NOBLE CONSULTANTS | GEC

2201 DuPont Drive #830
Irvine, CA 92612
(949) 752-1530

ENR TOP 500 DESIGN FIRMS

February 23, 2026

City of Oceanside
Engineering Division
300 North Coast Highway
Oceanside, CA 92054

ATTN: Luis Cardenas,
Associate Engineer

RE: Proposal for Oceanside Pier Hammerhead Restoration

Dear Luis,

Noble Consultants, Inc. (NCI) is pleased to submit this proposal and Statement of Qualifications (SOQ) for selection as consultant to prepare plans, specifications, probable cost estimates, and related documents for the in-kind restoration of the Oceanside Pier Hammerhead. In response to the City of Oceanside's RFP, we have assembled a specialized team of design professionals to efficiently address all engineering disciplines, utility coordination, permitting, technical studies, inspections, and any construction documents required for the pier restoration.

This SOQ highlights our qualifications and demonstrates why NCI is well suited for this project:

1. Our team possesses extensive, specialized expertise in the inspection, design, and construction of ocean structures, enabling us to deliver the most cost-effective capital improvement solution for the City.

2. We have a strong track record of designing economical, constructible structures—experience informed by direct involvement with construction that yields practical, value-driven design solutions.

3. We are familiar with the City's capital improvement processes and procedures from prior work, which ensures effective communication with City staff, sensitivity to civic considerations, and a collaborative, team-oriented approach.

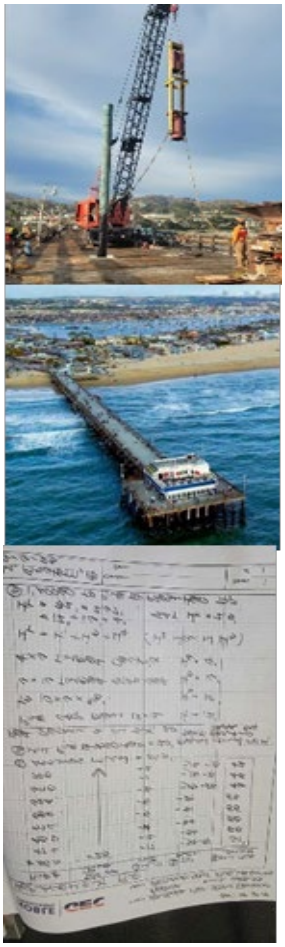
This SOQ expands on these strengths by summarizing our project understanding, describing our project team's capabilities, and outlining relevant past experience. We believe that this information, together with our unique familiarity with ocean pier repair and design problems, supports our belief that we present the most qualified consultant that can be selected by the City.

This proposal was prepared using available information and our extensive expertise in timber piers and the coastal environment. Please contact us if you need further information or have any questions.

Sincerely,
Noble Consultants, Inc.

Thomas Fischetti, PE
VP Operations

General Firm Description



Noble Consultants, Inc. (NCI) is a civil engineering firm specializing in coastal zone projects. Our expertise encompasses planning, design, permitting, and construction supervision for both new developments and the repair and rehabilitation of existing structures. NCI's multidisciplinary team has consistently demonstrated strong project management skills, serving as the prime consultant on numerous coastal planning and design initiatives. Approximately 90% of our services cater to federal and local municipal governments, focusing on waterfront development projects. NCI has been engaged by over 50 public agencies in California for coastal project services.

For the past 20 years, NCI has proudly served as an On-Call Engineering Consultant for many City and Special Districts. During this period, we have successfully completed a wide range of task order assignments, covering studies, design, and construction services for various harbor and coastal projects. Our collaboration with City staff has deepened our understanding of your specific needs and requirements.

To ensure the highest quality of work, we dedicate a Project Team of senior-level professionals to projects. This team brings extensive knowledge in harbor, coastal, and marine areas, particularly in the design of replacement, alteration, and renovation of piers.

The experience and knowledge base of Noble Consultants includes:

- Marina and dock design
- Small craft navigation
- Coastal engineering and coastal processes
- Water circulation and water quality studies
- Shore protection and coastal hazard mitigation
- Beach nourishment
- Coastal structures design
- Maintenance dredging
- Scheduling, cost estimate and project management
- Regulatory permitting
- Outreach and presentations to public agencies
- Marine biology investigation and monitoring
- Land and bathymetric surveys
- Geotechnical studies and geology
- Diving/underwater inspection
- Civil engineering design
- Structural engineering with emphasis on marine and harbor structures
- Mechanical and electrical engineering

Noble Consultants has performed engineering services on the majority of municipal piers between San Clemente and Santa Barbara. These services included replacement of complete pier segments damaged in storms, repairs to decking, pile caps, piles, braces, gangways, and guardrails. They have upgraded pier structures to support higher loading, seismic loading upgrades, and replaced firewater and utility services. Noble Consultants has inspected and prepared construction repair drawings for piers constructed timber, steel, and concrete.

Noble Consultants will service this contract from its Irvine, California office. This office has been at this location for 30 years providing coastal engineering services.

Familiarity with This Project and Pier Projects

Before the inception of Noble Consultants, Inc. Ron Noble worked directly with the City of Oceanside to requisition consultants for the pier rehabilitation in 1985. Mr. Noble managed the project while Flour A&E Services prepared the rehabilitation drawings. Fast forward, Noble Consultants prepared design and drawings to repair the pier in the late 80's. Noble Consultants has been servicing this pier as long as any other consultant could possibly claim.

Our visual observations of the undamaged portion of the pier indicates that it is in fair to good condition. Timbers appeared to be in generally good condition, but little if any preservative treatment remains. In addition, past pier inspection reports indicate that some of the timber deck planks are experiencing deterioration. The extensive cracking observed may be related to an inability of the rigid slab to accommodate the cyclical motion and greater deflections that timber piers typically experience when subjected to ocean wave lateral forces.

Noble Consultants' Ocean Pier Experience includes:

1. San Clemente Pier (San Clemente)
2. Oceanside Pier (Oceanside)
3. Encinitas Pier (Encinitas)
4. Del Mar Pier (Del Mar)
5. Newport Beach Pier / Balboa Pier (Newport Beach)
6. Huntington Beach Pier (Huntington Beach)
7. Long Beach Pier (Rainbow Pier, Long Beach)
8. Redondo Beach Pier (King Harbor, Redondo Beach)
9. Santa Monica Pier (Santa Monica)
10. Venice Pier (Venice)
11. Malibu Pier (Malibu)
12. Ventura Beach Pier (Ventura)
13. Port Hueneme Pier (Port Hueneme)
14. Santa Barbara Pier (Santa Barbara)

Services and Deliverables

The rehabilitation of the Oceanside pier will involve the following processes:

- Our proposal generally follows the RFP script, but we have isolated a critical step in our approach that is diluted in the approach presented in the RFP. This step is publication of the Design Memorandum. We refer to it as diluted because the effort that goes into producing the PDM - the assessments, evaluations and design decisions - will be undertaken in the design process; it cannot be ignored. In our approach, we make an effort to identify the critical project issues and concerns up front and use those decisions to establish guide the design development The Preliminary Design Memorandum (PDM) will establish the course for completing the project philosophy consistent with City goals and objectives and cost considerations. It will begin with a like-for-like replacement approach for damaged elements—deck planking, stringers, caps and bracing - based on available record drawings and modern construction technology. A thorough review of existing documents (drawings, specifications, original calculations, geotechnical reports, etc.) will inform the design criteria for the damaged improvements, which will then be compared against current best practices to define the final replacement criteria. The PDM will synthesize the conceptual design, confirmed entitlement and permit requirements, results of above- and below-water inspections, project schedule, and the pier's historical record. As a living document, the PDM will guide and record project decisions from inception through completion.

- Project partners will have the chance to review the PDM, steering mission objectives to build a consensus among the interested parties.

- Permit Applications will be readied immediately following the PDM. Conceptual drawings in the PDM will be formulated into the permit plan set; accompanied by biological surveys this will confirm the categorical exemption from CEQA. Applications will follow to Coastal Commission, Water Board, US Army Corps of Engineers.

- Proposed improvements will be reviewed with City personnel in design workshops where concerns can be resolved. A combination of live and virtual project status meetings will communicate concerns, coordinate work, and monitor schedule.

- Design Development of the drawings can progress while waiting on the permit processing. Progress drawings, a technical specification outline, preliminary calculations, and estimate of probable cost will be submitted at the 50% design progress level. Final design drawings, covering Civil, Architectural/Structural drawings, MEP utility connections, technical specifications, calculations, and estimate of probable construction cost will be submitted at 100% Design Progress.

In conclusion, the above general statement of the key design processes and our methodology of approach can be reiterated to describe the overall philosophy of our project team and the advantages it brings to the City of Oceanside Pier Rehabilitation Project:

- Our special familiarity with the project site and our combined design and construction experience would be utilized to its advantage to use existing information to the maximum extent possible, specify supplemental data collection needs judiciously, and develop design criteria that are not overly conservative.

- The final design will be a structure that is easy to construct. This approach makes the project attractive to prospective, well qualified marine contractors, stimulates competitive bidding, and results in a bottom line benefit of construction cost savings for the City.

- Our team's capabilities and experience translates to a more efficient design effort so that more of the City's funds can be devoted to construction cost as opposed to payment for engineering services.

As a final statement of our qualifications, a summary of the technical credentials of the key professionals of the project team, how they would be managed, and our relevant project experience is discussed in the next sections of this SOQ.

Line Item Scope of Services

The scope of Design Phase Services is as follows:

Task 0 - Interim Bracing
- a. Structural Background
- b. Structural Design
- c. Drawings
- d. Specifications

Task 1 - Project Mgmt and Coordination
- a. Kickoff Meeting
- b. Weekly Design Meetings
- c. Review Workshops (50 & 100%)
- d. Restaurant Coordination
- e. Build Project Schedule

Task 2 - Inspection and Assessment
- a. As-built existing Conditions
- b. Identify onsite utilities
- c. Research Plans
- d. Investigate deficiencies
- e. Alternatives / Recommend Repair

Task 2A - Superstructure Inspection (Drone)
- a. Identify inspection points
- b. Onsite for inspection
- c. Interpret Results
- d. Write report

Task 2B - Above/Under Water Inspection
- a. Create Inspection log sheets
- b. Onsite for 50% inspection
- c. Interpret Results
- d. Write report

Task 2C** - Preliminary Design Memorandum
- a. Conceptual structural design calcs
- b. Criteria study and Alternative criteria
- c. Entitlement Permit Research
- d. Consultations
- e. Concept Plans
- f. Draft PDM Narrative
- g. Final PDM Narrative

Task 3 - Service Life Presentation
- a. Outline and supplement Program
- b. Prepare slides
- c. one presentation

Task 4A - Permit Drawings (50%)

Final Calcs
- a. Title sheet
- b. Notes
- c. Plans
- d. Sections
- e. Details
- f. Specifications
- g. Cost Estimate

Task 4B - Contract Drawings (100%)

Final Calcs
- a. Title sheet
- b. Notes
- c. Plans
- d. Sections
- e. Details
- f. Specifications
- g. Cost Estimate

Task 5 - Regulatory Permit Application
- a. COE
- b. CCC
- c. Water Board
- d. Harbor Dept.

Note** Task 2C is a deliverable recommended by Noble Consultants. The PDM is not requested in the RFP.

The scope of <u>Construction and Bid Phase Services</u> are as follows:

Task 6- Construction Support
- Bid Support
- Precon
- RFI's
- Submittal Reviews
- Work Coord Meetings
- Strl Observations
- As Builts
- Final Regulatory Approvals

Subconsultant Services (Design Phase) and Expenses are as follows:

Subconsultants
- Utilicoor - Mechanical Plumbing
- Utilicoor - Electrical
- Brennan
- Drone

Expenses
- Travel
- Reproduction

Project Manager

The Project Manager assigned to this project will be Thomas Fischetti, PE. Please refer to his qualifications and experience as listed in the Key Personnel and Resume Sections of this proposal.

Key Personnel

Resumes of Noble Consultants key personnel assigned to this project follows.

Thomas Fischetti, PE
Principal-In-Charge

Mr. Fischetti has supervised and designed numerous coastal and ocean structures over his 40 years of professional experience. A partial listing of his ocean pier experience includes Santa Monica, Ventura, and the San Buenaventura piers. As Principal in Charge of Noble Consultants, Inc., his involvement demonstrates the high level of corporate commitment to this project. His years of experience in the design and construction of coastal and offshore structures with specialized expertise in concrete, timber and steel structures. Specific projects he has designed include bridges of all types, offshore oil platforms, marine terminals and piers. His capabilities include soil/ structure interaction analysis, and dynamic and non-linear analysis if needed. He is recognized for his ability to develop economic design concepts and practical fabrication methods.

Ron Noble, PE
Technical Advisor

Mr. Noble is retired, however he continues to consult on an as-needed basis. His wealth of knowledge in Coastal Engineering is simply unmatched by local engineers in the industry. It is an honor and privilege to have his technical and practical experience available to our design team.

Hamid Bazgirkhood, Ph.D.
Water Resources Engineer

Dr. Bazgirkhoob has over 24 years of experience in water resources and coastal engineering. His professional experience encompasses design, operational and technical

support roles, with major emphasis leading hydraulic structures, coastal modeling, hydrological and contaminant sediment transport modeling, hydrodynamic-water quality modeling, pipe network design, fish passage, watershed conservation and preservation. His experience in project design, scheduling, management and controls follows a lifelong consulting career in a broad range of large and small projects, like dams, culverts, inland and coastal watersheds, and pipelines. His engineering expertise encompasses onsite investigations, modeling and analysis of routine and complex water resources projects using conventional and finite element methods, and preparation of technical documents for public works and private improvements.

William Fischetti, PE
Civil Engineering
Construction Management

William Fischetti has over 40 years of experience in civil and structural engineering, construction of shoring and soil retention systems and construction management. His construction experience involves QA/QC monitoring and inspection assignments.

Subconsultant Services

Subconsultants selected for this project have had long standing relationships with Noble Consultants. These firms are responsive and cost effective for projects big and small alike.

Mechanical, Electrical and Plumbing engineering services for this project will be performed by Utilicoor Inc. under the direction of William Johns, PE. Mr. Johns has 40 years of experience in engineering and management of civil and structural projects, including coastal structures, petroleum storage facilities, government & municipal infrastructure and pipelines. Project engineering experience includes coordinating engineering, scheduling work, cost estimating, writing specifications, overseeing subsurface utility engineering, permit and agency coordination, supervising construction operations and quality control. Project management experience ranges from small projects to a storage terminal expansion in excess of $60,000,000.

