		15	60	180		
U	C		N2424	Shroud, Helium		25	75	150		
<u>KITS - CHEMICAL</u>										
U	C	0372		Ammonia, Hach, Kit		25	100	280		
U	C	0051		Chloride Hach Kit/Colorimeter		65	180	300		
U	C	0052		Chlorine Test Kit, high & low range		40	140	320		
U	C	0408		Copper (Total), Hach Kit		25	100	280		

200010 (2) - CRA Field Equipment Charge-Out Rates FY2025

GHD Equipment Charge-Out Rates FY2025

SECTION 1									
BST Code				DESCRIPTION	CHARGE-OUT RATES				NOTES
					HR	DAY	WEEK	MONTH	
U	C	0410		Detergents, Hach Kit		25	100	280	
U	C	0053		Dissolved Oxygen Kit		50	150	450	
U	C	0054	N2130	Iron (FE) Kit		25	100	280	
U	C	0055	N2112	H2S Hach Kit		30	120	360	
U	C	0057	N2144	Manganese Hach Kit		25	100	280	
U	C	0063		Nitrate Test Kit		25	100	280	
U	C	0058		PCP (Millipore) Kit		25	100	280	
U	C	0409		Phenol (Total), Hach Kit		25	100	280	
U	C	0059		SO4 Kit		25	100	280	
U	C	0062		Sulfate Test kit		25	100	280	
<u>KITS - MISCELLANEOUS</u>									
U	C	0279	N2297	Asbestos Kit		30	120	360	
U	C	0240		Envirogard Kit		65	280	660	
U	C	0189		Fire Hydrant Kit		55	220	380	
U	C	0065		Groundwater Filtration Kit		40	150	360	
U	C	0241	N2117	Hydrocarbons, Petroflag Kit		45	180	540	
U	C	0056		Lockout / Tagout Kit		25	85	180	
U	C	0371		Mould Kit		30	120	240	
U	C	0373		Spring Water Survey Kit	30	200			
U	C	0060		Visible Emissions Field Test Kit		40	170	420	
U	C	0066		Water Level Monitoring Kit		50	180	480	
<u>GEOPHYSICS</u>									
U	C	0267	N2432	Metal Detector, buried, Geonics EM61		275	1615	2800	
U	C	0414	N2427	Resistivity Meter - Syscal R1 Plus		800	3500	10500	
U	C	0104		Radiation Detector		65	180	480	
U	C	0273	N2431	Soil Conductivity Meter, Geonics EM31		325	975	3300	
	C	0502	N2234	System, 250mHz GPR Noggin Plus		400	1200	3600	
	C	0503	N2393	System, 1000mHz GPR Conquest		350	1050	3150	
U	C	0275	N2432	Soil Conductivity Meter, Geonics EM38		275	1615	2800	

200010 (2) - CRA Field Equipment Charge-Out Rates FY2025

GHD Equipment Charge-Out Rates FY2025

SECTION 1									
BST Code				DESCRIPTION	CHARGE-OUT RATES				NOTES
					HR	DAY	WEEK	MONTH	
U	C	0398		Well Logging Acoustic Televiwer - ABI40		500	2400	9500	
U	C	0396		Well Logging Caliper Tool - 2PCA - 1000		60	300	1200	
U	C	0393		Well Logging Console - MSI Matrix		175	875	3500	
U	C	0395		Well Logging Gamma Tool - 2PGA - 1000		90	450	1800	
U	C	0397		Well Logging Resistivity Tool - 2PEA - 1000		90	450	1800	
U	C	0394		Well Logging Winch		125	625	2500	
<u>MISCELLANEOUS</u>									
U	C	0002	N2017	Air Compressor, gas powered or electric		70	280	560	
U	C	0010	N2021	Air tank, portable		30	120	360	
U	C	0019		Bailer, All Types & Sizes		20	80	180	
U	C	0021	N2036	Balance, electronic (Ohaus, AccuLab, Polder)		40	120	360	
U	C	0022	N2145	Barometer		35	105	315	
U	C	0023	N2037	Battery, all types of 12 volt		25	100	300	
U	C	0231	N2041	Blower, Regenerative, All Sizes		75	270	810	
U	C	0028	N2440	Camcorder/ GO Pro		50	150	300	
U	C	0030	N2004	Camera, digital		25	100	300	
U	C	0452	N2448	FLIR Thermal Imaging Camera		40	160	480	
U	C	0121		Cathodic Protection Monitor		25	100	300	
U	C	0031	N2059	Colorimeter, portable, multiparameter, Soil Conductivity		45	180	540	
U	C	0233	N2060	Computer, Laptop or Desktop, Ipad		30	120	360	
U	C	0298	N2067	Data Transfer Unit, Palm Pilot		25	100	360	
U	C	0474		Drum Vac - 55 Gallon					
U	C	0536	N2074	Drill, Core		105	400	800	
U	C	0571	N2085	Enclosure, TSI CAMP		50	150	350	
U	C	0577	N2159	Gauge, Nuclear density		105	315	850	
U	C	0047	N2101	Generator, All Types & Sizes		70	250	550	

200010 (2) - CRA Field Equipment Charge-Out Rates FY2025

GHD Equipment Charge-Out Rates FY2025

SECTION 1									
BST Code				DESCRIPTION	CHARGE-OUT RATES				NOTES
					HR	DAY	WEEK	MONTH	
U	C	0454	N2189	Hammer, Electric		60	240	650	
U	C	0049	N2298	Heater, electric portable		25	100	250	
U	C	0068		Ladder, Industrial Rolling, Step, Mini-Scaffold		30	120	240	
U	C	0411		Landfill Gas Blower		110	400	800	
U	C	0311		Landfill Gas Extraction System c/w Blower, Flame Arrestor & Flare		135	540	1620	
U	C	0525		Locator, Underground Cable & Pipe (RD8000 PDL). Radiodetection		100	400	1000	
U	C	0646	N2300	Loop Calibrator		30	90	225	
U	C	0071		Magnetometer		25	100	300	
U	C	0554		Manhole cover lift system, Magnetic					
U	C	0463		Mercury Recovery Vacuum		225	700	2100	
U	C	0073	N2147	Metal detector or Marker Locator, 3M Dynatel		50	150	450	
U	C	0572		Meter, Soil EC (FieldScout)		35	80	160	
U	C	0245		Micrometer, Digital		10	40	120	
U	C	0367	N2293	Moisture Meter, Protimeter Surveymaster SM, Delmhorst		35	100	240	
U	C	0421		Particulate Monitor, BAM 1020				3800	
U	C	0130	N3527	Phone, mobile, digital cell		25	100	300	A) plus calls
U	C	0132	N2177	Post Pounder		25	100	300	
U	C	0133		Pressure Washer, hot/cold		30	120	360	
U	C	0180	N2912	Pocket Soil Pentrometer		20	60	180	
U	C	0272		Projectors		25	75	200	
U	C	0250	N2911	Psychrometer, Digital Sling		50	150	450	
U	C	0291		Ratchet Hoists		10	40	120	
U	C	0155	N2184	Regulator, Cylinder		20	80	160	
U	C	0368	N2189	Rotary Hammer Drill		50	200	540	
U	C	0551		Sampler, Concrete core		60	180	400	
U	C	0256	N2205	Slugs, PVC (various diameters & lengths)		25	100	200	
	C	0642	N2217	Space Heaters		10	30	90	
	C	0645	N2202	Shell Saw Horses & Laser Pointer		25	75	225	

200010 (2) - CRA Field Equipment Charge-Out Rates FY2025

GHD Equipment Charge-Out Rates FY2025

SECTION 1									
BST Code				DESCRIPTION	CHARGE-OUT RATES				NOTES
					HR	DAY	WEEK	MONTH	
	C	0547	N2201	Shell Traffic Cones		50	150	450	
U	C	0469	N2209	Snowshoes		15	55	135	
U	C	0069	N2212	Soil Vapour Well Purging Pump		85	340	1280	
U	C	0012		Spectrophotometer, Hach DR/2000		100	300	900	
U	C	0179	N2220	Stopwatch		15	45	135	
U	C	0259	N2240	Tents, Work		35	135	300	
U	C	0569		Tester, Shear Vane		5	20	50	
	C	0640		Infrared Thermometer		15	45	135	
U	C	0412	N2400	Thickness Gauge, Cygnus Ultrasonic, Barcol Gauge		65	225	480	
	C	0486	N2104	GHD Field Toolboxes		10	30	90	
U	C	0260		Torch, Tiger c/w Propane Tank		15	60	180	
U	C	0534		UAV, DJI-S800		500			
U	C	0264	N2265	Vacuum, Wet/Dry, 6 Gallon		20	80	240	
U	C	0287		Vibration Measurement System		320	640	1920	
U	C	0265	N2271	Waders, hip or chest		25	80	240	
U	C	0573	N2272	Wagon, Field		15	45	90	
	C	0405	N2146	Walking Measuring Wheel		10	30	90	
U	C	0196	N2917	Walkie talkie, pair		45	135	405	
U	C	0537	N2288	Water Tank, Poly, Large 500+ gal.		70	220	540	
U	C	0015	N2287	Water Tank, Poly, small 250-500 gal		40	140	290	
U	C	0576	N2289	Water Tank, Poly, small 100-225 gal		35	140	320	
U	C	0197		Weather station		80	280	700	
U	C	0266		Weedeater		25	100	300	
MONITORS - GAS / AIR									
U	C	0126	N2009	4 Gas Monitor, LEL/O2/CO/H2S (All Types)		75	225	675	
U	C	0128	N2013	5 Gas Monitor, PID,LEL/O2/CO/H2S, (All Types)		95	380	1100	
U	C	0355		Benzene Monitor		85	350	855	
U	C	0124	N2078	Dust/Particulate Monitor, all types		90	350	900	
U	C	0084	N2082	Eagle Gas Monitor (Hydrocarbon)		60	225	550	

