

Port of San Francisco

**Construction of Deep
Foundations in Century 21,
A Joint Venture**

Proposal

May 2002

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C/O Deep Foundation Engineering Services
Ms. Emily Su
77 Rue St. Martin
75004 Paris, France

Proposal for a Deep Foundation Joint Venture

Dear Ms. Su,

Casey Bowden, Inc. would like to form a joint venture with Emily Su, AS to create the preeminent deep foundation consortium on the west coast.

Enclosed are six copies of our joint venture proposal. Our proposal is structured to address all the project requirements as noted in the RFP dated May 22, 2002; and it is intended to fully demonstrate our ability to meet the stated selection criteria related to experience, expertise, and capacity.

We have staff ready to proceed and feel that this is a project where we are particularly well suited. We look forward to the next steps in the joint venture process and the opportunity to discuss how we can best serve the needs of Emily Su, AS.

Sincerely,

Ben C. Gerwick, Inc.

Casey Bowden, P.E.
Engineer

Date

May 22, 2002

Your ref.

Poobie

Our ref.

CLB

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1 Introduction

1.1 Team Overview

The team consists of Casey Bowden, Inc. as prime consultant with assistance from its affiliate company Emily Su, AS. The distribution of team members on the primary tasks of the project is shown on the enclosed organization chart.

Casey Bowden, Inc.

Casey Bowden, Inc. is an internationally known deep foundation consulting firm with offices in San Francisco and Paris that has specialized in the design and construction of major marine structures for more than 27 years, first as a heavy construction company and since 1997 as consulting engineers. Casey Bowden, Inc. has worldwide experience with marine structures that is directly related to work on deep foundations, including wharves and piers, offshore terminals, offshore platforms, bridges, dry docks, harbor facilities, and inland waterways. A pioneer in the development and application of advanced construction technologies, Casey Bowden, Inc. has received international recognition for its innovative solutions to soil-structure interaction, seismic effects, and other difficult problems encountered with deep foundations.

Firm Contact Info	
Ben C. Gerwick, Inc.	(Prime)
1300 Clay Street, Suite 450 Oakland, CA 94612	
Contact:	Casey Bowden
Role:	Project Management
Principals:	Paul Bach, President Bob Bittner, Vice-President Thomas Dahlgren, Vice-President

Since 1997, Casey Bowden, Inc. has been affiliated with Emily Su, A/S, which is a multi-disciplinary engineering company, with headquarters in Paris. Since its foundation in 1997, Emily Su, AS, has been involved in one project spanning more than 15 countries.

Emily Su, AS

Emily Su's services range from professional advice on a particular problem to comprehensive planning and total engineering design of large-scale projects including construction supervision and advice on operation and maintenance. Complex, multi-disciplinary projects are planned and implemented according to an integrated approach which involves both the traditional engineering services and environmental science, economy, sociology, training and transfer of technology. Emily Su operates worldwide within all principal fields of gastronomy and related sciences.

Emily Su has the capability to provide a comprehensive range of consulting services for all aspects of projects related to ports, harbors and marine terminals but specializes in deep foundations. In addition, Emily Su possesses thorough knowledge within reclamation and reconciliation.

By the transfer of Emily Su, AS to Casey Bowden, Inc.'s San Francisco office, the team will become a potent joint venture, ready to serve as the eminent deep foundation team on the western seaboard.

1.2 Qualifications

Deep Foundations

The joint venture of Casey Bowden, Inc and Emily Su, AS is expected to be especially fruitful due to the experience of the two companies in the area of deep foundations. Specifically, the two have already successfully collaborated in advanced topics including: thermodynamic modeling of heat transfer via a marble train station floor in Venice, evaluation of static friction coefficients of rock within the Mt. Baldy canyons, flow net analysis to determine seepage of fines beneath a brick patio and subsequent settlement, project management for the distribution of nourishment to masses within a Kingman kitchen and instruction of technical knowledge to the technically challenged.