Above/Under Water Inspection Services for this project will be performed by JF Brennan, under the direction of Kelly Brown. Mr. Brown is highly experienced superintendent with over 14 years of experience in the marine, underwater construction, and commercial diving industry. Skilled in management and execution of complex underwater projects that prioritizes dive team safety. Project experience includes diving

in or on a variety of hydroelectric facilities, industrial plants, dams, piers, bridges, shipwrecks, quay walls, large vessels, and potable water facilities.

GEC Inc. – Parent Corporation

Since Noble Consultants' acquisition by G.E.C., Inc. in October 2013 we have continued to operate independently as a wholly owned subsidiary of GEC, and remain a California corporation. However, we now have direct access to the GEC staff of approximately 135 professionals, including highly qualified civil and coastal engineers, structural engineers, mechanical engineers, electrical engineers, environmental and socioeconomic specialists, transportation planners, traffic engineers, highway design engineers, bridge design engineers, CADD technicians, GIS, and other professional support personnel.

Pier Project Experience

- ***Ventura Pier Storm Damage Repair (2024)*** Following the storm in Jan & Feb of 2023, the Ventura Pier sustained considerable damage to horizontal and diagonal bracings and some timber piles. Noble Consultants developed plans and specifications for bid and construction of repairs.

Photo 4: Ventura Pier Storm Damage Repair

- ***Pier D Redevelopment Review (2021)***
  Provide project planning for the removal of the former GP Gypsum plant to restore the 11 acre site in preparation of a new development.

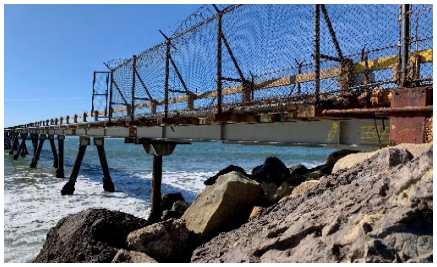


Photo 4: Rincon Pier Structural Assessment

- ***Rincon Pier 2020 Structural Assessment (2020)***
  Observation of pier structure condition, structural calculations for pile capacity reduction due to corrosion, and letter report for Structural Assessment of Rincon Island Causeway.

- ***Balboa Pier Damage Assessment (2019)***
  Assess the damage to Pile A at Bent 31 along the pier, confirm the urgency of repair action, and recommend temporary measures to stabilize the damaged section of pier deck.

Photo 4: Balboa Pier Damage Assessment

- ***Rincon Pier Emergency Pile Repair (2019)***
  Pier providing access from the shore to the Rincon Island near Mussel Shoals, CA was damaged. Noble Consultants conducted structural analysis of current causeway condition. The theoretical structural integrity of the causeway, subjected to the loss of a single-pile pier support was assessed. Designed a temporary structural repair. Wrote Temporary Shoring Report and Final Repair Verifications. Provided services for shoring beam-bearing concerns.

Photo 4: Ventura Pier Corrosion Repair Project

- ***Ventura Pier Corrosion Repair Project (2019)***
  To facilitate planned maintenance for the Ventura Pier, contract documents were prepared for coating repairs. estimate of the probable construction cost to repair the deck.

Organizational Chart

City of Oceanside
Engineering Division

Brian Thomas, PE
City Engineer

Luis Cardenas
Associate Engineer

PRINCIPAL-IN-CHARGE
PROJECT MANAGER

Thomas Fischetti, PE
Noble Consultants, Inc.

TECHNICAL ADVISOR

Ron Noble, PE
Noble Consultants, Inc.

CIVIL ENGINEERING PERMITING

Noble Consultants | GEC, Inc.

Hamid Bazgirkhoob
Water Resource Engineering

John Geychyen
Civil CADD Designer

Ryder Dinning
Civil CADD Designer

M E P ENGINEERING
UTILICOOR

William Johns, PE
Civil Engineer

Clifford Corbet
Mechanical Engineer

Lorenzo Iriarte
Electrical Engineer

CONSTRUCTION ADMINISTRATION AND INSPECTION

Noble Consultants | GEC, Inc.

William Fischetti, PE
Construction Manager.

ABOVE/BELOW WATER INSPECTIONS
JF BRENNAN COMPANY, INC.

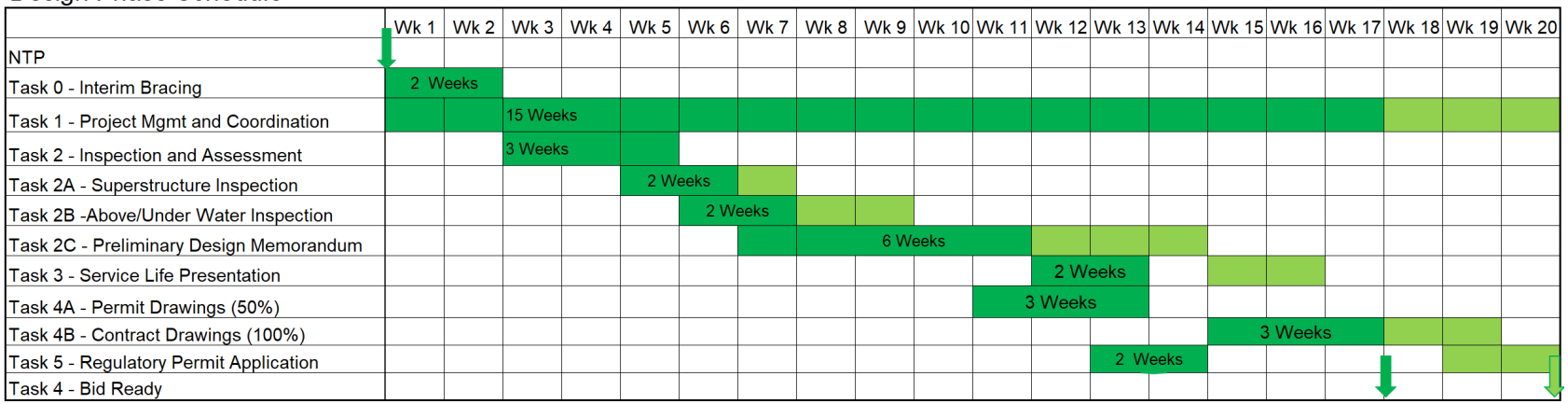
Kelly Brown
Dive Superintendant

Duane Black
Dive Supervisor

Schedule

A project duration of 17 to 20 weeks is recommended to complete this project. Additional time should be added for review time, coordination and presentation to community leaders, etc.

Design Phase Schedule



Client References

1. Los Angeles County Beaches & Harbors

Salim Sioufi/Project Manager
13575 Fiji Way
Marina del Ray, CA 90292
626-300-2361
ssioufi@dpw.lacounty.gov

Chace Park Anchorage 47 Docks Replacement, Ca
Prepared the engineering design, plans and specifications for the Chace Park Anchorage 47 Docks Replacement Project in Marina del Rey, CA. The new dock system consists of 11 separate dock headwalks/gangways with boat slips of various sizes for 253 boats, modifications to an existing restroom to make it ADA compatible, new landside utilities (water, fire protection, power, and sewer) and landside improvements.

Completed 83 task orders on a variety of coastal engineering and design scopes of services including maintenance dredging of Marina del Rey, beach nourishment, marina design, beach access design, sea level rise vulnerability assessments, shoreline protection, and repair/maintenance of public assets.

2. KieCon

Abdul Kassab/Engineer Manager
3551 Willbur Ave.
Antioch, CA 94509
925-331-7108
Abdullah.Kassab@kiecon.com

Worldwide Projects — Prepared floatation and structural calculations for pre-engineered concrete docks manufactured by KieCon Corporation in Antioch, CA. Many dock projects also included design of guide piles and gangway landings. Using modular dock components proprietary to International Marine Floatation Systems, Inc., Mr. Fischetti completed engineering for floating concrete docks at the following locations: Dock 26 - Coyote Point, CA; MCCS Marina - Kaneohe Bay, HI; Piers 1.5, 9 and 15 – San Francisco Embarcadero, CA; Kwajalein Marshall Island; Moss Landing Marina, CA.

3. Ventura Port District

Todd Mitchell/Sr. Business Operations Manager
1603 Anchors Way Dr.
Ventura, CA 93001
805-621-7169
tmitchell@venturaharbor.com

Harbor Village Dock Replacement
Provided professional engineering services connected with construction of the Ventura Harbor Village Marina Replacement Project. The purpose of our services shall be to assist staff with solicitation and review of formal construction bid proposals and provide engineering consultation and technical support during construction.

1. City of San Buenaventura

Barbara McCormack
City of San Buenaventura
P.O. Box 99
Ventura, CA 93002
805-212-9516
bmccormack@cityofventura.ca.gov

Ventura Pier Storm Damage Repair
Storm damage repair to ocean pier. Replaced piles and bracing.

2. Newport Beach Harbor District

Kathryne Cho
City of Newport Beach
100 Civic Center Drive
Newport Beach, CA 92660
(949) 644-3014
kcho@newportbeachca.gov

Balboa Pier Pile Repair
Working under an On-Call contract with the City of Newport Beach, Noble Consultants responded to a missing pile incident at the Balboa Pier. The pile was essential for the long-term stability of the structure; it needed to be replaced and pier damage in its vicinity repaired. Noble Consultants developed a minimal but sufficient plan and specification on an 8.5”x11” format to bid and construct the project.

Noble Consultants Resumes

THOMAS J. FISCHETTI, PE

VICE PRESIDENT OF OPERATIONS

Mr. Fischetti has over 40 years of experience in civil and structural engineering and project management. His professional experience encompasses strategic, operational and technical support roles, with major emphasis leading structural engineering and design services offered by NCI. His broad range of project experience throughout design, project scheduling, management and controls concerning large and small projects like buildings, oil platforms, tanks, equipment supports, treatment plants, pipelines, piers, wharfs and harbors, levees. His engineering expertise encompasses onsite investigations, modeling and analysis of routine and complex structures using conventional and finite element methods, and preparation of construction documents for public works and private improvements.

RELEVANT PROJECT EXPERIENCE

BOLINAS SEAWALL REPLACEMENT PROJECT

Bolinas, CA. *Principal Engineer/Civil Engineer* for preliminary design, design development for permit applications, alternatives analysis, furnished technical exhibits for permit lawsuit, and prepared conformed concept drawings consistent with settlement agreement for a new replacement seawall in Bolinas Bay, CA. This project is funded by a private party that will donate the improvements to the State of California after completion. The seawall improvements include two public access viewing areas, a boat launch ramp, privacy fence constructed from composite "timber" that includes vegetated trellis panes and arbors. The steel sheet pile seawall will be faced with rock-sculptured concrete to blend with natural landforms and for corrosion protection. (Present) (Project Fee: $350,000) Ron Noble, R.M. & Associates, 2420 Mountain Ranch Road, Petaluma, CA *94954 • Phone:* (415) 246-4595, rnoble@nobleconsultants.com

SOUTHEAST LOUISIANA (SELA) PUMP STATION #13

Algiers, LA. *Structural Engineer* -- Mr. Fischetti served as lead Structural Engineer for the superstructure portion of this $140MM expansion to the original Southeast Louisiana Urban Flood Control project. The superstructure or building shell that housed three new 3000 HP storm water pumps, consists of single-story ordinary concrete frames that clear span 92-feet with a 60-foot-high roof. The extreme building height allows for a 60-ton bridge crane to operate above the pumps. Precast concrete panels enclose the structure, which is designed to resist hurricane wind velocities of 160 mph. *(Present) (Project Fee: $450,000)*

HARBOR ENGINEER, LOS ANGELES COUNTY DEPARTMENT OF BEACHES AND HARBORS

Los Angeles, CA. *Project Manager and Principal Engineer* – Currently the Project Manager and Principal Engineer for NCI's 2020 On-Call Harbor Engineering Services Contract with Los Angeles County Department of Harbor and Beaches Facilities. His responsibilities include inspection of existing improvements, maintenance of existing small craft harbor facilities, design of new marinas, repair and renovation of public beach access-ways.

RINCON ISLAND CAUSEWAY ENERGENCY REPAIR AND REFURBISHMENT

Mussel Shoals, CA. *Principle-In Charge* – Structural engineer for repairs to a 2700 LF pier connecting a man-made island to the mainland. Constructed in 1958, the pier provides access to offshore oil wells and supports an oil production pipeline. Repairs ranged from welded cover plates for piles and girders with minor damage to complete replacement of deck girders, pile caps and/or piles.

Firm

Noble Consultants, Inc.

Education

- B.S., Civil/Architectural Engineering, Cal Poly, SLO 1981

Professional Registration

- 1984 California Professional Engineer, Civil 39539
- 1984 Alaska Civil Engineer, Civil 7052
- 1991 Washington Professional Engineer, Civil 27570
- 2015 Hawaii Professional Engineer, Civil 15827
- 2014 Alaska Structural Engineer, Structural 14223

Professional Affiliations

- American Shore and Beach Preservation
- American Society of Civil Engineers
- Tau Beta Pi
- Chi Epson

Years of Experience

With Firm:	23
With Others:	20
Total:	43

Areas of Expertise

- Finite Element Analysis
- CPM Scheduling

Employment History

- Noble Consultants, Inc., (2002)
- Brown and Caldwell (2001)
- Central Coast Water Auth (1993)
- Hawk Professional Cons (1992)
- SP Incorporated Engineers (1984)
- Mueller Construction Inc. (1982)
- CF Braun (1981)

ANCHORAGE 47 DOCKS REPLACEMENT

Los Angeles County, CA. *Civil Engineer* - Prepared the engineering design, plans and specifications for the Chace Park Anchorage 47 Docks Replacement Project in Marina del Rey, CA. The new dock system consists of 11 separate dock headwalks/gangways with boat slips of various sizes for 253 boats, modifications to an existing restroom to make it ADA compatible, new landside utilities (water, fire protection, power, and sewer) and landside improvements, and a separate dock/gangway replacement for the Parcel 55 dock system.

WESTIN MARINA SACRAMENTO

Sacramento, CA – *Principal-In Charge* - This project involved a field assessment, design and preparation of construction documents to complete a 40-boat marina and dock facility after six years that the marina property lay dormant following its original foreclosure. To renovate the marina, city building officials required upgrades to existing improvements as necessary to conform to current building code requirements.

KIECON MARINA DOCK STRUCTURAL AND BUOYANCY CALCULATION SUBMITTALS

Worldwide Projects. *Principal-In Charge* – Prepared floatation and structural calculations for pre-engineered concrete docks manufactured by KieCon Corporation in Antioch, CA. Many dock projects also included design of guide piles and gangway landings. Using modular dock components proprietary to International Marine Floatation Systems, Inc., Mr. Fischetti completed engineering for floating concrete docks at the following locations: Dock 26 - Coyote Point, CA; MCCS Marina - Kaneohe Bay, HI; Piers 1.5, 9 and 15 – San Francisco Embarcadero, CA; Kwajalein Marshall Island; Moss Landing Marina, CA.