200010 (2) - CRA Field Equipment Charge-Out Rates FY2025

GHD Equipment Charge-Out Rates FY2025

SECTION 1									
BST Code				DESCRIPTION	CHARGE-OUT RATES				NOTES
					HR	DAY	WEEK	MONTH	
U	C	0470		Eagle Gas Monitor (4 gas)		80	250	750	
U	C	0080	N2098	Flame Ionization Detector Monitor (FID)		105	400	1000	
U	C	360D		Gas Chromatograph, Multi-Compound Air Monitoring		400	1200	3600	
	C	0384	N2157	Nova Flue Gas Analyzer	1	80	240	750	
	C	0579	N2162	Odour Sampler	1	150	535	1600	
U	C	361D		Gas Chromatograph, Single Compound Analysis Monitor		100			
	C	0548	N2137	Landtec GEM 5000 Gas Monitor		150	450	1350	
U	C	0085	N2136	Landfill Gas Monitor (Landtec GA-90, GEM 500, GEM 2000)		125	375	855	
U	C	0553		Analyzer, Lumex 915+ Mercury		650	1900	4700	
U	C	0356		Mercury, Jerome Monitor		150	600	1800	
U	C	0526	N2153	Monitor, Single Gas, HCN		20	60	120	
U	C	0528	N2153	Monitor, Single Gas, H2S (Personal)		25	75	180	
U	C	0450		Monitor, Single Gas, H2S		95	285	855	
U	C	0087		MSA Gas Monitor		60	240	720	
U	C	0314	N2386	Nasal Ranger Monitor		80	320	960	
U	C	0127		Ozone Monitor		95	380	1000	
U	C	0529		Monitor UltraRae for Benzene		125	380	1140	
U	C	0129	N2171	PID MiniRae, Eagle 2		85	300	900	
U	C		N2399	SEM 5000 Methane detector		265	700	2000	
<u>PUMPS</u>									
U	C	0145		Air Vacuum Pump, Electric		20	80	240	
U	C	0358	N2040	Bladder Pump, All Types		65	195	480	
U	C	0033	N2065	Control box for bladder pumps		75	250	750	
U	C	0139		Filtration Pump , 18 PSI, Cole-Palmer		15	60	180	
U	C	0042	N2130	Flow valve set, Dole		25	100	280	
U	C	0149	N2166	Peristaltic Water Pump		45	135	350	

200010 (2) - CRA Field Equipment Charge-Out Rates FY2025

GHD Equipment Charge-Out Rates FY2025

SECTION 1

BST Code				DESCRIPTION	CHARGE-OUT RATES				NOTES
					HR	DAY	WEEK	MONTH	
U	C	0138		Pump control unit, pressure control unit, Solinst		35	140	420	
U	C	0140	N2282	Water Pump, 2" submersible c/w controller (Grundfos, Keck, Well Wizard or Monsoon stainless steel)		200	600	1800	
U	C	0471	N2283	Water Pump, 2" submersible, 12 volt, c/w controller (Monsoon, Typhoon)		65	250	525	
U	C	0143	N2284	Water Pump, small miscellaneous types (sump, 2" electric, hand, whale)		45	140	320	
U	C	0150	N2285	Water Pump, submersible, 3" electric c/w 100 ft.wire		70	280	660	
U	C	0144	N2286	Water Pump, trash, diphragm & centrifugal		50	200	480	
U	C	0147	N2291	Watera Jerker, automatic water pump		105	315	650	
<u>SAFETY</u>									
U	C	0120		Blood Pressure Monitor (heat stress)		50	150	450	
U	C	0037	N2088	Eyewash, Portable, 10-15 Gallon		35	140	275	
U	C	0039		Fan, evacuation & access		50	125	375	
U	C	0157	N2186	Rescue & descent gear, winch and tripod		100	350	725	
U	C	0158	N2187	Rescue Harness, c/w Lanyards		30	100	250	
U	C	0159		Respirator, Cascade fill system		45	180	540	A) +air
U	C	0359		Respirator, Drager supplied air setups c/w mask & 5 minute escape bottle.		65	260	780	
U	C	0252		Respirator Fit Tester, TSI Portacount		125	400	1000	
U	C	0160	N2188	Respirator, SCBA or Supplied Air		75	280	780	A) +air
U	C	0161		Respirator, SCBA quick fill hose		15	60	180	
<u>SAMPLING</u>									
U	C	0168		Geoprobe Sampler, Hand Operated c/w Hammer Drill		210	630	1890	A) Plus Liners
U	C	0170	N2198	Sediment Sampler, All Types		35	140	300	
U	C		N2211	Guelph Permeameter		50	185	360	
U	C	0173	N2211	Soil Sampler (All Types)		50	185	360	

GHD Equipment Charge-Out Rates FY2025

SECTION 1									
BST Code				DESCRIPTION	CHARGE-OUT RATES				NOTES
					HR	DAY	WEEK	MONTH	
U	C	0175	N2200	Sewer Swing Sampler		25	75	180	
U	C	0629	N2191	Sampler, Refrigerated Portable		150	400	1050	
U	C	0166	N2273	Wastewater Sampler, composite/individual, ISCO		100	300	900	
<u>SOUND MEASUREMENT</u>									
U	C	0106	N2215	Sound Level Meter, Larson-Davis (Type 1)		125	500	1500	
U	C	0353		Sound Level Meter, Sper Scientific		25	100	200	
U	C		N2439	Noise Dosimeters		25	100	300	
U	C	0105		Sound Level Meter, Type 2 & Noise Dosimeters, Quest		105	280	700	
<u>SURVEY</u>									
U	C	0180	N2223	Survey equipment, complete, (level, rod, tripod)		50	180	375	
U	C	0643	N2111	GPS, Survey Grade/Centimeter		85	360	900	
U	C		N2449	Garmin InReach Mini Pro		55	180	425	
U	C		N2454	MatterPro 3 Camera		300	900	2700	
	C		N2457	Trimble TDC650 GPS		250	740	1750	
U	C	0182	N2226	Survey equipment, Survey Grade - GPS		500	1620	4410	\$300 per 0.5 day
U	C	0183	N2227	Survey equipment, Survey Grade - Mapping		175	700	1900	\$100 per 0.5 day
U	C	0294	N2110	Survey equipment, GPS, Handheld Unit - Garmin 12 GPS		25	75	160	
U	C	0420	N2109	Survey equipment, Magellan GPS Mobile Mapper CE		50	200	510	
	C	0581	N2015	5M & 7M Levelling Rods	15	55	220	660	
	C	0585	N2455	Laser Range Finder		40	120	360	

200010 (2) - CRA Field Equipment Charge-Out Rates FY2025

GHD Equipment Charge-Out Rates FY2025

SECTION 1									
BST Code				DESCRIPTION	CHARGE-OUT RATES				NOTES
					HR	DAY	WEEK	MONTH	
	C	0185	N2222	Survey Laser Level	2	85	360	900	
U	C	0185	N2222	Survey equipment transit		55	220	660	
U	C	0187	N2228	Survey equipment, total station	35	275	1100	3150	
U	C	0293	N2225	Survey Equipment, Robotic Total Station - Leica TCRA1103 Plus		375	1500	4500	
<u>VEHICLES</u>									
U	C	0013	N2033	ATV - All Types including 6 Wheel Polaris, 8 Wheel Argo & JD Gator		160	640	1650	
U	C	0024	N2044	Boat / Canoe		100	350	800	
U	C	0417	N2043	Boat, 14ft. Aluminum c/w 8 HP motor & Trailer		275	1000		
U	C	0276		Bobcat, Model 873		250	820	2720	
U	C	0283		Bobcat, Model 873, Brush Cat Attachment		150	535	1600	
U	C	0277		Bobcat, Model 873, Sweeper Attachment		150	535	1600	
U	C	0292		Bucket Truck - Maintenance Work	70	550			
U	C	0530	N2055	Cart, Club Car XRT		100	400	1000	
U	C	0411		Lawn Mower, Riding		80			
U	C	0476		Mule, Kawasaki		75	200	800	
U	C	0177	N2201	Snowmobile & caboose		105	360	1080	
U	C	0191	N2247	Trailer		85	300	725	
U	C	0392		Trailer, Emergency Spill Response		210			
U	C	362M		Trailer, SVE (Soil Vapour Extraction) c/w associated equipment				1050	
U	C	0262		Tractor with Tiller or Scraper		105	420	1260	
U	C	0194	N6521	Van or pick-up truck		95	360	1070	\$ 0.28 per Kilometer (Cdn) or \$0.30 per Mile (US)
<u>WATER TESTING</u>									
U	C	0472	N2068	Datalogger, Barometric Pressure (Solinst)/ Levelloggers		35	125	275	
U	C	0350		Datalogger, pH-31, Telog		75	225	525	