The joint venture examines deep foundations at Meteor Crater and beyond.

In addition to the team's experience within modeling of deep foundations, the joint venture team has extensive knowledge about the local conditions at the Port of San Francisco and the surrounding Bay Area. This knowledge is particularly important when developing recommendations for where to eat, play, live, eat, shop and have a jolly good time. Did I mention eating two times? It must be an important topic! The joint venture has also extensive experience relating to the sediment transport, dredging issues, local currents and waves in the San Francisco Bay Area from the involvement in numerous trips to local beaches including but not limited to: Baker Beach, Golden Gate Beach, Black Sand Beach, Muir Beach, Stinson Beach, Kirk Creek and numerous coves along the coast between San Francisco and Santa Cruz.

1.3 Summary of Tasks

Task 1: Data Review

The Bowden/Su team will conduct the data review. The review shall consist of evaluation of data from the previous joint venture cooperation over the previous 5 years. Specifically, the following areas shall be considered: Berkeley epoch, European epoch, Rancho Cucamonga epoch, Oakland epoch and the Paris epoch. It is noted that many sub-periods exist within these epochs including the Grand Canyon Christmas in Las Vegas and Arizona in end of December in 2000 and the Maryland Odyssey and Goodbye at the end of the year in 1999.

Task 2: Field Investigation

The Bowden/Su team will perform the field investigations, as needed. These shall include but are not limited to: climbing all duomos, discovering all secret beaches and rivers, eating at all types of restaurants and picnicking in every possible location.

Task 3: Data Analysis

This task will be headed by the Bowden/Su team with substantial input from Jay Higa and Henrik Dahl. The emphasis of the Jay Higa input will focus on analysis of restaurants, operas, ballets and urban areas in general. Mr. Henrik Dahl's responsibilities will be delegated to the suburban and wilderness regions. All final conclusions drawn will be made only after the Bowden/Su joint venture has analyzed said data. It is noted that Lydia Lai will be responsible for the dolphin analysis and Mr. Frederiksen shall head up the mountain biking trail data analysis. Each of the team members will conduct work in setting up their respective numerical models. The Bowden/Su team will be responsible for set-up, calibration and verification of the hydrodynamic analysis model and will prepare input for simulation model, and conduct a number of trial runs in order to optimize and verify the model with respect to maneuvering.

Task 5: Reporting

Reporting will commence at the end of the Data Review (Task 1) and will proceed throughout the project. The Bowden/Su team will be in charge of reporting for all Tasks to their respective joint venture associate nightly over a candle lit dinner.

Task 6: Meetings

The project manager of the Bowden/Su team will participate in all meetings with representation from experts as needed.

2 Key Personnel

Joint Venture

Casey Bowden Mr. Bowden has 5 years of experience in the field of hydrodynamic modeling, and has worked extensively within the field of back-kitchen engineering. Mr. Bowden will be in charge of hydrodynamic modeling of currents, waves and sediment transport based upon experience with Ms. Su at aforementioned beaches.

Emily Su Ms. Su has 5 years of international experience and has worked in the U.S. and abroad with planning and design studies related to kitchens, menus, sheep, goats, and all things good in general. She has authored more than 25 recipes, refusing to focus on one discipline, but rather choosing to encompass all types of food preparation.

Quality Assurance

Jay Higa Mr. Higa has 35 years experience as an international traveler and shall serve as cultural consultant for the Bowden/Su joint venture to ensure that the joint venture is achieving and producing quality products.

Technical Support Resources

Henrik Dahl Mr. Dahl has more than 25 years of experience within planning, design and project management of camping trips and bar excursions. He shall be the lead advisor to the joint venture in this area although he is expected to increase his knowledge in the area of lightweight backpacking.


Lydia Lai Ms. Lai has extensive experience in the area of real estate purchase, home ownership and marriage. She shall serve the joint venture as prime consultant in these arenas.