MONTGOMERY LOCK AND DAM 30% DESIGN OF LOCK STRUCTURES, BEAVER, PA

Beaver, PA *Project Scheduler Engineer* -- Mr. Fischetti served as Project Scheduler responsible for preparing and maintaining the 30% design level project schedule. The schedule covered engineering and design activities for seven engineering disciplines, integrated with contract milestones to establish a baseline PERT production schedule of the lock replacement project. The schedule was updated monthly throughout the six-month core production effort during design. Monthly reports were produced to report design progress to the US Army Corps of Engineers. This effort was part of a $857MM federal investment to upgrade the failing lock and dam originally constructed in the 1930s. *(From 2020–2021) (Project Fee: $28,000)*

PARADISE COVE BEACH SEAWALL REPLACEMENT: SAN FRANCISCO, CA

San Francisco, CA. *Structural Engineer* -- The project consisted of pre- cast concrete sheet piles and a cast-in-place concrete cap to replace an aging seawall in the San Francisco Bay. The new wall protects about 275 linear feet of coastline along a county park beach. The seawall height varied between 0 to 6 feet above high tide elevation to integrate with various park themes developed along the shoreline. The driven concrete sheet piles are laterally supported by tie back anchors along their upper edge. Wall displacement was minimized to protect hardscape improvements on the landward side of the wall. To prevent scour erosion at the base of the seawall, riprap revetment was placed at susceptible locations. Mr. Fischetti prepared concept drawing, design drawings, and construction documents for bid and to construct the improvements. *(2015) (Project Fee: $140,000)*

DANA HEADLANDS RESERVE RESIDENTIAL DEVELOPMENT

Dana Point, CA. *Structural Engineer* - This private residential development included an integral walkway and retaining structure atop 2,200 linear feet of shoreline revetment to promote public use and capitalize on its scenic beauty. Other shoreline design elements included beach access through the riprap revetment with an ADA compliant stairway, an emergency-vehicle access ramp, and storm water outfall improvements. Landside improvements included property line retaining walls of masonry and concrete, tied back soldier pile retaining structures in excess of 30 feet tall, multi-tiered micro pile retaining walls with sculpted concrete facing. In addition to the structural design and production of working drawings, Mr. Fischetti performed structural observations and routine inspection of the improvements. *(2002-2008)(Project Fee: $400,000)*

INNER SEADRIFT LAGOON BULKHEAD IMPROVEMENTS

Stinson Beach, CA. *Project Manager and Civil Engineer* - Prepared construction documents depicting alignment and coordination for existing utilities and private property improvements for shoreline protection of the nearly 2.5-mile perimeter of Seadrift Lagoon. *(2002-2007) (Project Cost: $4,000,000 (construction)) (Project Fee: $456,113) Richard Kamieniecki, Seadrift Association, P.O. Box 128, Stinson Beach, CA 94970 • Phone: (415) 868-9043*

GP GYPSUM PORT OF LONG BEACH PIER D46 RENOVATION

Long Beach, CA. *Project Manager and Lead Civil Engineer* - Project Manager/Civil Engineer for three tasks at the GP Gypsum, Port of Long Beach Production Facility. The first concern was structural repair and upgrade of a 50-year old concrete wharf in connection with an alternative energy conversion program at the plant. Following a comprehensive inventory of structural damages, contract documents were prepared to strip, clean, patch and/or epoxy inject repairs at roughly 150 locations. The second task was the repair of building foundation piles using epoxy filled fiber reinforced jackets. In the final task, we prepared a feasibility report for a replacement fender system that included recommendations, cost estimates and conceptual design. *(2004) (Project Fee: $40,254) John Laisy, Title, G-P Gypsum, PO Box 337350, Las Vegas, CA 89033*

PIER 36 REMOVAL AND ENVIRONMENTAL COMPLIANCE

San Francisco, CA. *Structural Engineer* - Structural Engineer on VE Team for the Pier 36 Removal and Environmental Compliance project for the Port of San Francisco. This VE Study consisted of demolition of Pier 36, demolition of the marginal wharf between Piers 30/32 and 38, and repairs to the concrete seawall. The VE study identified 14 alternatives that could potentially add value to the project. *(2011-2013) (Project Fee: $84,584) Joseph Viola, USACE San Francisco District, 1455 Market Street 15th Floor, San Francisco, CA 94103 • Phone: (415) 503-6568*

HAMILTON WETLANDS RESTORATION

Novato, CA. *Civil Engineer* – Served as a civil engineer working under an on-call civil engineering services contract, performed detailed design and prepared construction documents for four levees totaling roughly 2-miles to contain pumped-in dredged material. Design work included evaluating potential onsite borrow areas, demolition, design of drainage culverts and access ramps, levee connections, design of the levee cross-sections for a variety of slope for aesthetic considerations. Prepared quantity computations and construction cost estimates using MCACES. Specifications were prepared using SPECSINTACT. *(2012-2020) (Construction Cost: $200,000,000) Marc Goodhue, USACE San Francisco District, 1455 Market Street 15th Floor, San Francisco, CA 94103 • Phone: (415) 513-68831455*

MANDALAY BAY SEAWALL REPAIR

Mandalay Bay, CA. *Project Engineer* - Project Engineer for final 4 years of a 14 year on call contract with the City of Oxnard to provide services for Mandalay Bay's 6.5-mile-long seawall and watering system. These services have included seawall repair and maintenance, plans, specifications and oversight of maintenance dredging, plan checks, emergency responses to homeowners and storm damage, and underwater survey oversight. Over $4,000,000 was spent to date for various seawall repairs and maintenance dredging work. The contract also included a multidiscipline Value Engineering team to conduct a value study of a wastewater treatment plant expansion. *(1991-2010) (Cost: $873,000) Jim Weeks, City of Oxnard, 1060 Pacific Avenue, Bldg. 3, Oxnard, CA 93030 • Phone: (805) 984-4720*

RINCON PIER REPAIRS

Ventura, CA. *Structural Engineer* - Mr. Fischetti served as Structural Engineer responsible for the repairs to a 2,700 linear feet pier connecting a man-made island used for well drilling to the mainland. The pier was originally constructed in 1958 and supports an oil production pipeline. The steel and timber structure were severely deteriorated from corrosion. Repairs ranged from welded cover plates for piles and girders with minor damage to complete replacement of deck girders, pile caps and/or piles. After an emergency repair for a pile failure that made rendered the pier out-of-service, the focus for the long-term remedial design effort was constructability: the ability to construct repairs outward from the beach from atop the repaired portion of the pier. With repairs to 58 pipe pile bents, efficiency of repair methods and standardization was critical. Mr. Fischetti performed annual inspections to monitor the structural integrity of the pier for three years following its refurbishment. *(2018) (Cost: $140,000)*

RINCON ISLAND CAUSEWAY EMERGENCY REPAIR AND REFURBISHMENT

Mussel Shoals, CA. *Structural Consulting Engineer* – Structural engineer for repairs to a 2700 LF pier connecting a man-made drilling island to the mainland. Constructed in 1958, the pier provides access to offshore oil wells and support an oil production pipeline. Repairs ranged from welded cover plates for piles and girders with minor damage to complete replacement of deck girders, pile caps and/or piles. The focus of the design effort was constructability: the ability to construct repairs while moving seaward atop the repaired portion of the pier. With 58 support piers, efficiency and standardization was key to control costs. In addition to design, Noble Consultants was also responsible for coating specifications. Ongoing work includes annual inspections. *(2012-2020) (Cost: $ 120,000) Jim Weeks, City of Oxnard, 1060 Pacific Avenue, Bldg. 3, Oxnard, CA 93030 • Phone: (805) 984-4720*

ARQUES SHIPYARD AND MARINA - PIER/WHARF IMPROVEMENTS

Sausalito, CA. *Project Manager and Structural Engineer* - Project Manager/Structural Engineer for the Arques Shipyard and Marina in Sausalito, California. An alternative design was proposed for remedial work on two existing piers to optimize steel pipe-pies with fixed-concrete caps, as well as sheet pile bulkhead and to reduce the estimated construction cost from $4.5M to $2.3M. Creative design solutions that efficiently constrained construction activity within existing pier footprints not only reduced construction costs, but also simplified permitting requirements for the project. *(2002) (Project Fee: $30,200)*

EMERYVILLE BREAKWATER CONSTRUCTION

Emeryville, CA. *Lead Structural Engineer* – Civil and Structural Engineer for the replacement of a 1,200-foot-long timber pile breakwater with a pre-stressed concrete sheet pile breakwater laterally supported with prestressed concrete battered piles. Other project components consisted of a cast-in-place concrete public boardwalk for 665 feet of the structure, a CIP cap for the rest of the structure, a timber pier approach walkway to the boardwalk, and a windsurf launch ramp adjacent to the breakwater. The work included inspection of the existing structure, plan formulation and cost estimating, engineering analysis, design, assistance with permitting, preparation of contract documents and construction drawings, resident inspection and engineering during construction. In 2009, the American Council of Engineering Companies recognized the Emeryville Breakwater Project for a Merit Award. *(2005-2007) (Construction Cost: $5,400,000) City of Emeryville, 1333 Park Avenue, Emeryville, CA 94608*

TRACY FISH COLLECTION FACILITY REPAIR

Tracy, CA. *Project Manager and Civil Engineer* - Project Manager/Civil Engineer for the Bureau of Reclamation's fish bypass facility rehabilitation Project in Tracy, California. Performed structural engineering design for support of temporary construction loads involving structural analysis of existing concrete pier structure and, where needed, design of crane bearing pads for safe transfer of anticipated temporary construction loads while the contractor replaced intake ducts. Fabrication drawings and the finite element structural calculations were submitted for Bureau approval before mobilizing the site. *(2003-2004) Harbor Offshore, 5720 Nichole, Ventura, CA 93003*

VENTURA HARBOR VILLAGE MAINTENANCE DREDGING

Ventura, CA. *Project Manager and Lead Civil Engineer* – Prepared plans, specifications and quantity estimates for maintenance dredging of basin and channel. *(2019-2020) (Fee: $30,000) Richard Parsons, Ventura Port District, (805) 890-8505*

SAN LUIS OBISPO WATER REUSE

San Luis Obispo, CA. *Brown and Caldwell Project Manager, Lead Civil and Lead Structural Engineer* - Treatment and 13-mile pipeline distribution facilities were designed and constructed for the $13.6M project to allow the City of San Luis Obispo to deliver reclaimed water to agricultural, recreational and industrial users, which included Value Engineering Study of treatment plant improvements.

RONALD M. NOBLE, P.E., D.CE, D.WRE, D.PE, Dist.M. ASCE
TECHNICAL ADVISOR

Mr. Noble has over 50 years of experience in coastal-ocean engineering, navigational/dredging projects, waterfront structures, hydrologic analysis and hydrodynamic modeling. He has worked on a broad cross section of coastal/oceanographic and hydrologic engineering projects involved with riverine, estuarine, and coastal processes, dredging operations, navigational surveys, flood studies and the design of port facilities, small craft harbors, recreational marinas, and waterfront structures. Projects have included beach nourishment & stabilization, navigational improvements, wetlands restoration, piers, floating berths, breakwaters, bulkheads, seawalls, groins, levees, and channel stabilization structures. He has been equally involved in overseeing analyses, permit processing, engineering design, construction contract documents & bidding, and construction management for these projects.

RELEVANT PROJECT EXPERIENCE:

CHACE PARK ANCHORAGE 47 DOCKS REPLACEMENT
Los Angeles County, CA. *Principal-in-Charge* - Principal-In-Charge for preparing the engineering design, plans and specifications for the Chace Park Anchorage 47 Docks Replacement Project in Marina del Rey, CA. The new dock system consists of 11 separate dock headwalks/gangways with boat slips of various sizes for 253 boats, modifications to an existing restroom to make it ADA compatible, new landside utilities (water, fire protection, power, and sewer) and landside improvements, and a separate dock/gangway replacement for the Parcel 55 dock system

CHACE PARK TRANSIENT DOCKS REPLACEMENT PROJECT
Los Angeles County, CA. *Principal-in-Charge* - Principal-In-Charge for preparing the engineering design, plans and specifications for the Chace Park Transient Docks Replacement Project in Marina del Rey, CA. The new dock system consisted of 44 new reconfigured transient boat slips, one 300-foot-long side-tie transient dock that can accommodate various sizes of boats up to a 300 foot maxi-yacht, a 120-foot long dock for a waterbus landing and boat sewage pump out facility, a 138-foot side tie in front of the boathouse area, 18-57 foot boat slips, and a number of transient berthing docks.

MARINA DEL REY SLIP SIZING STUDY
County of Los Angeles, CA. *Principal-in-Charge*: The purpose of this study was to evaluate boat berth slip distribution criteria for the marinas undergoing reconfiguration and replacement in order to balance the recreational boating needs and demands for all of Marina del Rey, and in order to adequately support the Marina del Rey boating activities for the next 40 years. Scope of works included (1) reviewing the changes in boat berth distributions for the Marina del Rey individual marinas, (2) comparing these distributions to other California marinas, (3) discussing the already reconfigured marinas and the proposed marina reconfigurations within Marina del Rey, (4) reviewing the Marina del Rey slip demand, California Department of Boating and Waterways (DBAW) marina design (5) providing recommendations for the continued reconfiguration of Marina del Rey marinas.

RONALD M. NOBLE

Firm

Noble Consultants, Inc.

Education
- BS/1968/Civil Engineering/San Jose State University
- MS/1969/Civil Engineering/UC Berkeley

Professional Registration
- 1973, Civil Engineer, California RCE 23436
- 2020, Civil Engineer, Texas PE 137632

Certifications & Training
- Diplomate, Coastal Engineering (ACOPNE Certification #5)
- Diplomate, Port Engineering (ACOPNE Certification #1)
- Diplomate, Water Resources Engineering (AAWRE Certification #631)
- 1971, NAUI Scuba Diver

Professional Affiliations
- American Society of Civil Engineers
- Association of Coastal Engineers
- American Council of Engineering Companies of California
- American Shore and Beach Preservation Association
- California Shore and Beach Preservation Association
- California Marine Parks and Harbor Association
- Permanent International Association of Navigation Congresses
- American Nuclear Society

Years of Experience

With Firm: 36
Total: 51

Areas of Expertise
- Project Management
- Coastal Engineering
- Coastal Structure Design
- Water Resources Engineering
- QA/QC
- Flood Risk Management

Employment History
- Noble Consultants Inc., 1985-Present
- R.M. Noble & Associates, 1981-1985
- Dames & Moore, 1969-1981

COASTAL FLOODING ANALYSIS AND FEMA LETTER OF MAP REVISION (LOMR) FOR WILL ROGERS COASTLINE PROJECT

County of Los Angeles, CA. *Principal-in-Charge:* The purpose of the analysis was to determine the coastal Base Flood Elevation (BFE) for the project site based on the improved project condition, and to prepare a FEMA LOMR for the Flood Insurance Rate Map (FIRM). The scope of services consisted of the following tasks: (1) reviewing pertinent information the proposed improvement project and associated oceanographic calculations; (2) reviewing the effective FIRM and Flood Insurance Study (FIS); (3) performing a coastal flooding analysis for the proposed improvement project using FEMA (2003 & 2005) G&S methodologies; (4) determining the BFE and delineating coastal hazard zones; (5) preparing a FEMA Conditional Letter of Map Revision (CLOMR) based on the proposed improvement project conditions; (6) preparing LOMR after completion of the proposed improvement project, and (7) coordinating with FEMA contractor.