GHD Equipment Charge-Out Rates FY2025

SECTION 1									
BST Code				DESCRIPTION	CHARGE-OUT RATES				NOTES
					HR	DAY	WEEK	MONTH	
U	C	0351	N2071	Datalogger, Water Level (Telog, Insitu, MiniTroll) Troll Comm Cable		75	225	525	
U	C	0079	N2073	Dissolved Oxygen Meter		70	180	360	
U	C	0586	N2241	Field Thermometer		15	45	135	
U	C	0209		Hydrocarbon Analyzer (Model 300 or Petroflag)		265			
U	C	0520	N2213	Leveloader, Solinst Optical Reader		15	45	115	
U	C	0465	N2281	APP Interface/Data Grabber		30	90	225	
U	C	0473	N2068	Solinst Leveloggers		35	125	275	
U	C	0095	N2163	Oil/ Water Interface Probe		45	160	400	
U	C	0244	N2238	Temperature, Thermocouple Meter		40	160	480	
U	C	0108	N2252	Turbidity Meter		50	150	405	
U	C	0077	N2274	Water Checker Meter, 1 Parameter		30	90	250	i.e., - PH Or Cond. Or Temp, etc.
U	C	0078	N2275	Water Checker Meter, 2 Parameter		30	100	250	i.e., - PH/Temp or PH/Cond., etc.
U	C	0097	N2276	Water Checker Meter, 3 Parameter		30	100	250	i.e., - PH/Temp/Cond. or PH/Cond/DO, etc.
U	C	0379	N2277	Water Checker Meter, 4 Parameter		40	135	385	i.e., - PH/Temp/Cond/ORP or PH/Cond/DO/ORP, etc.
U	C	0380	N2278	Water Checker Meter, 5 Parameter		60	220	500	i.e., - PH/temp/cond/salinity/DO, etc.
U	C	0391	N2279	Hand Held pH Meter, Soil pH Meter		80	280	720	i.e., - PH/temp/cond/salinity/DO/ORP, etc.
U	C	0091	N2280	Horiba Flow Cell, Water Checker		100	300	900	
U	C	0111	N2281	Water Level Meter		30	90	225	
	C	0519	N2099	Flow Tracker		150	450	1350	
U	C	0116	N2290	Valeport/Global Waters Flow Meter		115	375	950	
	C	0576	N2084	Electrofisher (SWM/ECO)		100	400	1200	
	C	0549	N2914	FL Flow Meter (SWM/ECO)		115	345	1035	
	C	0577	N2915	Binoculars SWM		25	75	225	
	C	0480	N2096	Benthic/Siene Nets		20	60	180	
	C	0481	N2095	Surber/Kick/D-Nets		25	75	225	
	C	0527	N2916	EXO Sonde SWM/ECO		125	375	1125	
	C	0528	N2267	Van Dorn/Wildco Water Samplers		50	150	450	
	C	0476	N2191	Ice Augers SWM/ECO		60	240	720	

200010 (2) - CRA Field Equipment Charge-Out Rates FY2025

GHD Equipment Charge-Out Rates FY2025

SECTION 1									
BST Code					CHARGE-OUT RATES				NOTES
					HR	DAY	WEEK	MONTH	
	C		N2433	SM4 Bat Detectors		50	300	1200	
	C	0582	N2083	ECO Backpacks (ECO)		40	120	360	
	C		N2434	Song Meter Micro		15	80	150	
U	C	0011		PCB or Chloride Analyzer		75	300	900	A) + supplies
U	C	0290	N2196	Secchi Disc		35	125	325	

Notes:

A) Cost does not include expendable supplies to operate

VANIR CONSTRUCTION MANAGEMENT**City of Huntington Beach 2025/2026 Bill Rates**

all CA areas 7/1/25-6/30/26*

Classification / Title	Hourly Rate
Principal-In-Charge	\$273
Program Director	\$270
Program Manager	\$228
Senior Project Director	\$270
Project Director	\$262
Assistant Project Director	\$213
Senior Project Manager	\$242
Project Manager	\$216
Assistant Project Manager	\$171
Senior Construction Manager	\$242
Construction Manager	\$216
Assistant Construction Manager	\$171
Senior Project Engineer	\$180
Project Engineer	\$128
Assistant Project Engineer	\$114
Senior Project Controller	\$142
Project Controller	\$128
Planner	\$157
Senior Scheduler	\$235
Scheduler	\$207
Senior Estimator	\$248
Estimator	\$185
Constructability Reviewer	\$180
Sustainability/LEED Manager	\$179
Design Manager	\$191
BIM Manager	\$142
BIM Tech	\$114
Architect	\$171
Project Coordinator/Sr Admin	\$124
Senior Contract Administrator	\$185
Contract Administrator	\$171
Inspector Grp 1 (prevailing wage)**	\$240
Inspector Grp 2 (prevailing wage)**	\$235

* Rates increase 4.0% each July 1st

** Rate dependent upon DIR determination, County location, award date, excludes travel and subsistence



Schedule Of Fees 2025-2028

NOTE: Rates will be adjusted annually each July 1st to reflect increased costs.

Personnel Rates: Per Hour Unless Otherwise Noted

Task Code	Engineering And Consulting Personnel	Rate
10026	Senior Principal Advisor/Consultant	\$ 407.00
10001	Principal Engineer/Geologist	\$ 292.00
10017	Metallurgical Engineer	\$ 407.00
70000	Registered Geotechnical Engineer	\$ 292.00
10010	Technical Advisor	\$ 270.00
10011	Material Scientist, Welding/NDT Consultant	\$ 286.00
70003	Registered Geologist/Certified Engineering Geologist	\$ 286.00
10003	Senior Engineer/Geologist	\$ 259.00
10009	Registered Civil Engineer	\$ 248.00
60003	Roofing/Waterproofing Consultant	\$ 275.00
10013	Project Engineer/Manager	\$ 242.00
30000	Quality Control Manager	\$ 242.00
10005	Senior Staff Engineer/Geologist	\$ 226.00
10007	Staff Engineer/Geologist	\$ 215.00
10015	Quality Control Administrator	\$ 215.00
10019	Metallurgical Technician	\$ 182.00
90001	CADD Operator/Draftsperson	\$ 165.00
95103	Administrative Support	\$ 108.00
70107	Field Supervisor	\$ 204.00
91030	Safety Supervisor	\$ 204.00
20000	Laboratory Manager	\$ 187.00
98000	Laboratory Technician	\$ 160.00
90005	Expert Witness Testimony	\$ 660.00
91010	Qualified SWPPP Developer	\$ 226.00
91000	Qualified SWPPP Practitioner	\$ 215.00
30001	Vibration Engineer	\$ 248.00

Task Code	Field Inspection Personnel	Rate
10101	Concrete/Reinforced Steel Inspector	\$ 147.00
10103	Prestressed/Post Tensioned Inspector	\$ 147.00
10105	Concrete ICC Inspector	\$ 147.00
10109	Drilled-In-Anchors Inspector	\$ 147.00
10111	Gunite/Shotcrete Inspector	\$ 147.00
10113	Masonry Inspector	\$ 147.00
10201	Structural Steel/Welding Inspector	\$ 147.00
10203	AWS Certified Welding Inspector	\$ 147.00
10207	Fireproofing Inspector	\$ 147.00
10501	Lead Inspector	\$ 151.00
10115	Firestop Special Inspector - IFC Premier	\$ 171.00
10117	Firestop Special Inspector - IQP	\$ 220.00
70109	L.A. Deputy Grading Inspector	\$ 160.00
75001	Asphalt Field and Plant Inspector/Technician	\$ 147.00
70103	Pile Driving Inspector	\$ 147.00
70101	Soils Technician	\$ 147.00
10107	Concrete Quality Control (ACI/Caltrans Technician)	\$ 147.00
10122	Wood Framing Inspector	\$ 147.00
60001	Roofing/Waterproofing Inspector	\$ 160.00
10500	Public Works Inspector	\$ 165.00
10515	Mechanical Inspector	\$ 176.00
10519	Electrical Inspector	\$ 176.00
10521	Plumbing Inspector	\$ 176.00
10523	Building Inspector	\$ 176.00
30002	Vibration Monitoring Technician	\$ 171.00
50003	Field Engineering Technician	\$ 147.00

Task Code	Shop Inspection Personnel	Rate
10301	Structural Steel Fabrication Inspector	\$ 147.00
10309	Batch Plant Quality Control Technician/Inspector	\$ 147.00
10325	Glue-Laminated Fabrication Inspector	Quotation
10328	Pre-Cast Concrete/Pipe Fabrication Inspector	\$ 147.00

Task Code	Nondestructive Testing Personnel	Rate
10401	NDE Ultrasonic Testing Technician	\$ 154.00
10403	NDE Magnetic Particle Testing Technician	\$ 154.00
10405	NDE Dye Penetrant Testing Technician	\$ 154.00
10305	Combination NDE Technician/Welding Inspector	\$ 154.00
10409	Radiographic Testing (Crew Of 2)	\$ 418.00
10020	NDE Engineer	\$ 270.00

Task Code	Equipment Usage (Daily Unless Otherwise Noted)	Rate
95318	Skidmore	\$ 53.00
95309	Torque Wrench, Small	\$ 22.00
95312	Torque Wrench, Large	\$ 33.00