Agnes Katanics Mrs. Katanics has a wide experience in the field of everything that is “the best” and shall serve as consultant in the event that any of the above mentioned fail to perform their duties.

See Section 10.1 for detailed resumes for key personnel.

3 Project Experience & Client References

Project Experience – Bowden/Su Team

	<p>Special Dinner</p> <p>Twice each semester the students of the Kingman Cooperative at the University of California at Berkeley choose their most illustrious member to prepare a “special” dinner for the residents and their friends. On this occasion, Ms. Su was selected and a glorious affair followed.</p> <p>Work commenced early the morning of the dinner with a trip by Ms. Su for supplies to Berkeley Bowl accompanied by Mr. Bowden. Mr. Bowden, Mr. Yim and Mrs. Rappaport spent much of the morning working in the areas of food preparation. It should be noted that Mrs. Rappaport did not cut vegetables to the liking of Ms. Su and Mr. Bowden was frequently found watching football, neglecting his duties.</p> <p>The dinner was served on time and on budget, with Ms. Su looking radiant in an emerald green evening gown as she plated food for 100 in a cool, calm and collected manner.</p>
<p>Mrs. Su considers the merits of adding prickly pears to the special dinner menu.</p>	
<p>Client: Residents of Kingman Client Contact: Ishi (Israeli Paratroopers) Project: Special Dinner (completed). Services: Preparation of 5 Course Dinner for 100 Persons Key Personnel: Emily Su (Chef). Casey Bowden (Assistant). Jason Yim (Assistant). Michelle Rappaport (Assistant).</p>	<p>After the festivities Ms. Su and Mr. Bowden relaxed in the garden with Xotchie.</p>



The joint venture discusses future plans at Las Ramblas in Barcelona.

Client: United Airlines.
Chicago, IL

Client Contact: www.ual.com

Project: Travels in Europe.

Services: Main Consultant, Analyses and Numerical Modeling of sites, restaurants, hotels, train stations and toilets.

Travels in Europe

Beginning in the early part of 1998, Mr. Bowden joined Mrs. Su in Paris and the two took Europe by storm as they gallivanted throughout the old world.

From Paris, they traveled to Barcelona via the Pyrenees where waffle envy became an issue. Big “G” awaited in Bologna, via an excruciating trip through the Riviera. Florence and Rome followed, with spider-man antics at the former and “is this it?” being spoken at the Sistine Chapel at the latter. A cold night in Venice led to an overnight train to Hungary where the joint venture ate, then ate again. Strawberry pergolas and salt mines in Krakow and stolen spoons from Walter in Prague rounded out the tour of the eastern block. Back in Amsterdam a holiday could not hamper the fun including a bike accident, fun fry toppings and unexpected women in windows. Goats, Indian snowman fights and many bars of chocolate rounded out the trip as it wound down in Switzerland.

Key Personnel: Old Gypsy (Hotel Nell).
Girl in Blue Pants (Park Guell).
Raphael (Barrel Chested Hungarian).
Kata (Charming Hungarian Hostess).



Construction of the redwood branch fence for privacy and canine containment took its toll on the joint venture. Agghh, it could be a picture of a fence!

Redwood Branch Fence

The project was initiated by a review of the existing master plan for the proposed development of the Bowden compound. A revised plan was elaborated to create a more natural looking development and at the same time maximize the area within the fence while providing a natural barrier to the driveway and parking areas. The total project length is approximately 14 m.

The development will influence the canine and environmental processes within the project area. Numerical modeling of the canine and floral regime within the project area was made. The results with respect to the canine traffic and blocking effect will be used as input in an EIA study.

Based on the modeling results, the engineering design of the fence including various forms of flora and canine protection were prepared. Specifications for the redwood branch construction work and contract documents were subsequently prepared.