COASTAL ANALYSIS FOR SEASONAL SAND BERM PROTECTION PROGRAM

County of Los Angeles, CA. *Principal-in-Charge:* The purpose of this analysis is to review the LA County's winter sand berm protection program to assess its effectiveness and value to protect the public beach facilities and to recommend improvements in geometry and placement to maximize the storm damage reduction benefit. The work included: (1) historical beach profile analysis; (2) calculating 3-hourly wave run-up on the sand berms using CEM method based on the CCSTWS wave data from 1970 to 2005; (3) statistic analysis to determine the wave run-up elevations for various return periods, which was based on FEMA's "system response analyses" rather than traditional "event analyses,"; and (4) developing recommendations for minimum berm height for a50-year storm wave run-up protection. Seasonal berms on Hermosa, Dockweiler, Venice, and Zuma Beaches were included in the analysis.

COASTAL REGIONAL SEDIMENT MANAGEMENT PLAN

Santa Barbara and Ventura, CA. Directed a comprehensive coastal study for BEACON along the Santa Barbara/Ventura Counties coastline which included the inventory of offshore, harbor entrance and fluvial sand sources, estimating erosion rates and sediment budgets, preparing a comprehensive sand management program to control beach erosion and recommending and implementing an effective monitoring plan to observe indicators of beach health.

NEWPORT HARBOR PATROL BULKHEAD DESIGN

Newport Beach, CA. *Principal-in-Charge and Project Engineer* - Newport Harbor Patrol Headquarters Bulkhead, Newport Beach, CA. Principal-In-Charge and Project Engineer to evaluate alternative bulkhead designs and then perform final engineering design and preparation of construction drawings and specifications for the selected alternative. This replacement bulkhead consisted of a steel sheet pile bulkhead driven into a very hard bottom. It was anchored by use of a double corrosion protected Dywidag tie-rod system secured to the sheet piles by use of a double steel channel waler, and anchored on the landward side by an anchor system consisting of tension and compression steel H-piles with a reinforced concrete cap per each tie-rod. The tension piles also incorporated drilled/grouted Dywidag rock anchors for additional tension capacity. A reinforced concrete cap encased the steel channel waler and top of sheet piles.

UPPER NEWPORT BAY SEDIMENT CONTROL & ENHANCEMENT PROJECT

Orange County, CA. *Principal-In-Charge and Project Manager* - Provided construction management oversight support to County of Orange for dredging one million cubic yards in Upper Newport Bay with offshore barge disposal during 1 ½ year period. Services included contractor dispute resolution, interpretation of contract documents, review of change orders, and providing/managing three to five construction inspectors for 24 hours per day operation.

MANDALAY BAY SEAWALL REPAIR

Oxnard, CA. *QA/QC* - QA/QC for a 14 year on call contract with the City of Oxnard to provide services for Mandalay Bay's 6.5 mile long seawall and watering system. These services have included seawall repair and maintenance, plans, specifications and oversight of maintenance dredging, plan checks, emergency responses to homeowners and storm damage, and underwater survey oversight. This project began in 1993 and is an ongoing project. Over $4,000,000 has been spent to date for various seawall repairs and maintenance dredging work.

SANDAG REGIONAL BEACH SAND PROJECT

San Diego County, CA. *Principal-in-Charge/Project Manager* - Principal-In-Charge/Project Manager for the (SANDAG) Regional Beach Sand Project. Responsibilities included preparation of design, plans, specifications, and contract documents; and overseeing construction management/resident inspection to re-nourish twelve San Diego County beaches with over 2 million cubic yards of sandy material dredged from six offshore borrow sites. Dredging was performed with a trailing suction hopper dredge that then attached to inshore mono-buoys for pumping sand materials to shore. Cost: $17,500,000.

CASINO FUEL DOCK REPLACEMENT

Catalina Island, CA. *Principal-in-Charge* - Casino Fuel Pier, Catalina Island, Avalon, CA. Principal-In-Charge for the replacement of the Avalon Casino Fuel Pier which included geotechnical, geophysical, and survey field studies to map site features and investigate an unusual sub-surface deep rubble foundation. Performed structural design of reinforced concrete pier with innovative steel pipe pile/rock anchor foundation, special steel frame fender system fabrications, and electrical and mechanical design of utilities and fuel dispensing system concealed within integrated utility trench.

FEMA COASTAL FLOOD HAZARD ANALYSIS AND MAPPING FOR PACIFIC COAST OF THE US

Pacific Coast. FEMA Coastal Flood Hazard Analysis and Mapping. Member of FEMA Technical Working Group that developed a new "Final Draft Guidelines for Coastal Flood Hazard Analysis and Mapping for the Pacific Coast of the United States", November 2004, and revised January 2005. Reviewed methodologies, models and field data for storm wave characteristics, wave runup, setup and overtopping and developed geometric models and process-based models for event based erosion (EBE).

PORT OF SAN FRANCISCO FERRY TERMINAL BREAKWATER & PUBLIC ACCESS TRESTLE DESIGN

San Francisco, CA. *Principal-in-Charge* - Port of San Francisco Ferry Terminal Breakwater & Public Access Trestle Design, San Francisco, CA. Principal-In-Charge for performing a value engineering redesign of the originally bid breakwater which included the redesign of the precast and poured-in-place concrete elements of the breakwater, public access trestle and terminus structures, and the turnaround structure at the end of the breakwater for a future lighthouse.

MARAD RESERVE FLEET PIER REDESIGN

San Francisco, CA. *Principal-In-Charge* - MARAD Reserve Fleet Pier, San Francisco Bay, CA. Principal-In-Charge for performing a value engineering analysis and redesign of the originally bid 19-foot wide by 1,400-foot long concrete pier. The redesign consisted of a pre-cast, pre-stressed, lightweight concrete double tee deck system to replace the ASSHTO girders /CIP deck, and included design modifications to the pile cap, shear wall, and seismic restraint canles/ancors.

PRELIMINARY SURVEY & REPAIR/REPLACEMENT COST FOR DAMAGED MCNEAR'S BEACH FISHING PIER AND DESIGN & CONSTRUCTION OVERSIGHT

San Francisco, CA. *Principal Investigator* - McNear's Beach Fishing Pier, San Francisco Bay, CA. Principal investigator to document severe structural damage due to a dump barge colliding with an existing reinforced concrete T-head pier constructed using pre-stressed concrete double tee deck units with a CIP deck surface supported on precast concrete caps with 18-inch octagonal pre-stressed concrete piles that extended 500 feet into San Pablo Bay. The most likely construction methodology and costs for repair were identified, and construction management support services were provided during the repair to this pier which included new piling, caps and decking.

SEADRIFT LAGOON BULKHEAD

Stinson Beach, CA. *Principal-in-Charge* - Seadrift Lagoon Bulkhead, Stinson Beach, CA. Principal-In-Charge for the inspection of an existing 12,000 lineal feet of deteriorating timber bulkhead, evaluation of alternative bulkhead replacements, engineering design, preparation of construction drawings and contract bid documents including full time construction management services for the selected replacement bulkhead. This bulkhead consisted of a cantilever epoxy coated steel sheet pile bulkhead with a timber waler/cap.

HAMILTON WETLANDS RESTORATION DESIGN PROJECT

Novato, CA. *Principal-in-Charge and QA/QC*- Responsibilities included quality control for the new N-1 Levee and Containment Berm Project which consisted of design and preparation of contract documents to complete the perimeter of the seasonal wetland. These duties were also performed on the design and preparation of contract documents for the Bulge and Pacheco Pond Levees, which form another portion of the perimeter of the wetland. Fee: $3,600,000. Construction Cost: $200,000,000.

HURRICANE KATRINA FLOODING EVALUATION

New Orleans, LA. Reviewed the Interagency Performance Evaluation Team (IPET) reports that were prepared by several independent investigation teams to understand "what happened" in the New Orleans region during Hurricane Katrina. Then performed hydraulic and hydrodynamic modeling analyses to determine vertical elevations and their time histories of water levels, wave runup and water overtopping of the levee systems for specific areas of interest within the New Orleans region. Various hydraulic and hydrodynamic model simulations, including HEC-GeoRas, HEC-Ras, RMA2 and ADCIRC were required to characterize the local hydrodynamics, internal drainage and flooding, as well as levee performance.

SAN FRANCISQUITO CREEK UNSTEADY HYDRAULIC MODELING AND FLOODPLAIN MAPPING

San Mateo and Santa Clara Counties. *Principal-in-Charge and Coastal/Hydraulic Engineer* - An unsteady flow HEC-RAS model was developed. The channel and floodplain modeling was conducted using HECRAS and FLO-2D for the purpose of generating the floodplain maps. AE Consultant Fee: $65,696

PIER 36 REMOVAL - VALUE ENGINEERING STUDY

San Francisco, CA. *Civil/Waterfront Engineer* - Civil/Waterfront Engineer on VE Team for the Pier 36 Removal and Environmental Compliance project for the Port of San Francisco. This VE Study consisted of demolition of Pier 36, demolition of the marginal wharf between Piers 30/32 and 38, and repairs to the concrete seawall. The VE study identified 14 alternatives that could potentially add value to the project. Project Fee: $108,900.

LAS GALLINAS CREEK H&H AND COASTAL ANALYSIS

Marin County, CA. *Principal-in-Charge* - The scope of services for the H&H analysis included development of Digital Elevation Model (DEM); HEC-RAS model development; riverine hydraulic modeling and floodplain delineation using HEC-RAS and HEC-GeoRAS; floodplain mapping; risk and uncertainty analysis (computing the conditional non-exceedance probabilities (CNP) for the 100- year flood event); and evaluating the project performance based on the freeboard requirements and the CNP criteria. The tasks for the coastal analysis included tidal frequency analysis, sea level rise study, wind- wave hindcasting and wave propagation, computation of wave runup and wave overtopping hydrographs, determining coastal inundation water levels, and coastal inundation floodplain mapping. Cost (fee): $144,912.

SOUTH SAN FRANCISCO BAY SHORELINE STUDY

San Mateo, Santa Clara, and Alameda, CA. *Senior Civil Engineer* - This VE study consisted of reviewing the first phase of the U.S. government authorization of a federal flood-risk management and ecosystem restoration project. The objective was to confirm the process by which the feasibility study team has arrived at the final array of alternatives, and to make suggestions for improving the design and evaluations of alternatives. Several flood risk management (FRM) options were formulated. Structural and non-structural were considered including new engineered levees, flood walls and gates. Several levee alignments were considered. Cost: 156,871

UPPER BERRYESSA CREEK FLOOD RISK MANAGEMENT PROJECT

Milpitas, CA. *Principal-in-Charge* - Principal-in-Charge for developing the design and preparing the construction documents (plans, specifications and cost estimates) of a flood risk management project along approximately 2.2 miles of Berryessa Creek that extends from I-680 to Calaveras Boulevard. The project is to provide capacity to convey the median 0.01 exceedance probability discharge and will consist of an earthen trapezoidal channel section with varying bottom widths and 2H:1V side slopes. Construction Cost: $16,650,000.

WILLIAM S. FISCHETTI, PE

CIVIL ENGINEER / CONSTRUCTION MANAGER

- ***Civil Engineer*** 40 years' experience performing a broad scope of civil and structural design services for public works and private projects.
- ***Special Inspection*** performed on seawalls, foundation, excavation and marine projects.
- ***Project Management*** involving construction scheduling, contract negotiations, cost controls and resource allocation.
- ***Construction Estimating*** for bidding of architectural and civil works projects.

INSPECTION EXPERIENCE AND QUALIFICATIONS SUMMARY

- ***Dredging and Dredged Material Disposal***

  Certificate of completion for successfully completing course on dredging and material disposal.

- ***10th Avenue Marine Terminal (ASCE Marine Project of the Year)***

  Port of San Diego, California

  Performed special underwater inspection during construction of seawall adjacent to 10th Avenue Pier.

- ***Tahoe Keys Marine Channel Seawall Replacement***

  Lake Tahoe, California

  Performed inspection during construction of replacement sheetpile wall at marina channel.

- ***Blue Bird Canyon Landslide Stabilization (ASCE Construction Project of the Year)***

  City of Laguna Beach, California

  Performed special structural inspection of landslide stabilization construction of grade beams, tiebacks and soldier piles. In addition, performed structural evaluation of homes for "red tagging" to prevent occupancy by residents.

- ***San Juan Capistrano Landslide Stabilization***

  San Juan Capistrano, California

  Performed special inspection and testing of tieback anchors during construction of landslide stabilization elements for a large condominium community.

WILLIAM S. FISCHETTI, PE

Firm

Noble Consultants, Inc.

Education

- Civil Engineering, Bachelor of Science 1983 San Diego State University, San Diego, California

Certifications & Training

- Professional Civil Engineer:
- States of Alaska, Arizona, California, Nevada, Oregon and Washington

Professional Affiliations

- American Society of Civil Engineers
- Association of Drilled Shaft Contractors
- Associated General Contractors

Years of Experience

With Firm: Since 2021
With Other: 37 Total: 40

Areas of Expertise

- ***Civil Engineer*** for deep excavation shoring design and retaining walls
- ***Construction Manager/Inspector***

Employment History

- Noble Consultants, Inc. (2021 – Present)
- Earth Sports Systems, Inc. (2000- 2021)
- Malcolm Drilling Company (1994-2000)
- Wagner Construction Company(1989-1994)
- Kiewit Constructions Company (1986-1989)
- Alaska General Construction Company (1983-1984)
- Mueller Construction Inc. (1982-1984)

Employment Experience Summary

(2021-Present) **Noble Consultants, Inc.**

Construction Manager/Inspector/Lead Engineer of marina and coastal engineering designs.

(2000-2021) **Earth Support Systems, Inc.**

President/Founder of engineering design company, specializing in civil and structural engineering of foundation and earth retaining systems, preparation of construction documents, contractor submittals, and special investigations, studies and reports.

(1994-2000) **Malcolm Drilling Company**

Vice President/Chief Engineer in charge of engineering design for the Malcolm Drilling Company. Responsible for design of deep foundation and earth retention systems (i.e., piles, shoring, underpinning) for high rise structures, industrial compounds and transportation facilities.