Task Code	Equipment Usage (Daily Unless Otherwise Noted), Continued	Rate
95315	Torque Multiplier	\$ 50.00
95321	Air Meter	\$ 39.00
95322	Unit Weight Bucket	\$ 29.00
95323	Field Concrete Scale	\$ 39.00
95324	2' x 2' x 2' Mold	\$ 26.00
95343	Nuclear Gauge (Per Hour)	\$ 13.00
95319	Sand Cone Density Test Equipment	\$ 63.00
95333	Pull Test Equipment	\$ 77.00
95348	Concrete/Asphalt Coring Equipment	\$ 748.00
95336	Floor Flatness (Dipstick)	\$ 66.00
95330	Schmidt Hammer	\$ 50.00
95341	Vapor Emission Test Kits	\$ 61.00
95342	Relative Humidity Probe	\$ 94.00
95339	UPV (Ultrasonic Pulse Velocity) Meter	\$ 440.00
95351	Fireproofing Adhesion/Cohesion (Per Test)	\$ 44.00
95300	A Scan Ultrasonic Equipment And Consumables	\$ 105.00
95303	Magnetic Particle Equipment And Consumables	\$ 55.00
95306	Liquid Penetrant Consumables	\$ 50.00
95307	Phased Array Ultrasonic Equipment (Per Hour)	\$ 110.00
95347	Ground Penetrating Radar	\$ 418.00
95345	Impact Echo	\$ 424.00
95362	Ultrasonic Tomography	\$ 550.00
95349	Inertial Profiler (Per Hour)	Quotation
95352	Borescope	\$ 330.00
95356	Infrared Camera	\$ 110.00
95357	Project Dedicated Vehicle	\$ 198.00
95364	Roller Compacted Concrete Vibrating Hammer/Tamping Plate	\$ 88.00
95367	Half-Cell Potential Equipment Set	\$ 424.00
95368	Concrete Electrical Resistivity Meter	\$ 198.00
95369	Field Hardness (Steel)	\$ 121.00
95370	Coating Thickness Gauge	\$ 121.00
95373	Curing Box (Not Temperature Controlled, One-Time Fee/Per Box)	\$ 825.00
95371	Temperature Control Curing Box (Per Month)	\$ 550.00
95372	Temperature Matching Curing Box (Per Month)	\$ 627.00

Task Code	Specimen Pick-Up	Rate
20100	Soil/Aggregate Sample (Each)	\$ 55.00
20102	Standard Sample: Concrete Cylinders (Each)	\$ 35.00
20101	Standard Sample: Mortar/Grout Cubes And Cores, Fireproofing, Rebar, And Epoxy Prisms (Each)	\$ 35.00
20103	Oversize Sample: Masonry Prisms And Shotcrete Panels (Each)	\$ 94.00
20104	Oversize Sample: Flexural Beams (Each)	\$ 94.00
20107	Technician For Specimen Pick-Up Not Listed Above (Per Hour, 2-Hour Minimum)	\$ 160.00
20109	Technician For Specimen Pick-Up Before 5:00 a.m. Or After 5:00 p.m. Monday Thru Friday, Or All Day Saturday (Per Hour, 2-Hour Minimum Plus Mileage)	\$ 220.00

Task Code	Jobsite Trailer, Mobile Or On-site Laboratory	Rate
95360	Portable Or Mobile Laboratory Unit	Quotation
95374	Jobsite Trailer, Conex, Or Equipment Storage Box	Quotation

Task Code	Concrete Tests (Field Made Specimens)	Rate
20201	6" x 12" Cylinder Compression Strength (ASTM C39)	\$ 50.00
20202	4" x 8" Cylinder Compression Strength (ASTM C39)	\$ 44.00
20203	Density Of Structural Lightweight Concrete Equilibrium Oven Dry Method (ASTM C567)	\$ 110.00
20205	Core Compression Including Trimming (ASTM C42)	\$ 99.00
20207	6" x 6" x 18" Flexural Beams Not Exceeding Referenced Size (ASTM C78, C293 or CTM 523)	\$ 138.00
20209	Splitting Tensile Strength (ASTM C496)	\$ 138.00
20211	Modulus Of Elasticity Test (ASTM C469)	\$ 358.00
80003	Rapid Chloride Permeability Test: Cylinders Or Cores (ASTM C1202)	\$ 627.00
80008	Density, Absorption, And Voids In Hardened Concrete (ASTM C642)	\$ 627.00
40005	Flexural Toughness (ASTM C1609, Formerly ASTM C1018)	\$ 990.00
40006	Double Punch Strength Of Fiber Reinforced Concrete	\$ 660.00
40009	Coefficient Of Thermal Expansion Of Concrete (CRD 39, AASHTO T336)	\$ 715.00
40012	Bulk Electrical Resistivity (One Age Of Testing, ASTM C1876)	\$ 176.00
80013	Flexural Tensile Strength Of Metallic Fiber Reinforced Concrete Beam (EN 14651)	\$ 990.00



Task Code	Concrete Specimen Preparation	Rate
20151	Sawing Of Specimens (Each)	\$ 55.00
20157	Coring Of Specimens In Lab (Each)	\$ 55.00
20159	Grinding Of Concrete Below 6000 psi Strength (Each)	\$ 99.00
20160	Grinding Of Concrete 6000 psi Strength And Above (Each)	\$ 121.00

Task Code	Laboratory Trial Batch: Concrete, Cement And Mortar	Rate
30216	Compression Test 4" x 8" Cylinders Made And Tested In Laboratory (ASTM C192, C35)	\$ 64.00
30217	Compression Test 6" x 12" Cylinders Made And Tested In Laboratory (ASTM C192, C35)	\$ 75.00
30219	6" x 6" x 18" Flexural Beams Made And Tested In Laboratory (ASTM C192, C78)	\$ 154.00
30223	Splitting Tensile Strength Cylinders Made And Tested In Laboratory (ASTM C192, C496)	\$ 154.00
30225	Modulus Of Elasticity Test Cylinders Made And Tested In Laboratory (ASTM C192, C469)	\$ 374.00
30227	Density Of Structural Lightweight Concrete Made In Laboratory, Equilibrium Or Oven Dry Method (ASTM C567)	\$ 127.00
30237	Bulk Electrical Resistivity (ASTM C1876)	\$ 193.00
30201	Laboratory Trial Batch (ASTM C192/Lab Procedure Performance)	\$ 605.00
30203	Concrete Mixture Design For Preconstruction Evaluation And Backup Data Development	\$ 352.00
30205	Drying Shrinkage Up To 28 Days, Three 3" x 3" Or 4" x 4" Bars, Five Readings Up To 28 Dry Days (ASTM C157)	\$ 572.00
30230	Additional Reading, Per Set Of Three Bars	\$ 66.00
30231	Storage Over Ninety (90) Days, Per Set Of Three Bars, Per Month	\$ 55.00
30207	Setting Time Up To 7 Hours (ASTM C403)	\$ 220.00
30209	Bleeding (ASTM C232)	\$ 198.00
30229	Concrete Restrained Expansion (ASTM C878)	\$ 770.00
30211	Mix, Make and Test Mortar or Grout Specimens for Compressive Strength: Set of 6 (ASTM C878)	\$ 660.00
20263	Non-Shrink Grout: Height Change After Final Set (ASTM C1090)	\$ 660.00
20265	Non-Shrink Grout: Height Change At Early Age (ASTM C827)	\$ 935.00
30232	Cracking Resistance, Set Of Three Rings, Laboratory Trial Batching, Test Until Cracking Or Up To 28 Days (ASTM 1581)	\$ 6,820.00
30233	Evaluation Of Pre-Packaged Masonry Mortars (ASTM C270)	\$ 1,430.00
30234	Creep (ASTM C512) (One Age Of Loading, 12 Months Duration Of Testing)	\$ 9,350.00
80198	Laboratory Development Of Strength-Maturity Curve Without Establishing Datum Temperature (Up To 5 Testing Ages, ASTM C1074)	\$ 3,520.00
80199	Laboratory Development Of Strength-Maturity Curve With Establishing Datum Temperature (Up To 5 Testing Ages, ASTM C1074)	\$ 5,720.00

Task Code	Evaluation Of Mixing Water For Concrete	Rate
80246	Evaluation Of Mixing Water For Concrete Per The Requirements Of ASTM C1602, Table 1 (Physical Properties Of Mortar), Per Sample	\$ 1,100.00
80248	Evaluation Of Mixing Water For Concrete Per The Requirements Of Caltrans, Section 90, Per Sample	\$ 1,320.00