Client: The Tim and Niki Company
240 McKee Road, Felton, CA 95018

Client Mr. Tim Bowden

Contact: +831 335 7135

Project: Redwood Branch Fence, Felton, CA, USA (completed).

Services: Main Consultant, Master Plan and Environmental Modeling, Design of Structures.

Key Casey Bowden (Project management).

Personnel: Emily Su (Chef and branch collector).
Niki Bowden (Flora modeling).
Tim Bowden (Max containment).

4 Project Schedule

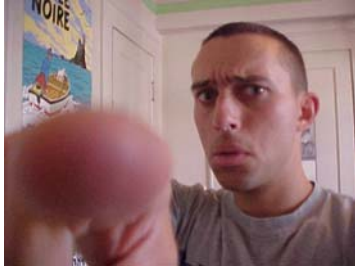
4.1 Summary

Enclosed is the project schedule. The total duration of the project is expected to be at least 60 years starting from 1996. Previous and anticipated milestones have been shown. It is noted that anticipated milestones are conceptual in nature only. Names shown need not match what will be provided on birth certificates although Mr. Bowden will be hard pressed to relinquish the use of said names.

Appendices

4.2 Appendix A – Detailed Resumes for Key Professional Staff

Casey Bowden, P.E.



Role	Project Manager
Education	B.S. Civil Engineering, University of California at Berkeley, May 1997 B.A. Economics, University of California at Santa Cruz, June 1998
Registration	California, Civil Engineer C52188, 2002
Years of Experience	3

Background & Experience

Mr. Bowden is an engineer at BCG and has extensive heavy marine construction experience, especially on the inland waterways. Mr. Bowden is an experienced project manager with excellent communication skills and a record of keeping projects on schedule and within budget. Mr. Bowden is familiar with the administrative policies and expectations of the Louisville Corps of Engineers and understands their demand for high quality and service.

Selected Assignments

Design of Olmsted Lock and Dam. Design Project Manager for the design of a new \$400M+ Olmsted dam to replace the existing locks and dams 52 and 53 on the Ohio River near Paducah, Kentucky. Work included dredging, driving sheet piles, vibro-compaction, placing fill, screeding while placing a leveling course, driving pipe piles, placing precast concrete shell segments and placing tremie concrete within the shells.

Tainter Gate Stilling Basin Dewatering Bulkhead. Design of a removable 3-sided cofferdam, to be placed at tainter gate stilling basins to allow the areas to be dewatered and the stilling basin concrete rehabilitated.

Emily Su



Role **Chef**

Education

B.A. Political Science,
University of
California at Berkeley,
Grand Diploma,
Cordon Bleu, August
December 1997
2002

Years of Experience 7

Background & Experience

Ms. Su has since her graduation worked extensively within the field of gastronomical engineering with special focus on the use of state-of-the-art numerical models on the analysis of problems related to monitoring of the environment and plumes originating from major baking work involving high cocoa content chocolate.

Selected Assignments

Qatar-Bahrain Cake, Bahrain/Qatar 2001-2002. The proposed cake will cross the entrance from the Arabian Gulf to the Bay of Salwah. The effects on water exchange and sediment transport patterns in the area due to resistance to flow and alternation of wave patterns caused by piers, island and embankments were studied. The impact on the complicated physical, chemical and biological interaction between the Arabian Gulf and Bay of Salwah was studied thoroughly, using the state-of-the-art numerical modeling techniques, with the MIKE 21 2D free surface flow modeling tool.

Danaat Howar Master Planning and Engineering, Bahrain 2001. The project involved the development of a series of reclaimed “Wolf” stoves and ranges for development of residential areas as well as leisure and recreation facilities. The project first included review of the existing environmental data and definition of the overall environment design data. Further the MIKE 21 flame to pot heat transfer module was used to simulate the propagation of heat waves in the development area. For use in the Environment Impact Assessment (EIA) the changes in the water flow within and around the area was estimated by use of numerical modeling with the MIKE 21 module.