(1989-1994) **Wagner Construction Company**

Project Manager responsible for bidding, designing and managing construction of earth retaining systems (shoring and underpinning) for high rise excavations, industrial compounds and transportation structures.

(1986-1989) **Kiewit Construction Company**

Project Engineer responsible for design and detailing of concrete form work, reviewing submittals, construction scheduling, pricing change orders, drafting subcontracts and coordinating field changes with the design consultants.

(1984-1986) **Alaska General Construction Company**
Project Engineer responsible for requisitioning of bids, drafting subcontracts, resource procurement, construction scheduling and processing of change orders.

(1983-1984) **Mueller Construction, Inc.**

Civil Engineer for commercial and residential design/build projects. Responsible for production of civil and structural design and drawings, and the coordination of all other engineering disciplines.

HAMID BAZGIRKHOOB, PH.D., E.I.T

WATER RESOURCES/COASTAL ENGINEER

Dr. Bazgirkhoob has over 24 years of experience in water resources engineering and project management. His professional experience encompasses design, operational and technical support roles, with major emphasis leading hydraulic structures, coastal modeling, hydrological and contaminant sediment transport modeling, hydrodynamic-water quality modeling, pipe network design, fish passage, watershed conservation and preservation. His experience in project design, scheduling, management and controls follows a lifelong consulting career in a broad range of large and small projects, like dams, culverts, inland and coastal watersheds, and pipelines. His engineering expertise encompasses onsite investigations, modeling and analysis of routine and complex water resources projects using conventional and finite element methods, and preparation of technical documents for public works and private improvements.

RELEVANT PROJECT EXPERIENCE:

PRINCIPAL ENGINEER, LOS ANGELES COUNTY DEPARTMENT OF BEACHES AND HARBORS.

Los Angeles, CA. *Project Manager and Project Engineer.* Currently in charge of the Parcel 77 Dock Replacement in Marina del Rey for civil and structural designs, and sub-contractors. Responsibilities include design of: Floating Dock and Piles, Gangways, Slips and Utilities Project Cost: $350,000.

PRINCIPAL ENGINER, ASSESSING COASTAL ENGINEERING HAZARDS.

Redondo Beach, CA. *Project Manager and Poject Engineer.* Currently, in charge of coastal hazards project for private residential owners. Responsibilities include: Coastal Data Collection, Relevant Code and Publication Research mainly satisfying California Coastal Commission and California Coastal Act, Coastal Engineering Analyses, Wave and Erosion Analyses.

PROJECT MANAGER, DIABLO DAM, SEATTLE CITY LIGHTS.

Seattle, WA. *Project Manager.* Currently, in charge of temporary trash net design for Diablo Dam, Seattle, WA. Responsibilities include: Deriving flow velocities in the intake tunnels, drag and impact force calculations, nets' finite element analysis and installation structures analysis.

PROJECT MANAGER, CAMP POLLOCK RIVER ACCESS AND OBSERVATION TOWER

Sacramento, CA. *Project Manager.* Currently, verification river hydraulics and scour analyses for a river access path in Camp Pollock on side of American River. Responsibilities include: Velocity Derivations, Drag Force Calculations on Pillars, Gangway, and Floating Ramps, Gabions Design, and sedimentation/erosion analyses.

PROJECT MANAGER, MAI KAI CONDOMINIUMS.

New Port Beach, CA. *Project Manager.* Currently, in charge of buildings and seawall structural analyses and investigation for property maintenance repairs.

HYDROLOGICAL, CONTAMINANT, SEDIMENT TRANSPORT MODELING.

Miami, FL. Postdoctoral Research Associate, Applied Research Center, Florida International University.

Developed and Applied Numerical Models of Surface-water and Ground-water Hydrology, and Transport of Sediment-Bounded Heavy Metals of Uranium, Nickel, and Tin in Department of Energy's Nuclear Sites in a Coupled MIKE 11, SHE, and ECO LAB Modules; Obtained and Analyzed Hydrologic and Contaminant Data from Various Sources;

HAMID BAZGIRKHOOB

Firm

Noble Consultants, Inc.

Education

- Postdoctoral, Contaminant & Sediment Transport Modeling, Applied Research Center, Florida International University, 2022
- Postdoctoral, Coastal & Hydrological Modeling, Mississippi State University, 2021
- Ph.D., Civil Engineering, University of Nebraska-Lincoln, 2019
- M.Sc., Civil Engineering, University of Louisiana at Lafayette, 2012
- B.S., Irrigation Engineering, Azad University, Shiraz, Iran, 2003

Professional Registration

- EIT, Nebraska, 2016
- Real Entity Contractor in Water-Drainage Hydraulic Structures and Networks State Planning and Management Organization, Iran, 2007

Professional Affiliations

- American Society of Civil Eng (ASCE)
- American Physical Society-Division of Fluid Dynamics (APS-DFD)
- International Association for Hydro-Environment Engineering and Research
- American Geophysical Union (IAHR)
- Journal Reviewer:
  i. Journal of Hydraulic Eng, ASCE
  ii. Journal of Innovative Infrastructure Solutions, Switzerland

Years of Experience

With Firm: Since 2023
With Other: 14
Total: 14

Areas of Expertise

- Solid Surface-Fluid Flow Interaction
- Hydraulic Structures
- Turbulence Modeling
- Experimental Hydraulics
- Contaminant Transport Modeling
- Hydrological & Water Quality Modeling
- Pipe Network

Employment History

- Noble Consultants, Inc., (2023-Present)
- Florida Inter. University (202122)
- Mississippi State University (2020-2021)
- Sepehr Danab Co., Shiraz, Iran (2006-2010)
- Mehrab Co., Shiraz, Iran (2004-2006)
- Abo Khake Fars Co., Shiraz, Iran (2003-2004)
- Pirasteh Shiraz Co., Shiraz, Iran (2002-2003)
- Boostan Abyar, Shiraz, Iran (1999-2002)

Hamid Bazgirkhoob, PH.D., E.I.T (continued)

COASTAL ECO-HYDROLOGICAL MODELING.

Starkville, MS. Postdoctoral Research Associate, Mississippi State University.
Developed Three-Dimensional (3-D) Hydrological and Contaminant Transport Model in Inland and Coastal Watershed of Western Mississippi Sound in Northern Gulf of Mexico via Visual Environmental Fluid Dynamics Code (VEFDC). Water Stage and Constituents Such as Dissolved Oxygen, Nitrogen, Phosphorus, Algae, etc. Were Simulated. Then Used the Simulated Results as the Inputs for an Oyster Habitat Suitability Model in Maxent Software.

BED PRESSURE AND VELOCITY DISTRIBUTIONS IN A BOX CULVERT DOWNSTREAM OF A SLUICE GATE.

Lincoln, NE. Ph.D. Student, Civil Engineering Department, University of Nebraska-Lincoln.
Three tasks were assigned at S-375 Gated-Box Culvert in Stormwater Treatment Area 1-East (STA-1E) located in South Florida Water Management District (SFWMD). The first task was to acquire extreme pressure fluctuations along the culvert's bed associated with different gate settings at different discharges and Reynolds numbers. For this purpose, an 8:1 scaled model of the culvert was built in Hydraulics Laboratory of the Civil & Environmental Engineering Department at University of Nebraska-Lincoln. 10 pressure sensors were installed, and data were recorded with up to 500 Hz for a duration of 20 min. The second task was to obtain velocity distributions profiles associated with the gate settings that produced the largest positive and negative pressure fluctuations. For this purpose, Particle Image Velocimetry was applied to obtain the instantaneous velocity profiles at multiple cross sections along the culvert. The third task was to create a computational fluid dynamic (CFD) code to simulate the most extreme gate setting. To Model Turbulence Stresses, Reynolds-Averaged Navier-Stokes (RANS) Turbulence Models Were Employed. Parallel, Pressure-based, Steady-state CFD Code ANSYS Fluent (In Graphical User Interface) and Open FOAM (in Linux) Were Employed as the RANS Solver.

HYDRODYNAMIC-WATER QUALITY MODELING

Lafayette, LA. *M.Sc. Student* – Civil Engineering Department, University of Louisiana at Lafayette. Developed Watershed Hydrodynamic-Water Quality Models for Loxahatchee National Wildlife Refuge in South Florida Everglades. Berkeley Madonna Mathematical Model (C++ and FORTRAN Syntaxes) and MIKE FLOOD 2-D Software Were Used to Create Compartmental and Grid Models. Calibrated and Validated These Two Models Against Measured Data from Monitoring Sites. Made Comparative Analysis Between These Two Models with Quantitative Evaluations. The Outcomes Were Used for Restoration and Management of Streams and Wetlands; as Well as Hydraulic Infrastructure Operations.

WATER PIPELINE AND DRAINAGE DISTRIBUTION NETWROK, PUMPING STATIONS

Shiraz, Iran. *Engineer and Project Manager – Sepehr Danab Company.* Served as an engineer and project manager providing civil engineering services contract, prepared construction documents, as-built maps, and projects cost-estimate and schedule for part of Sadra town in Shiraz, Iran. Served as design engineer calculating water demand, head-losses associated with different pipe diameters, and pumping stations criteria.

REINFORCED BOXED CONCRETE CULVERT, CONCRETE CANAL LINING

Nurabad, Fars, Iran. *Technical and Executive Expert* – Engineer for water canal project of Fahlian Diversion Dam. Recommended adjustments with the side slope excavation of the canals, provided calculations of the daily concrete demand and reported to the concrete batch factory. Did the cost-benefit analysis of the excavation, backfills with machinery-work performed per hour and compared with sub-contractors. Supervised the excavation and backfilling machinery schedule and performed work including bulldozers, loaders, excavators, and dump trucks.

WATER PIPELINE EXECUTION, PUMPING STATIONS DESIGN

Shiraz, Iran *Intern* – Executed water pipelines by polyethylene (HDPE) for 80-hectar residential area from Sadra town in Shiraz, Iran. Assigned the excavation routes and dimensions. Calculated the backfill demand for soils after pipes installment. Drew as-built maps. Served as design engineer calculating water demand, head-losses associated with different pipe diameters, and pumping stations criteria.

WATER PIPELEINE DESIGN

Shiraz, Iran. *Intern* Served as design engineer calculating water demand, head-losses associated with different pipe diameters, and pumping stations criteria.

JOHN GEKCHYAN
Civil Design

Mr. Gekchyan has experience in civil and structural design with a focus on coastal, marine and waterfront infrastructure. His background includes preparing construction drawings, performing field assessments, developing repair strategies and conducting structural calculations in accordance with agency and environmental standards. He has contributed to a variety of projects including seawalls and bulkheads, piers, emergency water delivery systems, and other shoreline improvements while bringing a detail-oriented approach to design execution.

RELEVANT PROJECT EXPERIENCE:

VENTURA PIER FIREWATER LINE REPLACEMENT
Ventura, CA. *Civil Design* – Prepared civil design drawings for replacement of a fire water pipeline on Ventura Pier and other necessary pier repairs consistent with results of structural calculations.

MAI KAI CONDOMINIUMS PATIO AND SEAWALL REPAIRS
Corona Del Mar, CA. *Civil Design* – Performed seawall damage inspection and patio drainage tests; prepared drawings for guardrail and planter repairs and structural calculations and drawings for the replacement of multiple sections of corroded steel beams supporting back patios.

BOLINAS SEAWALL AND COASTAL IMPROVEMENTS
Bolinas CA. *Civil Design* – Prepared civil design drawings and structural calculations for reinforced concrete retaining walls, anchored sheet pile seawalls and other site improvements in compliance with agreed conditions of the California Coastal Commission.

SELA 76 PUMP STATION 13
New Orleans, LA. *Structural Design* – Prepared structural drawings and calculations for the main concrete pump station building with crane infrastructure and a steel framed connector building on Micro Station CADD software and IES Visual Analysis FEA software in compliance with US Army Corps of Engineers design and drafting standards.

CAMP POLLOCK ACCESS BOARDWALK
Sacramento, CA. *Civil Design* – Prepared civil and structural drawings for riverside campground improvements including a sloped path using gabion baskets to retain soil and a timber overlook platform supported by steel pipe piles along with designs for custom fabricated framing hardware.

TAHOE KEYS BULKHEAD REPLACEMENT PROJECT
South Lake Tahoe, CA. *Civil Design* – Prepared civil design drawings for replacement of an anchored sheet pile bulkhead along Lake Tahoe and other improvements consistent with results of structural calculations and environmental regulations.

JOHN GEKCHYAN

Firm

Noble Consultants, Inc.

Education

- B.S., Civil Engineering, California State University, Long Beach

Professional Affiliations

- ASCE (Los Angeles Section)

Years of Experience

- With Firm: 1 Year

Areas of Expertise

- Civil and Structural Design

Employment History

- Noble Consultants, Inc., (2024-Present)

Utilitcoor Resumes

UTILICOOR
UTILITY COORDINATING, INC.

FIRM PROFILE

Utility Coordinating, Inc. (*UtiliCoor*) is a unique engineering consulting firm which specializes in the coordination of utility systems affected by development projects. The Company was established in March 2014 by a team of experienced utility engineers in order to meet a needs of both project owners and utility companies to eliminate damages, costs and delays associated with projects located in industrial areas. The staff has experience on many civil transportation projects along the Alameda Corridor and in the Ports of Los Angeles and Long Beach. *UtiliCoor* specializes in petroleum and gas pipelines, but has long working relationships with many of the utility stakeholders, railroads and project owners affected by recent transportation projects. Company capabilities include research and identification of existing utilities using proven methods of document research and field investigation techniques. We use proven procedures and methods for obtaining and cataloging utility information. Our staff understands the operations of the affected utility stakeholders and can assist with the coordination of both design and construction required when utilities are impacted. Capabilities include, planning, cost estimating, scheduling, preliminary design, and coordination of utility relocation and protection work.

The office is located in Huntington Beach California.

WILLIAM R. JOHNS, PE

PROJECT MANAGER/PRINCIPAL CIVIL ENGINEER

Education:

University of California, Berkeley, CA
Bachelor of Science in Civil Engineering 1980

Registration:

California – Civil Engineer
Arizona – Civil Engineer

Professional Affiliations:

Common Ground Alliance – *Board of Directors*
Best Practices Committee
American Society of Civil Engineers
California Safe Excavation *Board Member*
US Coast Guard -Auxilliary

Specialties:

- Subsurface Utility Engineering (SUE)
- Government & Municipal Infrastructure
- Construction Management
- Petroleum Storage Facilities
- Pipeline and Utility Relocation
- Petroleum Transportation Systems
- Marine/Waterfront Structures
- Wet/Dry Utilities

Experience:

Mr. Johns has 40 years of experience in engineering and management of civil and structural projects, including coastal structures, petroleum storage facilities, government & municipal infrastructure and pipelines. Project engineering experience includes coordinating engineering, scheduling work, cost estimating, writing specifications, overseeing subsurface utility engineering, permit and agency coordination, supervising construction operations and quality control. Project management experience ranges from small projects to a storage terminal expansion in excess of $60,000,000.