Task Code	Concrete - Chemical Analysis, Transport Properties, Service Life Modeling, Petrographic Examination	Rate
80123	Acid-Soluble Chloride Analysis (ASTM C1152) Includes Sample Prep)	\$ 138.00
80126	Water-Soluble Chloride Analysis (ASTM C1218) (Includes Sample Prep)	\$ 165.00
80193	Chloride Diffusion Coefficient Of Cementitious Mixtures By Bulk Diffusion (ASTM C1556)	\$ 3,080.00
80159	Bulk Resistivity (ASTM C1876) And Formation Factor	\$ 715.00
80204	Chloride Binding Isotherm	\$ 935.00
80206	Analytical And Experimental (ASTM C1556) Modeling Of Service Life Of Concrete Per Life-365 Model, Per Mixture Design	\$ 8,800.00
80208	Analytical And Experimental (NordTest) Modeling Of Service Life Of Concrete Per FIB Model Code 34, Per Mixture Design	\$ 8,800.00
80210	Non-Steady State Chloride Migration Coefficient, NordTest 492	\$ 688.00
80212	Petrographic Examination Of Hardened Concrete, Level I (ASTM C856) (Excludes Thin Section), Per Sample	\$ 1,925.00
80129	Petrographic Examination Of Hardened Concrete, Level II (ASTM C856) Includes Thin Section, Per Sample	\$ 2,475.00
80218	Petrographic Examination Of Hardened Concrete, Level III (ASTM C856/C1723) (Thin Section And SEM/EDX), Per Sample	\$ 3,850.00
80222	W/CM Determination (NordTest Build 361)	\$ 1,375.00
80224	Examination Of Volumetric Proportions Of Hardened Concrete (ASTM C457), Per Sample	\$ 550.00
80228	Air Void Analysis Of Hardened Concrete (ASTM C457), Per Sample	\$ 660.00
80232	Electron Microscopy (ASTM C1723)	\$ 825.00
80234	Paste Carbonation Analysis, Per Sample	\$ 275.00
80238	Insoluble Residue Analysis (ASTM C1324)	Quotation
80240	Alkali-Silica - Damage Rating Index (DRI), Per Sample	\$ 1,375.00

Task Code	Qualification Of Cements	Rate
80100	Chemical Analysis Of Portland Cement Per Standard Requirements (ASTM C150)	\$ 825.00
80103	Physical Testing Of Portland Cement Per Standard Requirements (ASTM C150)	\$ 825.00
80194	Physical Testing Of Type K Cement, Mortar Expansion (ASTM C806)	\$ 825.00
80195	Physical Testing And Chemical Analysis Of Portland Cement Per Standard Requirements (ASTM C150)	\$ 1,540.00
80106	Partial Analysis Or Specific Physical Tests	Quotation
80110	Sulfates Resistance Of Hydraulic Cement (ASTM C1012), 6 Months	\$ 3,300.00
80111	Sulfates Resistance Of Hydraulic Cement (ASTM C1012), 12 months	\$ 3,630.00
80149	Type 1L Cement (ASTM C595; Excludes Special Properties)	\$ 1,540.00
80151	Clinker Microscopy, Per Sample	\$ 935.00

Task Code	Physical Testing Of Chemical Admixtures For Concrete	Rate
80196	Qualification Of Admixture (ASTM C494)	Quotation

Task Code	Evaluation Of Pozzolans And Slag Cement	Rate
80140	Chemical Analysis Of Fly Ash Per Standard Requirements (ASTM C618)	\$ 825.00
80143	Physical Testing Of Fly Ash Per Standard Requirements (ASTM C618)	\$ 825.00
80146	Partial Analysis Or Specific Physical Tests	Quotation
80147	Chemical Analysis And Physical Testing Of Fly Ash Per Standard Requirements (ASTM C1618)	\$ 1,540.00
80250	Qualification Of Silica Fume Per Standard Requirements (ASTM C1240)	\$ 1,540.00
80252	Qualification Of Slag Cement Per Standard Requirements (ASTM C989)	\$ 1,540.00
80254	Effectiveness Of Pozzolans & Slag Cement In Mitigating Expansion Due To ASR (ASTM C441)	\$ 1,540.00

Task Code	Mass Concrete - Engineering And Testing Services	Rate
80256	Thermal Control Plan (Without Cooling Pipes) Per A Unique Type Of Placement Of Similar Group Of Placements, Each Plan	\$ 8,800.00
80258	Thermal Control Plan (With Cooling Pipes), Per A Unique Type Of Placement Of Similar Group Of Placements, Each Plan	\$ 10,450.00
80260	Performance Based Maximum Temperature Difference Laboratory & Analytical Studies, One Concrete Mixture Design	\$ 3,850.00

Task Code	Rock And Concrete Aggregates - Petrographic Examination & Special USACE & CRD Tests	Rate
80262	Rock Type Description, Per Sample (Rock Core Or Rock Chunk)	\$ 935.00
80263	Rock Type Description + XRD Including Clay Analysis, Per Sample	\$ 1,595.00
80266	Natural Aggregates - Petrographic Examination (Gravel And Natural Sand Consisting Of Single Rock Type ASTM C295) Each, One Sample	\$ 3,025.00
80268	Crushed Aggregates - Petrographic Examination (Crushed Rock And Manufactured Sand Consisting Of Single Rock Type ASTM C295), Each, One Sample	\$ 2,475.00
80270	Coarse Aggregate Certification For Deleterious Materials Per Specifications Of USACE, Materials Coarser Than 0.75-Inch Each, One Sample, 200 lb.	\$ 6,490.00
80272	Coarse Aggregate Certification For Deleterious Materials Per Specifications Of USACE, 0.75-Inch And Finer Material, Each, One Sample, 25 lb.	\$ 6,050.00
80274	Fine Aggregate Certification For Deleterious Materials Per Specifications Of USACE, Each, One Sample	\$ 2,200.00
80276	Aggregate, Scratch Hardness (CRD-C 130), Each, One Sample, 25 lb.	\$ 440.00

Task Code	Soils And Aggregate Tests	Rate
30503	Abrasion: LA Rattler (ASTM C131)	\$ 220.00
30505	Abrasion: LA Rattler (ASTM C535)	\$ 231.00
70301	Atterberg Limits/Plasticity Index (ASTM D4318, CTM 204)	\$ 176.00
70303	California Bearing Ratio Excluding Maximum Density (ASTM D1883) Soil	\$ 638.00
70304	California Bearing Ratio Excluding Maximum Density (ASTM D1883) Cement-Treated Soil	\$ 715.00
70344	Cement-Treated Soil/Base Mix Design: Includes Three Trial Cement Contents With Three Unconfined Compressive Strength Specimens Per Cement Content	\$ 3,850.00
70305	Chloride And Sulfate Content (CTM 417, CTM 422)	\$ 193.00
30403	Clay Lumps And Friable Particles (ASTM C142)	\$ 220.00
30321	Cleaness Value 1" x #4 (CTM 227)	\$ 193.00
30322	Cleaness Value 1.5" x .75" (CTM 227)	\$ 303.00



Task Code	Soils And Aggregate Tests, Continued	Rate
70393	Collapse Potential/Index (ASTM D5333)	\$ 248.00
70396	Compressive Strength Of Molded Soil-Cement Cylinders (ASTM D1633)	\$ 116.00
70309	Consolidation Test Full Cycle (ASTM 2435, CTM 219)	\$ 215.00
70311	Consolidation Test Time Rate Per Load Increment (ASTM D2435, CTM 219)	\$ 50.00
70313	Corrosivity Series Sulfate, Cl, pH, Resistivity (CTM 643, 417, and 422)	\$ 270.00
70315	Crushed/Fractured Particles (ASTM D5821, CTM 205)	\$ 193.00
70317	Direct Shear Test Remolded And/Or Residual (ASTM D3080)	\$ 270.00
70319	Direct Shear Test Undisturbed - Slow [CD] (ASTM D3080)	\$ 248.00
70321	Direct Shear Test Undisturbed - Fast [CU] (ASTM D3080)	\$ 215.00
70378	Durability Index Per Method - A,B,C, or D (ASTM D3744, CTM 229)	\$ 231.00
70325	Expansion Index (ASTM D4829, UBC 18-2)	\$ 187.00
75004	Fine Aggregate Angularity (ASTM C1252, CTM 234, AASHTO T304)	\$ 209.00
30507	Flat And Elongated Particle (ASTM D4791)	\$ 264.00
30508	Flat Or Elongated Particle (ASTM D4791)	\$ 231.00
70331	Maximum Density Methods A/B/C (ASTM D1557, D698, CTM 216)	\$ 209.00
70333	Maximum Density Check Point (ASTM D1557, D698)	\$ 72.00
70335	Maximum Density AASHTO C [Modified] (AASHTO T-180)	\$ 215.00
70336	Maximum Index Density Vibratory Table (ASTM D4253)	\$ 380.00
70337	Moisture Content (ASTM D2216, CTM 226)	\$ 28.00
70339	Moisture and Density Ring Sample (ASTM D2937)	\$ 33.00
70341	Moisture and Density Shelby Tube Sample (ASTM D2937)	\$ 44.00
70340	Moisture-Density Relations Of Soil-Cement Mixtures Premixed In The Field (ASTM D558)	\$ 303.00
70342	Moisture-Density Relations Of Soil-Cement Mixtures Mixed In The Lab (ASTM D558)	\$ 385.00
70328	pH Of Soils (ASTM D4972)	\$ 66.00
70330	Organic Content Of Soils (ASTM D2974, Method A Only)	\$ 94.00
30401	Organic Impurities (ASTM C40, CTM 213)	\$ 99.00
70343	Permeability (ASTM D5084)	Quotation
80001	Potential Reactivity Chemical Method (ASTM C289 - Discontinued Method)	\$ 825.00
70394	Potential Reactivity Mortar Bar Expansion Method, 14-Day Exposure (ASTM C1260)	\$ 1,018.00
70391	Potential Reactivity Mortar Bar Expansion Method, 28-Day Exposure (ASTM C1260)	\$ 1,073.00
70398	Potential Reactivity Concrete Bar Expansion Method (ASTM C1293), 12 month	\$ 3,080.00
70399	Potential Reactivity Concrete Bar Expansion Method (ASTM C1293), 24 month	\$ 3,410.00
70397	Potential Reactivity of Aggregate Combination, Non-Standard Method, 14-Day Exposure, Mortar (After ASTM C1567)	\$ 1,210.00
70392	Potential Reactivity Of Aggregate Combination, Non-Standard Method, 28-Day Exposure, Mortar (After ASTM C1567)	\$ 1,265.00
70345	R-Value Soil (ASTM 2844, CTM 301)	\$ 484.00
70347	R-Value Aggregate Base (ASTM D2844, CTM 301)	\$ 539.00
70349	Sand Equivalent (ASTM D2419, CTM 217)	\$ 138.00
70351	Sieve #200 Wash Only (ASTM D1140, CTM 202)	\$ 99.00
70353	Sieve With Hydrometer 3/4" Gravel To Clay (ASTM D422, D7928, CTM 203)	\$ 275.00
70355	Sieve With Hydrometer Sand To Clay (ASTM D422, D7928, CTM 203)	\$ 264.00
70357	Sieve Analysis Including Wash (ASTM C136, CTM 202)	\$ 165.00
70359	Sieve Analysis Without Wash (ASTM C136, CTM 202)	\$ 132.00
70360	Sieve Analysis Split Sieve (ASTM C136, CTM 202)	\$ 264.00
70361	Sieve Analysis Without Wash With Cobbles (ASTM C136, CTM 202)	\$ 259.00
70363	Soundness Sodium Or Magnesium Sulfate, 5 Cycles (ASTM C88)	\$ 495.00
70365	Specific Gravity And Absorption Coarse (ASTM C127, CTM 206)	\$ 110.00
70367	Specific Gravity And Absorption Fine (ASTM C128, CTM 207)	\$ 182.00
70369	Swell/Settlement Potential One Dimensional (ASTM D4546)	\$ 165.00
70371	Triaxial	Quotation
70373	Unconfined Compression (ASTM D2166, CTM 221)	\$ 209.00
30317	Unit Weight Per Cubic Foot (ASTM C29, CTM 212)	\$ 138.00
30319	Void In Aggregate With Known Specific Gravity (ASTM C29, CTM 212)	\$ 138.00
30411	Lightweight Particles Coarse, with Two Solutions (ASTM C123)	\$ 550.00
30412	Lightweight Particles Fine, with One Solution (ASTM C123)	\$ 275.00