Recent Projects:

Utility Coordinating Inc.
Fountain Valley, CA 3/2014 -Present

Phillips 66 Pipeline – Design, Bio Diesel Injection System Los Angeles Truck Terminal – Design and Managed Temporary Receiving, Storage and Injection facility at P66 Truck loading facility.

Contact: Jihad Farhat P66 PM (562) 290-1544

VOPAK Terminals- MOTEMS Wharf Repair Project Construction Management, Port of Los Angeles, CA Berths 187-190 – Managed Construction as Owner Representative for Seismic Repair and upgrade of existing tanker loading/offloading wharf. Oversaw Field Inspection, Cost Control, Contractor Management and Coordination with Engineer (Moffatt Nichols). *Contact: Eric Verner, Vopak Engineer (310) 518-6409*

Phillips 66/ExxonMobil/Paramount Petroleum Pipeline Relocations for the Port of Los Angeles TraPac Terminal Project – Project Manager for the coordination of the design and construction of relocating petroleum pipelines impacted by the development of a new automated container terminal. Instrumental in arranging "team" construction approach of several owners working together with a single contractor. The work also included planning and coordinating the work with multiple POLA construction projects. *Contact: Adrienne Newbold POLA Design PM (310) 732-3642, Tom Niemeyer Phillips 66 PM (310) 952-6232*

Port of Los Angeles I-110 C Street Ramp Improvements, Port of Los Angeles, CA – Project Manager for the Utility Research and Coordination involved with the On-ramp improvement project. Project is located in congested area of petroleum pipelines located near the Phillips 66 Refinery.

SPEC Services
Fountain Valley, CA 9/1990 – 3/2014

Port of Los Angeles/BNSF Railroad, Southern California International Gateway (SCIG) Project, Los Angeles, CA – Project Manager for the Utility Coordination investigation and design for the project. Worked closely with the design team to minimize the new facility impact on the existing utility system. *Contact: Mike McCarthy, M & N PM (562) 590-6500*

Port of Los Angeles Berth 200 Rail Yard Project, Port of Los Angeles, CA – Project Manager for the petroleum pipelines, gas pipelines and drilling well investigation and coordination for the new rail yard project. The work also included planning and design of the protect-in-place and relocations of conflicting systems. *Contact: Ron Groves POLA Design PM (310) 732-3648*

Gerald Desmond Bridge Project, Port of Long Beach, CA – Utility Coordinating Project Manager/Engineer working with the SPEC Services team. Services performed by Mr. Johns included, planning, overseeing research, meeting and coordinating with affected clients. Prepared potholing contracting documents, researched abandoned facilities, coordinated soil and ground water disposal, prepared schedules, cost estimates and drafted utility specification for D&B contract. *Contact: Wayne Smith* (562) 283-7378

Port of Los Angeles I-110 C Street Ramp Improvements, Port of Los Angeles, CA – Project Manager for the Utility Research and Coordination involved with the On-ramp improvement project. Project is located in congested area of petroleum pipelines located near the ConocoPhillips Refinery. *Contact: Sal Zambrano POLA Design Chief (310) 732-3654*

Alameda Corridor Transportation Authority – Long Beach Leads Petroleum Line Relocations, Los Angeles County, CA. Project Manager for the relocation of three pipelines along the Port of Long Beach railroad corridor. Responsible for overseeing substructure research, potholing, and pipeline routing and protection. *Contact: Niall Barrett, ACTA Utility PM*

Sepulveda Grade Separation – Los Angeles County, CA. Project Manager for utility research and investigation for new grade crossing at Alameda Street. Engineered and supervised the design of pipeline relocations and worked closely with Los Angeles County Department of Public Works, pipeline and utility owners (So. California Gas, ARCO, and KMEP), ACTA and Union Pacific Railroad.

PCH Grade Separation – Los Angeles, CA. The ACTA grade separation project was very challenging because the bridge went through an existing 80-year-old oil refinery. The design of all the utility relocations were directed as one package and closely coordinated with each owner and the bridge engineer.

Del Amo Grade Separation – By coordinating the efforts of three separate utility companies, a single contractor relocated the pipelines reducing the cost and impact to all three owners and expedited the schedule for LA County.

Previous Positions/Projects

International Consulting Engineers 2/1988 - 8/1990.
Civil Engineering Manager
Projects Included various Government Projects including Aircraft Hangars, Waterworks and Grading Projects.

GATX Terminals Company 2/1987 - 2/1988
Terminal Engineer
Managed various Petroleum terminal projects including oil tanks, pumping systems, truck loading racks and civil infra-structure

U.S. Navy, Naval Weapons Station, Seal Beach
5/1985 - 2/1987
Public Works Engineer
Staff Civil Engineer responsible for managing various Utility, Waterfront Structures, Dredging, and Architectural projects.

Dillingham Construction Co., Pleasanton, CA
4/1984-5/1985
Project Estimator/ Field Engineer for Large Civil Projects including Transportation, Waterfront, and Irrigation Projects.

Healy Tibbitts Construction Co., Long Beach, CA
8/1980-1/1984
Field Engineer Marine /Pipeline Contractor. Projects included Subsea Pipeline projects along with Wharf Construction, Breakwaters, and Marinas. Included oversea assignments in Manila, Philippines and Esmeraldas, Ecuador.

CLIFFORD P. CORBET

ENGINEER -MECHANICAL

Specific Project Skills

Vast Experience in Mechanical Engineering including experience with Marine and Waterfront Facilities. Brings seamless connection of knowledge of liquid, gas, sewer, and stormwater piping, power and controls systems to civil and structural designs.

Experience

Utility Coordinating, Inc. **2016-present**

Mechanical Engineering including piping, pumps, and facilities

- Olympus Marine Terminal, Long Beach
- Olympus Carson Terminal, various projects
- Vopak Wharf MOTEMS Terminal Upgrade

SPEC Services, Inc. **1990-2015**

Principal Mechanical Engineer responsible for Design and Construction of Petroleum Transportation Systems. Projects include:

- Lomita Railcar Ethanol Terminal
- Multiple Tank and piping systems for GATX Carson
- Replaced piping on Balboa and Newport Piers for Noble Consultants.
- Pier 400 Crude Oil Terminal for Pacific Pipeline including sewage lift stations

Hilbert and Associates/ARCO Marine **1981-1990**

Various Mechanical Engineering Positions including Design and coordinating development projects for Marine Shipping and Maintenance work:

- Various petroleum transportation projects
- Onboard Ship maintenance and troubleshooting

United States Navy **1971-1976**

- Engineman 3rd class, operated, maintained and repaired small boats. Operated ship to shore taxi boats in San Diego Harbor.

Education

California State University, Long Beach **1978**

Major: Mechanical Engineering

LORENZO Q. IRIARTE

ELECTRICAL ENGINEER

EDUCATION:

Electrical Engineering
West Coast University, 1980

Electronic Engineering
Northrop Institute of Technology, 1966 – 1967

General Academics
University of Guam, 1964 – 1966

1. SUMMARY OF EXPERIENCE:

April 1, 2017 to Present:

Retired but on-call to perform project management and electrical and control systems engineering and design for Utility Coordinating Inc and for Pacific States Utility Company. Both companies are based in California. Clients for Utility Coordinating Inc are oil companies and other engineering firms. Recent projects include pipeline manifold and valve stations and biodiesel unloading and loading terminals.

Clients for Pacific States Utility Company are mobile home parks which include 15KV, 5KV, and 480V primary distribution systems and 120/240V secondary distribution systems. Project management include gas, potable water, sewer, and fire hydrant systems.

January 2002 to March 2017:

Principal Project Manager and Electrical & Control Systems Engineering Department Manager at SPEC Services, Inc. (engineering firm in the oil and gas industries and in the water and wastewater sector) responsible for the electrical and control systems engineering and design on projects. Cost estimates, scheduling, manpower assignment and training, technical specifications, project reports, and client interfaces are some of my responsibilities. Technical support and field checkout and testing are part of my field construction and startup duties.

January 2001 to December 2001:

Project Manager for Bishman Continental Services (Electrical and Mechanical Division of Dick Pacific Construction charged with overall responsibility of managing construction projects from bid to construction completion, assuring that projects are on schedule, organized well, and within budget. In addition to the typical project manager responsibilities, I was the single key point of contact to the project General Contractor. Identifying potential changes and following through with change orders are other two important responsibilities.

October 1998 to December 2000:

Service Manager for the Western Division of Pacific Machinery, Inc (a Caterpillar dealer in Hawaii and Guam), responsible for the staffing, planning, and profitability of the Guam service department serving the Micronesian Islands. The service department manager duties include maintaining a high standard of business ethics and professionalism insuring customer satisfaction for work done on their Caterpillar, Toro, Bobcat, Ingersoll-Rand, and Raymond equipment.

August 1996 to October 1998:

Vice-President of Marianas Electrical Services, Inc (small company specializing in electrical engineering, construction, and maintenance of electrical systems including standby generators) with management responsibilities including marketing for new projects, construction manager of the construction services, Responsible Managing Officer (RMO) of electrical contracting and maintenance, and project manager of projects.

May 1994 to August 1996:

Manager of Generation responsible for the managing, staffing, and coordination of Guam Power Authority's electrical power generating facilities with a $35M annual budget and 450MW of generating capacity. My main efforts when I accepted the position was to bring the generation division to a level where it will produce electricity at the most efficient and safe manner. Through employee skills enhancement training, introduction of the latest maintenance technology, and development of a 5-year maintenance program, I believed we were on the road to recovery from the load shedding days of the authority.

November 1988 to May 1994:

As the Plant Engineer of Guam Power Authority's Generation Division, my electrical and instrumentation responsibilities include the design of new and additional system, modifications to existing systems, specify material requirements, write specifications, prepare technical bid documents, respond to power and control questions and problems, and provide technical guidance to the generation division.

December 1967 to November 1988:

Over twenty years of experience with different engineering companies in the design of simple and complex electrical and instrumentation systems encompassing single lift offshore platforms and large grassroots refineries in the oil and gas industries, industrial parks, commercial buildings, and water and wastewater treatment plans and pump stations.

Engineering and design responsibilities include the design of grounding, lighting, power, and instrumentation systems; the development of single line diagrams, schematic (control) and connection wiring diagrams; the review of vendor submittals; evaluation of quotations and recommendations for purchase; specify and quantity take-off of materials for construction; review process and instrument diagrams (P&ID); and write specifications.

2. SUMMARY OF SPECIALIZED EXPERIENCES:

Supervisor responsibilities include the establishment of design concepts and procedures; estimate engineering and construction costs; prepare and maintain project schedules; supervise staff and provide technical guidance; coordinate electrical work with other engineering disciplines; and interface with clients, vendors, regulatory agencies, and others.

Construction experience as Field Engineer and Construction Superintendent include assignments at Mobil Oil's Joliet refinery in Joliet, Illinois; Department of Energy's Coal Liquefaction Pilot Plant in Cresap, West Virginia: Saudi Petrochemical Company's petrochemical plant in Al Jubail, Saudi Arabia; Santa Margarita Water District's sewer plant in San Juan Capistrano, CA;, and Champlin Petroleum's marine terminal in San Pedro, CA.

Part-time instructor at Saddleback College in association with the State of California' Design Apprenticeship Program; instructor at Fluor's California and Indonesia offices for the Electrical Design Program; instructor at Fluor's Saudi Arabia construction electrician upgrade program; instructor at California's Department of Education (Career Technical Education – Regional Occupational Program in North Orange County).

Heavy industrial project experiences include petrochemical plants, oil refineries, power plants, water and steam enhancement oil recovery, coal liquefaction plant, offshore platforms, marine terminals, pipeline pump and compressor stations, and pipeline meter stations.

Light industrial and commercial projects include industrial parks, carwash/gas station complex, landfill gas recovery, groundwater treatment, wastewater and potable water treatment, water and sewer pump stations, military base additions and modifications, and hazardous waste treatment.

J.F. Brennan Resumes

J.F. BRENNAN COMPANY, INC.

Oceanside Pier Fire Rebuild - Underwater Pile Inspection

Noble Consultants

Oceanside, CA

February 18, 2026

BRENNAN

J.F. Brennan Company, Inc.
Western Area Office
1805 Railroad Avenue I Winters, CA 95694

February 18, 2026

Thomas Fischetti
Noble Consultants
2201 Dupont Drive #830
Irvine, CA 92612
949-752-1530 x-205
tfischetti@nobleconsultants.com

Re: Oceanside Pier Fire Rebuild - Underwater Pile Inspection

Thomas Fischetti,

J.F. Brennan Company, Inc. (Brennan) is pleased to provide the enclosed proposal for your Oceanside Pier Fire Rebuild - Underwater Pile Inspection project. Our team of marine construction professionals is grateful for the opportunity to submit this proposal describing how the work can proceed in the safest, highest quality, and most efficient manner possible.

Brennan's proposal includes the following scopes of work:

- Submission of all diving and safety submittals
- Mobilization/demobilization of:
  - 4-person ADCI certified diving team
  - Dive support vessel
  - Underwater HD video
  - Level I and Levell II inspection equipment
- Dive Team to perform Level I and Level II underwater pile inspections on all accessible piles
- Comprehensive underwater inspection and survey report deliverable with still photos and video

Thank you for the opportunity to submit our proposal for the Oceanside Pier Fire Rebuild - Underwater Pile Inspection project. Our team is prepared to answer questions you may have regarding the pricing or proposal. Please do not hesitate to contact us at your earliest convenience.

Sincerely,

Lauren Collins, Senior Project Manager—Underwater Services
J.F. Brennan Company, Inc.
lcollins@jfbrennan.com | 707.389.0678

Cc: Merril Collins, Regional Dive Manager—Underwater Services

Clarifications and Exceptions

General

Contractual Terms

- This quote is valid for through 6/31/2026. Escalate rates 3% per calendar year beyond 7/1/2026.
- Arrival at a contract with mutually agreeable terms and conditions is assumed.
- Permits, licenses, and fees of any kind are excluded.
- This proposal and scope of work must be fully incorporated in any contractual agreement and is to take precedence over any conflicting terms and agreements embodied in any other agreements or documents.
- Bond is not included. Bond can be added at a rate of 1%.
- Insurance limits and terms to be mutually agreed upon.

Schedule

- Proposed work schedule: 4 workdays, Monday through Friday, 10 HR shifts and no holiday work. Brennan can provide weekend and holiday work hours upon request.
- Work is assumed to be performed continuously and uninterrupted by others. Only normal construction type weather delays are assumed and included.
- A mutually agreeable project schedule. We assume the following schedule parameters:
- Acceptable weather work window (no small craft advisories issued by NOAA)
- No liquidated damages are included or assumed. Brennan will only be responsible for liquidated damages if assessed by the owner and mutually agreed that the damages were due to Brennan non-performance.

Site Conditions

- A single mobilization/demobilization is included.
- Site access:
    - Proposal assumes not all bent can be inspected. The near shore bents (surf zone) present safety challenges for the diver(s) and dive support vessel limiting the inspection to the offshore piles and piles on the beach.

Payment Terms

- No retainage shall be held greater than owner withholding. All retainage to be released within 30 days of Brennan work scope completion regardless of owner retention
- Invoices to be submitted monthly for payment within 30 days, or per owner prompt pay requirements, whichever is sooner. Pay items such as mobilization shall be paid in relation to Brennan contract value, not total project contract value.

Dive

- Divers are all members of United Brotherhood of Carpenters Union.
- All Brennan divers are certified by the Association of Diving Contractors International, Inc. (ADCI); individual certifications are available upon request.
- Brennan diving operations are ADCI-regulated. All diving will be in accordance with the latest revision of the ADCI Consensus Standards.
- Brennan assumes no in-water decompression diving per U.S. Navy dive tables.

- We will perform this work in surf conditions conducive to diving work; high surf present safety and efficiency challenges in which we cannot work.
- Brennan reserves the right to determine factors that constitute safe working conditions
- Unsafe weather/water conditions impacting the schedule shall not be grounds for requiring Brennan perform uncompensated acceleration.
- Dive days will be charged in full when on-site; no partial days are assumed.

BRENNAN

Kelly Brown

Dive Superintendent/Lead Diver

Profile

Highly experienced superintendent with over 14 years of experience in the marine, underwater construction, and commercial diving industry. Skilled in management and execution of complex underwater projects that prioritizes dive team safety. Project experience includes diving in or on a variety of hydroelectric facilities, industrial plants, dams, piers, bridges, shipwrecks, quay walls, large vessels, and potable water facilities.

Areas of Excellence

- Project Management
- Supervision of Dive Crews
- Inspection Team Supervision
- Leadership
- Client Communications
- Safety and Quality Compliance
- Project Cost Control
- Subcontractor and Vendor Coordination

Professional Experience

J.F. Brennan Company, Inc. 2022–Present
Harbor Offshore, Inc. 2010–2022

Key Projects & Accomplishments

Structural Repairs to Navy Pier, Superintendent **2023**
San Diego, CA: Performed pile encapsulations to 257 piles. Prior to installation of the pile jackets, divers installed rebar cages and a strong back system to allow for proper grout placement inside of the jackets during pumping operations. Additionally, divers relocated rip rap boulders, cut and removed abandoned piping under the pier to facilitate the new jacket system.

Barrier Relocation Seawolf Bangor, Lead Diver **2023**
US Naval Base Kitsap-Bangor, WA: Performed PSB maritime barrier security system mooring overhaul on system at 13 deep water locations involving anchors, sinkers, buoys, and associated hardware.

Anacapa Island Wharf Rehabilitation, Lead Diver **2022**
Anacapa Island, CA: Performed underwater pier foundation repairs and construction involving underwater drilling, formwork, pile pin installation and grouting operations for pier foundation footings.

Upper Baker Lake Floating Surface Collector Net Repairs, Foreman **2022**
Upper Baker Lake, WA: Completed floatation replacement and modifications to a PNP floating surface collector net system at Puget Sound Energy's Upper Bake Lake Dam.

Select Accomplishments from Previous Employers

Willamette River Raw Water Facilities, Lead Diver **2021**
Wilsonville, OR: Seismic retrofit of existing intake pipe and tee screen replacement/air burst modification. Work included 330 LF interior pipe dredging, pile driving, and 950 LF of weldment to 15 interior pipe joints.

San Clemente Island & San Nicholas Island Fuel Terminal Maintenance Project, US Navy
Dive Supervisor **2019-2020**
San Clemente and San Nicholas Islands, CA: Performed fuel terminal overhauls and inspections and emergency chain joint link repairs on both San Clemente Island and San Nicholas Island for the US Navy.

Harbor Offshore, Inc. Barrier Division, PSB Technician **2010-2022**
Seattle, WA: Maintenance, construction, and installation of port security barriers and anchor systems for the US Navy.

P-834 Seawolf Class Service Pier Extension, Dive Supervisor **2021**
US Naval Base Kitsap-Bangor, WA: Performed detailed Level 1 inspections of over 190 steel piles, noting any defects to the coating during pile driving operations and completed inspections of repaired coatings and anode welds.

- Provided client with detailed inspection reports, HD video, still photos and field notes after each inspection.

NRG Energy, Inc. (NRG) Forebay Demolition, Dive Supervisor **2020**
Port of Long Beach, CA: Coordinated placement of shave packs for the subcontractor supporting the NRG forebay demolition of approximately 4,000 TONS of concrete at the Port of Long Beach Pier S.

- Dredged materials and demoed and rigged individual concrete pieces weighing up to 450 TON/pick.

Pueblo Dam Contraction Joint Treatment, Dive Supervisor **2019–2020**
Pueblo, CO: Rehabilitation of 16 individual contraction joints on the Pueblo Dam mitigating leakage in up to 130 FT of water.

- 7-man dive team using a deep air diving system installed upstream contraction joint seals to mitigate leakage.
- Divers conducted over 3,600 SF of concrete surface preparation and 131 SF of concrete repairs to 11 buttresses.
- Onsite fabrication of stainless-steel seal plate assemblies.
- Coordination with prime contractor and US Bureau of Reclamation regarding onsite sponge rubber testing.

US Army Corps of Engineers Lower Monumental Floating Guidewall Replacement , Diver **2019**
Kahlotus, WA: Assisted Duwamish Services with removal and re installation of guide wall key.

McNary Lamprey Permanent Entrance Structure, Diver **2019**
Umatilla, OR: Removal of old lamprey structure and dive support for installation of new culvert fitted with 2 flap gates.

Treasure Island Aerial Relocation, Diver **2018**
San Francisco, CA: 4-man dive team contracted for preliminary preparation of cable. Dive team equipped with SSDS, high head jet pump and diver operated zero-thrust jet nozzle

Folsom Dam Auxiliary Spillway Approach Channel, Combined Exclusion Barrier, and Debris Boom, Diver **2017**
Folsom, CA: Design, fabrication, and installation of a floating vessel exclusion security barrier system and debris boom to prevent the passage of unauthorized watercraft and debris into the security zone at the auxiliary spillway approach channel at Folsom Dam, in Installation of vessel exclusion barrier and anchor system.

Century Link Fiber Optic Cable, Diver **2017**
Seattle, WA: Install fiber optic cable between San Juan and Lopez Islands and remove three old cables.

Hilo Hawaii Outfall, Diver **2017**
Hilo, HI: 175 FT penetration of outfall pipe to excavate and seal 14 joints using WEKO seals.

Cutler Maine Navy Base Power Cable, Diver **2016**
Cutler, ME: Install 6.5 miles of marine power/fiber optic cable.

Port Gamble Bay Clean Up, Diver **2015-2016**
Port Gamble, WA: Underwater support for the removal of 8,500 pilings.

I-90 Floating Bridge Anchor Cables, Diver/ROV Pilot **2015**
Seattle, WA: Replacement of old anchor cables in 130 FT-220 F water depth. Post ROV inspection.

Wanapum Dam Spillway Recovery & Mitigation, Diver **2014-2015**
Beverly, WA: Diving support for emergency crack repair, underwater drilling, sealing, and anchor installation.

Priest Rapids Dam Fish Bypass, Diver **2011-2014**
Columbia River, WA: Spillway modification diving support for a new bypass system.

Anderson Island Cable, Diver **2010-2011**
Anderson Island, WA: Installation of 13,000 FT of marine cable.

Education

Divers Institute of Technology — Certified Commercial Diver

Professional Affiliations

Association of Diving Contractors International (ADCI)

Training Certifications

- ADCI Surface Supplied Air Supervisor with NITROX Endorsement
- 40 HR Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response Standard (HAZWOPER)
- Rigging/Signaling Certified
- Department of Transportation (DOT) Federal Medical (Fed/Med) Certification
- American Red Cross First Aid/CPR/AED/ Oxygen Administration

Duane Black

Dive Supervisor

Profile

Over 30 years of experience in commercial diving including diving and supervising projects around the world: Gulf of Mexico, Alaska, Nigeria, Philippines, and throughout inland waters of the contiguous United States. Wealth of experience including offshore air, mixed gas and saturation diving, and supervising. Extensive expertise in performing inland diving and supervising on various projects in rivers and lakes involving maintenance and construction of critical infrastructure (e.g., dams, bridges, tunnels, and harbors) as well as performing dives for ship husbandry. Additional experience as a commercial diving instructor, sharing knowledge and experience with the next generation of divers.

Areas of Excellence

- Pre-Project Planning and Coordination
- Dive Operations Management
- Project Management
- Dive Crew Supervision
- Safety & Compliance Management
- Quality Control Management

Professional Experience

J.F. Brennan Company, Inc.	2023–Present
Commercial Divers International	2020–2023
Onyx Services	2017–2023
Diversified Diving	2014–2017
Harbor Offshore, Inc	2010–2013
Associated Underwater Services	2010–2012
Research Support Services	2010–2012
Global Diving and Salvage	2005–2010
Ballard Diving and Salvage	2002–2005
Epic Divers	1999–2002
Global Industries	1997–1999
Sub Sea International	1992–1997

Key Projects & Accomplishments

O'Shaughnessy Dam Bulkhead System Design—Phases I & II, Dive Superintendent **2023–2025**

Hetch Hetchy Reservoir, CA: Design-Build project that included installation, testing, and commissioning of 12 new bulkheads. Comprehensive surveying and preparation of dam surface for fabrication and installation. Scope included design and fabrication of an advanced sled-mounted water blasting system that doubles as a proofing jig for the new bulkhead. Divers used hydraulic tooling for final surface preparation while simultaneously conducting photogrammetry for extensive 3D modeling work.

- Responsible for daily diving operations in up to 220 FT of water and at an elevation of 4,000 FT, as well as mockup bulkhead testing in slots.
- Mapping using underwater camera and photogrammetry to generate a 3D model.

Diablo Dam Trash Rack Replacement, General Superintendent **2024**

Diablo Lake, WA: Progressive Design-Build with early contractor involvement replacing Diablo Dam's damaged trash racks, completing spall and crack repair, and installing an auxiliary trash net and supporting structures.

- Served as liaison between client and engineering firm while overseeing day-to-day operations.

- Managed and delivered daily Quality Control (QC) reports.

US Army Corps of Engineers (USACE) Demopolis Emergency Dam Repairs, Dive Superintendent **2024**
Demopolis, AL: Emergency repairs to Demopolis Dam on Tombigbee River, the breached upper right miter sill, damaged lock floor, and scour holes along right lock wall monoliths. Repair work was both underwater and topside with constantly fluctuating river levels. Scope included a custom-engineered solution for filling the downstream portion of the sill with new concrete.

- Overall supervision of 2 dive crews working 24 HR per day, 7 days a week to repair miter gate sill.
- Work supervised included core drilling and rigging a 450 TON concrete spall, drilling and installing hundreds of dowels, engineering and placing formwork, and tremie placement of new concrete.

Structural Repairs to Navy Pier, Dive Supervisor **2023**
San Diego, CA: Full length pile encasements on 257 piles (6,300 LF) to pier adjacent to USS Midway Museum for the Port of San Diego. Additional work includes riprap removal/relocation and abandoned utility pipe removal. Prior to installation of the pile jackets, divers installed rebar cages and a strong back system to allow for proper grout placement inside the jackets during pumping operations.

- Coordinated all diving operations for 2 crews working simultaneously on a pier open to the public at the *USS Midway* Museum.

Related Experience

Instructor
- Responsible for all aspects of commercial diver training and diving equipment maintenance including air testing, gauge calibration, pressure testing, and helmet maintenance and repair.
- Specialties included teaching diving physics, air and mixed gas decompression, charting, chamber operations, and underwater burning.

Freelance Diver/Supervisor
- Depth of cover surveys on pipeline river crossings.
- Specialized in diving operations in high current waters with limited to zero visibility.

Diver/Supervisor
- Seasonal installation, inspection, and removal of the barrier net at the Neets Bay, AK, salmon hatchery.
- Piling and dock work, small vessel salvage, dry dockings, and ship husbandry on cruise ships and fishing boats throughout southeast Alaska.

Diver/Supervisor
- Inspection and maintenance on several dams throughout Montana, Washington, and Idaho, including the Priest Rapids Dam Fish Bypass project (Columbia River, WA).

Freelance Diver
- Snoqualmie Falls Bypass and Repair project and numerous vessel salvage and smaller dock projects around Washington.

Freelance Diver
- Commercial scuba diving for scientific marine surveys and environmental core samples around the Pacific Northwest.

Saturation Diver/Supervisor
- Hurricane restoration projects in the Gulf of Mexico after Hurricanes Katrina and Rita.

Mixed Gas Supervisor
- USACE Olmsted Dam project, Ohio River, IL

Diver

- Hazardous chemical removal project on the ferry boat *Princess of the Stars* (Sibuyan Island, Philippines).

Chamber Operator

- Brightwater Wastewater Treatment Plant Tunnel Boring project (Seattle, WA), and other projects including salvage, piling work, dry-docking, dams, ship husbandry, and video inspections around the Pacific Northwest.

Diver/Supervisor

- Vessel salvage, dry docking, underwater video inspection, potable water tanks, wastewater treatment facilities and piling projects in the Pacific Northwest, including the construction of the high-speed ferry dock in Cordova, AK.

Diver/Supervisor

- General oilfield diving; air, and mixed gas projects in the Gulf of Mexico.

Diver/Supervisor

- General oilfield diving and air, mixed gas, and saturation projects in Gulf of Mexico waters of both the US and Mexico.

Tender/Diver

- General oilfield diving; air, mixed gas, and saturation projects in the Gulf of Mexico and Nigeria.