Task Code	Asphalt Concrete Tests	Rate
75031	HMA Mixing And Preparation	\$ 149.00
75032	HMA Mixing And Preparation With Aggregate Treatment	\$ 209.00
75033	Bulk Specific Gravity Of Compacted Sample Or Core SSD (ASTM D2726, CTM 308C)	\$ 66.00
75036	Bulk Specific Gravity Of Compacted Sample Or Core Paraffin Coated (ASTM D1188 and CTM 308A)	\$ 94.00

Task Code	Asphalt Concrete Tests, Continued	Rate
75040	Emulsion Residue, Evaporation (ASTM D244)	\$ 187.00
75024	Extraction % Bitumen (ASTM D6307, CTM 382)	\$ 187.00
75027	Extraction % Bitumen And Gradation (ASTM D5444, D6307, CTM 202, 382)	\$ 253.00
75028	Extraction % Bitumen, Correction Factor (ASTM D6307, CTM 382)	\$ 413.00
75030	Chemical Extraction % Bitumen And Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444)	\$ 435.00
75042	Lab Tested Maximum Density Hveem, 3 Briquettes (ASTM D1561, D1188, CTM 304, 308)	\$ 253.00
75057	Hveem Stabilometer Test, Premixed, 3 Briquettes (ASTM D1560, D1561, CTM 304, 366)	\$ 253.00
75048	Lab Tested Maximum Density Marshall, 3 Briquettes (ASTM D6926, D2726)	\$ 248.00
75049	Lab Tested Maximum Density Marshall 6" Specimen, 3 Briquettes (ASTM D5581, D2726)	\$ 253.00
75050	Lab Tested Maximum Density Superpave Gyratory Compacted Briquette, SSD, 1 Briquette (ASTM D6925, D2726)	\$ 94.00
75052	Lab Tested Maximum Density Superpave Gyratory Compacted Briquette, Paraffin, 1 Briquette (ASTM D1188, D6925)	\$ 105.00
75051	Maximum Theoretical Specific Gravity [RICE] (ASTM D2041, CTM 309)	\$ 187.00
75066	Marshall Stability And Flow, Cored Sample, Each (ASTM D6927)	\$ 94.00
75069	Marshall Stability And Flow, Premixed, 3 Briquettes (ASTM D6926, D6927)	\$ 270.00
75106	Marshall Stability And Flow, Gyratory Compacted Specimen Pre-Mixed, 3 Briquettes (ASTM D5581, D6925)	\$ 270.00
75107	Marshall Stability And Flow 6" Specimen, Premixed, 3 Briquettes (ASTM D5581)	\$ 270.00
75063	Moisture Content (CTM 370)	\$ 99.00
75005	Wet Track Abrasion Test (ASTM D3910)	\$ 193.00
75093	Hveem Mix Design (Excluding Aggregate Quality Tests)	\$ 6,127.00
75096	Hveem Mix Design, With RAP (Excluding Aggregate Quality Tests, RAP Qualification)	\$ 6,655.00
75099	Hveem Mix Design, With Lime (Excluding Aggregate Quality Tests)	\$ 10,500.00
75094	Hveem Mix Design Caltrans Untreated Mix (Including Aggregate Quality Tests)	\$ 7,304.00
75095	Hveem Mix Design Caltrans Lime Treated Mix (Including Aggregate Quality Tests)	\$ 8,487.00
75084	Marshall Mix Design (Excluding Aggregate Quality Tests)	\$ 6,127.00
75087	Marshall Mix Design With RAP (Excluding Aggregate Quality Tests)	\$ 6,655.00
75090	Marshall Mix Design With Lime (Excluding Aggregate Quality Tests)	\$ 7,304.00
75083	Open Grade Asphalt Concrete Mix Design (ASTM D7064, CTM 368)	\$ 3,537.00
75109	Superpave Mix Design (Excluding Aggregate Quality Tests)	\$ 12,491.00
75113	Superpave Mix Design, With RAP (Excluding Aggregate Quality Tests)	\$ 13,195.00
75114	Superpave Mix Design With Rubber (Excluding Aggregate Quality Tests)	\$ 13,195.00
75115	Superpave Mix Design With Additives (Excluding Aggregate Quality Tests)	\$ 13,552.00
75075	Effect Of Moisture On Asphalt Paving Mixtures, Pre-Mixed (ASTM D4867, AASHTO T283)	\$ 1,177.00
75111	Hamburg Wheel Track Test, 20,000 Passes, 4 Briquettes (AASHTO T324)	\$ 1,298.00
75039	Raveling Test Of Cold Mixed Emulsified Asphalt (ASTM D7196)	\$ 237.00
75067	Marshall Stability, Wet Set, 3 Replicates (AASHTO T245)	\$ 413.00
75068	Marshall Stability, Dry Set, 3 Replicates (AASHTO T245)	\$ 352.00
75070	Cold Recycled Asphalt Mix Design 2 Gradings Each, 3 Emulsion Content (Caltrans LP-8)	\$ 12,375.00

Task Code	Mortar And Stucco - Petrographic Examination	Rate
80282	Stucco, One-Coat (ASTM C856), Includes Thin Section, Per Sample	\$ 2,475.00
80286	Stucco, Two-Coat (ASTM C856), Includes Thin Section, Per Sample	\$ 2,750.00
80290	Stucco, Three-Coat (ASTM C856), Includes Thin Section, Per Sample	\$ 3,300.00
80294	Mortar (ASTM C1324, Petrographic Examination And Chemical Analysis), Per Sample	\$ 3,575.00

Task Code	Brick Masonry Tests, ASTM C67	Rate
20301	Modulus Of Rupture Flexural	\$ 121.00
20303	Compression Strength	\$ 83.00
20305	Absorption 5 Hour or 24 Hour	\$ 88.00
20307	Absorption (Boil) 1, 2 Or 5 Hours	\$ 121.00
20309	Initial Rate Of Absorption	\$ 77.00
20311	Efflorescence	\$ 94.00
20313	Cores Compression	\$ 99.00
20315	Shear Test On Brick Cores 2 Faces	\$ 121.00



Task Code	Concrete Block, ASTM C140	Rate
20321	Compression	\$ 105.00
20323	Absorption/Moisture Content/Oven Dry Density	\$ 105.00
20327	Linear Shrinkage (ASTM C426)	\$ 303.00
20335	Web And Face Shell Measurements	\$ 61.00
20329	Tension Test	\$ 193.00
20331	Core Compression	\$ 99.00
20333	Shear Test Of Masonry Cores 2 Faces	\$ 121.00
20339	Efflorescence Tests	\$ 94.00

Task Code	Masonry Prisms, ASTM C1314	Rate
20341	Compression Test, Composite Masonry Prisms Up To 8" x 16"	\$ 226.00
20343	Compression Test, Composite Masonry Prisms > 8" x 16"	\$ 303.00
20346	Prism Cord Modulus Of Elasticity	\$ 715.00
20347	Prism Cord Modulus Of Elasticity With Transverse Strain (For Double-Wythe Specimen)	\$ 781.00