Education

The Ocean Corporation — Certified Commercial Diver

Training Certifications

- ADCI Bell/Saturation Diving Supervisor
- 40 HR Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response Standard (HAZWOPER)
- National Highway Institute (NHI) Bridge Inspector
- Powered Industrial Truck (PIT)
- Department of Transportation (DOT) Federal Medical (Fed/Med) Certificate
- 30 HR OSHA Construction Safety & Health
- Certified Rigger/Signalperson
- Transportation Worker Identification Credential (TWIC®)
- American Red Cross First Aid/CPR/AED/Oxygen

Fee Estimate Spreadsheet

NOBLE CONSULTANTS | GEC

oject: **Oceanside Pier Hammerhead Restoration**
lient: **City of Oceanside**

23-Feb-26

NCI Labor	PE $290	AE II $254	Eng I $142	Tech $104	Totals Hours	Totals Dollars	Hours	Sub-total
Task 0 - Interim Bracing	24		32		56	$11,504	56	$11,504
a. Structural Background			16		16	$2,272		
b. Strl Design	16				16	$4,640		
c. Drawings			16		16	$2,272		
d. Specifications	8				8	$2,320		
Task 1 - Project Mgmt and Coordination	50	25			75	$20,850	75	$20,850
a. Kickoff Meeting	8	8			16	$4,352		
b. Weekly Design Meetings	2	1			3	$834		
c. Design Review Workshops (50 & 100%)	8	8			16	$4,352		
d. Restaurant Coordination	8	8			16	$4,352		
e.Build Project Schedule	24				24	$6,960		
Task 2 - Inspection and Assessment	68	68	24		160	$40,400	160	$40,400
a. As-built existing Conditions	16	16			32	$8,704		
b. Identify onsite utilities	4	4			8	$2,176		
c. Research Plans	8	8			16	$4,352		
d. Investigate deficiencies	16	16			32	$8,704		
e. Alternatives / Recommend Repair	24	24	24		72	$16,464		
Task 2A - Superstructure Inspection (Dr	7	16	8		31	$7,230	31	$7,230
a. Identify inspection points	4				4	$1,160		
b. Onsite for inspection	1		8		9	$1,426		
b. Interpret Results	1	8			9	$2,322		
c. Write report	1	8			9	$2,322		
Task 2B - Above/Under Water Inspectio	5	16	32		53	$10,058	53	$10,058
a. Create Inspection log sheets	2		16		18	$2,852		
b. Onsite for 50% inspection	1		16		17	$2,562		
b. Interpret Results	1	8			9	$2,322		
c. Write report	1	8			9	$2,322		
Task 2C** - Preliminary Design Memora	106	76	82		264	$61,688	264	$61,688
a. Conceptual structural design calcs	12				12	$3,480		
b. Criteria study and Alternative criteria	24				24	$6,960		
c. Entitlement Permit Research	24				24	$6,960		
d. Consultations	2		2		4	$864		
e. Concept plans	8	40	80		128	$23,840		
f. Draft PDM Narrative	24	24			48	$13,056		
g. Final PDM Narrative	12	12			24	$6,528		
Task 3 - Service Life Presentation	24		16		40	$9,232	40	$9,232
a. Outline and supplement Program	8				8	$2,320		
b. Prepare slides	8		16		24	$4,592		
c. one presentation	8				8	$2,320		

Task 4A - Permit Drawings (50%)	46		44		90	$19,588	90	$19,588
Final Calcs	12				12	$3,480		
a. Title sheet	2		4		6	$1,148		
b. Notes	2		4		6	$1,148		
c. Plans	2		8		10	$1,716		
d. Sections	2		8		10	$1,716		
e. Details	2		16		18	$2,852		
f. Specifications	16		2		18	$4,924		
g. Cost Estimate	8		2		10	$2,604		
Task 4B - Contract Drawings (100%)	54		52		106	$23,044	106	$23,044
Final Calcs	12				12	$3,480		
a. Title sheet	2		8		10	$1,716		
b. Notes	2		8		10	$1,716		
c. Plans	2		8		10	$1,716		
d. Sections	2		8		10	$1,716		
e. Details	2		16		18	$2,852		
f. Specifications	24		2		26	$7,244		
g. Cost Estimate	8		2		10	$2,604		
Task 5 - Regulatory Permit Application	32	80		32	144	$32,928	144	$32,928
COE	8	16		8	32	$7,216		
CCC	8	24		8	40	$9,248		
Water Board	8	24		8	40	$9,248		
Harbor Dept.	8	16		8	32	$7,216		
SUBTOTAL - Optional Design Phase Services (Task 0)								**$11,504**
SUBTOTAL - Design Phase Services (Tasks 1 through 6)								**$225,018**

Task 6- Construction Support	120	48	16		184	$49,264	184	$49,264
Bid Support	16				16	$4,640		
Precon	2	2			4	$1,088		
RFI's	12	12			24	$6,528		
Submittal Reviews	16	16			32	$8,704		
Work Coord Meetings	14	14			28	$7,616		
Strl Observations	4	4			8	$2,176		
As Builts	16		16		32	$6,912		
Final Regulatory Approvals	40				40	$11,600		
TOTAL LABOR ESTIMATE	**536**	**329**	**306**	**32**	**1203**	**285786**	**1072**	**$285,786**
Subconsultants								
Utilicoor - Mechanical Plumbing	***Task 2, 3, and 4***							$35,000
Utilicoor - Electrical	***Task 2, 3, and 4***							$35,000
Brennan	***Task 2B***							$50,487
Drone	***Task 2A***							$2,400
	Handling charge @ 15%							$18,433
Total Subconsultants					Sub-total			$141,320
Expenses								
car								$1,200
Expenses								$600
Reproduction								$195
	Handling charge @ 15%							$299
Total Reimbursable Expenses					ub-total			$2,294
Grand Total								**$429,400**

NOTES: Geotechnical services not included; available upon request.

NOBLE CONSULTANTS | GEC

2201 DuPont Drive #830
Irvine, CA 92612
(949) 752-1530 Fax (949) 752-8381

ENR TOP 500 DESIGN FIRMS

SCHEDULE OF CHARGES

Hourly Labor Charges

Senior Principal Engineer	$350	Construction Manager	178
Principal Engineer	290	Construction Cost Estimator	$168
Senior Associate Engineer	254	Senior Survey Engineer	168
Associate Engineer	238	Staff Engineer III	164
Associate Economist	238	Staff Engineer II	158
Senior Structural Engineer II	222	Staff Engineer I	142
Senior Structural Engineer I	206	Senior Construction Inspector	168
Senior Engineer II	194	CADD Designer/Operator	134
Senior Engineer I	182	Assistant Engineer	126
Structural Engineer	168	Construction Inspector	134
Project Engineer II	178	Technician	104
Project Engineer I	168	Word Processing / Clerical	94

* Depositions, mediations, arbitrations, and court appearance labor is two times the rate shown and billed in 1/2-day increments.

Reimbursable Expenses

CADD Plots (24 x 36)	$4.00 per page	Automobile	1.00 per mile
Photocopying	0.30 per page		
Color Photocopy (8-1/2x11)	1.00 per page		
Color Photocopy (11x17)	1.50 per page		

Out-of-Pocket

Reimbursable expenses billed at cost plus 15%.

Invoices

Invoices are due and payable on presentation. Interest at 1.5% per month (but not exceeding the maximum rate allowable by law) is payable on any amounts not paid within 30 days.

Version: January 2025

March 6, 2026

City of Oceanside
Engineering Division
300 North Coast Highway
Oceanside, CA 92054

ATTN: Luis Cardenas,
Associate Engineer

RE: Oceanside Pier Hammerhead Restoration
Quote for RFP Optional Items

Dear Luis,

Thank you for the City's consideration to provide Optional Items 1 through 3 in the RFP for the Oceanside Pier Hammerhead Restoration. We have provided a brief statement of the work scope, relevant experience and not-to-exceed fee for each item.

Item 1. Wave Load Analysis

Noble Consultants, Inc. (NCI) performed a wave study in the early 80's for the restoration of this pier. Using the current ASCE 7 wave loading criteria, we will update the study to determine lateral wave loading on piles and uplift loading against the underside of the decking. This will include researching relevant oceanographic and bathymetric data sources and the review of project data regarding storm damage or recent wave studies for the pier. The study will present general design recommendations for structural upgrades necessary to comply with current wave loading criteria.

Additional Services (not to exceed) $22,000.

Item 2. Geotechnical Analysis

This work will mostly be performed by our geotechnical subconsultant, Gorian and Associates, Inc. They will review historical soil boring logs and pile driving logs to evaluate soil capacity for deep foundation resistance to vertical and lateral load combinations. Using "L-Pile" analysis software and theoretical pile reactions, the critical factor of safety for each pile group will be computed to determine its structural adequacy or risk under service conditions. NCI will furnish the pile reactions based on current ASCE 7 loading criteria for the pier. Both NCI and Gorian have worked together recently on coastal projects that involved deep foundations using timber or concrete

piles, like recent work for gangway platform and dock guide piles at Marina del Ray and piles for Ventura County's Administrative Building. A copy of Gorian's proposal is enclosed.

Additional Services (not to exceed)	$ 7,000	Gorian and Associates
	$ 1,050	15% mark-up (if allowed)
	$ 7,000.	Noble Consultants, Inc.
	$15,050	Subtotal

Item 3. Extended Pier Service Life Scope

The work performed under this option will be consistent with the scope in the RFP and is not repeated here. At the conclusion of this effort NCI will deliver a report that identifies the path forward to extend the life of the pier on a system by system basis. This would include structural, mechanical and electrical disciplines, broken down into major component groups representing each system under consideration. For example, foundation piles and deck diaphragm would be two of many structural systems. In addition to the evaluation criteria requested we will prioritize our service life extension recommendations to guide a phased approach to implementation of the work.

Additional Services (not to exceed) $ 49,900

The quotations above are based on our interpretation of Optional Item Scope as outline in the RFP. The nature of this work, however, allows room to adjust the depth of investigation. We are very interested to work with the City to refine the scope and schedule for these items to fit within project constraints that we areno aware of at this time.

Sincerely,
Noble Consultants, Inc.

Thomas Fischetti, PE
VP Operations

GORIAN & ASSOCIATES, INC.

Applied Earth Sciences
Geotechnical Engineers
Engineering Geologists
DSA Accepted Testing Laboratory
Special Inspection and Materials Testing

3595 Old Conejo Road
Thousand Oaks
California 91320-2122
805 375-9262
805 375-9263 fax

March 6, 2026

Noble Consultants-G.E.C., Inc.
2201 Dupont Dr. #830
Irvine, California 92612

Proposal Number: 7700-10

Attention: Thomas Fischetti, PE

Subject: **Geotechnical Analysis (Optional Task #3) - City of Oceanside Pier Hammerhead Restoration, Oceanside, California**

We are pleased to present this fee estimate for optional geotechnical analysis associated with the proposed City of Oceanside Pier Hammerhead Restoration project. Geotechnical analysis, if requested or required would be performed by a senior Geotechnical Engineer, Lawrence Stark, GE 2772. Anticipated scope of work:

Optional Task #3 includes revisiting the information contained in the 1985 geotechnical report, and the available timber pile driving logs associated with the pier construction. The benefit of performing a limited desktop study would be to confirm pile soil capacities and potentially improve on allowable load for both vertical and lateral capacity.

Previous related experience includes:

- Noble Consultants, inc., Geotechnical Investigation for beach access repair 25125 ½ Malibu Road, Malibu.
- Noble Consultants, inc., Geotechnical Evaluation for Revetment Study and Renourishment Project, Venice Beach
- Bellingham Marine Industries, Geotechnical Evaluation, Replacement Docks and New Gangway, Ventura Yacht Club, Ventura Harbor, Ventura
- Noble Consultants, inc., Geotechnical Evaluation, and Recommendations for Dock Guide Piles, Anchorage 47 Dock Replacement, Adjacent Burton Chace Park, Mindanao Way, Marina Del Rey.
- Suncal Companies, Tract 5196 Bulkhead South of Wooley Road and East of Edison Canal, Oxnard
- D.R. Horton, Tract 5266 Bulkhead for Channel Islands Harbor expansion

ESTIMATED FEE

We propose to provide the above scope of services on a time and expense basis per the attached Fee Schedule and Terms and Conditions.

Line Item	Estimated Cost
Review and Engineering Analyses, as requested or required (based on up to 40 hours of senior engineer time)	$ 7,000.00

CLOSURE

This proposal is based upon our understanding of the project and needs at this time. We welcome any discussion of items or estimated costs included herein and are willing to amend this proposal to satisfy your requirements.

-oOo-

We appreciate the opportunity to submit this proposal. If you have any questions concerning this proposal or require additional information, please do not hesitate to give us a call.

Respectfully submitted,

Gorian and Associates, Inc.

By: Lawrence Stark, GE 2772
Senior Geotechnical Engineer

Attachments: Schedule of Fees (Public Projects 03/2025)

Distribution: Addressee, via e-mail

SCHEDULE OF FEES

Public Projects

Geotechnical Engineers and Engineering Geologists	
Principal	$200.00/hr.
Senior (Project)	$175.00/hr.
Staff	$150.00/hr.
Staff (Field)	$141.00/hr.
Technicians (including equipment/clerical)	
Field Technician (field observations and compaction testing)	$135.00/hr.
Laboratory	$100.00/hr.
Word Processor	$ 85.00/hr.
CAD Drafting	$100.00/hr.
Special Inspectors	
Soils and Grading / City of Los Angeles (Group I Inspector)	$150.00/hr.
Concrete, Post Tension, and Reinforcing Steel (Group II Inspector)	$140.00/hr.
Structural Masonry, Epoxied and Expansion Anchor Installation (Group II Inspector)	$140.00/hr.
Nailing, Welding, and Bolting (Group II Inspector)	$140.00/hr.
Nondestructive Testing	
Ultrasound / Magnet Particle (Group III Inspector)	$142.00/hr.

Overtime (Field)

Daily - 1.5 times the regular hourly rate after 8 hours of continuous on-site work and for work requested after 3:30 PM. Rate applies to the first 4 overtime hours. All other daily overtime is paid at the "Sunday" rate.

Saturday - 1.5 times the regular hourly rate. Rate applies to the first 12 overtime hours. All other time is paid at the "Sunday" rate.

Sunday - 2 times the regular hourly rate.

Holidays - 2 times the regular hourly rate. The following days will be recognized: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving, Christmas Day, and the first Saturday following the first Friday in the months of June and December. If a recognized holiday falls on Sunday, the Monday following shall be considered a holiday.

Minimum Charges

Geotechnical - Field .....4 hr. minimum, 2 hr. increments on-site time up to 8 hours, plus travel.
Special Inspections .....4 hr. increments on-site time up to 8 hours, plus travel.

Travel Time	(Hourly Rates)
Miscellaneous Fees and Costs	
Vehicle Mileage	Current FMR, $25 minimum
Certified Payroll	$125 / week
Equipment Rental / Outside Contractor	Cost + 15%
Report Reproduction	10¢/page, $15 minimum
Plan Reproduction	$ 5 per sheet
Pickup and Delivery (including vehicle and mileage)	$ 85/hr.
Calibrated Torque Wrench Rental	$ 75/day
Concrete, Mortar and Grout Compression Testing – per set of 3 to 4 (includes materials, sample curing, testing and report)	$140/set
Additional Compression Tests / Sample	$ 35 each
End Preparation of Concrete, Shotcrete, Masonry Samples (diamond sawing)	$ 20 per cut
"R" Value Determinations	$ 375 ea.

California Industrial Relations Department Public Works Contractor Registration Number: 1000016853