Task Code	Mortar And Grout	Rate
20351	Compression 2" x 4" Mortar Cylinders (ASTM C780)	\$ 66.00
20353	Compression 3" x 3" x 6" Grout Prisms, Includes Trimming (ASTM C1019)	\$ 50.00
20355	Compression 2" Cubes (ASTM C109)	\$ 66.00
20357	Compression Cores Includes Trimming (ASTM C42)	\$ 99.00

Task Code	Masonry Specimen Preparation	Rate
20155	Cutting Of Cubes Or Prisms	\$ 99.00

Task Code	Fireproofing Tests	Rate
20401	Oven Dry Density (ASTM E605)	\$ 83.00

Task Code	Guniting And Shotcrete Tests	Rate
20361	Core Compression Including Trimming (ASTM C42)	\$ 99.00
20365	Compression Cubes (Includes Saw Cutting)	\$ 116.00

Task Code	Concrete Roof Fill: Gypsum, Vermiculite, Perlite, Lightweight Insulating Concrete, Etc.	Rate
20371	Compression Test (ASTM C495 and C472)	\$ 83.00
20373	Air Dry Density (ASTM C472)	\$ 72.00
20379	Oven Dry Density (ASTM C495)	\$ 99.00

Task Code	Reinforcing Steel, ASTM A615, A706	Rate
20501	Tensile Test #11 Or Smaller	\$ 83.00
20503	Bend Test #11 Or Smaller	\$ 77.00
20504	Bend Test #14 Or #18	\$ 440.00
20505	Tensile Test #14	\$ 330.00
20507	Tensile Test #18	\$ 429.00

Task Code	Reinforcing Steel - Welded Or Coupled Specimens	Rate
20521	Tensile Test Welded/Coupled #11 And Smaller	\$ 94.00
20523	Tensile Test Welded/Coupled #14	\$ 319.00
20525	Tensile Test Welded/Coupled #18	\$ 451.00
20529	Weld Macroetch	\$ 105.00
20531	Slippage Test - Caltrans (CTM 670)	\$ 242.00
20532	Tensile Test Welded Hoops #11 And Smaller	\$ 187.00

Task Code	Metal And Steel Testing	Rate
20601	Tensile Strength Up To 100K Pounds (Each)	\$ 94.00
20603	Tensile Strength Up To 200K Pounds (Each)	\$ 105.00
20605	Tensile Strength Up To 300K Pounds (Each)	\$ 132.00
20607	Tensile Strength Up To 400K Pounds (Each)	\$ 193.00
20609	Tensile Strength 400K To 600K Pounds (Each)	\$ 440.00
20611	Tensile Strength Stress-Strain Percent Offset	\$ 275.00
20545	Weld Macroetch	\$ 105.00
20547	Weld Fracture	\$ 55.00
20615	Bend Test	\$ 88.00
20617	Flattening Test	\$ 88.00

Task Code	Metal And Steel Testing, Continued	Rate
20619	Hardness Test (ASTM E18)	\$ 94.00
20630	Bolt Axial Tensile Test (Up To 7/8" Diameter)	\$ 77.00
20631	Bolt Wedge Tensile Test (Up To 7/8" Diameter)	\$ 94.00
20632	Bolt Axial Tensile Test (Greater Than 7/8" Up To 1" diameter)	\$ 99.00
20633	Bolt Wedge Tensile Test (Greater Than 7/8" Up To 1" Diameter)	\$ 121.00
20634	Bolt Axial Tensile Test (Greater Than 1" Diameter)	\$ 143.00
20635	Bolt Wedge Tensile Test (Greater Than 1" Diameter)	\$ 154.00
20636	Bolt Proof Load Test (Up To 7/8")	\$ 105.00
20637	Bolt Proof Load Test (Greater Than 7/8" Up To 1" Diameter)	\$ 127.00
20638	Bolt Proof Load Test (Greater Than 1")	\$ 149.00
20639	Nut Proof Load Test (Up To 7/8")	\$ 83.00
20640	Nut Proof Load Test (Greater Than 7/8" Up To 1" Diameter)	\$ 105.00
20641	Nut Proof Load Test (Greater Than 1")	\$ 116.00

Task Code	Chemical Testing Of Metal And Steel	Rate
80170	Steel Chemical Analysis	Quotation
80173	Weight Of Galvanized Coating (ASTM A90)	\$ 99.00
80176	Epoxy Coating Thickness	\$ 110.00
80177	Coating Thickness	\$ 105.00

Task Code	Machining And Preparation Of Tensile And Bend Sample: Carbon Steel	Rate
20751	Machinist Initial Preparation From Mock-Up, Etc. (Per Hour)	\$ 160.00
20753	Sawcut To Overall Width (Per 0.5" Thickness Or Fraction Thereof)	\$ 72.00
20755	Machine To Test Configuration Milled Specimens	\$ 105.00
20757	Machine To Test Configuration Turned Specimens (Per 0.5" Thickness Or Fraction Thereof)	\$ 187.00
20759	Prepare Subsize Specimens (Per 0.5" Thickness Or Fraction Thereof)	\$ 127.00

Task Code	Charpy Impact	Rate
20621	Charpy Impact Ambient Temperature	\$ 116.00
20623	Charpy Impact Reduced Temperature	\$ 154.00

Task Code	Machining Of Charpy Samples: Carbon Steel	Rate
20780	Cutting And Milling (Per 0.5" Or Fraction Thereof)	\$ 105.00
20783	Final Machining To Sample Configuration	\$ 127.00

Task Code	Prestressing Wires And Tendons, (ASTM A416)	Rate
20701	Stress-Strain Analysis Wire Or Strands (Including Chart And Percent Offset)	\$ 281.00
20703	Tensile Test Only	\$ 209.00
20705	Tendons	Quotation

Task Code	Polymer Matrix Composite Materials (Fiberwrap)	Rate
20706	Tensile Strength - Set Of 5 Specimens/Batch/Direction (ASTM D3039)	\$ 1,540.00
20707	Tensile Strength - Additional Specimens (ASTM D3039) (ASTM D3039)	\$ 297.00
20708	Heating Chamber Time - Per 24 Hr. Period	\$ 110.00

Task Code	Calibration Services And Universal Machine Usage	Rate
20801	Calibration/Verification Services	Quotation
20803	Universal Test Machine Usage (Per Hour)	\$ 523.00

Task Code	Specialty Testing	Rate
	- Cyclic And Fatigue Testing Programs On Special Products/Parts	
	- Engineering And Technical Supports/Design Of Prototypes And Special Test Set-Up	
	- Fastener/Coupling Full Testing Program Per New Regulations: Tension, Tension/Bend, Shear, Double Shear, 8 Compressions	
	- Fiberglass/Composite Materials Field Testing Program (ASTM D1143 D1242, D2584, D4065, D4476, D4923, D7901, D7921, and D732)	
	- Field Testing Of Structures And Structural Elements	
	- In-Place Shear Testing	
	- Materials And/Or Product Evaluation Per Specifications	
	- Structural Dynamic Testing And Durability Analysis	

General Conditions

NOTE: Field inspection work conditions are established by contract with Operating Engineers, Local 12.

NOTE: A minimum of 24 hours notice is required for testing and inspection services.

NOTE: For projects subject to a Project Labor Agreement (PLA), if the terms and conditions of the PLA are more restrictive than those listed below, PLA terms and conditions will apply.

NOTE: Rates will be adjusted annually each July 1st to reflect increased costs.

Administrative Fees

All administrative fees, except as noted below, including report distribution and Twining Construction Hive system are billed at the following percentage of the monthly invoice total: 4%



General Conditions, Continued

Note that hard copies of reports will be sent only to governing jurisdictions that mandate them. All other parties will receive reports electronically. The administrative fee above will receive reports electronically. The administrative fee above will be increased by 1% if additional hard copies of reports are requested. Submittal of project specific forms or resumes will be billed hourly at the Administrative Support Rate.

Minimum Charges (Inspection and Technician Personnel Only - Other Personnel Charged on Portal to Portal Basis)

2-Hour Minimum: Inspector arrives at jobsite, no work to perform

4-Hour Minimum: 1 to 4 hours of inspection

8-Hour Minimum: Over 4 to 8 hours of inspection

Regular Time (All Types of Inspection and also All Non-Exempt Employees)

The first 8 hours worked Monday through Friday between 5:00 a.m. and 5:00 p.m. except as noted otherwise below.

Time and One-Half (All Types of Inspection and also All Non-Exempt Employees)

All shifts will be billed based on the time and date of their start. Any increment past 8 hours through 12 hours worked Monday through Friday and the first 12 hours on Saturday. Time and one-half will also be charged for the first four hours before 5:00 a.m. and after 5:00 p.m.

Double Time (All Types of Inspection and also All Non-Exempt Employees)

All shifts will be billed based on the time and date of their start. After the first 12 hours worked Monday through Saturday, all day Sunday, and holidays. After the first four hours worked before 5:00 a.m. and after 5:00 p.m. Holidays are New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving, the day after Thanksgiving, Christmas Day, and Local 12 general meeting days (First Saturday in June, First Saturday in December).

Meal Period

When personnel are required by their duties to work more than five consecutive hours without a one-half hour uninterrupted meal period, one half hour at double time rate will be charged in addition to any applicable overtime for actual hours worked.

Shift Differential (Applies to Regularly Scheduled Shifts Only)

A \$1.00 per hour shift differential premium will be charged for all inspection hours that fall outside of the 5:00 a.m. to 5:00 p.m. time period. Twining will require 48-hour notice along with the General Contractors approved shift letter prior to beginning a shift that will include hours falling outside this time period. Should this notice not be provided, all work performed on that shift will be billed at the applicable overtime or double time rate.

If three shifts per day are required, the first shift will be billed at the standard rate. The second shift shall be billed in accordance with the previous paragraph. The third shift shall be billed at 8 hours for the first 6 1/2 hours worked and appropriate overtime or double time for all hours thereafter.

Travel Time and Mileage

For projects outside a 50-mile radius from the nearest Twining facility, per excess mile to and from the project will be charged for inspectors and technicians. Other than small tools, whenever project related equipment is required to be transported to and from the project site, time and mileage for inspectors and field technicians will be billed on a portal to portal basis. For all projects, current IRS mileage rate per mile and applicable travel time will be charged portal to portal for engineers, consultants, supervisors, and laboratory technicians from the laboratory to the project site and return.

For work locations located 100 miles or more from Twining, travel time will be charged at the relevant rate for inspectors and technicians in addition to a subsistence allowance as detailed below.

Weekend Sample Pick-Ups

In order to be in strict conformance with testing standards, it may be required that weekend pick-ups be performed (e.g. concrete specimens cast on Friday must be picked up on weekend in order to be in conformance with ASTM C31 requiring specimens to be moved to their final curing location within 48 hours of casting.) Applicable charges for weekend work will apply when this is required. Should these charges not be authorized, Twining will not be liable for any negative consequences.

Reimbursable Expenses

Parking, air fare, car rental, food, lodging and project specific software/applications (e.g. PlanGrid, Procore, etc.) will be charged at cost plus 20% per processed invoice, unless provided by client.

Project Specific Documents

Costs presented assume that client will provide project specific documents (plans, specifications, submittals, RFIs, etc.) for all inspection personnel. Should project specific documents be provided electronically through a "for fee" service, the client will be responsible for providing access and paying any fees for the service.

Project Site Facilities

Prices quoted assume that initial curing facilities for test samples that comply with relevant test standards and project requirements are provided by others. In addition, prices quoted assume that work/desk space for inspection staff are provided by others. Additional costs, provided by quotation, will apply should Twining be required to provide such facilities.

Subsistence

Subsistence on remote jobs will be charged per quotation.

Laboratory Testing Hours and Expedited Testing

Please note that laboratory testing will be billed on an hourly basis for non-standard tests. If testing is required to be performed on Saturdays, Sundays, holidays, or before 5:30 a.m. or after 4:00 p.m. on weekdays, an additional hourly charge, at the applicable regular, overtime or double time rate, with a minimum of one hour will be applied for the laboratory technician. For rush testing a 50% surcharge in addition to the regular test rate will apply.

Charges for Subcontracted Services

Material sent to outside laboratory for testing:	Cost plus 20%
Material sent to outside fabricator or machine shop:	Cost plus 20%
Glu-Lam beam inspection:	Cost plus 20%
Other subcontractors:	Cost plus 20%
Project exclusive equipment purchase:	Cost plus 20%

Limit of Liability

Client agrees to limit Twining's aggregate liability to all entities for alleged or actual errors and omissions in the performance of its professional services under this agreement to \$50,000.00 or the fees actually paid to Twining, whichever amount is greater. Higher limits may be available by quotation.

Additional Insurance Coverage

Any requirements for additional insurance policies or coverage beyond our normal policies/limits (e.g. SML coverage) may be provided at an additional fee and will be quoted on a per project requirements basis.

Certified Payroll

Certified payroll will be provided, upon request, at an additional charge of \$150.00/month. Fee applies to every month that certified payroll must be submitted regardless of whether or not services were provided for any given month.



General Conditions, Continued

Final Reports Required by Jurisdiction

If a final report or affidavit is required, we must first review all inspection and testing reports and clear up any unresolved issues on these reports. These issues will typically require approval by the engineer or architect of record. This process can take several weeks or just a day, depending on the number and complexity of the issues. Cost for final reports will be billed hourly.

Terms of Payment

Fees charged are for professional and technical services and are due upon presentation. If not paid within 30 days from date of invoice, they are considered past due and the maximum legal finance charge will be added to the unpaid balance.

In addition, should the client require that invoices be submitted through a web based or electronic system, the client will be responsible for all costs associated with the use of the system.

A 3% fee will be applied for payments processed by credit card.

All invoice errors or necessary corrections shall be brought to the attention of Twining within 15 days of receipt of invoice. Thereafter, customer acknowledges invoices are correct and valid. Twining reserves the right to terminate its services to a customer without notice if all invoices are not current. Upon such termination of services, the entire amount accrued for all services performed shall immediately become due and payable. Customer waives any and all claims against Twining, its subsidiaries, affiliates, servants, and agents for termination of work on account of these terms.

In the event of any litigation arising from or related to any agreement to provide services whether verbal or written, the prevailing party shall be entitled to recover from the non-prevailing party all reasonable costs incurred, including staff time, court costs, attorney's fees and all other related expenses in such litigation. Additionally, in the event of a non-adjudicative settlement of litigation between the parties or a resolution of dispute by arbitration, that same process shall determine the prevailing party.

Hold Specimens

All "hold" specimens are charged at the applicable test rate whether tested or not.

Specimen Sampling and Disposal

Twining samples materials used in construction in accordance with standard practices, methods, codes, and relevant project requirements. Representativeness of sampling and same accuracy of testing are subject to the same probabilistic and precision limitations as governing standards, codes and project technical provisions.

Should samples be provided by others Twining cannot warrant or guarantee that material is representative of material that is or will be used in actual construction of the project.

Specimens will be discarded after testing unless Twining has been notified prior to testing that the customer wishes to retrieve the specimens or storage arrangements are made. Costs for storage will be by quotation.

Oversize Specimens

An extra charge will be made when test specimens require more than one person to handle because of size or weight.

Elevated Work Platforms

In the event an elevated work platform is required to safely complete our work, the client must provide safe access for Twining personnel for all required inspection, testing, sampling, etc. including a trained and certified operator or qualified inspector as applicable. Twining will not be responsible for signing waivers associated with providing such access. Should Twining be required to supply an elevated work platform, we will contract with a qualified vendor and the markups shown above will apply.



RATE SHEET

Address	235 E. Broadway, Long Beach, CA 90802	DATE	5/28/2025	
		PROJECT	On-Call Construction Management, Materials Testing, and Inspection Services for City of Huntington Beach	
Certification	DBE/SBE	COMPANY	GHD	
		C/O	Natasha Johnson	
Prepared by	Benny Yu	Rate Valid Until	12/31/2025	
	byu@montezgroup.com	Escalation	Based on CPI (Will be submitted per calendar year)	
Name	Direct Labor Rate (Per Hour)	OH%	Profit	Billing Rate (Per Hour)
Estuardo Ramirez	\$90	127.21%	10%	\$225
Dickson Sum	\$75	127.21%	10%	\$187
Komal Nagare	\$70	127.21%	10%	\$175
Ricardo Rodriguez	\$75	127.21%	10%	\$187
Note: ● Base rate for regular working hours for the project ● Overtime hours - Only as approved by the Client - Base Rate x1.5 ● Escalation based on CPI will be submitted per calendar year * Subject to the Prevailing Wage per DIR				
http://www.montezgroup.com				



CERTIFICATE OF LIABILITY INSURANCE

Page 1 of 1

DATE (MM/DD/YYYY)
11/09/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Willis Towers Watson Northeast, Inc. c/o 26 Century Blvd P.O. Box 305191 Nashville, TN 372305191 USA	CONTACT NAME: WTW Certificate Center PHONE (A/C, No, Ext): 1-877-945-7378 FAX (A/C, No): 1-888-467-2378 E-MAIL ADDRESS: certificates@wtwco.com
INSURED GHD Inc. 2055 Niagara Falls Blvd., Suite 1 Niagara Falls, NY 14304	INSURER(S) AFFORDING COVERAGE INSURER A: Lloyd's Syndicate 0623 (Beazley Furlonge G NAIC # B0356 INSURER B: INSURER C: INSURER D: INSURER E: INSURER F:

COVERAGES**CERTIFICATE NUMBER:** W41718667**REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☐ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☐ PRO-JECT ☐ LOC ☐ OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	AUTOMOBILE LIABILITY ☐ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB ☐ OCCUR EXCESS LIAB ☐ CLAIMS-MADE DED ☐ RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? ☐ Y / N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N / A				PER STATUTE ☐ OTH-ER ☐ E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	Professional Liability			B080113856P24	12/01/2024	12/01/2025	Each Claim \$1,000,000 Aggregate \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

RE: On-Call Construction Management, Materials Testing, and Inspection Services (2025-0613) (MSA)**CERTIFICATE HOLDER****CANCELLATION**

City of Huntington Beach Attn: Director of Public Works 2000 Main Street Huntington Beach, CA 92648	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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ACORD 25 (2016/03)

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SR ID: 28841625

BATCH: 4199474